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NORTH SLOPE BOROUGH
PROJECT REVIEW COMMITTEE (PRC)

Scott Danner, Director, Public Works Department
Bernadette Adams, CIPM Director
Sandra Stuermer, Director of Administration and Finance
Georg T. Kaleak, Village Deputy Advisor to the Mayor Village Affairs- KAK
Steve Eric Leavitt, Village Deputy Advisor to the Mayor Village Affairs-NUI
Alternate
Anthony Edwardsen, Advisor to the Mayor – Office of the Mayor

CIP Project Review Committee Ordinance 2021-10 Workshop

AGENDA

REVIEW March 30th, 31st, April 1st, & 2nd, 2021 @ 9:30 am
RECOMMENDATIONS April 2nd, 2021 @ 9:30 am
NSB Assembly Chambers,

1. Call to Order and Roll Call
2. Invocation
3. Reorganization of PRC
4. Introduction by Planning Department
5. 2020 6-Year Capital Plan Review
6. Bond Capacity and Debt Target Review
7. Project Request Submittals – Order of Review by Section
   a. 06 Education Facilities
   b. 07 Public Roads, Streets & Water Courses
   c. 08 Public Housing
   d. 09 Water Facilities
   e. 10 Sewage Treatment Facilities
   f. 11 Airport and Airport Facilities
   g. 13 Light, Power & Heating Systems
   h. 14 Public Safety Facilities
   i. 15 Sanitary Facilities
   j. 17 Comminutions
   k. 18 General Capital Projects
   l. 22 Administration
8. Project Analysis Requests & Recommendations
9. Project Request Recommendations - FRIDAY
10. Old Business
11. Scheduling of Next Meeting
12. Adjournment
MEMORANDUM

To: CIP Project Review Committee
From: Gordon Brower, Director
Date: March 20, 2021
Subject: CIP 2021-10 Briefing Book

I would like to take this opportunity to welcome back the returning PRC members and to welcome new members.

This workbook introduces the CIP process and projects proposed for consideration under the CIP Ordinance 2021-10 for PRC recommendations to the Planning Commission.

The 2020 CIP Six Year Capital Plan identifies a need for capital funding that far exceeds the NSB’s annual debt capacity. Many phased projects currently exist that have not achieved construction or completion funding due to the same fiscal constraints. This workbook contains project requests that address repair and replacement, to continue existing projects, and new projects.

Please review each request and form a recommendation to the Planning Commission of those projects that meet criteria and should be funded this year. During your deliberations my staff will be recording your discussion to offer the Commissioners an explanation for each project contained herein.

Quyanaqpak, and best wishes in your coming endeavor.
PUBLIC NOTICE

NORTH SLOPE BOROUGH
CAPITAL IMPROVEMENT PROGRAM

PROJECT REVIEW COMMITTEE (PRC)
WORKSHOP FOR CIP ORDINANCE 2021-10

The PRC is holding public meetings on March 30th, 31st April 1st, and 2nd 2021 to review and consider capital project requests and provide recommendations to the Planning Commission and Mayor for Capital Improvement Program Ordinance 2021-10. Meetings will be held at NSB Assembly Chambers at 1274 Agvik Street in Barrow, Alaska, and broadcast to community teleconference centers.

NSB Assembly Room beginning at 9:30am
Tuesday March 30th, Wednesday March 31st, Thursday April 1st, & Friday, April 2nd, 2021

Workbooks available to review at Village Teleconference Centers

For agenda, meeting material, information, or questions
Contact CIP Technical Coordinator, Nok Acker Nok.Acker@north-slope.org
(907) 852-0320

Date Posted 3/11/2021
MEMORANDUM

To: All North Slope Borough Users
From: Harry K. Brower, Jr., Mayor
Date: February 2, 2021
Subject: CIP Project Review Committee

In accordance with the Capital Improvement Program (CIP) goals and policies that were established to address future growth and development on the North Slope, I have appointed the following members and an alternate to the CIP Project Review Committee. This Committee will be responsible for the coordination and review of the CIP proposed project requests for future funding.

Members:
George T. Kaleak, Village Deputy Advisor to the Mayor, Village Affairs - Kaktovik
Steve Eric Leavitt, Village Deputy Assistant to the Mayor, Village Affairs – Nuiqsut
Bernadette Adams, Director, Department of Capital Improvement Program Management
Sandra Stuermer, Director, Department of Administration & Finance
Scott Danner, Director, Department of Public Works

Alternate:
Anthony Edwardsen, Advisor to the Mayor - Office of the Mayor
NORTH SLOPE BOROUGH
Annual New CIP Project Submittal and Selection Process

**NOV/DEC**
- Announcement Letters Sent to Submitting Entities*

**OCT/NOV, DEC, JAN**
- Village Workshops

**DEC to FEB**
- Project & PAR Request Intake from Submitting Entities
- Initial Review by Staff for Completeness

**DEC to FEB**
- Completed Project/PAR Requests to Selection Process
- Incomplete Application

**3 day Workshop end of MARCH**
- Projects are reviewed by CIP Project Review Committee (PRC)

**Following the PRC Workshop MAR/APR**
- Mayor’s Office for Concurrence and Possible Additions

**2 Day Planning Commission Workshop and Reg. Meeting end of APRIL**
- NSB Planning Commission Reviews All CIP Project Requests, Prepares Recommendation to Assembly via NSB Mayor

**NSB Assembly CIP Public Hearing and Adoption**

**Voters to Approve Bond Sale to Fund Assembly Approved CIP Projects**

**CIPM Carries Out Approved & Funded CIP Projects**

**DECEMBER/JANUARY**

**OCTOBER**

**One Day Workshop and Special Assembly Meeting before JUNE 15**
NORTH SLOPE BOROUGH PLANNING COMMISSION
RESOLUTION 2010-16

A RESOLUTION ADOPTING AMENDED CIP PROJECT SELECTION CRITERIA
FOR DETERMINING NON-DISCRETIONARY, PRIORITY – DISCRETIONARY AND
DISCRETIONARY CIP PROJECTS

WHEREAS, the Planning Commission is charged under North Slope Borough Code of Ordinances
19.30.050 (B) with the responsibility to annually review the Capital Improvements Program (CIP) of the
North Slope Borough and submit its recommendation to the Assembly; and

WHEREAS, in performance of this charge it is necessary to establish criteria whereby CIP project
proposals can be evaluated; and

WHEREAS, as the North Slope Borough is preparing a more detailed 6 Year CIP plan existing selection
criteria need to be updated to reflect this new approach.

NOW, THEREFORE BE IT RESOLVED:

THAT the North Slope Borough Planning Commission adopts the following amended CIP project
selection criteria attached as Exhibit 1; and

THAT a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED: October 28, 2010
ADOPTED: October 28, 2010

Paul Bodfish, Sr., Chairman
Date 10-28-2010

Eli Nakupiak, Clerk
Date 10-28-10
CRITERIA FOR DETERMINING NON-DISCRETIONARY, PRIORITY- DISCRETIONARY AND DISCRETIONARY CIP PROJECTS


Non–Discretionary¹:

A Non-Discretionary project is one that is a verified emergency; is a borough responsibility; and is related to life health and safety. Few projects will qualify for this classification. Specific criteria include:

1. The NSB has been formally warned or a notice of violation issued by local, state or federal authorities that a borough facility will be closed or fines levied in the next year unless a plan of action is prepared or a corrective effort made.

2. When a structural failure of a borough building is imminent and has been attested to in writing by a licensed engineer or architect, and the building is an essential facility for the life, health, safety, and educational (primary & secondary) services for borough residents and the cost of corrective measures is the most efficient solution.

3. Where environmental conditions are such that without immediate action an actual and a verifiable and documented imminent threat to public health exist and relates to a borough power or responsibility.

4. Where a risk assessment has been conducted that documents a capital investment is prudent so as to avoid the imminent or very near term failure of a vital borough facility or function.

Priority Discretionary:

1. Projects that are listed in the borough’s “6 Year CIP Plan” in the year indicated and are designed to support the borough’s existing capital assets and level of service and not expand them.

In addition, projects may be considered Priority Discretionary or given added emphasis if they meet one of the following:

2. Where a new project will generate a significant cost saving/reduction to the Borough operating budget and is documented as such by appropriate analysis;

3. A project that has a significant local employment impact or serves to equalize employment impacts across the borough.

4. A project which leverages a significant amount of outside funding.

Discretionary Projects

1. All other projects

¹ For a project to receive “Non-Discretionary” status under items 1 – 4, there must be written confirmation as indicated submitted with the project request.
## Debt Schedule by Fiscal Year as of December 31, 2020

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<th>Fiscal Year</th>
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<td>79,606,275</td>
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<td>55,055,000</td>
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<td>2023</td>
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<td>2024</td>
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<td>2028</td>
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<td>2031</td>
<td>690,000</td>
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<td><strong>Total</strong></td>
<td><strong>$ 260,890,000</strong></td>
<td><strong>$ 30,025,684</strong></td>
<td><strong>$ 290,915,684</strong></td>
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Debt Schedule by Bond Series
as of December 31, 2020

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<td>Series 2020 A</td>
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<td>Series 2019 B School</td>
<td>2,825,000</td>
<td>216,625</td>
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<td>Series 2019 A</td>
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<td>Series 2016 C School</td>
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<td>Series 2016 B</td>
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<td><strong>Total</strong></td>
<td><strong>$ 260,890,000</strong></td>
<td><strong>$ 30,025,683</strong></td>
<td><strong>$ 290,915,684</strong></td>
</tr>
</tbody>
</table>
Proposed Maximum Issue of Debt for FY 2022

$100,000,000
The 2020 6-Year Capital Plan has been developed from several sources:
1. Projects recommended for funding by the CIP Policy Review Committee and the Planning Commission are the basis for the first year (2020) in the Plan.
2. Previously approved projects that were identified as “phased” have the subsequent phases budgeted in the Plan.
3. The NSB Repair & Replacement Schedule has been used to calculate the remaining useful life of all of the Borough’s building, equipment and infrastructure assets. This comprehensive database is used to forecast when capital upgrades are necessary by comparing the estimated useful life of an asset and its many parts to their installation dates.
NORTH SLOPE BOROUGH PLANNING COMMISSION
RESOLUTION 2020-09

A RESOLUTION RECOMMENDING THAT THE NORTH
SLOPE BOROUGH ASSEMBLY APPROVE THE 2020
CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, North Slope Borough Municipal Code (NSBMC) § 19.30.050(B)
requires the North Slope Borough Planning Commission (Planning Commission) to annually
review the Borough’s Capital Improvements Program (CIP) and submit its recommendations on
the plan to the Assembly; and

WHEREAS, pursuant to NSBMC § 3.15.010, the Capital Improvements Program
consists of a six-year plan that includes the projects in the capital budget, outlines proposed capital
projects for the following five years and provides a summary of unfinished capital projects; and

WHEREAS, the Department of Planning and Community Services developed a
proposed 2020 six year capital plan based on projects proposed by Borough departments and each
North Slope community; and

WHEREAS, on May 28, 2020, the Planning Commission considered said plan
during its Regular meeting.

NOW THEREFORE BE IT RESOLVED:

The North Slope Borough Planning Commission recommends that the North Slope
Borough Assembly approve the Capital Improvements Program attached as Exhibit 1.

THAT a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED: 5/28/20
ADOPTED: 5/28/20

Paul Bodfish Sr., Chairman
Date: 05-29-2020

Daisy Sage, Clerk
Date: 05-29-20
### 2020-10 Recommended Projects

- Residential Learning Center, $187,500 for AIN
- NSBSD Infrastr. Improvements, $562,500 for AIN
- Water Treatment Plant Upgrade, $6,490,000
- AW Water Storage Tank Upg., $2,500,000
- AW Water Systems Upgrades, $375,000 for AIN
- AW Water Sewer Equipment, $50,000 for AIN
- AW Power Grid Preservation, $156,875 for AIN
- AW Power Generation Upg., $59,625 for AIN
- Village Landfill Fences, $680,000 for AIN
- AW Radio Systems Ugp., $101,000 for AIN
- Vesta E911 System Upgrade, $109,875 for AIN
- Light Duty Vehicle, $13,020,000
- Wainwright Public Facility, $13,020,000
- Wainwright Heavy Equipment, $2,503,000
- JD Edwards Upgrade Phase 4, $77,500 for AIN

### Status of Major Projects

- Design for Alak School renovations will begin this summer
- Coordination between Public Works, CIPM, and the community on the location of new snow fences is ongoing
- The water storage tank upgrade design is complete
- Design is complete on wastewater treatment plant lift station upgrades. Construction bid opening is scheduled for May
- Power generator units 4 and 5 have been upgraded
- Police station video surveillance software upgrades are complete
- Radio shelter upgrades are ongoing
- Health Clinic fire escape design is underway
- A new senior van for the Health Department was delivered on the summer 2019 barge
- The SCADA upgrade project is beginning this summer
- The old Public Works building is being demolished and the site remediated. Design for the replacement building is ongoing
- A landfill expansion is in final design stage
- A water treatment plant project for major renovations is expected to bid in December 2020

### 2020 Wainwright Steering Committee Priorities

1. Replace Public Works Building
2. Power Plant Upgrades
3. Water & Wastewater Treatment Plant Upgrades
4. Alak School Upgrade
5. Housing
6. Retractable Boat Ramp
7. Community Wide Drainage and Culverts – Road Lifting
8. New Landfill
9. Expansion of Panik Road
10. Expansion of Makpik Road and Driveways
11. Gravel Acquisition
12. Tapqaq Bar Access Road
13. Coastal Erosion Mitigation / Seawall
14. Airport Passenger Terminal
15. Cultural Center / Daycare and Community Center
16. Mini Hub

### Wainwright Comprehensive Plan Select Capital Needs

Goal 1. Develop a cultural center and daycare center
Goal 2. Potential airport relocation, docking facility and boat launch at Tupkak Bar Road
Goal 3. Facility demolition recycling program, flag winter transportation routes for snowmachine travelers
Goal 4. Develop multi-use facility
Goal 5. Fiber optic upgrade

### Anticipated Capital Needs

- Upgrades / replacement of the Fire Station
- Gravel for new projects and to shore up existing infrastructure is needed
- Water tanks have structural damage and need repair
- Gravel for new projects and to shore up existing infrastructure is needed
## 2020-10 Recommended Funding

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Amount</th>
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<tbody>
<tr>
<td>Residential Learning Center, $187,500 for NUI</td>
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<tr>
<td>NSBSD Infrastructure Improvement, $562,500 for NUI</td>
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<tr>
<td>AW Water Systems Upgrades, $375,000 for NUI</td>
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<td>AW Outfall Line Repair, $500,000 for NUI</td>
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<td>AW Sewer Systems Upgrades, $187,500 for NUI</td>
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<td>AW Water Sewer Equipment, $50,000 for NUI</td>
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<tr>
<td>AW Power Generation Upgrade, $187,500 for NUI</td>
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<td>AW Radio Systems Upgrades Ph. II, $59,625 for NUI</td>
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<td>Vesta E911 System Upgrade, $109,875 for NUI</td>
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<tr>
<td>Light Duty Vehicle, $101,000 for NUI</td>
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<tr>
<td>Nuiqsut Heavy Equipment, $1,596,000</td>
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<tr>
<td>JD Edwards Upgrade Phase 4, $77,500 for NUI</td>
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</tr>
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</table>

## Status of Major Projects

- Construction work on the Nuiqsut airport lighting is anticipated to restart this summer
- A tower and module for the H2S Gas Scrubber project was received at Alpine and placed on a foundation. NSB is preparing tie-in package (connect to COPA system) to put out for bid.
- The natural gas pipeline extension for blocks 10 and 11 is expected
- Power generator units 3 and 6 have been upgraded; upgrades are expected to continue into summer 2020
- Police station video surveillance system software upgrades are complete
- The radio shelter upgrades are ongoing
- Upgrades to the sewage lagoon are in the design phase
- The pilings for the new 10-plex housing unit have been installed and materials have been delivered

## 2020 City Council Priorities

1. Nuiqsut Airport Runway
2. City Building and city property upgrades and renovation
3. Cultural heritage center
4. Natural gas hookup on Nutaagvik and Ericklook streets
5. Freshwater Lake Road upgrade
6. Nuiqsut access roads surface upgrade
7. Road access to lots on Freshwater Lake Road

## Anticipated Capital Needs

- Upgrades / replacement of the Fire Station
- The Public Works warm storage building needs to be replaced
- Water and sewer extensions to new subdivision
- Community washateria
- Gravel for new projects and to shore up existing infrastructure is needed
2020-10 Recommended Projects

- Residential Learning Center, $187,500 for AKP
- NSBSD Infrastructure Improvement, $562,500 for AKP
- AW Water Systems Upgrades, 375,000 for AKP
- AW Sewer Systems Upgrades, $187,500 for AKP
- AW Sewer Equipment, $50,000 for AKP
- AW Waste Heat Recovery, $2,000,000
- AW Power Generation Upgrade, $187,500 for AKP
- AW Radio Systems Upgrades Ph. II, $59,625 for AKP
- Vesta E911 System Upgrade, $109,875 for AKP
- Light Duty Vehicles, $101,000 for AKP
- AKP Heavy Equipment, $2,213,000
- JD Edwards Upgrade Phase 4, $77,500 for AKP

Status of Major Projects

- The museum access road permit has been updated and cost estimates are under review
- Police station video surveillance system software upgrades are complete
- A rock crusher has been delivered and is operating
- Radio shelter upgrades are ongoing
- The secondary leach field project is complete
- Airport lighting upgrades are complete
- The secondary water well project is on hold but is expected to resume shortly
- The power plant upgrade design is complete and waiting for construction funds
- Power generator unit 6 upgrade/overhaul is complete
- New water and sewer connections have been funded. A resolution recently passed to include the Senior Center but not the itinerant house. Construction is going to bid
- New dumpsters are expected to be delivered via the CWAT next season

Anticipated Capital Needs

- Subdivision development / relocation
- Additional water & sewer connections
- Power plant upgrade
- The NSB Administration Building / Public Works building replacement facility

2020 City Council Priorities

1. Water/Sewer Hook Ups
2. Subdivision
3. Multi-Purpose Building
4. Renovation / Upgrading Residential Housing
5. Dust Control

Anaktuvuk Pass Comprehensive Plan Select Capital Needs

- Address housing overcrowding/construct additional homes
- Develop recreational facilities, including outdoor ballfield, indoor facility for youth and indoor playground
- Research alternative energy feasibility
- Relocate NSB Administrative Office
- Dust control
- Install airport restrooms for weekend/holiday use
- Retrofit homes for energy efficiency
- Evaluate potential contamination at former power plant
2020-10 Recommended Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Residential Learning Center, $187,500 in ATQ</td>
<td>AW Power Generation Upgrade, $187,500 for ATQ</td>
</tr>
<tr>
<td>NSBSD Infrastructure Improvement, $562,500 for ATQ</td>
<td>AW Radio Systems Upgrades Ph. II, $59,625 for ATQ</td>
</tr>
<tr>
<td>AW Water Systems Upgrades, $375,000 in ATQ</td>
<td>Vesta E911 System Upgrade, $109,875 for ATQ</td>
</tr>
<tr>
<td>AW Sewer Systems Upgrades, $187,500 for ATQ</td>
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<td>AW Water Sewer Equipment, $50,000 for ATQ</td>
<td>ATQ Heavy Equipment, $2,039,000</td>
</tr>
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<td>AW Power Grid Preservation, $156,875 for ATQ</td>
<td>ATQ Heavy Equipment (LOI), $832,000</td>
</tr>
<tr>
<td>Vill. Power Distribution Grid Upgr, $449,000 for ATQ</td>
<td>JD Edwards Upgrade Phase 4, $77,500</td>
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2020 City Council Priorities

<table>
<thead>
<tr>
<th>Priority</th>
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<tbody>
<tr>
<td>Water/Sewer Connections for Off-Grid Homes</td>
</tr>
<tr>
<td>Rock/Gravel/Clay Source Survey and Study</td>
</tr>
<tr>
<td>Gravel for Airport and Water/Sewer Connections</td>
</tr>
<tr>
<td>Increased Water/Sewer Capacity for Off Grid Homes</td>
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</table>

Status of Major Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Meade River School renovations continue with the</td>
<td>The first phase of Atqasuk Airport rehabilitation is to barge crushed rock to Utqiagvik and then hauling it to Atqasuk. This work will start in the summer 2020</td>
</tr>
<tr>
<td>interior but due current events have put the final</td>
<td></td>
</tr>
<tr>
<td>inspections are on hold.</td>
<td></td>
</tr>
<tr>
<td>The NSB is considering the use of geotextile materials</td>
<td>Police station video surveillance system software upgrades are complete</td>
</tr>
<tr>
<td>to build up the cemetery roads</td>
<td></td>
</tr>
<tr>
<td>Design for the water and sewer connections is 65%</td>
<td>Pilings for the new 8-plex have been installed and materials arrived on the CWAT. The housing will be erected this year.</td>
</tr>
<tr>
<td>complete but doesn’t not have additional funding for</td>
<td></td>
</tr>
<tr>
<td>complete design or construction.</td>
<td></td>
</tr>
<tr>
<td>Radio shelter upgrades are ongoing</td>
<td>Sewage lagoon upgrades are in the design phase</td>
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<tr>
<td>New dumpsters will be delivered during summer 2020</td>
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Anticipated Capital Needs

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<tr>
<th>Need</th>
<th>Plan</th>
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<tbody>
<tr>
<td>Major upgrades to the power plant</td>
<td>Road to Utqiagvik</td>
</tr>
<tr>
<td>Upgrades / replacement of the Fire Station</td>
<td>Waste heat loop upgrades</td>
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</table>

Atqasuk Comprehensive Plan Select Capital Needs

<table>
<thead>
<tr>
<th>Need</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Develop Atqasuk Transmission Line</td>
<td>Playground equipment upgrade / replacement</td>
</tr>
<tr>
<td>Upgrade roads to both cemeteries</td>
<td>Develop a teen center / senior center</td>
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<tr>
<td>Rehabilitate existing vacant housing/construct new homes</td>
<td>Develop a daycare facility</td>
</tr>
<tr>
<td>Continue evaluation of local material source</td>
<td>Develop a washeteria with showers</td>
</tr>
</tbody>
</table>

20
### Status of Major Projects

The NSBSD bus barn repair contract has been awarded and needed repairs will be completed this summer.

Phase I of the BHS renovation project is underway to address structural and mold specific to the pool area. Mechanical upgrades are also included to address the entire athletic area of the school.

The first phase of the Barrow Arctic Research Center Road is nearly complete; the culvert crossing sections are largely complete. The application process for potential EDA funding to supplement this project is underway.

NSB is awaiting approval for rock revetment design to replace failed HESCOs and Berm / road shoulder for Egasak Street.

Pre-design work, including survey and geotechnical evaluation, is underway for Gaswell Road upgrades.

The wastewater treatment plant wet well rehabilitation / utilidor upgrade project is complete.

Upgrades to BUS pump station 5 are in the design phase.

The design for the marine header relocation project is complete. Construction is pending a finalized lease agreement.

The design for a new Public Safety Facility is underway as well as the Behavioral Health Complex to be located on the same area of leased land.

New dumpsters were received in summer 2019.

### Anticipated Capital Needs

Ipalook Elementary School and Hopson Middle School are both in need of major maintenance upgrades, including playgrounds.

A seawall for erosion control is needed. The Army Corps of Engineers/NSB project to address coastal erosion has community support for federal funding.

New PSO / jail, Wildlife Dept., and NSB consolidated administrative facilities are needed.

The landfill will need to develop a new cell in the near future.

Additional water and sewer connections are needed.

Upgrade / replacement for Shops 1 and 2 are needed.

---

### 2020-10 Recommended Funding

<table>
<thead>
<tr>
<th>Project</th>
<th>Recommended Funding</th>
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<tr>
<td>Residential Learning Center, $187,500 for UTQ</td>
<td>AW Power Generation Upgrade, $156,875 for UTQ</td>
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<tr>
<td>NSBSD Infrastructure Improvement, $562,500 for UTQ</td>
<td>AW Power Generation Upgrade, $187,500 for UTQ</td>
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<tr>
<td>BHS Major Facility Replacement, $1,000,000</td>
<td>AW Radio Systems Upgrades Ph. II, $59,625 for UTQ</td>
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<td>NSB Gravel, $2,000,000</td>
<td>Vesta E911 System Upgrade, $109,875 for UTQ</td>
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<tr>
<td>AW Water Systems Upgrades, $375,000 for UTQ</td>
<td>Light Duty Vehicles, $101,000 for UTQ</td>
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<tr>
<td>AW Sewer Systems Upgrades, $187,500 for UTQ</td>
<td>Utqiagvik Heavy Equipment, $2,598,000</td>
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<tr>
<td>Barrow Utilidor System Upgrades, $1,000,000</td>
<td>JD Edwards Upgrade Phase 4, $77,500 for UTQ</td>
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<tr>
<td>AW Water Sewer Equipment, $50,000 for UTQ</td>
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</table>
2020-10 Recommended Projects

Residential Learning Center, $187,500 for KAK
NSBSD Infrastructure Improvement, $562,500 for KAK
NSB Gravel, $3,000,000 for KAK
AW Water Systems Upgrades, $375,000 for KAK
AW Heat Trace Panel Upgrades, $1,000,000 for KAK
AW Sewer Systems Upgrades, $187,500 for KAK
AW Water Sewer Equipment, $50,000 for KAK
AW Power Grid Preservation, $156,875 for KAK

VII. Power Distribution Grid Upgrades, $1,900,000 for KAK
AW Power Generation Upgrade, $187,500 for KAK
AW Radio Systems Upgrades Ph. II, $59,625 for KAK
Vesta E911 System Upgrade, $109,875 for KAK
Light Duty Vehicles, $101,000 for KAK
Kaktovik Heavy Equipment, $2,449,000
JD Edwards Upgrade Phase 4, $77,500 for KAK

Status of Major Projects

- The design for waste heat recovery is nearing completion
- Power distribution grid upgrades contract has been awarded and work is expected to begin this year
- Power generator units 1, 2, 3, and 4 upgrade/overhaul are complete
- New dumpsters were received in summer 2019
- Health Clinic fire escape design is underway
- Police station video surveillance software upgrades are complete
- Radio shelter upgrades are ongoing
- The design for the waste heat loop that will connect the health clinic, water plant, and USDW building to the power plant is complete. A Notice to Proceed has been issued and work will begin this summer
- Upgrades to the power distribution system will begin this summer
- The contract to design the outfall line replacement is being issued
- Upgrades to the sewage lagoon is in the design phase
- The design for the new school is being advertised and the temporary school building is anticipated to be ready for occupancy for the new school year

2020 City Council Priorities

1. Bridge to Mainland for Subsistence
2. Multi-Purpose Subsistence Facility
3. Housing
4. Utilidor Upgrades / Water & Sewer Plant
5. Search & Rescue Building
6. Culverts / Drainage / Road Upgrades
7. Pilings / Housing Upgrades
8. Public Works Heavy Equipment

Anticipated Capital Needs

- Coastal erosion mitigation
- Old airport site remediation
- Increase gravel stockpile reserve
- Landfill containment improvements
- Year-round water pumping source
- Sewage lagoon redesign

Kaktovik Comprehensive Plan Select Capital Needs

Goal 5: Continue to improve utilities, infrastructure, and facilities for resilience. Employ feasible alternative energy sources. Protect and preserve fresh water source. 1-5 Year Capital Needs:

- Monitor and overcome permafrost subsidence impacts to facilities and infrastructure
- Evaluate wind power generation
- Develop a non-impactful snow dump site
2020-10 Recommended Projects

- Residential Learning Center, $187,500 for PHO
- NSBSD Infrastructure Improvement, $562,500 for PHO
- AW Water Systems Upgrades, $375,000 for PHO
- AW Sewer Systems Upgrades, $187,500 for PHO
- AW Water Sewer Equipment, $50,000 for PHO
- AW Power Grid Preservation, $156,875 for PHO
- AW Power Generation Upgrade, $187,500 for PHO
- AW Radio Systems Upgrades Ph. II, $59,625 for PHO
- Vesta E911 System Upgrade, $109,875 for PHO
- Light Duty Vehicles, $101,000 for PHO
- Point Hope Heavy Equipment, $2,587,000
- JD Edwards Upgrade Phase 4, $775,000 for PHO

Status of Major Projects

- Tikigaq School renovations have been completed with the exception of the kitchen. Design for the kitchen is complete and work will be bid out this summer.
- The water tank protection project is complete.
- Heat trace panel upgrades are partly done and expected to be completed this year.
- Design for wastewater treatment plant upgrades is beginning.
- New dumpsters were received in summer 2019.
- Police station video surveillance software upgrades are complete.
- Radio shelter upgrades are ongoing.
- A Cat 966M loader and Mack Granite 2500 vac-truck were delivered to the community in Sept 2019.
- The post and pad foundation for the new 10-plex housing is going in this summer.

2020 City Council Priorities

1. Erosion
2. Evacuation Road / Shelter
3. New Clinic
4. Ice Cellars
5. Gravel and Rock
6. Addition to Fuel Tank
7. New Housing
8. New Qalgi Building
9. New Landfill
10. Integrity of NSB Facilities
11. Water and Sewer Upgrades
12. CWAT
13. Boat Ramp for North & South Sides
14. New Recreation Center

Anticipated Capital Needs

- Landfill relocation farther from the village
- Continued water storage tank upgrades
- The old NSB Search & Rescue building needs upgrades
- The community wants an inland evacuation road. There is not a project underway to design road. Potential gravel source has been identified but would need funding to develop
- Sewer main line upgrades
- Upgrades / replacement of the Fire Station
- Trencher storage structure

- Assess feasibility of airport relocation
- Research alternative energy feasibility, especially wind
- Construct evacuation road
- Additional recreational facilities, including ball field, meeting places, teen center, playgrounds, removable docks
- Address housing overcrowding
- New water source location
- Repair needed for community facilities: Health Clinic, Senior Center, City Hall, PW Building, Tribal Office
- Seek gravel source
2020-10 Recommended Projects

Residential Learning Center, $187,500 for PIZ
NSBSD Infra. Improvement, $562,500 for PIZ
AW Water Systems Upgrades, $375,000 for PIZ
PIZ Drinking Water Source Dev., $2,158,000
AW Sewer Tanks, $1,000,000 for PIZ
AW Water Sewer Equipment, $50,000 for PIZ
AW Lift Station Control Upgr, $687,000 for PIZ
AW Power Grid Preservation, $156,875 for PIZ
AW Power Generation Upgr, $187,500 for PIZ
Vesta E911 System Upgrade, $109,875 for PIZ
Light Duty Vehicles, $101,000 for PIZ
Point Lay Heavy Equipment, $156,7000
Point Lay Heavy Equipment (LOI), $793,000
JD Edwards Upgrade Phase 4, $77,500 for PIZ

Anticipated Capital Needs

- The water storage tank needs a roof replacement, insulation, recoating
- Electrical metering upgrades are needed
- Replacement for dump truck is needed
- Auger truck with 30 ft. pile depths
- Alternative above-ground W/S system

2020 Tribal Council Priorities

1. Dredge / location for a gravel / silt pit in connection with: a) foundation repair for homes, porches, and stairs; b) fuel tank leveling; c) replace / repair leaning power poles; d) gravel placements where subsidence / sinkholes in the road systems; e) driveways; f) relevel and add foundations to the 700 block and other lots for settling; g) alternate emergency road to airport; h) expand village – new subdivision

2. Housing in connection with: a) private sector: access to services, and the cost of living expenses stalls home improvement in private sector; b) homelessness / overcrowding; c) turn over houses to the community

3. Water source in connection with: a) development of lagoon water wells

4. Sewage holding tanks in connection with: promote enhanced truck system

5. Upgrade for Point Lay Volunteer Search and Rescue Building in connection with: a) SAR building: water heating sys maintenance repair

6. Store upgrade in connection with: a) Point Lay needs larger, doesn’t meet the needs of the community

7. Washateria / post office

8. Flooding control in connection with: a) village culvert/drainage for flooding; b) ponds need to be emptied and filled in

9. Demolition of two fuel tanks on Old Site Barrier Island in connection with: a) to prevent contamination into the ocean from fuel still in old drums from degradation of tanks

10. Winter road program

11. Upgrade for fuel farm tank

12. New site for landfill

13. Renewable resources

Status of Major Projects

- Sewage tanks are being installed at the fire station and ICAS community center
- The water and sewer upgrade contract has been awarded
- Water well design will be advertised after scope is finalized
- Design for sewer system upgrades is underway
- Pilings are being installed for new the 8-plex housing
- Upgrades to the wastewater treatment plant receiving station are underway. Construction is underway without the pad expansion due to delays in obtaining the easement
- Police station video surveillance upgrades are complete
- New dumpsters were received in summer 2019
- A telehandler was delivered on the 2019 summer barge

Point Lay Comprehensive Plan Select Capital Needs

- Abandon wastewater system as needed and install holding tanks
- Gravel source investigations and assess gravel stockpile
- Fix & maintain areas of subsidence that have affected roadway
- Renovations for older homes / home weatherization improvements
- Street lighting to boat ramp / dock
- Develop outdoor ballfield
- Reopen washeteria
- Develop a childcare facility
## Current Capital Improvements Financial Summary

**Section 6 - Educational Facilities**

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Start FY</th>
<th>End FY</th>
<th>Appropriation</th>
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<tr>
<td><strong>2020-10 Year Plan</strong></td>
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### 2020 Year Capital Plan

**Section 9 - Water Facilities**

<table>
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<tr>
<th>Project</th>
<th>Start FY</th>
<th>End FY</th>
<th>Total Appropriation</th>
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<th>FY 2020-10 Funding</th>
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### Section 10 - Sewage Treatment Disposal Facilities

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<th>Start FY</th>
<th>End FY</th>
<th>Total Appropriation</th>
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<th>FY 2020-10 Funding</th>
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### Section 11 - Airport Terminal Facilities

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**Section Totals**

- Capital Projects by Ordinance Section: 2020-2025
- 2020 Year Capital Plan
- Percent for NSBMC 3.15.050 (C)
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<th>Project Category</th>
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<th>Current Expenditure</th>
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## 2020 Year Capital Plan

### per NSBMC 3.15.050 (C)

**Section 18 - General Capital Projects**

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</tr>
<tr>
<td>18-119</td>
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<td>$1,027,000</td>
<td>$593,816</td>
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<td>42.2%</td>
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</tr>
<tr>
<td>18-120</td>
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<td>$1,040,000</td>
<td>$103,388</td>
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<td>$143,829,000</td>
<td>$29,109,007</td>
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**Section 19 - Health Facilities**

<table>
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<th>Project</th>
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<th>Current Expenditure</th>
<th>Percent Expended</th>
<th>Fundings</th>
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<tr>
<td>19-075</td>
<td>2016</td>
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<td>$470,000</td>
<td>$383,186</td>
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<td>19-076</td>
<td>2017</td>
<td>TBD</td>
<td>$4,559,000</td>
<td>$4,184,222</td>
<td>$337,066</td>
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<td>$5,029,000</td>
<td>$4,567,408</td>
<td>$337,066</td>
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**Section 20 - Library and Cultural Facilities**

<table>
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<th>Project</th>
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<th>Total</th>
<th>Current Appropriation</th>
<th>Current Expenditure</th>
<th>Percent Expended</th>
<th>Fundings</th>
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<tr>
<td>20-001</td>
<td>2006</td>
<td>2023</td>
<td>$2,701,000</td>
<td>$118,943</td>
<td>$0</td>
<td>95.6%</td>
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<td>$2,701,000</td>
<td>$118,943</td>
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**Section 22 - Administrative Facilities**

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<th>Close FY</th>
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<th>Current Appropriation</th>
<th>Current Expenditure</th>
<th>Percent Expended</th>
<th>Fundings</th>
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<tr>
<td>22-016</td>
<td>1993</td>
<td>TBD</td>
<td>$5,471,000</td>
<td>$392,826</td>
<td>$0</td>
<td>82.9%</td>
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<td>22-020</td>
<td>2007</td>
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<td>$1,711,000</td>
<td>$155,647</td>
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<td>93.2%</td>
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<tr>
<td>22-024</td>
<td>2012</td>
<td>2021</td>
<td>$4,387,000</td>
<td>$48,693</td>
<td>$0</td>
<td>98.9%</td>
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<td>22-025</td>
<td>2013</td>
<td>2025</td>
<td>$2,210,000</td>
<td>$324,432</td>
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<td>22-026</td>
<td>2016</td>
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<td>$1,200,000</td>
<td>$1,186,262</td>
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<td>$14,979,000</td>
<td>$2,607,858</td>
<td>$177,993</td>
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**TOTAL**

| | | | $934,055,000 | $183,226,683 | $113,280,490 | $75,000,000 |
# North Slope Borough Capital Repair and Replacement Schedule Summary

## All Communities and Service Areas

<table>
<thead>
<tr>
<th>Location</th>
<th>Asset Value</th>
<th>Asset Description</th>
<th>Section</th>
<th>Least Remaining Life Span</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Escalation - &gt;</th>
<th>Six Year Total</th>
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<tbody>
<tr>
<td>Wainwright</td>
<td>$474,577,506</td>
<td>Summary</td>
<td>AIN</td>
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<td>18,740</td>
<td>2,213</td>
<td>1,488</td>
<td>7,341</td>
<td>2,748</td>
<td>7,162</td>
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<td>917</td>
<td>3,234</td>
<td>14,564</td>
<td>21,553</td>
<td>2</td>
<td>2%</td>
<td>$56,910,711</td>
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<tr>
<td>Point Lay</td>
<td>$266,202,309</td>
<td>Summary</td>
<td>PIZ</td>
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<td>24,625</td>
<td>2,016</td>
<td>6,297</td>
<td>870</td>
<td>3,307</td>
<td>14,947</td>
<td>16%</td>
<td>$52,060,769</td>
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<td>Barrow</td>
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<td>40,844</td>
<td>67,052</td>
<td>14,071</td>
<td>42,888</td>
<td>20,156</td>
<td>90%</td>
<td>$304,643,580</td>
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<td>Atgusuk</td>
<td>$255,844,660</td>
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<td>1,232</td>
<td>1,098</td>
<td>3,485</td>
<td>6,104</td>
<td>13,338</td>
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<td>2,324</td>
<td>9,403</td>
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<td>7,254</td>
<td>19,947</td>
<td>11%</td>
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<td>Kaktovik</td>
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<td>18,854</td>
<td>934</td>
<td>2,767</td>
<td>1,799</td>
<td>4,128</td>
<td>5,957</td>
<td>18%</td>
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<tr>
<td>Anaktuvuk Pass</td>
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<td>16,261</td>
<td>399</td>
<td>2,130</td>
<td>2,586</td>
<td>2,842</td>
<td>1,038</td>
<td>1%</td>
<td>$25,255,384</td>
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<tr>
<td>Service Area 10</td>
<td>$103,202,610</td>
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<td>3,125</td>
<td>4,359</td>
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<td>1,084</td>
<td>875</td>
<td>3</td>
<td>3,482</td>
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<tr>
<td><strong>Totals</strong></td>
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<td></td>
<td>264,027</td>
<td>55,238</td>
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<td>85,639</td>
<td>104,612</td>
<td>182</td>
<td>$659,172,028</td>
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</tbody>
</table>

## Capital Assets by Section

- **Education Facilities**
- **Roads, Streets & Water Courses**
- **Public Housing**
- **Water Facilities**
- **Sewer Facilities**
- **Airports**
- **Power and Light Facilities**
- **Public Safety Facilities**
- **Sanitary Facilities**
- **Communications**
- **General Capital Facilities**
- **Health Facilities**
- **Library and Cultural Facilities**
- **Administration Facilities**

## 6 yr Capital Asset Needs Trend

- **Capital Needs**
- **Average**

6 yr Capital Asset Needs Trend = $109,862,005
Value of Assets Reaching the end of their estimated useful life 2020-2025
$659 Million

Assets totaling 659 Million in Replacement Value are estimated to reach the end of their use full life during the next six years.
This represents 16% of the total value of the Borough’s assets, which is 4.2 Billion.

- Education Facilities, $170,515,352
- Roads, Streets & Water Courses, $49,784,438
- Water Facilities, $53,528,364
- Sewer Facilities, $20,424,432
- Airports, $17,654,860
- Sanitary Facilities, $6,625,367
- Power and Light Facilities, $46,455,005
- Public Safety Facilities, $44,702,423
- Communications, $2,092,737
- General Capital Facilities, $95,789,896
- Health Facilities, $27,491,860
- Library and Cultural Facilities, $9,872,766
- Administration Facilities, $47,474,753

Value of Assets Reaching the end of their estimated useful life 2020-2025
$659 Million
Value of Capital Assets reaching the end of their estimated useful life each year 2020-2025
$110 Million

- Education Facilities, $28,419,225
- Roads, Streets & Water Courses, $8,297,406
- Water Facilities, $8,921,394
- Sewer Facilities, $3,404,072
- Airports, $2,942,477
- Sanitary Facilities, $1,104,228
- Public Safety Facilities, $7,450,404
- Communications
- Sanitary Facilities, $1,104,228
- General Capital Facilities, $15,964,983
- Health Facilities, $4,581,977
- Library and Cultural Facilities
- Administration Facilities, $7,912,459

Total: $110 Million
Proposed Minimum Annual Capital Upgrade Budget
$65.9 Million

The useful life of building components, infrastructure and equipment assets are estimated.

Some assets require replacement before the end of their estimated useful life, however the replacement of many assets can be deferred when upon inspection the Borough chooses to operate them beyond their estimated useful life. These decisions are made on a case by case basis and upgrades are only deferred when they are due.

Assets being operated beyond their estimated useful life in 2020 are valued at 200 Million Dollars.

It is reasonable then to assume that the Borough will always operate some assets beyond their useful life, therefore a capital upgrade plan is proposed that allows some deferment.

The proposed annual budget allows the replacement of all assets estimated to reach the end of their useful life within the next six years to be replaced within 10 years.
<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Description</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-197</td>
<td>Meade River School Renovation Final Phase</td>
<td>$7,000,000</td>
<td>$31,700,000</td>
<td>$4,000,000</td>
<td>$43,000,000</td>
<td>$17,600,000</td>
<td>$15,200,000</td>
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<tr>
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<td>BRW Residential Learning Center</td>
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<td>$13,051,535</td>
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<td>District Wide Infrastructure Improvements</td>
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<tr>
<td>06-202</td>
<td>BHS Renovation Phase 1</td>
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<td>$11,200,000</td>
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<td>06-203</td>
<td>AIN Alaik School Major Renovations</td>
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<tr>
<td>06-204</td>
<td>Ilisagvik College New Design</td>
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<td>$11,200,000</td>
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<tr>
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<td>New Kaveolook School</td>
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<td>$15,200,000</td>
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**SECTION 07 - ROADS, STREETS, & WATERCOURSES**

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<th>Project Description</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
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</thead>
<tbody>
<tr>
<td>07-251</td>
<td>BRW Arctic Research Center Road</td>
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<tr>
<td>07-268</td>
<td>BRW Coastal Erosion Mitigation</td>
<td>$6,000,000</td>
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<tr>
<td>07-269</td>
<td>PHO Coastal Erosion Mitigation &amp; Mining</td>
<td>$6,000,000</td>
<td>$6,000,000</td>
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<tr>
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<td>BRW Nunavak Road Upgrade Phase I</td>
<td>$2,994,000</td>
<td>$2,994,000</td>
<td>$2,994,000</td>
<td>$2,994,000</td>
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<tr>
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<td>NSB Gravel</td>
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<td>Areawide Road Stabilization Upgrade</td>
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<td>Point Lay Grading &amp; Drainage Improvements</td>
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<td>East Barrow Residential Development</td>
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**SECTION 08 - PUBLIC HOUSING**

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<th>2023</th>
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<tr>
<td>08-166</td>
<td>AW Residential Housing Development</td>
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**SECTION 09 - WATER FACILITIES**

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<th>2023</th>
<th>2024</th>
<th>2025</th>
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<tr>
<td>09-137</td>
<td>ATQ Facility Water &amp; Sewer Connections Ph 1</td>
<td>$14,688,000</td>
<td>$15,017,000</td>
<td>$15,017,000</td>
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<tr>
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<td>AIN Water Treatment Plant Upgrades</td>
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<td>Closing</td>
<td>Closing</td>
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<tr>
<td>Project Code</td>
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<td>2021</td>
<td>2022</td>
<td>2023</td>
<td>2024</td>
<td>2025</td>
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<tr>
<td>--------------</td>
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<td>--------</td>
<td>--------</td>
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<tr>
<td>09-148</td>
<td>AKP Facility Water &amp; Sewer Connections Ph 1</td>
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<td>Pt Lay W/S System Upgrade, PH I Design</td>
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<td>BUS Service Connection Upgrades</td>
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<td>09-153</td>
<td>BUS SCADA System - Design Phase</td>
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<tr>
<td>09-154</td>
<td>AW Residential Water Holding Tanks</td>
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### Capital Planning (R&R) Projections not listed below
- **SECTION 14 - PUBLIC SAFETY FACILITIES**
  - Capital Planning (R&R) Projections not listed below: $4,470,242
  - Expansion of existing programs listed below: $2,200,242
  - Upgrades to existing programs listed below: $2,200,000
  - Closing: $4,470,242

- **SECTION 15 - SANITARY FACILITIES**
  - Capital Planning (R&R) Projections not listed below: $2,700,000
  - Expansion of existing programs listed below: $2,700,000
  - Upgrades to existing programs listed below: $2,700,000
  - Closing: $2,650,000

- **SECTION 17 - COMMUNICATIONS**
  - Capital Planning (R&R) Projections not listed below: $1,356,000
  - Expansion of existing programs listed below: $1,356,000
  - Upgrades to existing programs listed below: $1,356,000
  - Closing: $1,356,000

- **SECTION 18 - GENERAL CAPITAL**
  - Capital Planning (R&R) Projections not listed below: $33,005,000
  - Expansion of existing programs listed below: $33,005,000
  - Upgrades to existing programs listed below: $33,005,000
  - Closing: $33,005,000
### NSB SIX YEAR CAPITAL PLAN

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<td>18-119</td>
<td>Barrow Heavy Equipment Major Repair</td>
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<td>18-120</td>
<td>Heavy Equipment Replacement for Anaktuvuk Pass</td>
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<td>18-121</td>
<td>New AKP Public Works Shop</td>
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### SECTION 19 - HEALTH FACILITIES

- **Capital Planning (R&R) Projections not listed below**: $2,749,186
- **Expansion of existing programs listed below**: $0
- **Upgrades to existing programs listed below**: $0

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<td>Homeless Assistance Shelter (Design Development)</td>
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### SECTION 20 - LIBRARY & CULTURAL FACILITIES

- **Capital Planning (R&R) Projections not listed below**: $987,277
- **Expansion of existing programs listed below**: $0
- **Upgrades to existing programs listed below**: $0

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### SECTION 22 - ADMINISTRATIVE FACILITIES

- **Capital Planning (R&R) Projections not listed below**: $620,000
- **Expansion of existing programs listed below**: $0
- **Upgrades to existing programs listed below**: $0

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38
Planning & Community Services Department
2020 Capital Improvement Program Recommendations

EXPANSION OF SERVICES, FACILITIES AND PROGRAMS

• The Borough currently manages over 4.2 billion dollars in capital assets and has a 659 million dollar projection of capital needs required to repair/replace this infrastructure over the next six years.
• Reductions in facilities and equipment should be considered to accommodate programmatic expansion in other areas.
• Expansion of facilities and programs requiring new capital infrastructure should be avoided if possible.

EQUIPMENT BUDGET

• The current capital budgets for equipment are not adequate.
• The Borough maintains over 1,000 pieces of light and heavy duty equipment.
• During consideration of new equipment purchases, the disposal of old equipment that is being replaced should also be considered.

CONSOLIDATION OF FACILITIES

• A long term strategy to reduce the total square footage of Borough offices and programs may be a consolidated NSB administrative facility.
• Repair/replace existing infrastructure and facilities through 2035 does not appear affordable.
• Replacement projects and PARs for replacement projects should include recommendations and budgets for the re‐purposing, disposal or demolition of the existing assets they replace.

DESIGN STANDARDS

• To optimize the useful lives of building systems, design standards should be developed.
• Designs need to fit the budget to insure we are receiving the highest return from capital dollars.

BONDING CAPACITY

• This Capital Plan suggests that bond sales for the next six years should include minimum 65.9 million dollars each year to repair/replace the Borough’s existing infrastructure.
• Any program expansion considered will further strain the reliance of current asset upgrade/replacement on the capital program.
• Looking for ways to unlock already approved capital dollars in the capital program is necessary to supplement shortfalls in underfunded projects to insure completion.
• Make sure we are able to spend capital dollars in the year it was approved.
City of Point Hope  
P.O. Box 169  
Point Hope, Alaska 99766  
(907)368-2537/2836  
Fax: (907)368-2835  
e-mail: akphogov@hotmail.com

City of Pt. Hope  
Resolution # 20-01


WHEREAS, on the 6th day of March, 2020, the City of Point Hope met and discussed Point Hope community needs relating to projects proposed by the North Slope Borough, the North Slope Borough School District and the Community of Pt. Hope; and

WHEREAS, the City Council was presented with prioritized lists of projects from all three entities submitted for consideration in the funding of CIP Ordinance 20-10; and

WHEREAS, The Point Hope City Council was asked by the NSB Planning & Community Services to prioritize all projects, including those submitted by the NSB Departments, North Slope Borough School District, as well as the City of Point Hope, submitted for the Village of Point Hope as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, “A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope”, objectives under “Goal D: North Slope Borough will adhere to the City of Point Hope’s desires regarding industrial development infrastructures, project design and priorities. Each village will determine its own priority on traditional versus modern needs”, City of Point Hope and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW THEREFORE, BE IT RESOLVED, the City Council in Point Hope, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor’s Office and the North Slope Borough Assembly and recommend their funding in the order presented.
1. Erosion
2. Evacuation Road/Shelter
3. New Clinic
4. Ice Cellars
5. Gravel and Rock
6. Addition to Fuel Tank
7. New Housing
8. New Qalgi Building
9. New Land Fill
10. Integrity of NSB Facilities
11. Water and Sewer Upgrade
12. CWAT
13. Boat Ramp for North and South Sides
14. New Recreation Center

PASSED and APPROVED by a duly constituted quorum of the City of Point Hope Council this 6th day of March, 2020.

[Signature]
Jeffery Kowunna, Sr., Mayor

Attest:

[Signature]
Roberta Milligrock, City Clerk
CITY OF ATQASUK
P.O. Box 91119
Atqasuk, Alaska, 99791
City Office Ph: 907-633-6811
Fax: 907-633-6812
Email: cityofatqasuk@hotmail.com

Douglas Whiteman, Mayor

Resolution No. 2021-01

A RESOLUTION OF THE CITY COUNCIL OF ATQASUK, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2021-10 SUBMITTED BY THE CITY OF ATQASUK.

WHEREAS, on the 7th day of December 2020, the City of Atqasuk met and discussed Atqasuk community needs relating to projects proposed for the Community of Atqasuk; and

WHEREAS, The City of Atqasuk was asked by the NSB Planning & Community Services to prioritize all projects, and

WHEREAS, In the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address the Future Growth and Development of Capital Improvement Projects on the North Slope", policies were developed to be used as the guideline for funding and scheduling CIP projects. Planning Commission Resolution 85-01, “A Resolution Approving the Policies Established to Address the CIP and the Future Growth and Development on the North Slope” established these policies: "Goal D: North Slope Borough Will Support Village Self-Determination” by “adhering to the desires of each village regarding industrial development infrastructure, project design and priorities. Each village will determine its own priority on traditional versus modern needs” and “Exact CIP budget amounts will be developed for each village. Local residents will have a major role in determining projects under these budget guidelines”, and

NOW THEREFORE, BE IT RESOLVED, the City Council in Atqasuk, Alaska, prioritized the projects listed below:

1. Water/Sewer Connections for Off Grid Homes
2. Continued Rock/Gravel/Clay Source Survey and Study
3. Increased Water/Sewer Capacity for Off Grid Homes
4. NSB Washateria Restoration
5. Power and Heat at Search and Rescue Equipment Hut
6. Power Plant Waste Heat Exchanger Controls Assessment/Repair

for consideration and further evaluation, by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor’s Office and the North Slope Borough Assembly and recommend their funding in the order presented, and

NOW THEREFORE, BE IT RESOLVED, the City Council of Atqasuk, Alaska has PASSED and APPROVED by the duly constituted quorum of the Atqasuk City Council on this 4th day of January 2021.

Attest:

[Signature] 01/05/21
City of Atqasuk, Mayor

[Signature] 01/05/21
City Clerk, Sherlene Oyagak
CITY OF KAKTOVIK, ALASKA
RESOLUTION NO. 2021-02

A RESOLUTION OF THE CITY OF KAKTOVIK APPROVING THE FY22 CAPITAL IMPROVEMENT PROJECT REQUESTS FOR THE CITY OF KAKTOVIK

WHEREAS, on February 9, 2021, the people of the City of Kaktovik met and discussed the community needs relating to projects proposed by the North Slope Borough and City of Kaktovik; and

WHEREAS, in the interest of saving time and resources, the North Slope Borough coordinates with the City Council to develop a combined priority list of the projects to submit for North Slope Borough’s concern for the basic life, safety, and health of the residents of Kaktovik.

NOW, THEREFORE, BE IT RESOLVED, that the City of Kaktovik, Alaska requests the North Slope Borough funding for the projects listed below, in order of priority:

1. Bridge to Mainland For Subsistence
2. Multi-Purpose Subsistence Facility
3. Housing
4. Utilidor Upgrades/Water & Sewer Plant
5. Search & Rescue Building
6. Culverts/Drainage/Road Upgrades
7. Pilings/Housing Upgrades
8. Public Works Heavy Equipment

The foregoing resolution was adopted on this 9th Day of February, 2021 at a duly called City of Kaktovik city council meeting.

City of Kaktovik Mayor, Amanda Kaleak

ATTEST:

City of Kaktovik Clerk, Katheryn Aishanna
A RESOLUTION TO ADD NATIVE VILLAGE OF POINT LAY’S PRIORITY LIST TO NSB/CIP PROJECT PLANNING LIST

WHEREAS: The Native Village of Point Lay IRA is a federally recognized tribal government under the Indian Reorganization Act of 1934 as amended for the Alaskan Native in 1936; and

WHEREAS: Native Village of Point Lay IRA Council is the governing body for the community of Point Lay under the 1934 Indian Reorganization Act adopted by the tribe and,

WHEREAS: Native Village of Point Lay IRA Council contracts the North Slope Borough for CIP projects and,

WHEREAS: With this list that the community of Point Lay has agreed upon, the North Slope Borough may use this as a future project list for Point Lay Strategic Plan and,

WHEREAS: Each item is listed by high priority to low priority by number and,

WHEREAS: Every letter represents individual projects that are connected to each priority numbered list and,

WHEREAS: this is an extended list of projects due to climate change, and degradation to our community and infrastructure in existing town site; and

WHEREAS: consideration of a new town site location for the community of Point Lay may prove to be necessary; and

WHEREAS: The list is as followed and,

#1- Dredge/ Location for a Gravel/Silt/ Tundra Pit in connection with;

A) Foundation repair for homes, porches, and stairs throughout the community.
B) Fuel Tank leveling throughout the community.
C) Replace/Repair leaning power poles throughout the community.
D) Gravel placements where subsidence/ sinkholes in road systems in the community
E) Driveways need to be resurfaced due to NSB infrastructure in drive ways.
F) Relevel and add foundations to the 700 Block and other lots for settling.
G) Alternate Emergency Road to airport, parallel to outfall easement.
H) Expand village-new subdivision site preparations and access to new subdivided lots.

#2- Housing In connection with;
   A) Private sector: Due to the lack of contactors we require housing maintenance staff to be on location to the private sector.
   B) Homelessness/overcrowding, we need more homes to combat homelessness. We still have overcrowding even with new 8-plex being built.
   C) Replace fuel tanks in Private Sector

#3- Water Source in connection with;
   A) Development of Primary water source.
   B) Repair damage water tank.

#4- Sewage holding tanks in connection with;
   A) Promote Enhanced Truck System
   B) Honey Bucket Dumpsters/ Totes/ Bucket
   C) Sewage holding tanks for community center, PIZ Native Store, PIZ SAR, Private Homes to accommodate sewage holding tanks with Heat trace.
   D) ES500 Fleet Heaters: Not enough heaters in our community

#5- Upgrade for Point Lay Volunteer Search and Rescue Building in connection with;
   A) SAR Building: Water-heating system-maintenance repair
   B) Drainage control for yearly flooding, flooding is causing mold issues rendering the building useable and unsafe.
   C) Possibly relocating the Building.

#6- Store Upgrade in connection with;
   A) Point Lay is in need for a larger store. Requesting use of Borough Auger and equipment for a new foundation.
   B) Our Point Lay store needs a water and sewer tank.

#7- Washertria
   A) We need a running Washertria. It has become a life, health & Safety Issue.

#8- Flooding control in connection with;
   A) Village Culvert/drainage for flooding.
   B) Ponds need to be emptied and filled in.
   C) Culverts need to be marked.
   D) We need more trash pumps and hoses.

#9- Demolitions of 2 fuel tanks on Barrier Island in connection with;
   A) Due to degradation of the old tanks we need to prevent contamination of the ocean.

#10- Winter Road Program- CWAT

#11- Upgrade for Fuel Farm Tank
   A) Including all Borough Facility fuel tanks needs maintenance and repair.
   B) Borough fuel farm needs a skid steer/ Bobcat to clear the snow out of the fuel farm.

#12- Planning a New Site for Landfill away from airport.
   A) Incinerator plant to burn domestic trash.

#13- Renewable Resources
   A) Wind and solar generation
   B) Ocean current energy generation

NOW THEREFORE BE IT RESOLVED THAT: This is the approved list for the Community of Point Lay for North Slope Borough Planning and,
CERTIFICATION: This certification that the above resolution was duly adopted at a regular meeting of the Native Village of Point Lay IRA Council at which time a quorum was established. This resolution was adopted by a vote of 7 in favor and 0 Opposed 0 Abstain

ADOPTED by duly constituted quorum of Native Village IRA Council of Point Lay, Alaska, this 15th day of February 2021

President Lupita Henry

Secretary Gwendolyn Pikok
WAINWRIGHT STEERING COMMITTEE
RESOLUTION 2021-01

A RESOLUTION PRIORITIZING PROJECTS
IN WAINWRIGHT, ALASKA FOR THE NORTH SLOPE BOROUGH’S
2021 CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, the North Slope Borough (the “Borough”) identifies and schedules public improvement projects in the North Slope communities in accordance with a Capital Improvements Program (CIP), a six-year plan for current and proposed projects that is developed with input from the communities; and

WHEREAS, in connection with the Borough’s development and funding of the 2021 CIP, members of the Wainwright Steering Committee (the “Committee”), which consists of representatives from the Native Village of Wainwright, City of Wainwright, and Olgoonik Corporation, have met and conferred with Borough personnel regarding projects in the community of Wainwright; and

WHEREAS, at the Borough’s request, the Committee has developed and prioritized a list of current and proposed projects in Wainwright that the Committee believes will best benefit the community.

NOW, THEREFORE, BE IT RESOLVED, that the Committee hereby prioritizes and recommends funding for public improvement projects in the community of Wainwright for the Borough’s 2021 CIP in the order listed below:

1. Replace Public Works Building
2. Water & Wastewater Treatment Plant Upgrades
3. Power Plant Upgrades
4. Alak School Upgrade
5. Housing
6. Retractable Boat Ramp
7. Community-Wide Drainage and Culverts – Road Lifting  
8. New Landfill  
9. Expansion of Panik Road  
10. Expansion of Makpik Road and Driveways  
11. Gravel Acquisition  
12. Tapqaq Bar Access Road  
13. Coastal Erosion Mitigation/Sea Wall  
14. Cultural Center/Day Care and Community Center  
15. New Response Vehicle for Wainwright Fire Department  

DULY ENACTED this 11th day of March 2021.

CITY OF WAINRIGHT  
By: John Hopson, Jr.  
Its: Acting Mayor

VILLAGE OF WAINRIGHT  
By: Billy Blair Patkotak, Jr.  
Its: President

OLGOONIK CORPORATION  
By: Joseph I. Ahmaogak  
Its: Chairman
A RESOLUTION OF ANAKTVUK PASS, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2021-10 SUBMITTED BY DEPARTMENTS OF THE NORTH SLOPE BOROUGH, THE North Slope Borough SCHOOL DISTRICT AND THE CITY OF ANAKTVUK PASS.

Whereas, on the 16th Day of February 2021, the City of Anaktuvuk Pass met and discussed the community needs relating to projects proposed by the North Slope Borough the North Slope Borough School District and the Community of Anaktuvuk Pass; and

WHEREAS, the City Council was presented with prioritized list of projects from all three entities submitted for considerations in the funding of CIP Ordinance 2021-10; and

WHEREAS, The Anaktuvuk Pass City Council was asked by the NSB Planning & Community Services to prioritize all projects, including those submitted by NSB Departments, North Slope Borough School District, as well as the City of Anaktuvuk Pass, submitted for the Village of Anaktuvuk Pass as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope, "objectives under "Goal D: North Slope Borough will adhere the City of Anaktuvuk Pass’s desires regarding industrial development infrastructures, project designs and priorities. Each village will determine its own priority on traditional versus modern needs, City of Anaktuvuk Pass and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW, THEREFORE, BE IT RESOLVED, the City Council of Anaktuvuk Pass, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation committee (PRC), the North Slope Borough Planning Commission, and the North Slope Boroughs Mayor’s Office and the North Slope Borough Assembly and recommends their funding in the order presented,
1. Power Plant Upgrade
2. Water Sewer Hook-ups
3. Subdivision
4. Dust Control
5. Residential Home Renovations
6. Multi-purpose Building

PASSED and APPROVED by the duly constituted quorum of the Anaktuvuk Pass City Council this 16th day of February, 2021.

Charles S. Hugo
Charles Hugo, Mayor

Attest:

Georgianne Gordon, City Clerk
CITY OF NUIQSUT
RESOLUTION No. 21-03

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NUIQSUT
SETTING THE CITY OF NUIQSUT'S CAPITAL PROJECT PRIORITIES FOR THE NORTH SLOPE
BOROUGH

WHEREAS, each year the North Slope Borough develops capital project priorities for each
community in the Borough;

WHEREAS, the City Council at the March 1, 2021 RCCM discussed Capital Projects and
developed the following list of projects: (1) new boat ramp; (2) equipment to maintain the
cemetery; (3) dust control equipment; (4) Fresh Water Lake Road; (5) Tioga water and sewer
heaters; anc, (6) Cultural Center.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NUIQSUT that the
aforementioned Capital Projects are priorities for the residents of Nuiqsut.

PASSED AND APPROVED by a duly constituted quorum of the City Council of the City of
Nuiqsut, Alaska, this 17th day of March 2021.

The Honorable Mamie Pardue
Mayor

Attest:

Elaine Sovalik, City Clerk
## 2021-10 Requests

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### SECTION 06 EDUCATION FACILITIES

### SECTION 07 PUBLIC ROADS, STREETS, WATERCOURSE & FLOOD CONTROL

### SECTION 08 PUBLIC HOUSING FUND

### SECTION 09 WATER FACILITIES
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**Section Total** | $92,949,000 | $0 |

**SECTION 10 SEWAGE TREATMENT FACILITIES**

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SECTION 11 AIRPORT & AIRPORT TERMINAL FACILITIES

| 365    | 11-067    | UpFund| DPW               | ATQ      | ATQ Airport Rehabilitation | $2,100,000     |             |       |
|        |           |       |                   |          | **Section Total** | **$2,100,000** | **$0** |       |

Section 13 LIGHT, POWER & HEATING SYSTEM

| 369    | 13-222    | UpFund| DPW               | AW       | Area Wide Waste Heat Recovery | $5,400,000     |             |       |
| 373    | 13-251    | UpFund| DPW               | AW       | Areawide Power Grid Preservation | $1,255,000     |             |       |
| 377    | 13-258    | UpFund| DPW               | Village  | Village Power Distribution Grid Upgrades | $7,375,000     |             |       |
| 381    | 13-260    | UpFund| DPW               | NUI      | NUI H2S Scrubber | $1,000,000 | **$500,000** |       |
| 386    | 13-266    | LOI   | DPW               | AW       | Nuiqsut Power Plant Upgrade | $1,521,000     |             |       |
| 390    | 13-281    | UpFund| DPW               | BRW      | East End Barrow Utilities Installation PH1 | $2,243,000     |             |       |
| 394    | 13-New 1  | UpFund| DPW               | BRW      | New AIN Power plant | $2,000,000     |             |       |
|        |           |       |                   |          | **Section Total** | **$20,773,000** | **$2,021,000** |       |

SECTION 14 PUBLIC SAFETY FACILITIES

<p>| 398    | 14-New 1  | NEW  | PSO               | BRW      | Barrow PSO stand-by generator | $350,000       |             |       |
| 402    | 14-New 2  | NEW  | S&amp;R               | PHO      | PHO S&amp;R upgrades | $333,000       |             |       |
| 417    | 14-New 3  | NEW  | S&amp;R               | BRW      | S&amp;R fuel shed upgrades | $396,000 | <strong>$396,000</strong> |       |
| 422    | 14-New 4  | NEW  | S&amp;R               | AKP/KAK  | S&amp;R New bulding Village Project | $910,000       |             |       |
|        |           |       |                   |          | <strong>Section Total</strong> | <strong>$1,989,000</strong> | <strong>$396,000</strong> |       |</p>
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**SECTION 17 COMMUNICATIONS**

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**Section Total** | $47,715,000 | $6,079,000
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<td><strong>Section Total</strong></td>
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<table>
<thead>
<tr>
<th>Total Requested</th>
<th>GO Bond</th>
<th>LOI</th>
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<tbody>
<tr>
<td></td>
<td>$287,267,000</td>
<td>$21,976,000</td>
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<table>
<thead>
<tr>
<th>Total PRC Recommended</th>
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<tbody>
<tr>
<td>2021-10 LOI's</td>
</tr>
<tr>
<td>$21,976,000</td>
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</table>

**Letter of Intent**
Capital Reserve Funds approved for debt reimbursement under Ord. 2021-10

**Notes:**
- ND: Non-Discretionary; PD - Priority Discretionary; D - Discretionary
- wly: Requested Project; UpF - Up-Fund request for project already funded
- awes: Excludes Barrow; AW - Areawide including Barrow

**LOI's**
- Remaining LOI funds: $2,979,000
- Remaining LOI funds: $5,000,000

2021-10 Requests
<table>
<thead>
<tr>
<th>Page #</th>
<th>Project #</th>
<th>Type</th>
<th>Requesting Entity</th>
<th>Location</th>
<th>Project Name</th>
<th>Amount Requested</th>
<th>LOI Requested</th>
<th>Class</th>
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<tbody>
<tr>
<td>636</td>
<td>2021-A</td>
<td>DPW</td>
<td>DPW</td>
<td>BRW</td>
<td>New Light Duty Shop I &amp; Heavy Equipment Shop II</td>
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<tr>
<td>639</td>
<td>2021-B</td>
<td>DPW</td>
<td>DPW</td>
<td>AIN</td>
<td>AIN Trencher Warm Storage Facility</td>
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<tr>
<td>640</td>
<td>2021-C</td>
<td>DPW</td>
<td>DPW</td>
<td>AW</td>
<td>AW Service Culverts Improvements</td>
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<td>645</td>
<td>2021-D</td>
<td>DPW</td>
<td>DPW</td>
<td>AW</td>
<td>AW W&amp;S Operating Software Improvements</td>
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<tr>
<td>648</td>
<td>2021-E</td>
<td>DPW</td>
<td>DPW</td>
<td>AW</td>
<td>AW W&amp;S Utility Assessment &amp; Economic Feasibility Studies</td>
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<td>651</td>
<td>2021-F</td>
<td>DPW</td>
<td>DPW</td>
<td>AW</td>
<td>AW WWTP HVAC Heat Reclamation</td>
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<tr>
<td>654</td>
<td>2021-G</td>
<td>DPW</td>
<td>DPW</td>
<td>NUI</td>
<td>NUI Old Tank Storage Restoration or Re-Purposing</td>
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<td></td>
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<tr>
<td>657</td>
<td>2021-H</td>
<td>DPW</td>
<td>DPW</td>
<td>BRW</td>
<td>UTQ Alternate Fresh Water Source</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PROJECT NAME: Districtwide Infrastructure improvements
LOCATION: Districtwide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-201
DATE SUBMITTED: 3/5/21
REQUESTING ENTITY: NSBSD

AMOUNT REQUESTED: $8,295,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original and dated copy via Inter-office or regular mail to the Planning
   Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Districtwide Infrastructure improvements
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.

Provide major renovations and systems upgrades needed for providing life health and safety of students, staff and community
on a District wide basis for all educational complex facilities. Renovations and systems upgrades include mechanical, plumbing,
electrical, communication, technology, fire protection and security, and structural systems. Renovations include finishes,
restrooms, kitchens, equipment, furnishings, paint systems and/or siding, roofs, playgrounds, gymnasiums, doors/hardware,
fencing, lighting, windows, Voc-Ed, District owned housing, other facility components, and small additions under 2,000 square
feet (i.e. vestibules, storage, restrooms, and other spaces that by addition will support the improvement and security of the
educational complex.)

District on an annual basis will prioritize the greatest CIP needs throughout the District and work closely with the NSB CIP
Department to implement the project on a cost effective and efficient manner. Projects will be justified by analyzing, life safety,
protection of structure, code upgrades, operational cost savings, functional upgrades, and other criteria as required to affect
prioritization. The Project funds will be used for project analysis reports, designs, investigations, construction, labor and
benefits, procurements, Installations, CIP administration, and other direct costs associated with delivery of the projects.

Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between
$750-$800M. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement
needs, facility renovations, improve CIP’s economic delivery of projects, resolve code violations, replace damaged or worn/
broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement.

4. PROJECT LOCATION:
Districtwide - all villages and Utqiagvik

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – November 2020
PROJECT NAME: Districtwide Infrastructure Improvements  
LOCATION: Districtwide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$8,295,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Areawide Design Costs</td>
<td>Annual Allowance</td>
<td>$800,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Areawide Projects</td>
<td>Annual Allowance</td>
<td>$5,600,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>NSB Project Management</td>
<td>Annual Allowance</td>
<td>$395,000</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Equipment (boilers, fire, generator)</td>
<td>Annual Allowance</td>
<td>$1,500,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL</td>
<td>$8,295,000</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $  

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UFPUND:

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

No phasing as this project will be requested annually and new project numbers requested annually.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Cost breakdown will be provided at a later date.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A, fully funding $8,295,000 annually
PROJECT NAME: Districtwide Infrastructure Improvements
LOCATION: Districtwide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☑ No ☒ Yes
   If Yes, is it scheduled for replacement before 2026? ☑ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   Partial appropriation request - the District has deferred capital maintenance and procurements. Several projects have life safety components that should be addressed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between $750-$800k. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement needs, facility renovations, improve CIP’s economic delivery of projects, resolve damaged or worn/broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will repair major systems and upgrade facilities which will reduce the overall maintenance and operations costs. This project will not expand facilities.
   C. Indicate if this is a recurring upgrade or repair.
      Yes, this project will be requested each fiscal year until all deferred major maintenance and capital procurements is significantly reduced. We are projecting this project will be our baseline capital request for the next decade.
   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:
      However, this project will reduce risks for loss of life, injury and loss of structure.
PROJECT NAME: Districtwide Infrastructure Improvements

LOCATION: Districtwide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☐ No ☑ Yes (If yes, include written verification)

Explaination, if necessary:

Yes, please reference the RSA Engineering PAR study.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☑ No ☐ Yes (If yes, include written verification)

Explaination, if necessary:

However, the project implementation will mitigate system failure risk which over the near and long term costs will be reduced.

12. PROJECT ANALYSIS REPORT [PAR] STATUS: Has a PAR for this project been completed?

☐ No ☑ Yes If yes, indicate PAR name and date: RSA ENGINEERING MECHANICAL AND ELECTRICAL NSBSD FACILITY STUDY

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.

RSA FIRST REVIEW UNIT PROJECT SUMMARY

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Fadil Limani, NSBSD Chief Financial Officer

Signature: [Signature Image] Date: 3/9/2021

Department Director Name: Corey Cahoon, NSBSD Acting Director of Maintenance & Operations

Department Director Signature: [Signature Image] Date: 3/9/2021

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Project Number</th>
<th>Project Description</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project Type ID</th>
<th>Funding</th>
<th>Notes</th>
<th>Potential Reallocation $</th>
</tr>
</thead>
</table>
| Atqasuk School | 1200-4         | The existing lighting fixtures are fluorescent (T8). Upgrade existing lighting to LED.  
Opt 1: Replace fluorescent bulbs with led replacement bulbs. Replace existing luminaires with LED luminaires (one-for-one).  
Opt 2: Replace all existing lights on a one                                | 1/1/2018   | 10/13/2019  | Lighting       | $100,000.00   |       |                           |
<p>| Atqasuk School | 1200-5         | Boiler room ventilation and combustion air system does not appear to operate per code. The air handler is in poor condition and warrants replacement with damaged and leaking heating coil piping. There is a bank of control dampers that appear to be for c                                | 1/1/2018   | 10/13/2019  | HVAC            | $80,000.00    |       |                           |
| Atqasuk School | 1200-6         | Water heater is past its reasonable service life, temperature gauge is broken and would be expensive to replace, connected piping is not insulated, adjacent abandoned water heater pan and fuel oil pipe hinder maintenance access, unit takes up considerably                                | 1/1/2018   | 10/13/2019  | Plumbing       | $40,000.00    |       |                           |
| Atqasuk School | 1200-7         | The fire sprinkler piping in the boiler room is not sufficiently braced per NFPA-13. Install bracing.                                                                                                                                                                                                                                                                                                                                                     | 1/1/2018   | 10/13/2019  | Fire Sprinkler | $15,000.00    |       |                           |
| Atqasuk School | 1200-8         | The emergency eyewashes in the Metal Shop and Wood Shop do not meet current code requirements including tempering valve, access, available water supply (Metal Shop unit isvalved off), signage. Install new eyewash and related equipment per code require                                | 1/1/2018   | 10/13/2019  | Voc-ed         | $5,000.00     |       |                           |
| Atqasuk School | 1200-9         | All kitchen plumbing fixture trim and piping is beyond its service life and is failing or not installed per code. 3-bin sink has a standard electric water heater, rather than booster heater, that is leaking and corroded; steamer and dishwasher drain to                                | 1/1/2018   | 10/13/2019  | Plumbing       | $50,000.00    |       |                           |
| Kaktovik School | 1300-20        | The freezers utilize R404A which has a high Global Warming Potential (GWP). The equipment is near the end of its useful life expectancy. When the condensers need repair, replace the condenser and evaporator with new equipment that utilizes ozone friend                                | 1/1/2018   | 8/29/2019   | Refrigeration  | $150,000.00   |       |                           |
| Kaktovik School | 1300-4         | The sanitary waste piping has experienced joint failures and freezing. Vacuum station on North side of school shuts down backing up waste inside of school utilidor. The lift station serving the natatorium locker room is at the end of its life expectancy.                                | 1/1/2018   | 3/1/2020    | Plumbing       | $660,000.00   |       |                           |</p>
<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Project Number</th>
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<th>End Date</th>
<th>Project Type ID</th>
<th>Funding</th>
<th>Notes</th>
<th>Potential Reallocation $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruqasut School</td>
<td>1400-24</td>
<td>All of the gym sound system headend equipment is obsolete and no longer supported by the equipment manufacturers. Replace gym sound system headend equipment with new in the same location. Reconnect existing cabling. Consider replacing speakers, adding new. The freezers utilize R502 and R22 refrigerant which have been classified as ozone depleting. When the condensers need repair, replace the condenser and evaporator with new equipment that utilizes ozone friendly refrigerant. When the condensers need repair, the mechanical room does not meet code required ventilation. Replace all natatorium equipment, drains, and fittings. The room does not have any ventilation. It was noticeably humid and most equipment was showing signs of corrosion due to the presence of air from the pool deck. The humid environment could lead to premature equipment failure and potential leaking of the drain pipe.</td>
<td>1/1/2018</td>
<td>6/30/2019</td>
<td>Other</td>
<td>$100,200.00</td>
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<tr>
<td>Ruqasut School</td>
<td>1400-6</td>
<td></td>
<td>1/1/2018</td>
<td>8/29/2019</td>
<td>Refrigeration</td>
<td>$150,000.00</td>
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<tr>
<td>Point Lay School</td>
<td>1600-17</td>
<td>IDH-1 appears to be in moderate condition but the complexity of this piece of equipment increases the likelihood of failure with age. The condensate drain pipe is not sufficiently connected to the unit and the fan room floor drain is not sufficient to col</td>
<td>1/1/2018</td>
<td>9/28/2019</td>
<td>Swimming Pools</td>
<td>$350,000.00</td>
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<td></td>
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<tr>
<td>Point Lay School</td>
<td>1600-5</td>
<td></td>
<td>1/1/2018</td>
<td>1/11/2018</td>
<td>Swimming Pools</td>
<td>$150,000.00</td>
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<tr>
<td>Utqialvik HMS</td>
<td>2200-9</td>
<td>The existing communication cabling is a mix of Cat 5, Cat 6, and Cat 6. Cat 6 is no longer supported, Cat 5e is nearing end of useful life. Replace Cat 5 cables and equipment with Cat 6 and update Cat 5e to Cat 6 where practical. Enable existing VOIP sys. The flooring around some of the trench drains is rotting and unsafe for vehicles to use. Repair flooring and structure underneath and around the trench drains as needed.</td>
<td>1/1/2018</td>
<td>11/27/2018</td>
<td>Telephone/Data</td>
<td>$176,000.00</td>
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</tr>
<tr>
<td>Utqialvik Bus Barn</td>
<td>2600-3</td>
<td>Parking/maintenance area is lacking required continuous ventilation and CO/NO2 detectors to enable large exhaust fans. Provide a new exhaust fan, CO/NO2 detector and Interlock with exhaust fans and MUA.</td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>Other</td>
<td>$315,000.00</td>
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<tr>
<td>Utqialvik Bus Barn</td>
<td>2600-4</td>
<td></td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>HVAC</td>
<td>$196,000.00</td>
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<tr>
<td>Unit ID</td>
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<td>Project Description</td>
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<td>Funding</td>
<td>Notes</td>
<td>Potential Reallocation $</td>
</tr>
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</tr>
<tr>
<td>Utqiagvik Bus Barn</td>
<td>2600-5</td>
<td>The flammable storage area needs to be evaluated to determine if it exceeds the allowable amount of flammable materials. Continuous exhaust may be required. The flammable storage area needs to be evaluated to determine if it exceeds the allowable amount.</td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>HVAC</td>
<td>$12,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utqiagvik Bus Barn</td>
<td>2600-6</td>
<td>The toilets and urinals utilize higher amounts of water than current code compliant fixtures. Replace fixtures with lower flow, code compliant fixtures.</td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>Plumbing</td>
<td>$22,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utqiagvik Bus Barn</td>
<td>2600-7</td>
<td>Natural gas piping outside of building abandoned and interferes with access to building and reduces potential parking areas. Demolish abandoned gas piping.</td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>Other</td>
<td>$370,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utqiagvik Bus Barn</td>
<td>2600-8</td>
<td>Old furnace is near end of expected life and is unable to properly heat office areas. Replace furnace with newer higher capacity unit. Modify ductwork as necessary to provide proper air flows.</td>
<td>1/1/2018</td>
<td>5/20/2020</td>
<td>HVAC</td>
<td>$80,000.00</td>
<td></td>
<td></td>
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<tr>
<td><strong>Total:</strong></td>
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<td></td>
<td></td>
<td></td>
<td><strong>$6,554,000.00</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PROJECT NAME: Barrow High School Renovation & Upgrades - Phase II
LOCATION: Utqiagvik, Alaska

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 06-202
DATE SUBMITTED: 3/5/21
REQUESTING ENTITY: NSBSD

TYPE: Upfund
AMOUNT REQUESTED: $8,000,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSBSD
2. PROJECT NAME: Barrow High School Renovation & Upgrades - Phase II
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

New project funding will be used to provide design and construction for Phase II of the Barrow High School Renovation & Upgrades Project. Phase II will address deficiencies in the building systems and building envelope to ensure that the facility operates properly and provides safe, usable space for educational delivery and school activities.

4. PROJECT LOCATION:
Barrow High School - Utqiagvik, Alaska
PROJECT NAME: Barrow High School Renovation & Upgrades - Phase II  
LOCATION: Ugieviiq, Alaska

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$8,000,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design</td>
<td>Estimate</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>Estimate</td>
<td>$5,700,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>NSB Project Management</td>
<td>10% Admin Cost</td>
<td>$800,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$ 8,000,000</strong></td>
</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes  
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes  
If yes, indicate name and CIP project number: BHS Renovation Phase I - CIP Project No. 06-202

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

$8,000,000 is being requested to complete Phase II of the project. The total funding amount for future phases is approximately $60,000,000.
PROJECT NAME: Barrow High School Renovation & Upgrades - Phase II
LOCATION: Utqiagvik, Alaska

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   Barrow High School is on the top of the list for renovations.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       The facility is in need of upgrades to all building systems. The mechanical, electrical, and utility systems are original construction and most of the system components have not been upgraded or replaced. Correcting deficiencies in the systems will extend the useful life of the facility.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       This project will not expand the facility or services. Providing upgrades to the building systems will reduce operating and maintenance costs by increasing the efficiency of the systems.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is not a recurring upgrade or repair.
    D. Detail outside funds being leveraged, if applicable.
       N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: Barrow High School Renovation & Upgrades - Phase II
LOCATION: Utqiagvik, Alaska

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No ☒ Yes If yes, indicate PAR name and date: Barrow High School Project Analysis Report Submitted 10/5/17
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:
Requestor Name and Title: Fadil Limani, NSBSD Chief Financial Officer

Signature: [Signature] Date: 3/9/2021

Department Director Name: Corey Cahoon, NSBSD Acting Director of Maintenance & Operations
Department Director Signature: [Signature] Date: 3/9/2021

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
B. EXECUTIVE SUMMARY

The Barrow High School has served as an academic, civic and cultural hub of the community for nearly 40 years and now it's time to update and repair the structure and many of the building's critical systems. The goal of this project is to develop an approach that will allow the School to continue to serve the community until 2050 and beyond.

The large school is in need of far reaching upgrade. Facility wide the heating, fire suppression, domestic hot water, fire alarm, electrical panels and distribution system are failing or no longer serviceable. Additionally, the foundation has failed in the Vocational Education building and is showing signs of failure in the Academic building addition. The foundation failure is due to ground surface thawing which has caused significant settlement that has translated into distortions, deflections and gypsum board cracking in multiple areas in the building. In some areas differential settlement is over 17 inches and is seriously deforming the building structure. Lastly, the swimming pool ventilation system is not working which has caused dangerous mold growth and damage to the structure. Repair will require extensive remediation of the toxic mold, replacement of finishes and in some cases portions of the structure. No students or school district employees are allowed in the pool area of the building.

The scope of this work and the sequencing of its execution has been carefully studied and is described in Chapter E of this report. Generally, the approach is to design the entire project addressing buildings that are failing first. Then facility infrastructure to support the school program is to be repaired or replaced. Lastly, the program buildings are to be upgraded. Consideration of construction time requirements has been applied to limit disruption to school schedules. Each year's work is planned to correspond with a consistent funding stream to help the District budget the project over the next nine years.

The proposed project phasing is outlined as follows:

<table>
<thead>
<tr>
<th>PHASE 1</th>
<th>Design entire project, construct new Voc Ed building, stabilize Academic building addition, foundation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years</td>
<td>2018 - 2020</td>
</tr>
<tr>
<td>Cost</td>
<td>$29,619,493</td>
</tr>
<tr>
<td>PHASE 2</td>
<td>Replace utilities to support the entire campus.</td>
</tr>
<tr>
<td>Years</td>
<td>2020</td>
</tr>
<tr>
<td>Cost</td>
<td>$5,312,266</td>
</tr>
<tr>
<td>PHASE 3</td>
<td>Remediate mold, repair pool and remainder of the Sports building.</td>
</tr>
<tr>
<td>Years</td>
<td>2021 - 2022</td>
</tr>
<tr>
<td>Cost</td>
<td>$17,269,875</td>
</tr>
<tr>
<td>PHASE 4</td>
<td>Repair Hub building</td>
</tr>
<tr>
<td>Years</td>
<td>2023 - 2024</td>
</tr>
<tr>
<td>Cost</td>
<td>$13,759,404</td>
</tr>
<tr>
<td>PHASE 5</td>
<td>Repair Academic Building</td>
</tr>
<tr>
<td>Years</td>
<td>2025 - 2026</td>
</tr>
<tr>
<td>Cost</td>
<td>$11,550,751</td>
</tr>
</tbody>
</table>

We expect the total building construction cost to reach $77,611,789 when it is completed in 2026.
D. PROJECT SCHEDULE AND RECOMMENDED APPROACH

PROJECT APPROACH

The Barrow High School project is planned to be incrementally constructed over several years in order to minimize student disruption and to defer project costs over multiple funding cycles. As described below, projects have been prioritized in terms of urgency and development of a logical cost effective process that assures new work does not need to be disrupted or replaced as the result of follow-on work.

PHASE 1  To understand the implications of the entire project we recommend the design of the entire facility be completed as part of the first phase. Other parts of the first phase include stabilizing the existing science classroom wing and developing a thermally protected pad under the Academic building that will stabilize the soil under the science classrooms which is failing to support these classrooms. Lastly, this phase includes replacement of the Vocational Education building. The cost of this work is expected to be $29,619,493.

PHASE 2  The next project phase includes replacing the fire sprinkler system, heating and domestic hot water systems to assure the school continues to have these critical utilities. This work also includes upgrade of the building that houses the mechanical equipment. By doing these projects together following the work required in the school ceilings and walls will be in place early in the project so all the work is in sequences and as cost effective as it can be. By having the utility systems completed early in the project phasing, each component that is connected later will tie into a designed final solution. This approach will again pay an efficiency reward of phasing the utility work early. The next portion of Phase 2 is the fire lane and hydrant construction and lastly, the work included in this phase installs a thermally enhanced, under-building pad. This work will keep the soil under the Utility building from thawing and the required fire access lane and hydrants. The cost of this work is expected to be $5,312,266.

PHASE 3  The next project phase remediates the mold, replaces the swimming pool, repairs the enclosure that houses the pool and the mechanical and electrical systems that supports both the pool and the gymnasium. This work will result in essentially a new interior and exterior enclosure for the swimming pool area. Immediately following and perhaps overlapping the pool work is the upgrade of the remainder of the Sports building. This work includes connection to the previously completed utility systems, a new gymnasium floor, replaced finishes, new exterior enclosure and the replacement of the lead containing glazed accent floor and wall tile. This work also includes installation of a thermally enhanced soil pad to protect the ground from thawing under the Sports building in the future. This work is expected to cost $17,269,875.
PHASE 4
The next phase repairs and updates the Hub building. This allows the new utilities and lighting to be installed, finishes updated, the exterior of the building to be painted and the underfloor pad enhancement is to be provided to protect the frozen soil. This project also includes security enhancements to the building entry and the Administration area. The Hub building enhancements are expected to cost $13,759,404.

PHASE 5
The next area of work is the Academic building which again will bring new utilities, lighting, finishes, and enclosure. This phase will also include enhancements to the corridors that link the various buildings. The ground protection pad under the Academic building was built in the first project phase. The Academic building renovation also includes the connecting corridors throughout the campus. Phase 5 is expected to cost $11,650,751.
### Project Cost Summary

<table>
<thead>
<tr>
<th>PHASE</th>
<th>PHASE 1</th>
<th>YEAR</th>
<th>2018 COST</th>
<th>ESCALATION%</th>
<th>COST OF CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Utility, Site</td>
<td>2020</td>
<td>$5,007,321</td>
<td>6%</td>
<td>$5,312,266</td>
</tr>
<tr>
<td>3</td>
<td>Sports</td>
<td>2022</td>
<td>$15,344,060</td>
<td>13%</td>
<td>$17,269,875</td>
</tr>
<tr>
<td>4</td>
<td>Hub</td>
<td>2024</td>
<td>$11,523,285</td>
<td>19%</td>
<td>$13,759,404</td>
</tr>
<tr>
<td>5</td>
<td>Academic*, Corridors</td>
<td>2026</td>
<td>$11,378,492</td>
<td>23%</td>
<td>$11,650,751</td>
</tr>
</tbody>
</table>

**TOTAL** | **$77,611,789**

* Minus stabilization

### Item Cost Breakdown

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>SOURCE OF COST</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>PAR Report</td>
<td>HDL Report</td>
<td><strong>$92,231</strong></td>
</tr>
<tr>
<td>Professional Services</td>
<td>13% A/E and C/A Services</td>
<td>Estimate</td>
<td><em><em>($8,928,790</em>)</em>*</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Construction Contract</td>
<td>Estimate</td>
<td><strong>$77,611,789</strong></td>
</tr>
<tr>
<td>Administration</td>
<td>10% NSB Administration</td>
<td>Estimate</td>
<td><strong>$7,770,402</strong></td>
</tr>
<tr>
<td>Contingency</td>
<td>12% Project Contingency</td>
<td>Estimate</td>
<td><strong>$9,324,482</strong></td>
</tr>
<tr>
<td>Other Costs</td>
<td>None</td>
<td></td>
<td><strong>$0</strong></td>
</tr>
<tr>
<td>TOTAL PROJECT COST</td>
<td></td>
<td>Estimate</td>
<td><strong>$94,798,904</strong></td>
</tr>
<tr>
<td>(Initial Construction Year 2018-2026)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Future Cost if Funded in 2019</td>
<td></td>
<td>Estimate</td>
<td><strong>$97,642,872</strong></td>
</tr>
<tr>
<td>(Cost from Previous Year + 3% Inflation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Future Cost if Funded in 2020</td>
<td></td>
<td></td>
<td><strong>$100,572,158</strong></td>
</tr>
<tr>
<td>(Cost from Previous Year + 3% Inflation)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Included in Phase 1
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 06-204  TYPE: UpFund
DATE SUBMITTED: 3-4-2021  AMOUNT REQUESTED: $8,476,000
REQUESTING ENTITY: Ilisagvik  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning
   Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Ilisagvik College

2. PROJECT NAME: Ilisagvik College New Facility Design

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by
   village. Attach additional sheets if necessary.

Ilisagvik College is requesting funds to advance and complete the design of the new College
campus. A Project Analysis Report (PAR) completed by Umiak in 2016 identified potential campus
sites and provided a preliminary concept design/cost estimate. The College selected a 10-acre
parcel of land owned by UIC near Samuel Simmonds Memorial Hospital, which will allow the College
to consolidate programs and services into one centrally located campus, thus improving student
access, and better serving the residents of the North Slope.

In recent years, Ilisagvik has taken concrete steps to advance the new campus facility. The College
created the NICC Development Plan created in 2017/2018. Additionally, after a competitive selection
process, Ilisagvik selected the architectural team of UMIAC/Cibinel Architecture Ltd. to design the
new campus. Throughout 2018, Ilisagvik College traveled to North Slope villages to hear from our
communities about how a new campus can better meet North Slope training and educational needs.
At this time, Ilisagvik is in active conversations with UIC leadership regarding the lease of the
identified location, and researching avenues for tribal education funding.

4. PROJECT LOCATION:

Barrow/Uttiaqvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total Request for New Campus Design: $8,475,727 (balance of PAR estimate Design Only amount)

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design (8%) and CA (4%)</td>
<td>PAR Estimate</td>
<td>$14,213,592</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction PAR Estimate Building &amp; Site (pad, utilities, road)</td>
<td>PAR Estimate</td>
<td>$118,446,600</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>Project Management, 5%</td>
<td>PAR Estimate</td>
<td>$5,922,330</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Change Order Reserve, 8% Contingency, 15%</td>
<td>PAR Estimate</td>
<td>$27,242,718</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Permit 0.3%, Art/LEED/Other MISC Costs 3%, FFE 5%</td>
<td>PAR Estimate</td>
<td>$9,238,835</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$175,064,075</td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td></td>
<td>$175,064,075</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☑ Yes
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

We anticipate requesting approximately $75-$90 Million from the North Slope Borough over the course of the project; the amount is dependent upon our fundraising efforts using outside sources.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  □ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
   If No, explain why it should be considered out of sequence:
   Ilisaqvik College currently operates out of buildings that were built in the 1940s, 1950s and 1960s which were not designed to be an educational facility. In addition, waiting additional years increases the cost of construction of the new facility by about 3.5% per year.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       Ilisaqvik College is operating in an aging and deteriorating facility that was not designed to be an educational institution, and not ideal for educational purposes due to health, safety and environmental concerns. NARL is adjacent to waste disposal areas containing PCBs and Asbestos nor does it contain adequate water storage in case of a major fire. Seasonal storms has caused Stevenson to become annually impassable and the College was without access to water for 34 days in late 2016/early 2019 due to freezing pipes.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       The new Ilisaqvik College campus will expand services to all North Slope Borough villages by allowing for greater capacity, connectivity and growth. The College does not anticipate that the facility will entail increased operating and maintenance costs, which should decline. An analytical model comparing FY18's budget (at NARL) and the projected post-occupancy budget (in the new facility) shows an overall cost reduction estimate of more than 10%. This cost reduction is primarily from the elimination of leased buildings and lower maintenance costs at the new facility.

   C. Indicate if this is a reoccurring upgrade or repair.
       This is not a reoccurring upgrade; the project is dedicated to building a new campus that will help mitigate the need for reoccurring upgrades or repairs.

   D. Detail outside funds being leveraged, if applicable.
       A Capital Campaign Committee has been formed to identify and secure funding. These funds include: 1. Federal Grants: Department of Education, Department of Housing and Urban Development, other Federal Tribal College dollars; 2. State Grants: Rasmuson Foundation and other foundations; 3. Oil & Gas Partner Support; 4. Local Support.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  □ Yes  (If yes, include written verification)
       Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  □ Yes  (If yes, include written verification)
       Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  ☒ Yes  (If yes, include written verification)
       Explanation, if necessary:

   Existing Conditions Analysis is available upon request. See Attachment #2 to Assembly June 2020 that highlights Environmental Concerns.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
The cost of maintenance and operations that the NSB supports as part of the general operating budget will decrease with the new facility. In FY18 the NSB through-reimbursement with UIC paid $5.3 million for the lease for the Itlagaqvik main campus. The total paid to UIC to date is $36.9 million. Those funds could be invested in a new facility moving forward.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date: March 2014

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.


14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

Itlagaqvik is in active discussions with UIC regarding the lease, and both parties are committed to working together in partnership towards the creation of the New Itlagaqvik College Campus.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>JUSTINA WILLHEIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>February 24, 2021</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>JUSTINA WILLHEIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>February 24, 2021</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: TOM GORDON EXPRESSWAY ROAD
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This Project will provide new road from cakeeater to the Arctic Research Center, NARL and Federal sites North of BRW. Grant Funds have been available by a Federal earmark under the SAFETEA-LU and an NPR-A Grant. In 2012 the borough contributed to the Project. The Total of all funding sources as of the date of this request is $12,603,000.00

4. PROJECT LOCATION:

Barrow
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$10,628,000.00

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $  

**TOTAL PROJECT COST** (if different) $  

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** [ ] No  [x] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? [ ] No  [x] Yes

If yes, indicate name and CIP project number:  TOM GORDON EXPRESSWAY ROAD - 57251

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
PROJECT NAME: TOM GORDON EXPRESSWAY ROAD
LOCATION: Barrow

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☐ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☑ Yes
   If No, explain why it should be considered out of sequence:
   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Roads Upgrades
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      N/A
   C. Indicate if this is a reoccurring upgrade or repair.
      N/A
   D. Detail outside funds being leveraged, if applicable.
      N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:
12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
☐ No  ☑ Yes  (If yes, indicate PAR name and date:  
n/A

13. ATTACHMENTS: List any supplemental information submitted with this request.  
☐/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.  
☐/A

15. REQUESTOR INFORMATION:  

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito R. Vinas Jr., Division Manager RA&amp;S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name: Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: NUNAVAQ ROAD UPGRADE PH.1
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 07-270
DATE SUBMITTED: 02/12/2021
REQUESTING ENTITY: RA&S

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S
2. PROJECT NAME: NUNAVAQ ROAD UPGRADE PH.1
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Nunavaaq Road Right of Way is a 9,100 foot long unimproved subsistence trail dedicated to the NSB southwest of Barrow, that is an arterial transport corridor for a platted UIC subdivision. It provides direct frontage access to 142 UIC Shareholder Homesite Allotments and indirect access to future righto of ways for an additional 220 homesite lots. The road continues 330 feet further beyond the subdivision to the end on the ocean beach at Nunavaq lagoon. It is the termination point of most interests to the NSB that justifies this request; for recent years this point has provided critical accessibility to spring ice for whaling equipment. This project request is for design and construction of a 9,100 foot road, 20 foot width, with accommodations for drainage and permafrost protection.

4. PROJECT LOCATION:
   Barrow
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$2,994,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<tbody>
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<tr>
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<td>Administration (NSB project management)</td>
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<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<td>TOTAL</td>
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</tbody>
</table>

TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      N/A
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
      N/A
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☒ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☒ Yes
If No, explain why it should be considered out of sequence:

N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Nunavak Road Upgrade PH.1

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

NONE

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☒ Yes  (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☒ Yes  (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☒ Yes  (If yes, include written verification)
Explanation, if necessary:

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – November 2020
12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

No ☐ Yes ☐ If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
.requests are unacceptable and will be returned.

1. **REQUESTING ENTITY:** RA&S-BARROW

2. **PROJECT NAME:** NSB GRAVEL

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   "Areawide gravel needs are as follows: 1. Kaktovik- Road repairs, minor upgrades. 50,000 cu. yards x $75 cu. yard = $3,750,000. 2. Barrow- road repairs, storm response contingency. 50,000 cu. yards x $45 cu. yard = $2,250,000. 3. Anaktuvuk Pass - 40,000 cu. yards for water and sewer repairs, road repairs and minor upgrades. 100,000 cu. yards x $85 cu. yard = $8,500,000. 4. Putting up a fence to enclose the access to the gravel. $150,000. 5. Total: $8,650,000. 6. Point Lay- Rebuilding of infrastructure of setting new tanks and housing foundations. 100,000 cu. yards x $100 cu. yard = $10,000,000. 7. Wainwright- Water and sewer project work and road repairs. 50,000 x $85 cu. yard = $4,250,000. 8. Fencing = $150,000. 9. Total = $4,400,000. 10. Grand Total= $29,050,000. Original request $10M for PIZ only. 11. AIN: $2M Dredge Removal; 12. $1.8M 20K cy Landfill Upgrade. 13. AKP: $2M Gravel Mining for 2 Years. 14. ATQ: $500K Search for Gravel Source. 15. UTQ: $1M 20K cy Road Upgrades. 16. AW: $1M Contingency."

4. **PROJECT LOCATION:**

   PHO
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$6,000,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<td><strong>TOTAL PROJECT COST (if different)</strong></td>
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</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: NSB GRAVEL - 57572

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☒ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No  ☒ Yes
   If No, explain why it should be considered out of sequence:
   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       ROADS UPGRADES AND REPAIRS

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   N/A

C. Indicate if this is a reoccurring upgrade or repair.
   N/A

D. Detail outside funds being leveraged, if applicable.
   N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☒ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☒ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☒ Yes (If yes, include written verification)
       Explanation, if necessary: 
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☐ No   ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No   ☐ Yes  (If yes, include written verification)   
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  
☐ No   ☐ Yes  If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request. 
N/A

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere. 
N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<tbody>
<tr>
<td>Signature:</td>
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<td>Department Director Name:</td>
<td>Scott K. Danner, Director, Department of Public Works</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: East Barrow Lot Roads
LOCATION: Barrow, AK

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 07-276
DATE SUBMITTED: 02/12/2021
REQUESTING ENTITY: Public Works RA&S

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works RA&S
2. PROJECT NAME: East Barrow Lot Roads
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

"$5.07 million for phase 2. Remaining phases are estimated at approx. $5.07 million per phase based on most recent estimates using UMIAQ’s utilities estimations on NSB Barrow’s Comprehensive plan. Total of Phases 2-5 is estimated at approx. $20.28 million. See attachments for full project breakdowns of cost and a phase exhibit map.
This is a road construction project which consists of 5 planned phases which will bring access to approx. 255 residential lots to the community of Barrow.
Phase 1. ligu St: This completed phase is fully funded by the NVB at approximately $2.7 million. Approx. 20% of the entire project.
Phase 2 consists of constructing a new road (Simik Street which is south of Ahgeak Street) and the installation of utilities for these lots.
This phase provided access to approximately 62 residential lots. The 1st phase also included full design and permitting of all 5 phases, so each subsequent phase is shovel ready when construction dollars are made available. With Phase 1 fully paid for by NVB, this NSB Capital Project Request is for Phase 2 construction of approximately 0.63 miles of roadway and the installation of gas and electric utilities which are all situated south of existing Ahgeak Street to provide access to 62 lots."

4. PROJECT LOCATION:
Barrow, AK
5. DOLLAR $ AMOUNT OF THIS REQUEST:  Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only.  This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$5.07 Million for Phase 2. Remaining Phases are estimated approximate $5.07 Million per phase based on most recent estimates using UMIAQ's utilities estimations on NSB Barrow’s Comprehensive plan. Total of phases 2-5 is estimated at approximately $20.28 Million. See attachments for full project breakdowns of cost and a phase exhibit map.

6. PROJECT COST:  Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
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7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  [X] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  Is this a phased project or a follow-up to an existing CIP project?  [ ] No  [X] Yes

If yes, indicate name and CIP project number:

A.  If this is a new request, indicate below whether this project could be phased and over how many years.

This funding is for the project to be built phases 2-5 planned over the next 4 years at $5 Million a year.

B.  If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Not an Areawide project.

C.  If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Approximately $5.07 Million for the first year and approximately $15.2 Million in future years.
PROJECT NAME: East Barrow Lot Roads  
LOCATION: Barrow, AK

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes  
If Yes, is it scheduled for replacement before 2026? ☑ No ☑ Yes  
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION:  Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
There is a housing crisis in Barrow and this project will alleviate some of this.  

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
Phase 2 of the project will add approximately 0.63 Miles of road to Barrow’s existing road infrastructure, providing access to approximately 62 residential Lots (Phase 2 only)  

C. Indicate if this is a reoccurring upgrade or repair.  
Reoccurring road repair and utility is anticipated.  

D. Detail outside funds being leveraged, if applicable.  
The Native Village of Barrow has dedicated approximately $3 Million to this project’s 1st Phase. Approximately 20% of the total project cost phases 1-5.

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)  
Explanation, if necessary:
PROJECT NAME: East Barrow Lot Roads
LOCATION: Barrow, AK

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No  ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
Attachment A: Phase Map and Project Cost Breakdowns.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW ROAD Improvement Project
LOCATION: AW

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: XXXXX TYPE: Upfund
DATE SUBMITTED: 3/12/2021 AMOUNT REQUESTED: $1,900,000
REQUESTING ENTITY: RA&S-BARROW AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: AW ROAD Improvement Project
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

"Road Improvement project Kiogak St., from Nachik to Agvik and Eben Hopson from Agvik to EgasakLaura Madison from A Avenue to Stevenson. For Kaktovik 7,386.70 cubic yard x $46.00 = $ 339,788.00 for Kiogak and Eben Hopson 17,631.10 cubic yard x $46.00 = $ 811,030.00 for Laura Madison Wages $ 29,235.00 ________________ Grand Total $ 1,180,053.00"

4. PROJECT LOCATION:
AW
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

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TOTAL PROJECT COST (if different) **$**

6. PROJECT COST: Complete the project cost table below as completely as possible.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

If yes, indicate name and CIP project number: AW ROAD Improvement Project - 57277

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  ☑ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  ☑ Yes
   If No, explain why it should be considered out of sequence:
   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   ROADS UPGRADES AND REPAIRS

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   N/A

   C. Indicate if this is a reoccurring upgrade or repair.
   N/A

   D. Detail outside funds being leveraged, if applicable.
   N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☑ No  □ Yes  (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☑ No  □ Yes  (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☑ No  □ Yes  (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: AW ROAD Improvement Project
LOCATION: AW

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? □ No □ Yes  (If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito R Vinas Jr., Division Manager RA&amp;S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott K. Danner, Director, Department of Public Works</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Gaswell Road Upgrade Phase 1
LOCATION: Barrow, AK

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works RA&S

2. PROJECT NAME: Gaswell Road Upgrade Phase 1

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The first phase of this project would upgrade the existing roads in the east Barrow Gas Fields in Barrow from the end of Cakeeater Road. Just past the landfill turnoff, as shown in two segments in the site plan submitted with this request.

The gas field roads were constructed from 1979 to 1980 by placing five feet of compacted gravel fill over the tundra surface without insulation. The gasfield road embankments have subsided into the tundra. The top surfaces of the roads are at the same elevation as the adjacent tundra surface. Water ponds on these roads during thawed conditions and snow accumulates on the roads during freezing conditions. The roads need to be raised above the tundra surface.

It is essential that gasfield personnel have dependable access to this critical infrastructure to ensure reliable service to residents year round.

The east Barrow Gas Field includes 11.84 miles of roads. The entire project would consist of:
-Placing geotextile and two two feet of fill over existing road embankments.
-Reduce road widths by 2 to 6 feet.
-Install 35 culverts of various sizes.
-Install signs and flexible markers along the roadway.

A PAR and draft 35% design are complete.

4. PROJECT LOCATION:
Barrow, AK
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

The Total request for Phase 1 is: PAR ($1,000,000), design and partial construction administration ($4,000,000), Phase 1 construction ($3,000,000), NSB admin costs (300,000), and contingency ($600,000) for a total request of $4.4 Million

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Project Analysis Report</td>
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<td>Professional Services (Design, legal, other)</td>
<td>Design and construction administration 8%</td>
<td>PAR Estimate, Increased 2% for phased projects</td>
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<tr>
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<td>NSB Project Management 5%</td>
<td>PAR Estimate</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<td>TOTAL</td>
<td></td>
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<td>$4,400,000</td>
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</table>

TOTAL PROJECT COST (if different) $-

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [ ] No [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

The project could be phased over five or more years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Approximately $5.5 Million would be needed annually for four additional years to fund the entire project.
PROJECT NAME: Gaswell Road Upgrade Phase 1  
LOCATION: Barrow, AK

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes  
If Yes, is it scheduled for replacement before 2026? □ No  □ Yes  
If No, explain why it should be considered out of sequence:

Utility roads in barrow were assigned a 80 years life span, unrealistic when considering that the roads were constructed without insulation or culverts. While these utility roads have been continuously maintained, the nature of their 1980 design limits their use for another 40 years without significant.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
The existing roads, experience flooding, wet, and undrivable conditions, especially during spring break up. During thaw, the roads become soft, during freezing conditions, snow accumulates. Both of these conditions restrict NSB’s Operations as well as community access.  
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
This project would likely decrease road maintenance costs.  
C. Indicate if this is a reoccurring upgrade or repair.  
This is a request for a needed upgrade.  
D. Detail outside funds being leveraged, if applicable.  
None

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:
PROJECT NAME: Gaswell Road Upgrade Phase 1
LOCATION: Barrow, AK

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No ☒ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

NSB East Barrow Gas Field Roads PAR 35% Drawings Site Plan C2.0:

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito R Vinas Jr., Division Manager, Public Works RA&amp;S</th>
</tr>
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<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>
PROJECT NAME: Conveyance of Residential Septic Systems

LOCATION:

In accordance with § 14.04.030 of the NSB Municipal Code, TNHA proposes to transfer its interest in 30 Lifewater sewage treatment plants across 6 villages to the NSB. The systems serve HUD-assisted housing developed by TNHA between 2010 and 2015. The majority of the systems have been modified by TNHA to function as holding tanks to be pumped out by NSB operators. This was done to address concerns raised by village residents related to the flow of treated gray water from their outfall lines and discharge onto the tundra. TNHA will further modify the tanks in 2021 to isolate their glycol heat trace loops from the heating systems in the residences and ensure they are prepared for use as standard holdings tanks comparable to other septic services provided by the NSB in these villages.

4. PROJECT LOCATION:

Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Lay, Wainwright
6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<td>Professional Services</td>
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<tr>
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<td>Administration</td>
<td>(NSB project management)</td>
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<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
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<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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<td><strong>$0</strong></td>
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<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td></td>
<td></td>
<td><strong>$0</strong></td>
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</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  [ ] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  [ ] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
If No, explain why it should be considered out of sequence:

N/A

10. PROJECT JUSTIFICATION:  Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

NSB Municipal Code § 14.04.030: “(A) The Borough shall undertake a program to study the possibility of acquiring all public utilities … (B) In considering the acquisition by the Borough of those public utilities presently operated by private, nonprofit corporations in the Borough, the Borough shall consider whether any such public utility cannot finance the necessary capital improvements to provide services on the level and at the rate prevailing in urban areas of Alaska. The inability of any such public utility to demonstrate that it can acquire such financing shall be sufficient authorization for the Borough to undertake those acts necessary to acquire and operate any such public utilities, subject to approval by the Mayor and of the Assembly by resolution or motion.”

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The NSB is already pumping out residential Lifewater systems in 6 villages modified into holding tanks. This acquisition is not expected to have a significant impact on NSB operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

The systems were purchased with HUD funds between 2010 to 2015.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)

   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes  (If yes, include written verification)

   Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes  (If yes, include written verification)

   Explanation, if necessary:
### 13. ATTACHMENTS:
List any supplemental information submitted with this request.

*Lifewater ExtremeSTP operations and maintenance manual*

### 14. ADDITIONAL INFORMATION:
Include any pertinent information not requested elsewhere.

### 15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Griffin W. Hagle, Executive Director, Tağıuğmiullu Nunamiullu Housing Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>02/16/2021</td>
</tr>
</tbody>
</table>

| Department Director Name: | |
| Department Director Signature: | |
| Date: | |

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**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
ExtremeSTP™ Sewage Treatment Plant
Operation & Maintenance Instructions

NOTE: Incorporated into and provided with this O&M manual are the Bio-Microbics®
Incorporated Owner's Manual and Service Manual. It is the Owner's responsibility to read
and follow the instructions in all documents.

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1. Daily Operational Checks

The OWNER must, at least daily, verify that the blower is operating properly and air is bubbling into the system. This is especially important after a power outage. The sound of air bubbling inside the treatment plant (much like the sound of a Jacuzzi®) is an indication that the blower is working properly.

If your blower controller has a timer, the timer may be set so that the blower does not run continuously. In this case you may have to check several times throughout the day to be sure that the blower comes on and off as it should. The best way to keep track of how the timer is set is to keep a log in a place where you will readily see it when checking the system. If you are mechanically and electrically inclined and want to see how the timer is set or change the settings, follow the instructions for doing so in the section on setting or checking the blower timer.

NOTICE!! It is highly recommended that you take extreme caution in working around this equipment. There is a risk of electrical shock if the proper safety precautions are not followed. Vapors and liquids contained in this system may be harmful, and extreme caution is recommended. It is highly recommended that you wear rubber gloves when servicing this system and wash your hands and any body parts that come in contact with sewage solids or liquids. Beware of splashes, particularly when the blower is operating.

The OWNER must also look for visual alarms, listen for audible alarms, and MUST TAKE APPROPRIATE ACTION if any of the following alarms or conditions occurs:

- The red light on the Bio-Microbics control panel begins flashing and/or the audible alarm sounds.
- The UV lamp beacon illuminates and/or the alarm sounds (if so equipped).
- The high water alarm illuminates and/or sounds (if so equipped).
- A power outage occurs.
- Anything out of the ordinary is noticed about the unit.

If the ExtremeSTP™ is covered under a MAINTENANCE INSPECTION AGREEMENT the OWNER must notify Lifewater Engineering Company, or its designated representative, immediately if any one of the above conditions occurs.

NOTE: The alarms will not function during an interruption of power, so the lack of a visual or audible alarm does not necessarily mean that all is well with your system. During your daily checks be sure that there is power to the ExtremeSTP™ sewage treatment plant.
NOTE: ExtremeSTP™ sewage treatment plants are designed to operate at temperatures as cold as -60°F providing there is no interruption of electric power. If the electric power to the ExtremeSTP™ is off for any period of time during freezing conditions, it is the OWNER'S responsibility to take immediate appropriate action. Such action must include monitoring the temperatures inside the system and taking whatever action is necessary to prevent freezing of any part of the system. This may include providing power to the unit by means of an auxiliary generator, or otherwise protecting the unit from freezing.

Each day, upon initial walk around of treatment unit, look for anything out of the ordinary including: leaking fittings, broken pipes, visible leaks of the containment vessel, vapor leaks, ice build up, or water overflowing.

For ExtremeSTP™ treatment systems with a surface discharge inspect the discharge area for excessive ice build up. Excessive ice could obstruct the flow of effluent and may indicate that the automatic dosing siphon needs attention. Also inspect the effluent pipeline for dips that could trap water or otherwise restrict the flow of effluent, because these conditions can cause a freeze up.

The automatic dosing siphon normally continues to function properly with no attention, but if it ceases to dose properly a shot of air under the bell will normally restore proper dosing. See the dosing siphon troubleshooting section.

Inspect the discharge area for color and odor of effluent. With a properly operating system you will find that the color of the effluent is clear and there will only be a small amount of suspended particles visible. The color of the effluent will typically be similar to the coloration of the source water. The effluent should be essentially odorless; typically it will have a slight “earthy” odor that is comparable to the smell of a handful of moss or dirt. If the effluent smells of a sewer or septic nature, your treatment plant may not be functioning properly. Please check to make sure that the blower is operating and that you hear the bubbling sound described above.

2. Maintenance Checks at the Beginning & End of Winter

The following maintenance must be performed at the beginning and end of winter (unless otherwise recommended by Lifewater Engineering Company or its designated representative):
2.1. Blower and air-filter maintenance

2.1.1. Remove the blower access cover

2.1.2. Inspect the blower for any loose fasteners or fittings

2.1.3. Remove, clean or replace the fresh air filter

2.1.4. For summer operation (April through September in Alaska), install a plastic bag around the return air filter and insert filter into the return air pipe, make sure that the filter is installed below the blower air intake.

For winter operation (October through April in Alaska) Remove the plastic bag that covers the return air filter and re-insert the return air filter into the return air pipe, make sure that the filter is installed below the blower air intake.

2.1.5. Remove the return air filter and clean or replace it as necessary. A Tuffy® type cleaning pad with a plastic wire tie as a handle is used as a return air filter element.

NOTE: A dark brown/black tar like residue is commonly found on the return air filter. Typically, return air filters are replaced (or sometimes cleaned) before this tar-like residue accumulates to the point where it begins to restrict return air flow.
2.1.6. Shut off all power to the blower and control panel.

2.1.7. Locate the removable portion of the blower housing (the large round part – see picture)

![Image of blower housing]

2.1.8. Remove all the screws or bolts that secure the impeller cover to the impeller housing. (See picture)

NOTE: Wear rubber gloves and eye protection for the following cleaning procedure.
2.1.9. Open the blower housing being careful not to cut yourself on the sharp edges. Clean the cover with a suitable cleaner and brush (a kitchen cleaner similar to 409® and an old toothbrush are recommended). Remove accumulations of the brown, tar-like residue.

2.1.10. Clean the inside of the blower housing, especially the area on the bottom of the housing between the inlet and outlet pipes, with the same brush and cleaner. This area must be free of the tar-like buildup, as the clearances are very tight. When performing this cleaning under winter conditions, careful use of a heat gun or other heater is recommended.

2.1.11. Clean the impeller blades as necessary with the same cleaner and brush.

2.1.12. Reassemble the blower, and test.

2.1.13. Reinstall the blower access cover

2.2. Setting or checking the blower timer (if so equipped)

2.2.1. Turn off the power to the blower control

2.2.2. Remove the four screws holding the blower control cover (being careful not to drop them)

NOTE: During cold weather you should use a hair dryer or heat gun to carefully warm the wires inside the blower control before bending them back to move the cover out of the way.

2.2.3. Look at the dipswitches inside and compare the dipswitch settings to the chart on the inside of the cover that gives on/off times for each possible dipswitch setting

2.2.4. Adjust the dipswitches if needed

2.2.5. Write down the new timer setting on a log that is kept in a conspicuous place so it’s easy to find when performing daily checks

2.2.6. Replace the blower cover and gently tighten the four screws that secure it

2.2.7. Turn the power back on and make sure that the blower operates properly

NOTE: The power to the blower control must be cycled off then on again in order for new dipswitch settings to take effect.
2.3. UV Disinfector maintenance (if so equipped)

NOTICE!! UV light can cause skin and eye damage! Use caution when working around ultra-violet (UV) light. Avoid looking directly at the UV bulb when it is turned on. Briefly look only in the general direction of the UV bulb to determine if it is operating. The power source should be disconnected and extreme caution should be used when servicing the unit.

2.3.1. The UV bulb should be cleaned every three to four months and replaced every one to two years.

2.3.2. Remove the access cover to gain access to the UV bulb

2.3.3. Check to see that the UV bulb is working

2.3.4. Disconnect the power from the UV unit

2.3.5. Disconnect the UV bulb from the power/sensor wire.

2.3.6. Gently lift the UV bulb from its holder and remove it from the disinfector unit.

NOTE: Do not force the UV bulb in any way while removing it or it may break

2.3.7. Clean the UV bulb by carefully wiping it with 409® cleaning solution to remove any residue present on the outside of the bulb. It is common to find some scale buildup and discoloration on the outside of the bulb covering. Scrubbing with a plastic bathroom-type scrubby may be required to remove this buildup.

2.3.8. Gently reinstall the UV bulb into the disinfector unit in the center hole. Pay special attention as you lower the UV bulb into the disinfector unit that the bottom of the bulb rests in the lower bulb-holding fixture of the UV disinfector. The bulb will slide into the receptacle and seat on the rubber stop attached onto the bulb.

NOTE: Do not force the UV bulb in any way while reinstalling it or it may break.

2.3.9. Reconnect the UV bulb to the power/sensor cable

2.3.10. Reconnect the UV unit to the power source.

NOTICE!! UV light can cause skin and eye damage! Use caution when working around ultra-violet (UV) light. Avoid looking directly at the UV bulb when it is turned on. Briefly look only in the general direction of the UV bulb to determine if it is operating. The power source should be disconnected and extreme caution should be used when servicing the unit.
source should be disconnected and extreme caution should be used when servicing the unit.

2.3.11. Inspect the bulb for proper operation (make sure it lights up).

2.3.12. Place all switches in the run position.

2.3.13. Reinstall the access covers

2.4. Dosing siphon maintenance (if so equipped)

2.4.1. Remove the access cover to the dosing compartment.

2.4.2. Inspect the compartment for any floating debris, or sediment, also inspect the water quality, it should have little to no odor (Odor should smell “earthy”) and it should be clear.

NOTE: Some sediment is normal but the presence of any floating debris or more than a small amount of sediment in the dosing compartment may indicate that the sewage treatment plant needs to have solids removed from the pretreatment, intermediate treatment (if so equipped), FAST®, and dosing compartments.

2.4.3. Inspect the overflow float to make sure that it is in place and functions freely.

2.4.4. Re-install the dosing compartment access cover.

2.5. Effluent pump/ high water alarm maintenance (if so equipped)

2.5.1. Remove the blower base to gain access to the effluent pump.

2.5.2. Inspect the compartment for any floating debris or sediment. Also inspect the water quality. It should have little to no odor (if it has any odor the odor should be “earthy”) and it should be essentially clear with no more than a trace of suspended solids.

NOTE: Some sediment is normal but the presence of any floating debris or more than a small amount of sediment in the pump compartment may indicate that the sewage treatment plant needs to have solids removed from the pretreatment, intermediate treatment (if so equipped), FAST®, and dosing compartments.
2.5.3. Inspect the float switches (if so equipped). If able, actuate the switches to ensure proper functioning and to ensure that the float switches do not encounter anything that will prohibit their proper operation.

2.5.4. Inspect the slip joint and make sure that the pump slip plate if fully seated.

2.5.5. Depress the "test" switch on the high water alarm and wait until the alarm sounds, then release.

2.5.6. Place all switches in the run position.

2.5.7. Re-install the blower base and take careful consideration to not kink any wires or air lines when re-installing the unit.

2.6. Foam control system maintenance (if so equipped)
The foam control system (FCS) consists of a pump, spray bar assembly, spray nozzle(s), pump mount, and switch. The FCS is installed as a precautionary measure to help control and reduce the amount of foam in the treatment unit. This foam is a natural byproduct of the treatment process, especially during startup and periods when the hydraulic and organic loadings are changing. Lifewater Engineering will recommend operating intervals for the FCS.
2.6.1. To operate the FCS, turn on the appropriate switch below the Bio-Microbics control panel. It is normal to hear the pump and sprayer making some noise.

2.6.2. During the periods when the FCS is operating, a daily visual inspection is recommended to check how the pump and sprayer are functioning. To perform a visual inspection, with the FCS turned on lift the blower housing and riser lid assembly vertically and shift it to the side approximately 4 inches.

2.6.3. Looking down into the riser you should see water spraying out of the spray nozzle.

2.6.4. If so, replace the riser cover and blower assembly.

2.6.5. If not, disconnect the power source and carefully remove the FCS assembly mount and remove the assembly from the treatment unit. Repair or replace it as necessary.

2.6.6. If the pump runs but the nozzle does not spray, the nozzle could be plugged. In this case, remove the pump and sprayer assembly as stated above and clean or replace the nozzle as necessary.

2.6.7. Reinstall the pump and sprayer assembly in the same manner that it was removed.

2.6.8. Test to ensure proper operation, and then reinstall the blower housing and riser lid assembly.

3. Troubleshooting

3.1. When audible alarm begins sounding

With each audible alarm there is a corresponding visual alarm. When you hear an audible alarm, visually determine which alarm light is flashing to identify which system component is in the alarm mode, then proceed to the appropriate subsection below.

3.2. The red light on the Bio-Microbics control panel begins flashing

3.2.1. Listen to see if the blower is operating.

- If not, make sure that the Bio-Microbics blower switch is turned on. After the switch is turned on the alarm will continue to sound and/or flash for 15 seconds.
• If the Bio-Microbics switch is on and the blower is not operating, it may be because the timer is at an “off” portion of its cycle. See the section on the timer, or check the blower a short time later when the timer is scheduled to have it operating.

• If the blower is not operating when it should be, proceed to Section 2.1 for procedures on cleaning the inside of the blower housing.

• If the blower is operating and the alarm still sounds or flashes, call your service representative (there may be a fault in your blower motor control).

3.3. The UV lamp alarm sounding or beacon illuminating

**NOTICE!!** UV light can cause skin and eye damage! Use caution when working around ultra-violet (UV) light. Avoid looking directly at the UV bulb when it is turned on. Briefly look only in the general direction of the UV bulb to determine if it is operating. The power source should be disconnected and extreme caution should be used when servicing the unit.

3.3.1. Remove the access cover for UV disinfecter control panel.

3.3.2. Silence the alarm by pushing the run switch to MUTE.

3.3.3. With power applied to the UV control panel, inspect to see if the UV bulb is operating. You should see a blue glow when looking in the general direction of the area where you access the UV bulb to clean and change it.

  • If not, proceed to step 3.4

  • If so, contact your service representative
3.3.4. Disconnect the power to the UV control panel.

3.3.5. Inspect the connection of the power/sensor cable to the UV light bulb. Ensure that the bulb is plugged in. Check for any corrosion in the connector body and if present scrape or sand it out.

3.3.6. Clean the photo-eye that is in the upper UV bulb holding fixture.

3.3.7. Reinstall the UV bulb.

3.3.8. Reconnect power to the UV control panel and place the switch in the RUN position.

3.3.9. Inspect to see if the bulb glows and the visual and audible indicators stop.

![NOTICE!! UV light can cause skin and eye damage! Use caution when working around ultra-violet (UV) light. Avoid looking directly at the UV bulb when it is turned on. The power source should be disconnected and extreme caution should be used when servicing the unit.]

3.3.10. If the visual and audible indicators are still present, replace the bulb with a new one. Contact your service representative for replacement parts.
3.4. High water alarm sounding or beacon illuminating

3.4.1. Activate the silent/mute position on the alarm panel.

3.4.2. Check the electrical circuits for the effluent pump to see if the breakers have been tripped. If so, reset.

3.4.3. If the effluent pump begins pumping, you have achieved your objective. Monitor to see if the problem reoccurs.

3.4.4. If the effluent pump still does not work, remove the access cover to the effluent chamber.

3.4.5. If the water level is high in the effluent chamber, see the appropriate section under Heavy Maintenance.

3.5. Dosing siphon not functioning

3.5.1. Inspect the effluent line to ensure that it has no “dips” in the line.

3.5.2. If the effluent line has dips in it, adjust it so that it slopes uniformly away from the treatment unit

3.5.3. Open the access cover on the dosing siphon compartment. Look for the “bell” of the dosing siphon. This is a large round black object with concentric circles that form “steps” on its top. There will also be a U-shaped piece of PVC pipe exiting the top of the bell (see diagram below).
3.3.4. Using a piece of hose or small diameter pipe and a squeeze bulb (or some other method) bubble air under the bell until it is full of air and you see it begin to bubble up inside the dosing compartment from underneath the bell.

3.5.5. You have now re-primed the dosing siphon and it will either trigger a dosing cycle or it will begin to build up enough water to trigger a cycle later.

4. Heavy Maintenance

4.1. Effluent pump removal and reinstallation

4.1.1. Disconnect the electrical source before servicing.

4.1.2. Remove the blower base to access the effluent pump compartment.

4.1.3. Pump out the excess effluent so that the water level is at a workable height.

4.1.4. Remove the pump slip plate by grasping the provided handle, disconnect electrical wiring (paying special attention to the location of the float switches), and remove the pump.

4.1.5. Replace or repair the pump as necessary.

4.1.6. Reinstall the pump in reverse order of removal paying special attention to the location of the float switches.
4.1.7. Reinstall the access cover.

4.2. Blower removal and reinstallation

4.2.1. Disconnect the electrical source before servicing.

4.2.2. Remove the access cover to the blower compartment.

4.2.3. Disconnect the airlines to and from the blower.

4.2.4. Remove the blower mounting hardware.

4.2.5. Disconnect the electrical connection to the blower.

4.2.6. Remove the blower and repair or replace as necessary.

4.2.7. Reinstall the blower in the reverse order paying special attention to the electrical connections.

5. Replacement Parts

5.1. UV Bulb
Follow the operation and maintenance instructions for cleaning the UV bulb every 3 to 4 months. Replacement UV bulbs are available from Lifewater Engineering Company or directly from the manufacturer:

UV "The Disinfector", Inc. 1-877-770-1500
P.O. Box 203 www.onsitewtc.com
Puyallup, WA 98371 onsitewtc@aol.com

5.2. Return Air Filter Element
Tuffy® cleaning pads are used as return air filter elements. Typically, a handle consisting of a plastic wire tie is placed on the cleaning pad to facilitate its removal. Replacement cleaning pads with wire ties are available from Lifewater Engineering Company, or you may purchase cleaning pads at your local supermarket or convenience store. Please use only plastic Tuffy®
pads exactly like the original ones used in your system because these have large openings for air passage.

5.3. Fresh Air Filter Element
Fresh air filter elements can normally be cleaned and reused. If needed, a replacement fresh air filter element is available from Lifewater Engineering Company.

5.4. Blower
Follow the operation and maintenance instructions for cleaning the blower housing every 3 to 4 months. If needed, a replacement blower is available from Lifewater Engineering Company.
PROJECT NAME: Point Lay Condemned Multifamily Housing Redevelopment

LOCATION:

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 08-New 2
TYPE: NEW
AMOUNT REQUESTED: $600,000

DATE SUBMITTED: 2/23/2021
AMOUNT RECOMMENDED:

REQUESTING ENTITY: Tagjigu’miullu Nunamiullu Housing Authority

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Tagjigu’miullu Nunamiullu Housing Authority
2. PROJECT NAME: Point Lay Condemned Housing Redevelopment
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

As the tribally designated housing entity for Point Lay, TNHA applied to HUD on 12/10/20 for $4.3M to relieve the distress of 27 tribal members (including 15 minors) who are unlawfully sheltering in 3 unsafe, unsanitary, condemned structures owned by Cully Corporation; these individuals constitute approximately 10% of the village population. The structures were previously parts of a BIA schoolhouse converted into residential housing. In May 2020, TNHA approached Cully and negotiated terms for acquisition, demolition, and development of new housing, contingent on project funding. TNHA has obtained stamped plans for a duplex that meets Alaska building energy-efficiency standards and envisions constructing 3 such buildings on the property. The use of structurally insulated panels will permit fast assembly by locally hired residents under TNHA direction. This would add 6 new 3-bedroom housing units to the village, each capable of housing a family of 6, to serve up to 36 individuals total. TNHA requests a commitment of in-kind and capital improvement support from the NSB to demolish the existing structures and clear debris, provide fill material to repair the site grade, and make heavy equipment available. Housing construction costs in Point Lay per square foot exceed all other villages in the region, and the NSB’s strategic assistance will ensure TNHA can focus the tribe’s limited HUD dollars toward constructing the best quality housing possible. The new rental units will be owned by NVPL with ongoing administrative and property management support from THNA.

4. PROJECT LOCATION:

Point Lay: Block 7 Lot 2A (426-434 Ugruk St)
PROJECT NAME: Point Lay Condemned Multifamily Housing Redevelopment

LOCATION:

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$600,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Demolition and disposal, gravel pad and fill, heavy equipment</td>
<td>Estimate $50/CY x 5000 CY gravel; Estimate $350K demolition/disposal cost; Estimate $50K heavy equipment time/fuel</td>
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<tr>
<td>Administration (NSB project management)</td>
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<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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</tbody>
</table>

**TOTAL** $600,000

**TOTAL PROJECT COST (if different)** $4,295,898

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☒ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

Notification of award expected in April 2021; if tribe/TNHA gets the grant, occupants could potentially be relocated with demolition in fall 2021, pilings set over the winter, new construction next spring/summer

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate whether this project could be phased and over how many years.

Yes, demolition would occur first summer/fall with pilings set over winter and construction following summer

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

$350K for demolition first year, $250K for gravel fill and $50K for heavy equipment second year
PROJECT NAME: Point Lay Condemned Multifamily Housing Redevelopment

LOCATION:

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

Point Lay is the most extremely overcrowded village on the North Slope and 10% of its population resides in condemned housing on the project site. THNA is bringing million in federal funds to this extremely high-priority development project to effect a positive resolution.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Current resident, female, 33 years old, living with 4 minors: “This house is falling apart and is heavily damaged from the permafrost movement. The house walls are separating from the frame and the roof is loose from the frame as well. The floor is heavily sloped and has dry rot. The horizontal beams under the house are either bowed or not connected to the frame. There are heavy drafts that cold air comes through the gaps in the floor and wall which accumulates frost. Nails are popping out of the foundation frame. The cost of fuel for this home is $100 for 2 weeks. This is financially draining to the family and they are constantly trying to pay for heat. The drafts cause the family to get sick and catch colds. There is no running hot and cold water, no flush toilet, no bathtub or shower. We have an electric heater, stove and refrigerator. … [The home is] not fit for living, needs to be torn down.”

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will relieve an ongoing humanitarian emergency and dramatically expand the amount of safe, decent, affordable housing in the North Slope village where it is most desperately needed. It will not increase operating and maintenance costs to the NSB as it will be tribally owned and operated.

C. Indicate if this is a reoccurring upgrade or repair.

No - this is a one-time capital request

D. Detail outside funds being leveraged, if applicable.

TNHA applied to the FY2020 IHBG Competitive Grant in the maximum Total Development Cost (TDC) amount of $4,295,898 with authorization from Point Lay. The tribe is eligible for an additional $800K from a NAHASDA Title VI loan in 2022 once its current debt service is repaid. TNHA can also apply directly to AHFC for up to 20% of TDC in 2022, subject to funding availability.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

TNHA is not aware of a formal written warning but local tribal officials have repeatedly described the property as condemned. TNHA is not the property owner or the owner's agent.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

TNHA is not aware of an imminent structural failure documented by a licensed engineer but the condition of the foundation is generally known to be hazardous due to the age of the building and extreme permafrost subsidence.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

There is no running water or flush toilets in the structures and their foundations are at risk of collapse. See description and photos provided by TNHA staff during August 2020 site visit.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

The new housing will be tribally owned and operated with support from TNHA. Dramatically increased energy efficiency over existing structures may reduce NSB power cost subsidies consumed by the property.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date: Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

(1) IHBG Competitive Grant Narrative - Point Lay; (2) Architectural Plans for Duplex - Point Lay

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Griffin W. Hagle, Executive Director, Tağıuğmiullu Nunamiullu Housing Authority</th>
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<td>Signature:</td>
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<tr>
<td>Date:</td>
<td>02/16/2021</td>
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<tr>
<td>Department Director Name:</td>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
HUD Indian Housing Block Grant Competitive Grants Program
Redevelopment of Condemned Multifamily Housing in Point Lay, Alaska

Total Project: $ 4,306,721.00
Performance Period: 04/01/2021 - 03/31/2026 (60 mo)

Project Location: 426, 430, and 434 Ugruk Avenue, Point Lay, Alaska 99759

Griffin Hagle | Executive Director
Taiguqmiullu Nunamiullu Housing Authority
P.O. Box 409 Utqiaqvik, Alaska 99723
(907) 852-7150 | www.tnha.info
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RATING FACTOR 1: CAPACITY OF THE APPLICANT (20 points)

Subfactor 1.1. Managerial and Technical Staff (8 points)

Key staff who will plan, manage, and implement the project follow:

- Griffin Hagle (BA Environmental Journalism), Executive Director, TNHA

  Role: Mr. Hagle will serve as Program Director responsible for the overall planning, managing, and implementing of the project. He will execute grant agreements and contract documents, provide direction and oversight to the project team, manage public communications, provide updates to the Board of Commissioners, ensure all applicable laws, regulations, codes and reporting requirements are followed and coordinate progress reporting to HUD.

  Recent, Relevant Projects and Experience: As this project pertains to the demolition and construction of new energy-efficient affordable housing in the Arctic, Mr. Hagle has extensive, recent knowledge and experience relating to energy-efficient building principles:

  a. Management of the North Slope Borough (NSB) Weatherization Program (2016-2018) serving approximately 40 low-income homes, relevant to this project as we will require subject-matter expertise and hands-on experience with applied building science in the Arctic for the new homes to be constructed,

  b. Program Director of Native Village of Barrow/TNHA ICDBG grant for the 3-year (2019-2022) rehabilitation of a 29-unit multiplex built in 1977. The project will preserve safe, decent affordable rental housing in Utqiaġvik for decades to come. It is relevant to this project as the multiplex is undergoing a holistic renovation with the Arctic climate, energy efficiency, durability, and indoor environmental quality in mind, which will also be the case for this new housing construction effort in Point Lay.
c. Program Director of TNHA HUD Tribal Healthy Homes Production Grant for the mitigation of carbon monoxide risk by retrofitting the heating systems of 44 housing units across 4 North Slope villages (2020-2024) to improve combustion safety and efficiency, and reduce the risk of occupant exposure to carbon monoxide. It is relevant to this project as similar heating and mechanical systems will be installed in Point Lay.

Accomplishments: His tenacity for identifying needs and developing strategic approaches to comprehensive solutions is recognized by local tribal leaders, the borough and the State of Alaska. He is an ex officio member of the Cold Climate Housing Research Center board of directors for the Association of Alaska Housing Authorities and participated in the National Renewable Energy Laboratory’s 2019 Executive Energy Leadership Academy. He holds certifications from the Building Performance Institute and the Association of Energy Engineers.

Key Outcome: Mr. Hagle is personally responsible for improving the living conditions of over 150 homes on the Arctic Slope, directly affecting the lives of over 500 residents.

Supporting Documents:

- **Attachment A:** Table listing relevant TNHA projects, with news articles referenced.
- **Attachment B:** Letter of Recommendation for Mr. Griffin Hagle by Chris Dorsi, Habitat X, for participation in the National Renewable Energy Lab Leadership Academy, and
- **Attachment C:** Letter of Recommendation for Mr. Griffin Hagle by William Tracey, Sr.

- Aireen Amad-Antes (MBA, CPA), CFO/Deputy Director, TNHA

Role: Ms. Amad-Antes will serve this project as lead financial administrator, contract manager and human resource manager. She will be responsible for advertising employment
opportunities to tribal members, local crafts-men and women seeking to improve their discipline, while following Indian and Tribal preference as per 2 CFR 200 and 24 CFR 1000.

Recent, Relevant Projects and Experience: Ms. Amad's recent and relevant experience as per the objectives of this grant refer to her experience with managing federal budgets, human resource and logistical challenges of the arctic. Ms. Amad has attended training seminars on 2 CFR 200, NAHASDA Essentials, Project Implementation, Fiscal Management for Tribes, Audit Preparation, Indian Housing Law, IHP/APR, Procurement and Contracts and Self-Monitoring since joining TNHA in 2018. Her 20 years of experience in finance and accounting, which will guarantee that a grant of this size will be managed responsibly and that procurement and reporting, e.g., SF-425, will be done reliably. Her experience is relevant and imperative to this project as a talented, thorough and knowledgeable financial manager.

Accomplishments: Ms. Amad successfully deployed a secure online bill payment system for TNHA residents, who are mostly low-income tribal members, that eliminated debit card fees along with credit card merchant processing fees while enhancing payee convenience.

Key Outcome: Ms. Amad’s financial prowess and adoption of appropriate technology has saved TNHA tens of thousands of dollars annually while substantially improving monthly cash flow and making business operations more resilient to the effects of the pandemic.

- Erik Johnson (BSc ME), Project Manager, TNHA

Role: Mr. Johnson will serve as Project Engineer in charge of managing construction. Mr. Johnson has a BSc in Mechanical Engineering and over 20 years of experience in industrial manufacturing systems optimization and quality assurance/quality control. He manages TNHA’s Construction Services Division. He is highly skilled at cross-cultural professional communications and will be responsible for charting out the construction processes and
workflows, developing and managing budgets, forecasting schedules, coordinating teams and
issuing project updates. Mr. Johnson’s responsibilities will include the coordination of
environmental reviews, permits, architectural and engineering designs, estimates, procurement
and logistics strategies, quality control, and day-to-day oversight of TNHA’s construction crew.

**Recent, Relevant Projects and Experience:** Since joining TNHA in March 2019, Mr.
Johnson has been instrumental in all of TNHA's recent programs. Some key examples are:

a. Area-Wide HRV Upgrades and Boiler Tuning (2017-2020), where he supervised range
   hood exhaust upgrades for 18 homes and the installation of closed-loop boilers,
   Heat-Recovery Ventilators (HRV) and boiler combustion air source upgrades for 92
   homes. This work is relevant as similar air quality control systems and combustion safety
   measures are also slated for installation at the Point Lay duplexes.

b. Utqiaġvik Multifamily Housing Rehabilitation (2020-2022), where he is overseeing the
   physical upgrades to the 43-year-old 29-unit affordable housing multiplex. This is
   relevant as it involves structural, electrical, heating, plumbing, and energy systems
   improvements, with many skills and experiences transferable to this project.

**Accomplishments:** Mr. Johnson has made marked improvements to the health, safety
and quality of life of 110 homes mostly populated by low-income tribal members through
his mechanical design experience, planning and quality control processes addressing
indoor environmental quality, building energy efficiency, durability and resilience.

**Key Outcome:** Mr. Johnson has been essential in identifying key problems in Arctic
housing construction which have gone unattended for decades and in developing logically sound,
process-driven methods for addressing them, such as the installation of HRVs,
sealed-combustion boilers, integration of heat-and-power cogeneration units, and use of remote
sensors, which improve the quality of housing and conditions of life across the tribal communities of the North Slope.

- Craig Bell, Construction Superintendent, TNHA

**Role:** Mr. Bell will serve as construction superintendent for the project, and will manage the crew and see to the completion of daily tasks.

**Recent, Relevant Projects and Experience:** Mr. Bell is the longtime superintendent in charge of TNHA’s construction operations. He has over 20 years of residential and commercial carpentry and construction estimating experience in Arctic Alaska. He has led implementation of nearly all of the recent, relevant and successful TNHA projects listed in Attachment A.

**Accomplishments:** Mr. Bell led the construction of several dozen innovative Sustainable Northern Shelter homes designed by the Cold Climate Housing Research Centers in 6 Arctic Slope villages between 2010-2015, where he gained extensive building science theory and practical construction knowledge that TNHA will draw heavily upon in this project.

- Plan to Address Capacity Gaps

TNHA currently has three identified vacancies, for a carpenter, electrician, and plumber. The latter two trades require a State of Alaska fitness card. Skilled and credentialed tradespeople have become increasingly difficult to find and retain due to a nationwide shortage of qualified workers in construction industries, and adverse economic conditions in Alaska in recent years have exacerbated this. If this project is funded, TNHA will immediately prioritize the recruitment of another electrician and plumber, along with two more carpenters, endeavoring in all circumstances to give residents of the Arctic Slope foremost consideration in accordance with its Indian preference policy.
TNHA plans to fill gaps in administrative capacity by working with TRIBN, LLC, a local Alaska Native-owned consultancy with which it has enacted a planning, development and program management agreement. The founder and president of TRIBN, Lars Nelson, functions as a de facto development officer for TNHA. Mr. Nelson and Mr. Andreas Tziolas of TRIBN recently completed an area-wide housing needs assessment, which honed in on key Arctic issues, and are supporting TNHA on a number of program and grants administration objectives.

Subfactor 1.2. Procurement and Contract Management (3 points)

- General procurement standards at 2 CFR 200.318-326

**Governing Document:** Attachment D: TNHA Procurement Policies

**Implementation:** 2 CFR 200 (specifically the applicable requirements in 2 CFR 200.318-326) have been implemented in our Procurement Policies as per: General procurement standards (§I, p2); Methods of procurement (§II, p.4); Contracting with small and minority businesses (§V, p15), Indian preference requirements (§II.B, p4, §III.C, p12 and throughout), women’s enterprises, and labor surplus area firms (§II.B.2); Contract cost and price (§II.F, p9); Bonding requirements (§III.D, p12); and Contract provisions (§II.G, p10).

**Process:** Mr. Chris Roby is TNHA's Procurement and Logistics Coordinator, who coordinates all suppliers, vendors, consultants, contractors, materials and shipments involved in TNHA operations. Mr. Johnson, Project Manager, supervises Mr. Roby and advises on best practices. Mr. Hagle, Executive Director who approves the award of contracts and Ms. Amad, CFO, stipulates and verifies any regulatory and financial controls.

- Indian and tribal preference at 24 CFR 1000.48-1000.54

**Governing Document:** Attachment D: TNHA Procurement Policies
Implementation: 24 CFR 1000.48-1000.54  Indian preference and methods of procurement have been implemented in our Procurement Policies as per: Solicitation procedures (§I.C, p3), Protests (§IV.D, p15), Indian preference requirements (§V.C, p16).

Process: TNHA maintains a Qualified Bidder's List of Indian supply sources to whom requests for proposals (RFPs) are sent, and requires that all contractors agree to provide Indian preference in subcontracting, training and employment, and shall specify the method used. When no quotations are received from Indian-owned enterprises, the reasons for lack of Indian participation are documented. In addition, TNHA, as the regional housing authority of the North Slope, maintains a pool of laborers and advertises new project funding in each of the villages in its service area, where all efforts are made to offer such employment to tribal members.

- Conflict of interest at 24 CFR 1000.30.

Governing Document: Attachment D: TNHA Procurement Policies

Implementation: 24 CFR 1000.30, conflict of interest clauses have been implemented in our procurement policies as per: Ethics in Public Contracting (§VI, p.17), conflicts of interest preventing employees, officers, family members or relatives from participating in bidding.

Process: Requests for information, quotations and bids are accompanied by a signed declaration where potential conflicts of interest are itemized and incorporated with the bid at the time of submission. Enterprises who are included in the Qualified Bidders List are reviewed by Mr. Roby, Procurement Officer for conflicts. Any emergent or identified conflicts of interest are brought to the Deputy and Executive Directors for resolution.
Subfactor 1.3. IHBG Expenditures (3 points)

Currently invested IHBG grant funds: TNHA has no undisbursed IHBG formula funds currently held in LOCCS. As of Q1 FY 20-21, current IHBG funds invested is $6,974,174.

Investment Securities: Funds are invested in money market and certificate of deposit accounts. Certificate of deposit accounts are FDIC insured to $250K. IHBG needs allocations are not invested as they are utilized for lump sum payments of Title VI loan principal each year.

Plan for Spending IHBG funds on Affordable Housing: As outlined in our FY20 IHP, Section 3: Program activities, TNHA conducts a wide range of affordable housing activities aimed at assisting eligible Alaska Native/American Indian families. We will be maintaining, rehabilitating and modernizing 1937 Act and NAHASDA units for low-income and affordable homes. We will continue to provide occupancy, counseling, and ownership support services to program participants. Properties and land are hard to come by, but we dedicate time and efforts to identify new projects for construction of either rental or homeownership units across the villages in the TNHA service area. We are working closely with the North Slope Borough and the Native Village of Barrow to acquire and/or develop a ten- to twelve-unit multiplex to address homelessness and transitional housing for displaced families. We are conducting an area-wide housing needs assessment to acquire first hand occupancy, family status, housing condition, utility cost and employment data form which we characterize over crowding, housing needs and address gaps to be used in developing a plan for addressing the housing crisis.

Supporting Document: Attachment F. FY20 IHP Affordable Housing Projects, lists only the affordable housing projects summarized above.
Subfactor 1.4. Findings (3 points)

No Single Audit findings noted. Auditor unqualified opinion on TNHA financial statement FY18-19. The FY19-20 audit is still in progress.

Subfactor 1.5. Timely Reporting (3 points)

The FY18-19 APR was filed timely on September 30, 2019 with confirmation of receipt by HUD. The FY19-20 APR will be filed before the extended deadline of December 31, 2020.

RATING FACTOR 2: NEED/EXTENT OF THE PROBLEM (25 POINTS)

Subfactor 2.1. Identified Needs and Other Supporting Data (9 points)

Subfactor 2.1.a Identified Needs (6 points)

Need Factors Identified as Relevant to the Proposed Project: The rate of overcrowding in Point Lay is 73.1%, the highest in the North Slope and surely among the highest in the United States. It is in fact so high that it confounds cost burden and AMI-based needs analysis calculations, so we will focus on the fundamental housing need markers: population, housing stock, and overcrowding, which are indeed the target metrics of our project.

An acute shortage of safe, sanitary, and affordable housing continues to plague the 6 communities in TNHA’s formula service area, but this need is unambiguously exceptional in Point Lay. To place it in perspective using ACS data, 35.5% of the service area’s severely overcrowded homes are in Point Lay, though it has only 13.7% of the area’s total occupied homes. According to the 2018 Alaska Housing Assessment, the overall rate of overcrowding in the North Slope Borough census area, which includes Point Lay, is nearly 4 times the state average and 8 times the rate in the United States at 27%. This rate ranges from a low of 22.8% in

1 https://live.laborstats.alaska.gov/cen/acsarea.cfm and https://data.census.gov/cedsci/all?q=point%20lay,%20alaska
Kaktovik to the stunning high of 73.1% in Point Lay, which is also the only village where the rate of severe overcrowding (40.3%) relative to overcrowding (32.8%) is inverted.

ACS Housing and Utility Availability data from 2012-2016 across TNHA villages

<table>
<thead>
<tr>
<th></th>
<th>Anaktuvuk P</th>
<th>Atqasuk</th>
<th>Kaktovik</th>
<th>Nuiqsut</th>
<th>Point Lay</th>
<th>Wainwright</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>% of</td>
<td>No.</td>
<td>% of</td>
<td>No.</td>
<td>% of</td>
</tr>
<tr>
<td><strong>BASIC UTILITIES</strong></td>
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<td>Occupied housing units</td>
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<td>47</td>
<td>57</td>
<td>105</td>
<td>67</td>
<td>134</td>
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<tr>
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<td>12</td>
<td>15.40%</td>
<td>7</td>
<td>14.90%</td>
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<td>14.10%</td>
<td>4</td>
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<tr>
<td>No telephone service</td>
<td>7</td>
<td>9.00%</td>
<td>1</td>
<td>2.10%</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Lacking Complete K&amp;P</td>
<td>29.50%</td>
<td>23.40%</td>
<td>19.30%</td>
<td>24.80%</td>
<td>97.00%</td>
<td>30.60%</td>
</tr>
<tr>
<td><strong>OCCUPANTS PER ROOM</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Occupied housing units</td>
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<td>78</td>
<td>47</td>
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<td>57</td>
</tr>
<tr>
<td>1.00 or less</td>
<td>48</td>
<td>61.50%</td>
<td>30</td>
<td>63.80%</td>
<td>44</td>
<td>77.20%</td>
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<td>1.01 to 1.50</td>
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<td>9</td>
<td>19.10%</td>
<td>10</td>
<td>17.50%</td>
</tr>
<tr>
<td>1.51 or more</td>
<td>8</td>
<td>10.30%</td>
<td>8</td>
<td>17.00%</td>
<td>3</td>
<td>5.30%</td>
</tr>
<tr>
<td>Total Overcrowding &gt; 1.00</td>
<td>38.50%</td>
<td>36.10%</td>
<td>22.80%</td>
<td>46.70%</td>
<td>73.10%</td>
<td>29.90%</td>
</tr>
</tbody>
</table>

Complex land ownership issues, local political disputes, the high cost of infrastructure, the remoteness of the village, severity of its climate, and disparate exposure to the impacts of global warming on its terrestrial processes (chiefly the dramatic subsidence of permafrost) are obstacles to improving the quality and amount of housing in Point Lay. The risk posed to housing and community infrastructure there by widespread thawing of ice-rich soils is the focus of a five-year comprehensive research program funded by the National Science Foundation.²

At a field hearing of the U.S. Senate Committee on Indian Affairs in August 2018, Alaska Senator Lisa Murkowski emphasized that overcrowding in rural Alaska “is often the

² [https://www.geobotany.uaf.edu/nna/index.php](https://www.geobotany.uaf.edu/nna/index.php)
expression of what is actually homelessness, with families taking in relatives or community members who otherwise could not find affordable housing options. It is not uncommon for a household in rural Alaska to have multiple generations or multiple families living in them.” Few communities epitomize this shockingly bad situation more vividly than Point Lay.

The lack of complete kitchen or plumbing facilities in nearly all (97%) percent of Point Lay homes is a sanitation deficiency that compounds the underlying problem of overcrowding and abets the greatest public health threat the United States has faced in a century. Compare this to a lack of complete kitchen or plumbing facilities in just 1.2% of American households overall. None of the existing structures on the project site have hot or cold running water, flush toilets, showers, or bathtubs. This project proposes to demolish these three condemned properties, and to construct three energy-efficient 3-bedroom duplex units with basic modern amenities. The properties are currently being unlawfully occupied by local residents, at great risk to themselves and their families, which will be discussed in further detail in Subfactor 2.2.

To summarize:

- **AIAN households which are overcrowded or without kitchen or plumbing:** This project will create new safe, sanitary, and affordable housing opportunities for approximately 36 village residents in 6 households (three 3-bedroom duplexes). We will also increase the availability of kitchen and plumbing facilities by the same amount, and establish best practices, as this has been a challenge in the village due to aging and unreliable utility connections. These are both the highest critical items needed in the village.

- **Housing Shortage in its formula area:** This project will increase the availability of new safe and affordable housing by 1%, while also removing a hazardous structure which has become occupied by homeless and desperate families with children (Attachment K). This
property has been the center of much strife between the Native Village of Point Lay, the
tribal government, and Cully, Alaska Native Village Corporation, because the ownership and
responsibility for bringing the structures on it to resolution has been deemed too expensive
and logistically intractable. As the regional housing authority, TNHA is mobilizing to bring
together all tribal stakeholders to resolve the matter through this new affordable housing
development effort, which will help pave the path to future housing developments in Point
Lay by modeling the efficacy of a functional trilateral partnership.

- **Number of AIAN persons in its formula area:** Point Lay has a 283 population of which
267 (94.35%) are tribal members\(^3\). The per capita income for the CDP was $18,003. About
11.4% of families and 7.4% of the population were below the poverty line, including 8.1% of
those under the age of 18 and none of those 65 or over\(^4\). According to US Census Data
(Attachment J) the village population increased by 33% in the last decade from 189 (2010)
to 251 (2018), which adds additional pressure to the need for new housing.

There are currently 27 unlawful occupants occupying these buildings (Attachment K),
which has been a pain point in negotiations between the tribe and village corporation. THNA is
able to provide some assistance with relocation to move this project forward by offering housing
placement in its Utqiagvik public rental units or subsidy of other private housing through its
existing programs. TNHA is also in discussion with the NSB about temporary use of its 10-bed
itinerant worker housing and/or a new 8-unit multifamily public housing complex to be
developed by the NSB in Point Lay in the summer/fall of 2021. TNHA is also seeking legal
advice and will consult with HUD upon award on our options to extend services to these families

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\(^3\) Native Village of Point Lay tribal enrollment records, July 2020.
\(^4\) [https://www.census.gov/programs-surveys/decennial-census/decade.html](https://www.census.gov/programs-surveys/decennial-census/decade.html)
as they pertain to the 1966 Relocation Act and Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.

TNHA conducted a highly successful comprehensive Housing Needs Assessment\(^5\) in June through November 2020\(^6\), which provided TNHA with a deep set of data from 35% of all households in Point Lay. During this survey, we collected information from the current unlawful occupants and informed them of the plan ahead, for which they are grateful (See Subfactor 2.2).

Furthermore, the data collected from the Needs Assessment will drive the TNHA North Slope Master Housing Plan 2050, a comprehensive strategy for novel activities that utilize modern construction technologies and innovation from the housing industry within the Arctic environment, where permafrost degradation, costs of operation, and rural logistics challenges have long stymied the progress of development. Identifying land acquisition for new construction and properties for renovation across the entire Arctic Slope are also key objectives. This project in Point Lay is integral to them. Our strategy is to analyze and address the greatest needs with concrete actions tailored for the scope of the problem, from which we will develop further experience and knowledge to be carried to other projects across the Arctic Slope.

Subfactor 2.1.b. Other Supporting Data (up to 3 points)

**Supporting Documents:**

- **Attachment G:** Point Lay ACS Housing Data (2012-2016)
- **Attachment H:** 2018 Alaska Housing Assessment, NSB Summary
- **Attachment I:** NSB Comprehensive Plan 2019-2039 (Chapter 11 Housing)
- **Attachment J:** US Census Population Data 2010 and 2018
- **Attachment K:** List of Unlawful Occupants

\(^5\) [http://www.thearcticsounder.com/article/2045tnha_housing_survey_offers_100_gift_cards_to](http://www.thearcticsounder.com/article/2045tnha_housing_survey_offers_100_gift_cards_to)

Subfactor 2.2. Project Beneficiaries (3 points)

The demolition and construction of three new 3-bedroom duplexes will provide the first opportunity in nearly a decade for low-income families in Point Lay to benefit from new affordable housing. The 6 new units will be managed for the tribe by TNHA, which has appropriate Eligibility, Admissions and Occupancy policies in place for eligible families (Attachment L) and administrative capacity to ensure the initiation of a successful affordable rental housing program. In total, 6 families will be assisted. To the extent possible, unit size standards shall be satisfied when selecting families for admission in accordance with TNHA’s board-approved applicant selection policy. These standards generally require that no fewer than 6 persons occupy a 3-bedroom unit. Thus, barring permissible exceptions for practical matters of household composition, this multi-unit development will provide housing for at least 36 individuals, a 33% increase over the capacity of the current structures. Four of the 6 separate families currently sheltering unlawfully at the project site are low-income, composed of between 5 and 7 individuals, and presumptive ideal candidates for transfer into the new 3-bedroom units.

Eligible families will be identified as low- to very-low-income families with children, who can best make use of the new units. As this will be a highly visible new development in Point Lay, it is sure to stir excitement and be very popular locally. However, TNHA will advertise and hold workshops on the housing certification process well in advance of construction to assure the opportunity is extended to everyone fairly. TNHA reserves the right to delegate authority for final selection of eligible applicants from its waitlist to the Tribal Council of the Native Village of Point Lay, in accordance with NAHASDA and its housing policies.
TNHA does not maintain an active waiting list for Point Lay because there have not been any recent housing opportunities available. However, upon receipt of project funding, it will activate its suspended waitlist, first contacting all prior applicants who were in good standing (application materials complete and updated) at the time of suspension, and whose households meet the unit occupancy standards, and then accept new applications from eligible low-income families. Policies are in place for this and can be deployed very quickly.

TNHA’s commissioner for Point Lay helped interview the current unlawful occupants to inform them of the plans to redevelop the properties and collected their information for future inclusion in the housing programs. There are currently 27 unlawful occupants occupying these buildings (Male: 14, Female: 13, Adults: 12, Minors: 15, Total: 27 (Attachment K). During the interview and survey, one occupant offered this chilling insight into the living conditions there:

Female, 33 years old, living with 4 minors: "[The cost of the housing is] free at your own risk of living there, [in a] previous school district building. This house is falling apart and is heavily damaged from the permafrost movement. The house walls are separating from the frame and the roof is loose from the frame as well. The floor is heavily sloped and has dry rot. The horizontal beams under the house are either bowed or not connected to the frame. There are heavy drafts that cold air comes through the gaps in the floor and wall which accumulates frost. Nails are popping out of the foundation frame. The cost of fuel for this home is $100 for two weeks. This is financially draining to the family and they are constantly trying to pay for heat. The drafts cause the family to get sick and catch colds. There is no running hot and cold water, no flush toilet, no bathtub or shower. We have an electric heater, stove and refrigerator. … [The home is] not fit for living, needs to be torn down."

Supporting Documents:

- **Attachment K**: List of Unlawful Occupants
- **Attachment L**: THNA Admissions and Occupancy Policies (Low Rent)
Subfactor 2.3. Past Efforts to Address Identified Need (3 points)

Why the timing is perfect: The IHBG Competitive Grants Program provides an opportunity for new development funding on a scale that would otherwise only be accessible to a community like Point Lay through a Title VI Loan Guarantee. Point Lay cannot access the full benefit of this option as its IHBG needs allocation remains pledged to retirement of existing Title VI debt through 2022. Also, particularly in terms of relocation logistics, there has never been a more opportune time to pursue this project, as the NSB intends to complete and open its own multifamily public rental housing development in Point Lay in summer/fall 2021, to contain 8 smaller units. TNHA has recently been in discussion with the NSB Mayor’s Office, and they are open to the possibility of temporarily housing the current unlawful occupants of the condemned structures during demolition, some of whom may in fact have qualified for residency in the NSB 8-plex. The time-sensitive and serendipitous nature of this opportunity obliges all parties to come together after protracted years of dispute and act swiftly with clarity of purpose. While differences in perspective are sure to remain between the tribe and corporation, we look forward to at last lifting the cloud of doubt that anyone will help the village address this concern.

Concerning the submission of similar projects: TNHA actively pursued a similar project under the previous issuance of this NOFA, for the construction of 2 homes per village in the 6 villages across its service area to help alleviate housing need. TNHA is constantly looking for opportunities for new construction, while building our force account crew capacity with various modernization, energy, and indoor environmental quality upgrades (Attachment A).

Barriers to Implementation: The most significant legal and administrative barrier to this project has been overcome through mutually negotiated terms for site acquisition with the property owner, Cully Corporation, which has insisted that the execution of an agreement is
contingent on project funding. Public opinion and, as a last resort, legal pressure, are available to TNHA to ensure the landowner delivers in good faith on its pre-negotiated obligations once an award has been made: the fact that 6 extremely vulnerable families, representing 10 percent of the community population, have for years been allowed by the property owner to shelter in three condemned, unsanitary, and uninsurable structures originally built in the 1970s as school buildings is deplorable by any objective analysis of the situation.

The NSB public works department will carry out the demolition, otherwise certain to add hundreds of thousands of dollars of cost and delay to the project, as a solid waste disposal service to the community, and to TNHA has the authority, expertise and capability to carry out the project from there. Given the entanglement of interests on this project, the commonly agreed upon strategy for overcoming any possible future barriers is to negotiate through TNHA, whose board represents all villages in the Arctic Slope region, and which has access to expert legal counsel when negotiations need to be legally articulated.

Logistical barriers are always a concern in the Arctic. Obstacles and delays involving, for example the delivery of materials and equipment at the jobsite, mobilization delays due to sea-ice bargeing times and securing skilled workers are overcome by long planning periods and coordination with the local partners.

**Subfactor 2.4. Sustainability (5 points)**

**This Project in the Context of Comprehensive Plan to address Housing Conditions:** TNHA extends best efforts to identify and comprehensively address housing needs through its IHP objectives. A consequence of the completion of the TNHA Needs Assessment is a
significantly greater understanding of the pain points across its service area, which has motivated the TNHA North Slope Master Housing Plan 2050.

The Master Housing Plan, currently under development, addresses the need to remove or improve on obstacles, such as the cost of shipping housing materials by soliciting assistance from the US military and the major oil and gas companies that operate in Prudhoe Bay, and the training of large numbers of local workers, carpenters, plumbers, electricians and project managers to combat poverty, unemployment, and spur economic activity. It also takes a fresh look at the use of advanced materials and products, smart homes, building codes and standards, clean energy and microgrids, the nexus of homes and infrastructure, Passive House-inspired designs, permafrost thaw and environmental monitoring. While this duplex construction project will be more conventional, the duplexes will contain a number of precursor energy-efficiency, indoor environmental quality and safety measures we look forward to implementing.

**Plans to Operate and Maintain the Project upon Completion:** On completion, THNA will manage and operate the buildings for the Tribe as part of its affordable housing inventory in accordance with Section 205(a) of NAHASDA and its adopted policies for the useful life of the property. Maintenance and upgrades will be performed using IHBG funds for normal maintenance and TNHA will extend rental assistance and counseling services to occupants for as long as it satisfies the Tribe.

The current funding request are sufficient to bring the project to a successful completion. This project aligns with and furthers TNHA's goals in implementing its IHBG program as outlined in its IHP, as per the Acquisition of Land for Rentals and the provision of Housing Services for occupancy and program services for current and prospective participants in TNHA housing programs.
Subfactor 2.5. New and Previously Unfunded Applicants (5 point)

Neither TNHA nor the Native Village of Point Lay received an IHBG Competitive Grant under the FY 2018/2019 NOFA.

RATING FACTOR 3: SOUNDNESS OF APPROACH (40 points)

Subfactor 3.1. IHBG Competitive Priorities (10 points)

We are proposing to use 100% of the funds awarded under this NOFA to carry out a new housing construction project at Point Lay, the most overcrowded village on the North Slope. This project increases the total number of safe, sanitary, and affordable housing units in the village by 6 and will provide affordable rental housing for at least 36 individuals, a 33% increase over the capacity of the current structures.

Subfactor 3.2. Project Implementation Plan (10 points)

Description of how the project is feasible and cost-effective: The TNHA team provided cost estimates for construction of the three duplexes, based on a number of previous projects and recent quotations received from vendors for building materials and equipment.

<table>
<thead>
<tr>
<th>TRIBAL AREA</th>
<th>1BDRM</th>
<th>2BDRM</th>
<th>3BDRM</th>
<th>4BDRM</th>
<th>5BDRM</th>
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</thead>
<tbody>
<tr>
<td>Point Lay</td>
<td>$ 573,913</td>
<td>$ 633,907</td>
<td>$ 715,983</td>
<td>$ 775,981</td>
<td>$ 837,476</td>
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</table>

The development team consulted with the NSB, which is currently constructing an 8-plex in Point Lay, to determine timelines for the project Implementation Schedule. We were able to

use their shipping schedules to estimate the costs and timelines for shipping of our materials and assumed the use of virtually identical equipment and team mobilizing plan to Point Lay. Therefore, following in the footsteps of the existing NSB 8-plex project underway in Point Lay, we are able to confidently state that our project is feasible.

The final estimated project budget was found to be very close to the Total Development Costs of $715,983 per home in Point Lay. Our Total Development Cost was 6 x $ 715,469.13, delta of $513.87. Therefore our project is also cost-effective.

**Rationale behind the project design:** The project sought out to create affordable housing for families with children fitting the characteristics of the most common families in the North Slope, which have two to three children. Most homes in the North Slope are single family homes (Attachment I, Table 30), and there are notably no duplexes in Point Lay. We therefore decided to focus on duplexes given the cost savings afforded by multiplex designs, with the modest increase in the density of homes in villages. After an initial scoping of the parcel dimensions and existing structures (Attachment N), we determined that three duplexes would fit providing sufficient setback and separation between the homes. An utility easement which crosses through half the land was confirmed by the NSB to be vacated and will be moved during demolition (Attachment O, page 2).

The homes will be constructed on pilings as with most homes in the arctic to protect the tundra and permafrost. The floorplans are modern and flexible having arctic entries, three bedrooms, laundry, mechanical room, bathroom and large kitchen-living rooms, which would be homey, attractive and functional for most families (Attachment O, page 3). Modifications to the size of the entryways and bedrooms will be made to allow for wheelchair access.
Location of the project (e.g., include a map, address and/or aerial photo), site control of the location, and whether the units are on fee-simple or trust land:

- Parcel contains 45,000 sqft of land, additional parcel info can be found on Attachment N.
- Location Map can be found on Attachment P.
- Project Address is 426, 430, and 434 Ugruk Avenue, Point Lay, Alaska 99759
- Aerial Photo can be found on Attachment P.
- Site Control of the location is with Cully Corp.
- Units are on Trust Land, owned by an ANCSA Village Corporation.

Description of how the applicant will train and/or employ residents pursuant to Section 3: The project will be performed using TNHAs' force account crew, however jobs will be offered to low-income community members, especially current occupants in shelter at the project site. TNHA also has a list of local low-income homebuyers who can be offered jobs.

Description of how the applicant will comply with Indian Preference requirements and resolving conflicts between Section 3 and Indian Preference requirements: Normal procurement methods apply, as our policies comply fully with Indian preference as well as Section 3 low-income job offers. In the extremely unlikely situation where there is a conflict and where the qualifications and level of workmanship are equivalent, the decision will be made by the Executive Director who is tasked with conflict resolution.

Infrastructure Projects: This is not an infrastructure project, as described.

Affordability Period: The affordability period which the dwelling will remain available to IHBG-eligible families for its remaining useful life in accordance to Section 205 of NAHASDA will be 20 years.
Description of estimated cost savings (in percentage or dollar amount) resulting from either the building design, construction methods, or energy efficient measures that will be realized in future years: TNHA expects energy costs to be at least 50 percent lower than the existing condemned structures. The duplex design uses structural insulated panels (SIPs) with an R-44 polyurethane foam core that facilitate speedy construction and reduce air leakage and thermal bridging across the building envelope. The Alaska-based manufacturer, R-Valued Homes, previously supplied TNHA with a package for a SIP home in Utqiagvik completed in 2015. That home achieved a 6-star energy rating from a third-party inspection, with projected annual energy costs of $1,499. In 2018, its actual annual energy cost (natural gas and gas-fired electricity) was $1,550, less than a 4 percent variance. TNHA confidence in its ability to construct an energy-efficient structure is thus based on recent and real-world experience.

Size and number of units: There will be three, 3 bedroom duplexes constructed. All structures will be identical. The exterior dimensions of the units will be 54' x 48'. Each unit will have 1,333 sq.ft of living space with 155 sq.ft utility area. (Attachment O).

Type of units: Multi-family units, duplexes having three bedrooms each.

Subfactor 3.3. Project Implementation Schedule and Project Readiness (10 pt)

Tasks and Timelines:

- 4/1/2021 - 6/30/2021: Program Director and TRIBN administrative support contractors will complete the Environmental Review (currently underway 50% complete), land acquisition (term sheet has been negotiated to be signed upon award, 90% complete) and secure permits from the NSB planning department, to include demolition, public works and environmental
assessment (starts immediately after award). TNHA negotiates terms of occupant relocation with NSB to the new NSB 8-plex property.

- 7/1/2021 - 8/30/2021: TRIBN Administrative and Grants Support contractors will execute the grant award. TNHA and TRIBN admin support staff, design and execute the plan for safe relocation of the unlawful occupants to the NSB 8-plex. Occupant relocation begins.

- 9/1/2021 - 12/31/2021: TNHA secures site control and NSB demolition work begins on condemned structures that have been vacated. Vacated utility easement is relocated.

- 1/1/2022 - 3/31/2022: Demolition complete. NSB Auger is transported to the site. Pilings are placed in frozen ground.

- 1/1/2022 - 6/30/2022: Architectural and engineering designs are completed. Building packages are procured by the Construction Manager. TNHA HR begins advertising jobs.

- 7/1/2022 - 8/30/2022: Building packages are delivered. Delivery by barge in August. Building packages are shipped in containers. Lay-down location is established. Supervised by Program Director and TRIBN.

- 9/1/2022 - 10/30/2022: Construction Project Manager and Crew begin Framing and Dry-in of New Structures. Security measures in place at the job site. Order mechanical equipment, kitchens, baths and trim. TNHA team begins identifying/soliciting renters.


- 04/1/2023 - 06/30/2023: Construction Project Manager supervises Inspections and Move-in.

- Final Grant Closeout and Financial Reporting by TRIBN Grants staff/Finance Director.
Key milestones already completed (or completed by the time of award):

- Environmental review is 50% complete and will be finished before the grant award. TNHA has contracted Environmental Specialists who are working on this already.
- Architectural Designs for the duplexes at 35% and progressing quickly. TNHA intends to use these plans as the basic framework for similar new constructions at other villages. Will be complete before the award is made.
- Procurement of project management, grants and admin support staff has already been completed (TRIBN LLC)
- The land purchase costs will be allocated on award and signing of final agreements with the Tribe and Village Corporation.
- Coordination efforts with the community have already been completed via TNHA Needs Assessment Survey and specific survey "taskforce" sent to Point Lay to collect survey data from the sheltering occupants and other community tribal members.

Identify key milestones that will begin immediately upon receipt of this IHBG Grant:

- Site access will follow agreement of terms by the Tribe and Cully Corp, upon award. Land lease/sale of property happens simultaneously with the agreement of terms.
- Negotiation of Occupant Relocation with NSB to their new 8-plex will begin once the 8-plex is complete and the award has been made. This was verbally discussed as a good and opportune idea, however we have not discussed how long they will stay there.
- Demolition timeline and access to the auger which places the pilings needs to be planned immediately, as they are highly sought out equipment. We are told the equipment is already at Point Lay and used on the 8-plex. We need to verify this and make sure they
are not shipped to another village. Possibly move up the timeline for demolition and placement of pilings by 6 months to accommodate the NSB.

**Subfactor 3.4. Budget (10 points)**

See Cost Summary (HUD-53246), SF-425 and Budget Narrative for details.

<table>
<thead>
<tr>
<th>Total Budget</th>
<th>Project Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel</td>
<td>$1,554,181.20</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>$ - .00</td>
</tr>
<tr>
<td>Travel</td>
<td>$55,680.00</td>
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<tr>
<td>Equipment</td>
<td>$40,000.00</td>
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<td>Supplies</td>
<td>$1,651,776.00</td>
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<tr>
<td>Contractual</td>
<td>$125,000.00</td>
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<tr>
<td>Other</td>
<td>$866,177.60</td>
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<tr>
<td>Indirect</td>
<td>$ - .00</td>
</tr>
<tr>
<td><strong>Total Project</strong></td>
<td><strong>$4,292,814.80</strong></td>
</tr>
</tbody>
</table>

* The TDC are addressed in Subfactor 3.2 are within the limits established by PIH-2019-19.

**RATING FACTOR 4: LEVERAGING RESOURCES (5 POINTS)**

We would be more than able to provide matching resources of up to $1M for this desperate need, however this increased the TDC, and we want this development to remain as affordable housing.

**RATING FACTOR 5: COMPREHENSIVENESS AND COORDINATION (10 POINTS)**

**Subfactor 5.1. Coordination (7 points)**

The need for new housing in Point Lay has been one of the highest priority objectives for many stakeholders in the North Slope, including the North Slope Borough as the municipality
supervising heavy equipment, fuel and utilities, TNHA as the regional housing authority, Cully Corp as the local landowner and the Native Village of Point Lay as tribal government.

As such, there are many levels of coordination amongst stakeholders:

- Cully Corp will lease the land to the Tribe and authorize the demolition and sell the land to the Tribe or TNHA once the new construction effort has been completed. Parcel information was provided as part of the negotiation of terms (Attachment N).

- The Tribe requested TNHA conduct a needs assessment to determine what type of development would fulfill the most need, which resulted in the plan to build three duplexes. TNHA has preliminary designs for the three duplexes to be placed on the property, which will be iterated with the tribe and local community for review (Attachment O). TNHA was also tasked with coordinating the acquisition of grant funds, through this proposal and in serving as Project Developer for the tribe.

- TNHA will be coordinating the relocation of current occupants with the North Slope Borough who is expected to bring an 8-plex online next year, around October 2021. This is an incredible congruence of timelines, because as stated, there is absolutely no available public housing in Point Lay. Once the occupants have been safely relocated, the NSB will demolish the existing structures as a municipal solid waste disposal service. At that time, the NSB will be moving a utility easement which passes through the property and preparing the site for utility connections.

- By that time, THNA will have received the agreements with Cully Corp and the Tribe to conduct the necessary land surveys and environmental reviews, secure permits and obtain site control. TNHA will then be offering employment and training opportunities to tribal members, and the construction process will be carried out. On completion, THNA will
consult with the Tribe on what process to follow for determining eligible occupants and how they will be certified, scored, selected for the new units.

These coordination efforts tie into TNHA's long-term planning efforts to address housing conditions in the community, by gaining knowledge of how new construction can be carried out in Point Lay efficiently, by putting in place agreements for securing new parcels for development with Cully Corp, for understanding the needs of the community and how to best address housing and to train local workers and craftsmen who can maintain existing houses and be prepared for new construction.

TNHA has coordinated the collection of survey data from the local community through the 2020 Housing Needs Assessment, towards which several occupants of the structures to be demolished responded. This information was shared with the Tribe, as data supporting the need and motivation to act on this IHBG opportunity with other partners.

**Subfactor 5.2. Outputs and Outcomes (3 points)**

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 6 new resilient, accessible, efficient, affordable units constructed</td>
<td>• Reduction in village overcrowding rates</td>
</tr>
<tr>
<td>• 6 new units connected to utilities</td>
<td>• Reduction in the number of families living in substandard housing</td>
</tr>
<tr>
<td>• 36 AIAN individuals housed</td>
<td>• Reduction of future fossil energy burden</td>
</tr>
<tr>
<td>• 27 AIAN individuals removed from harmful housing conditions</td>
<td>• Greater accessibility for persons with disabilities and booming senior population</td>
</tr>
<tr>
<td>• 6 construction jobs created</td>
<td>• Local economic development in village</td>
</tr>
<tr>
<td></td>
<td>• Construction workforce capacity building</td>
</tr>
</tbody>
</table>
TNHA
54'x48' - DUPLEX
PER UNIT: 1296 S.F. LIVING
96 S.F. UN-INSULATED ARCTIC ENTRY
96 S.F. DECK

 ARCHITECTURAL - PRELIMINARY
TNHA

FLOOR PLAN
SCALE 3/32" = 1'-0"
11x17 SHEET

FRONT ELEVATION
SCALE 3/32" = 1'-0"
11x17 SHEET

SIDE ELEVATION
SCALE 3/32" = 1'-0"
11x17 SHEET
LOFT FLOOR FRAMING PLAN

SCALE 3/16"=1'-0"

19 7/16
19 3/4
96
9-6 15/16
11'-4 11/16'
17'-4"
8'-3"
25'-7"

ARCHITECTURAL - PRELIMINARY

TNHA

ALASKA INSULATED PANELS

R-VALUED HOMES

TNHA #20???

-PRELIMINARY

LOFT FLOOR FRAMING PLAN

SCALE 3/16"=1'-0"

19 7/16
19 3/4
96
9-6 15/16
11'-4 11/16'
17'-4"
8'-3"
25'-7"
**PROJECT NAME:** NSB Multifamily Rental Housing Comprehensive Rehabilitation

**LOCATION:**

---

**NSB PLANNING DEPARTMENT USE ONLY**

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER:</th>
<th>08-New 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE SUBMITTED:</td>
<td>2/23/2021</td>
</tr>
<tr>
<td>REQUESTING ENTITY:</td>
<td>TNHA</td>
</tr>
</tbody>
</table>

**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:** Tagiyugiullu Nunamiullu Housing Authority

2. **PROJECT NAME:** NSB Multifamily Rental Housing Comprehensive Rehabilitation

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   The NSB 12-Plex rental units were constructed in the early 1980s to provide affordable apartment options for NSB residents. From 1977 to 2004, TNHA, a public corporation and state instrumentality (AS 18.55.995-996), served through a cooperative agreement as a division of the NSB Housing Department. This agreement was then terminated and the NSB conveyed its rental property to TNHA as a market-rate public rental enterprise to offset longterm decline of its federal revenues as its HUD properties conveyed. However, 60 units in five 12-plexes (A, E, F, H and I), were not among the units transferred due to bond debt at the time. NSB Resolution 26-2004 authorized a contract with TNHA to manage and maintain the 12-plex units, noting the NSB "must maintain ownership of the Facilities and Units until such indebtedness is paid." The 12-plexes are now 40 years old and require substantial rehabilitation to remain viable as rental housing.

   TNHA is not in a position to perform the upgrades as (1) it does not own the 12-plexes and (2) the NSB's land lease with UIC is set to expire in 2027, restricting the amortization schedule of any capital raised to do the work. The proposed five-year phased project addresses life, health and safety concerns through replacement of ineffective or outdated mechanical systems, moisture remediation, and functional structural and building envelope improvements. Project analysis was completed prior to the previous renovation of A & I buildings in 2001. The current request proposes to address the 12-plex units in systematic fashion, one each year over a five-year period, to be prioritized by immediacy of need (E, H, F, A & I). Additionally, the NSB will need to either (1) renew its contract with TNHA and its land lease with UIC, (2) terminate its contract with TNHA and resume direct management of these properties, or (3) convey them and let TNHA negotiate the land lease and raise its own capital for the upgrades. TNHA has no preference as to the NSB's policy, means and methods as long as the upgrades can be completed on a reasonable timeline for the benefit of tenants.

4. **PROJECT LOCATION:**

   Utqiagvik - 5105 Herman St (E), 5145 Herman St (I), 5210 Karluk St (A), 5230 Karluk St (H), 5240 Karluk St (F)
PROJECT NAME: NSB Multifamily Rental Housing Comprehensive Rehabilitation

LOCATION:

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$18,000,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$0</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E, energy audit, building forensics investigation, legal</td>
<td>estimated ($15M*.12)</td>
<td>$1,800,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Structure and envelope, HVAC, interior renovation, lighting</td>
<td>estimated ($2.55M*5)</td>
<td>$12,750,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>Procurement, logistics, crew or contractor scheduling</td>
<td>estimated ($15M*.08)</td>
<td>$1,200,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Asbestos or mold abatement, tenant relocation, etc.</td>
<td>estimated ($400K*5)</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Cogeneration systems to serve critical loads in outages, reduce energy costs</td>
<td>2021 DOE Screening Technical Assessment for 1961 Takpuk St</td>
<td>$250,000</td>
</tr>
</tbody>
</table>

TOTAL $18,000,000

TOTAL PROJECT COST (if different) $18,000,000

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☒ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

Reconstruction of 5105 Herman St. (E Building) facility box estimated $100,000

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Yes, upgrades could be phased over 5 - 6 years with estimated $3 - 3.6 million per year

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

$18 million total with $100K in 2021 and $3 million each of following six years (2022-28)
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No  ☐ Yes
If No, explain why it should be considered out of sequence:

Land lease expires in 2027 and there are significant logistics to in temporarily relocating households

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Housing quality deficiencies in five of the NSB 12-plex rental properties require immediate redress of life, health, and safety issues. The subject properties comprise roughly 5% of all housing stock in Utqiagvik and a significant share of available rental stock. Economics, age, location, and physical characteristics justify a substantial rehabilitation effort in order to maintain habitability. The implications of doing nothing are an increased local homeless population, overcrowding, “doubling up,” and “couch surfing.”

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The project will reduce overall operating costs. The integration of natural gas cogeneration systems at each property will increase energy efficiency, lower utility costs for tenants, and serve critical building loads during grid outages, reducing strain on maintenance personnel during extreme weather events.

C. Indicate if this is a reoccurring upgrade or repair.

No - this is a one-time capital request

D. Detail outside funds being leveraged, if applicable.

The properties have rental revenues of approximately $750K annually. The NSB is an eligible borrower for the Alaska Energy Efficiency Revolving Loan Fund which can provide a source of non-bond capital. TNHA is eligible for certain state and federal grants depending on the ultimate use of the units. For example, a mixed-income apartment building could utilize a proportion of HUD or LIHTC funds. TNHA can provide the NSB a pro forma of potential external or collaborative financing options on request.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☒ Yes  (If yes, include written verification)

Explanation, if necessary:

See attached photo presentation of E Building facility box failure
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

No, the NSB has no baseline operational expense related to these properties. TNHA has borne all operating expenses since 2004. NSB debt service would increase but operating benefits would accrue to TNHA. NSB can avoid this by conveying to TNHA or another party.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

(1) 2004 CIP Request for 12-Plex Upgrade; (2) NSB Res. 26-2004, (3) Unsigned 2005 NSB-TNHA Memorandum of Agreement for property management, (4) summary of E Building facility box deterioration with photos

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Griffin W. Hagle, Executive Director, Tagjuqmiullu Nunamiullu Housing Authority

Signature: [Signature] Date: 02/16/2021

Department Director Name:

Department Director Signature: Date:

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
Planning Commission
CIP PROJECT REQUEST FORM

Instructions:
Please fill out the header with Project Name, Sponsor, and Location. If using the computer file use the display format showing the header and footer (click on the center box in the lower right hand corner of the screen) and double click on the header, this will allow you to put in the information.

Incomplete or incorrect forms will be returned to the sponsor for revision.

PLEASE RETURN THE COMPLETED FORMS TO THE PLANNING DEPARTMENT
ATTENTION TO: Arlene Thomas.

1. REQUEST SPONSOR

<table>
<thead>
<tr>
<th>Borough Department (indicate)</th>
<th>North Slope Borough Housing &amp; Property Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Slope Borough School District</td>
<td></td>
</tr>
<tr>
<td>City/Village (indicate)</td>
<td></td>
</tr>
</tbody>
</table>

2. PROJECT NAME

NSB 12-Plex Rental Unit Asbestos Abatement, Substantial Rehabilitation and Fire Upgrade (B, C, E, F & H Buildings).

3. PROJECT DESCRIPTION Please briefly describe the project and the problem(s) or situation it addresses (attach more detailed information if available):

The NSB 12-Plex rental units were constructed circa 1982 in order to provide affordable apartment living options for North Slope Borough residents. The economics of the NSB and the age, location, and physical characteristics of the NSB housing stock combine to create an immediate need for substantial rehabilitation in order to maintain habitability. The proposed five-year phased project addresses life, health and safety concerns through replacement of inoperative or outdated fire alarm and suppression systems, asbestos abatement, and functional structural improvement. Project analysis to assess the identified need was completed prior to the substantial renovation and abatement of A & I buildings in FY 2001. The current request proposes to address the remaining 12-plex units in similar fashion, one each year over a five year period. Immediate fire safety needs will be addressed concurrent with the renovation of C building as Phase-I, the remainder to follow prioritized by immediacy of need (B, E, H & F). The phased project plan provides the fundable, systematic approach so essential to successful completion of this significant undertaking.

4. PROJECT JUSTIFICATION: Please provide the justification for the project.

Division of Economic Development and Planning
Department of Planning and Community Services
**Overview**

Housing quality deficiencies in five of the NSB 12-plex rental units require immediate address of life, health, and safety issues. The critically necessary replacement of outdated systems, asbestos abatement, requisite modification for the disabled, and infrastructure improvement place tenants, maintenance employees, and visitors at risk. Economics, age, location, and physical characteristics of the NSB housing stock justify a substantial rehabilitation effort in order to maintain habitability.

**Economics**

The Market Rent Study of North Slope Borough Owned Housing (Hage & Associates, 2003) reveals that rental rates in Barrow have declined over the past two to three years. The North Slope Borough operational service support has also declined, and budget cuts will progress into the foreseeable future. As the NSB is the single largest employer in Barrow, overall levels of employment have been severely impacted. The January 2004 NSB unemployment rate stood at 13.4%, a figure which registered only 6.3% five years earlier (State of Alaska Dept of Labor, Research and Analysis, 2004). Despite this disturbing trend, vacancy rates remain oddly low in both private and NSB rentals; effectively zero in the subject units. One item begs the attention of the current owners, or any prospective owners. When taking into account the full ramifications of credit losses, a second disturbing trend emerges. The subject units have a higher than normal number of non-paying tenants, and tenants in arrears (credit loss): $94,840 in active account delinquency as of February 2003. The decision to normalize or evict for lack of payment may prove to be untenable in terms of social impact, including: an increased homeless population, overcrowding, “doubling up,” and “couch surfing.” These already significant issues will only compound with further NSB reductions, and a corresponding increase in unemployment. **Viable options for Administration and Operation (A&O) or rent subsidy are restricted to federal programs: Section 8 Voucher; HUD Section 202 Housing for the Elderly; Section 811 Housing; Low-Income Public Housing; and the McKinney Programs (Homeless Assistance, Shelter Plus Care, and Continuum of Care).** As the structures currently stand, they are unable to access any of these funding streams. The units do not meet mandated minimum housing quality standards.

**Age, Location, and Physical Characteristics:**

Each two-story wood frame building is founded on freeze back wooden piles and includes open under floor crawl space. The wood frame floor system consists of wooden joists, plywood sheathing and underpayment. Most of the floors appear to be sound though often out of level. The exception to this occurs where water leaks have entered the building and caused deformation of the underpayment and degradation of the plywood sub-floor. Floor coverings display excessive cracks, holes, warps and other tripping hazards. Plumbing has undergone periodic and somewhat haphazard upgrade from the original. Wall coverings including cracked and chipped paint have degraded beyond the acceptable minimums. Fire systems, including smoke detectors and alarms, are inoperable and/or fail to meet code. Evidence of multiple leaks, though patched, can be seen from stains on the inside of the building. Entrances and apartment units fail to meet even the most basic of ADA accessibility requirements.

**Conclusions**

After twenty years of heavy use in the Arctic, the buildings remain essentially structurally sound. In spite of this, the finishes throughout the building are worn and need replacement; paint is dirty and faded, floorings worn, and ceilings stained. Structural maintenance is limited due to restrictions imposed as a result of un-addressed asbestos abatement. Plumbing upgrade, abatement, and fire system improvement or upgrade has been deferred far beyond reasonable limit. This condition should be expected for any public or institutional use building after an extended period of service. Substantial rehabilitation will allow the structures to remain functional, fiscally viable, and habitable well into the foreseeable future.
Cost Benefit Analysis

- Asbestos abatement will reduce risk to maintenance personnel, contractors, and occupants, diminishing OSHA and owner liability concerns.

- Structural upgrade will improve occupant quality of life and afford access to federal administration and operations subsidy currently unavailable due to building condition, assuring fiscal viability.

- Fire and accessibility upgrades will diminish owner liability and assure basic tenant life, health, and safety concerns are adequately addressed.

- Structural upgrade diminishes maintenance expense. Cost analysis completed in FY 01 attributes $723,966 in A & O cost to the then six (6) unabated or upgraded 12-plex units. With the transfer of G Bldg to the NSBSD, a pro-rata of 5/6 establishes the remaining annual expense at $603,305. This figure has been halved in the upgraded A&I units and would diminish further with access to new federal funding streams.

- Substantial rehabilitation will provide a five-year local job and economic development stimulus while addressing a most critical community need...affordable, subsidized shelter.

- Upgrade will extend building useful life to the originally anticipated fifty-year term or the lease expiration date of 2027.

- Doing nothing is not an option. The real choice in this instance is to implement a systematic plan for upgrade, or to dispose of the units through sale or transfer. The later option assumes that a private entity would willingly choose to acquire the same operational, OSHA, and liability challenges faced by the NSB. Abandonment, or demolition remain as the final, though least desirable, options.

5. LOCATION OF THE PROJECT (Which community or communities will the project take place, if Area-Wide the project description must include a breakdown by community indicating specifically what is to be done and how much of the budget will be spent at each site.)

All 12-Plex units are located in the village of Barrow

6. PROJECT COST
**PROJECT NAME:** NSB 12-Plex Upgrade  
**SPONSOR:** NSB Housing  
**LOCATION:** Barrow

<table>
<thead>
<tr>
<th>Substantial rehabilitation @ $1.2 Million each 12-plex unit</th>
<th>$6,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire upgrade for five buildings, inclusive</td>
<td>$ 350,000</td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td>$6,350,000</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF THIS COST BE NEEDED?**

Yes **XX** No _____, if Yes, explain:

100% NSB Capital project funds are requested. Funding is requested in five phases:
Phase I- $1,550,000  (Fire upgrades & C bldg.); Phases II-V $1,200,000 each. (B, E, H & F)

8. **PAR STATUS**

<table>
<thead>
<tr>
<th>A. Has a PAR been completed? Yes____ No <strong>XX</strong>, if No answer B and/or C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Is the project for the purchase of equipment with a vendor quote? Yes ___ No <strong>XX</strong></td>
</tr>
<tr>
<td>C. If No to A and B, how was cost determined? Explain:</td>
</tr>
</tbody>
</table>

NSB CIPM cost experience from A & I Building rehabilitation (2001). Validity of estimate supported through general review with NSB CIPM staff (Marvin Olson) on 3/02/04.

9. **IS THE PROPOSED PROJECT NON-DISCRETIONARY IN NATURE?** In order to answer this question, please complete the following 5 points in relation to the project or problem which is to be addressed. Do not include other criteria.

<table>
<thead>
<tr>
<th>A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a borough service or facility?</th>
</tr>
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<tr>
<td>B. Does the project address an imminent structural failure as indicated in writing by a licensed engineer or architect?</td>
</tr>
<tr>
<td>C. Does the project address an environmental condition that without immediate action an imminent and verifiable, and documented threat to public health will exist?</td>
</tr>
<tr>
<td>D. Is this project a Phase (as identified by the Planning Commission not by the sponsor) of an ongoing CIP project?</td>
</tr>
<tr>
<td>E. Is this action necessary to carry out CIP projects, in the nature of funding for PARs and gravel? (This criteria is not related to the Borough’s ability to provide public services, use item 6A for this.)</td>
</tr>
</tbody>
</table>

| Explanation to E: | N/A |

10. **IS THIS A BASIC FACILITY/EQUIPMENT UPGRADE OR MAJOR REPAIR?**
A. Will you be unable to maintain the same level of service as you do now over the next fiscal year without this project?

No ___ Yes XX (if yes, explain current service level and relationship of project, in space below).

B. Will your facility/service terminate/close if project is not completed?

No ___ Yes XX (if yes, explain in space below).

C. Will proposed project increase or reduce O&M costs?

Reduce XX . (Explain) Increase ___ . (Explain)

D. What is the annual and life cycle O&M cost impact? Indicate savings or increased cost.

See Cost Benefit Analysis, Page 3

E. Is this a reoccurring kind of upgrade or repair?

No XX Yes ___ . (if yes, provide actual cost history by village and for the specific facility/equipment.

F. Does the upgrade include constructing a new facility?

No XX Yes ___ (if yes, explain in space below).

Explanation to A, B, C or F.

A. Fire upgrade is essential life, health, safety  B. The buildings will ultimately become uninhabitable due to liability concern or prohibitive A&O Cost. C&D See Cost Benefit Analysis, Page 3 and attachments.

11. RELATIONSHIP TO PLANS AND PROGRAMS (this applies to Borough Departments only but other sponsors are encouraged to make similar references)

Policies in Summer 1997 Public Review Draft Comprehensive Plan being implemented

Section: “Shelter”

Goal: Support affordable, uncrowded, decent, safe, and sanitary housing for all residents of the communities of the North Slope Borough

Objective 2. Policy 3. Ensure that home construction conforms with all applicable quality and safety standards

Departmental Strategic or Six Year Plans

Goal 2: Provide quality levels of housing program services.

Goal 3: Provide quality maintenance and support services.

Goal 4: Improve the quality of existing homes and decrease substandard living conditions of North Slope Borough residents.

12. NAME, TITLE AND SIGNATURE OF PERSON SUBMITTING CIP PROJECT REQUEST

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Title</td>
<td>Director, NSB Housing and Property Management</td>
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PROJECT NAME: NSB 12-Plex Upgrade
SPONSOR: NSB Housing
LOCATION: Barrow
NORTH SLOPE BOROUGH
RESOLUTION SERIAL NO. 26-2004

A RESOLUTION WAIVING COMPETITIVE
BIDDING AND AUTHORIZING NEGOTIATIONS
OF A CONTRACT WITH TAGIUGMIULLU
NUNAMANIULLU HOUSING AUTHORITY (TNHA) FOR
THE MANAGEMENT & MAINTENANCE OF NSB
MULTI-UNIT RENTAL PROPERTIES IN BARROW

WHEREAS, the North Slope Borough Assembly has created the new
Department of Public Works; and

WHEREAS, the new Department is a consolidation DMS, CIPM, and the
facility maintence portion of the Housing Department; and

WHEREAS, Housing maintenance and Housing related functions will be
transferred to TNHA and no longer be the responsibility of the Borough; and

WHEREAS, the North Slope Borough still has bond indebtedness on
multi-unit rental properties; and

WHEREAS, the North Slope Borough must maintain ownership of the
Facilities and Units until such indebtedness is paid; and

WHEREAS, all other North Slope Borough rental properties are to be
turned over to TNHA; and

WHEREAS, the TNHA staff is most familiar with North Slope Borough
rental property’s and their maintence requirements; and

WHEREAS, a management and maintence agreement is necessary to
maintain and operate those rental units; and

WHEREAS, the TNHA is a regional housing authority under AS
18.55.996 and is considered an instrumentality of the State of Alaska; and

WHEREAS, the NSBMC §2.36.180 (A), (1), (g) waives competitive
bidding for Contracts with local governments, the states, or the United States, or any
agency or instrumentality of theses governments; and
WHEREAS, the NSBMC §2.36.180 (A) (2) states that if a best interest contract exceeds the authority of the Mayor for award, then the contract may be awarded after the Assembly approves the amount of the contract. The Assembly’s approval shall be by resolution.

NOW, THEREFORE, BE IT RESOLVED:

That the North Slope Borough Assembly authorizes the Mayor to negotiate and execute a contract with TAGIUGMIULLU NUNAMIULLU HOUSING AUTHORITY to manage and maintain North Slope Borough rental properties in an amount not to exceed the amount budgeted for this contractual purpose.

INTRODUCED:       June 1, 2004
ADOPTED:          June 1, 2004

Charlotte Brower  
President
Date:   3-June 04

George N. Ahmaogak, Sr., Mayor  
Date:   June 2004

ATTEST:          
Bertha L. Panigeo, Borough Clerk  
Date:   June 3, 2004
MEMORANDUM OF AGREEMENT

BETWEEN THE NORTH SLOPE BOROUGH
AND
TAGIUGMIULLU NUNAMIULLU HOUSING AUTHORITY

PURPOSE: MANAGEMENT AND MAINTENANCE OF NSB HOUSING PROPERTIES BY TAGIUGMIULLU NUNAMIULLU HOUSING AUTHORITY

This Memorandum of Agreement (MOA) is entered into between the North Slope Borough (NSB) and Tagiugmiullu Nunamiullu Housing Authority (TNHA) to prepare for the NSB's proposed transfer of management and maintenance responsibility for NSB rental properties to TNHA. This MOA provides the framework for addressing the principal matters anticipated to arise between NSB and TNHA as NSB finalizes its withdrawal from rental programs previously carried out by the NSB. The NSB rental properties to be managed and maintained under this MOA are identified on Exhibits B (Barrow units) & C (village units).

EFFECTIVE DATES: July 1, 2004 through June 30, 2005

I. NORTH SLOPE BOROUGH WILL:

1. Transfer the NSB Housing and Property Management Department Office building to TNHA according to the terms of NSB Ordinance No. 2004-08.

2. Transfer the NSB Housing and Property Management Department Maintenance Warehouse building to TNHA according to the terms of NSB Ordinance No. 2004-07.

3. Transfer the NSB Housing and Property Management Department Maintenance Warehouse inventory to TNHA according to the terms of NSB Ordinance No. 2004-11.

4. Transfer to TNHA responsibility for the management and maintenance of NSB housing properties in Barrow (Exhibit B).

5. Transfer to TNHA the responsibilities for management (excluding maintenance) of NSB housing properties in the villages (Exhibit C).

6. Transfer to TNHA the prepaid rent, security deposits and current accounts receivable for the NSB housing properties (Exhibits B & C), and supplemented with NSB Accounting Division’s Tenants Accounts Receivable Report.
7. Authorize TNHA to collect, receive, or at TNHA’s discretion, to waive any work order charges incurred by individual tenants from all housing programs previously managed by North Slope Borough Housing and Property Management Department prior to June 30, 2004.

8. Assist TNHA in its evaluation and assessment of the NSB housing properties, to the extent practicable; this may include forwarding a recommendation on whether or not repair is imminent and willingness to continue to provide heat (fuel oil) and electricity, until occupancy can occur or the decision is made to drain all water lines and prepare the unit for freezing conditions.

9. In consultation with TNHA, develop a schedule for the conveyance of the NSB’s ownership interests (fee simple or leasehold interest) in properties to TNHA, except for units to be maintained in NSB ownership. The NSB shall provide documentation assuring clear title prior to conveyance. Details of conveyances and closing schedule will be implemented under separate agreement(s).

10. Perform maintenance of NSB FMR (Fair Market Rental) units and TNHA Mutual Help Homes in outlying villages, either under agreements with others or directly performed by NSB.

11. Continue to receive and forward calls and messages received by the NSB security guard after hours (emergency or maintenance calls), to TNHA’s designated on-call representative. The TNHA representative can be reached at: 907-367-3111 or other numbers provided by TNHA.

12. Review monthly vacancy reports and TNHA recommendations to assist in the evaluation and identification of units which may be closed.

13. Provide a monthly status report on open Work Order’s submitted by TNHA.

II. TAGIUGMIULLU NUNAMIULLU HOUSING AUTHORITY WILL:

1. Accept management and maintenance responsibilities for the NSB units in Barrow (Exhibit B). The units shall be used as residential housing for eligible North Slope Borough residents.

2. Assume responsibility for management of tenant occupancy in accordance with Alaska Statutes, Title 34, Chapter 03. Maintain the Barrow properties (Exhibit B) in safe, decent, and habitable condition, to the extent that funding under this MOA is available for such maintenance.

3. TNHA will provide a feasible and cost-effective plan, funded by FMR, to assign one resident in each multi-family unit to perform essential on-site services, of the type that may be assigned to a resident manager or
contractor (including, if feasible, day to day maintenance as defined in Exhibit D) on an independent contractor basis.

4. Submit Work Order request(s) for review and approval of Non-routine maintenance as described in Exhibit D, to the Public Works Facility Maintenance Division. The Public Works Facility Maintenance Division will review the request and determine if the service request should be approved. In the event the item is deferred, the unit will become eligible for a Security & Management Fee; such fee shall be actual costs incurred to prevent further damage to the vacated unit. Costs incurred shall be charged against FMR. In the event accrued FMR funding is insufficient, the Security & Management Fee must be approved by Public Works Facility Manager. Should Public Works defer non-routine maintenance of an occupied unit that results in an uninhabitable situation or substantial liability exposure, Public Works will reimburse TNHA for reasonable cost incurred due to relocation of the tenant. Reasonable relocation costs shall include but not be limited to utility / telephone / television connection fees, moving expenses, temporary rent not to exceed 30 days (term of rental agreement) or such period as may be prescribed by the Alaska Uniform Residential Landlord and Tenant Act (AS 34.03.010-AS 34.03.360).

5. Accept management responsibilities for village rental units (Exhibit C). The maintenance for these units shall be provided by others. TNHA will participate in the administration of village FMR units to the extent of receiving and drafting work requests, submitting them to Public Works Facility Maintenance Division for processing.

6. Collect and account for rental receipts and charges associated with the rental units (Exhibits B &C).

7. Invoice tenants for tenant-caused repairs. Funds collected from tenant-caused repairs for non-routine maintenance incurred by NSB will be reported as additional revenue by TNHA.

8. Provide a monthly summary to NSB Public Works Department to accompany TNHA’s monthly invoice. Monthly summary will include the following reports:

   A. Profit & Loss – Monthly (lump-sum) rental revenues generated by occupied units in Barrow (Exhibit B) and in Outlying Villages (Exhibit C), as well as monthly expense and maintenance costs (lump-sum) for the Barrow units (Exhibit B).
B. Vacancy Report listing vacant units in Barrow and Villages (Exhibits B & C) with beginning date of vacancy.

C. Activity Report – Monthly summary of maintenance for those Barrow units (Exhibit B) receiving work.

9. Provide a rental unit conveyance plan and schedule and submit draft to NSB not later than March 30th, 2005. The housing properties identified in Exhibits B & C are NSB properties currently under consideration and eligible for conveyance to TNHA under NSB Ordinance No. 2004-09. Conveyances will be governed by closing documents or separate agreement and the terms and the transfer of each property must be acceptable to both parties.

10. With due consideration to tenant rights, act on the direction of NSB Department of Public Works to vacate/relocate tenants, from any NSB FMR unit as requested, for the purpose of closure, renovation, removal of the unit from this agreement, and/or conveyance to others.

11. Complete all NSB RSSP (Rental Stock Sales Program) sales transactions in progress as of July 1, 2004, and collect, receive, and retain for TNHA purposes any sales proceeds. TNHA shall be entitled to the proceeds of all RSSP sales completed whether or not TNHA owned the property at or before the date of sale. With respect to any Barrow single family rental unit (Exhibit B hereto), TNHA is authorized without further approval from NSB, to market such units for final sale under the RSSP or similar program as agent for the NSB. In the event TNHA elects to market or sell such unit during the term of this MOA, the NSB shall promptly convey such property to TNHA (or to the third party purchaser, as TNHA may designate) by appropriate deed upon TNHA’s request. Conveyances made pursuant to this paragraph may occur at any time, without regard to any conveyance schedule or plan developed by the parties of this agreement. TNHA agrees to report the proceeds of such sales to NSB, provided, however, that NSB agrees not to use such information or proceeds for purposes of reducing payments or subsidies otherwise due TNHA under this MOA. TNHA shall use any RSSP proceeds for purposes consistent with TNHA’s status as a public corporation formed pursuant to AS 18.55.995-996.

12. Submit and continually update the driver and radio users list. Each user of a radio shall sign a NSB user agreement and will be responsible for any damages or loss of the radios and attachments.

13. Provide two semi-annual reports comparing management and maintenance costs to revenues on a by building basis for Barrow units (Exhibit B), and comparing management costs to revenues on a by unit basis for outlying villages, (Exhibit C). These reports are to include census data identifying numbers of families, adults, children, that the NSB rental housing is servicing.
14. Will provide NSB space and access to the proprietarily owned fiber-optic cable located within the TNHA Main Office Building.

15. Allow NSB to retain license on any NSB software that may be utilized by TNHA.

III. THE PARTIES FURTHER AGREE AS FOLLOWS:

1. **Base Compensation.** The NSB shall compensate TNHA for management including move out inspections/damage assessment, day-to-day and routine maintenance services in the amount of $400,000 for the period covered by this agreement.

2. The NSB shall compensate TNHA for non-routine and emergency maintenance, pre-approved by NSB Public Works Facility Maintenance Division, and documented on a signed work order form in the amount of $100,000 for the period covered by this agreement.

3. TNHA shall submit its invoice to NSB not less than every 30 days, except that if MOA expires or is terminated, the final invoice shall be submitted not later than the 30th day after termination or expiration.

4. **Manner of Payment.** The NSB shall make payments to TNHA as follows: TNHA shall submit monthly invoices for services rendered and work order expenses incurred within thirty days of performance of the service or incurring the expense. The invoice will be accompanied by a monthly summary as defined under Section II (8). The NSB will process invoices for payment or exception within 30 days of receipt of pay request.

5. **Termination.** Prior to expiration, this MOA may be terminated by either party for good cause, or automatically upon the parties’ execution of a superseding MOA. Closing conveyance on any property shall release such property from the terms of this MOA. The parties may at their option enter into additional MOAs to address conveyed properties.

6. **Insurance.** TNHA shall submit certificates of insurance for this MOA and agrees to the conditions regarding insurance as set forth in Exhibit A, which is incorporated in this MOA by reference.

7. **Indemnity.** TNHA shall Indemnify, defend, and hold the NSB and its administrators, officers, agents, employees, volunteers and servants harmless from and against any and all claims, demands, actions, losses, expenses, and liabilities for, or related to, loss of or damage to property or injury to or death of any person relating to or arising or resulting in any way from the performance by TNHA or any of its Subcontractors under the
Agreement, or the work or services provided or the condition or use thereof, regardless of any negligence of the NSB or their respective agents or employees, excepting only such loss, damage, injury or death which results solely from the gross negligence or willful misconduct of the NSB or solely from the joint negligence or willful misconduct of the NSB and a third party directed by the NSB.

8. Discrimination. TNHA may not discriminate against any applicant or participant in the NSB housing properties because of race, religion, color, national origin, age, physical handicap, sex, marital status, changes in marital status, pregnancy, or parenthood.

9. Law and Venue. This Agreement shall be governed by the law of the State of Alaska. Venue for any legal proceeding related to this Agreement shall be in the Superior Court in Barrow, Alaska.

10. Notice. Unless otherwise provided herein, any notices or other communications required or permitted by this Agreement to be delivered to NSB or TNHA shall be in writing and shall be considered delivered when personally delivered to the party to whom it is addressed, or in lieu of such personal delivery, when deposited in the United States mail, first-class, postage prepaid, addressed to NSB or TNHA at the address set forth below:

North Slope Borough
Attn: Mayor’s Office
Public Works Dept.
PO Box 69
Barrow, Alaska 99723

Tagiugmiullu Nunamiullu Housing
Authority
Attn: James H. Sceeles, Executive Director
P.O. Box 409
Barrow, Alaska 99723

11. Entire Agreement. This Agreement constitutes the entire Agreement between NSB and TNHA. It supersedes all prior oral and written understandings and agreements. It may be amended, supplemented, modified or canceled only by a duly executed written instrument. It shall bind NSB and TNHA, their successors, administrators, assigns and legal representatives.

12. Definitions

a. “Management” as used in Sections; II (1), (2), (4), (5) and III (1) of this MOA refers to the day-to-day operations and activities associated with residential tenancy that are customarily delegated to a property manager. “Management” includes day-to-day maintenance, routine maintenance, and assessing the need for and reporting on non-routine maintenance and repairs as set out in Exhibit “D” and the handling of
rents and addressing issues of tenancy. "Management" excludes non-routine maintenance and reimbursable costs.

b. “Routine maintenance”: Any maintenance and operating services to maintain and upkeep the life expectancy of the properties. It also includes the cost of materials, supplies and expendable equipment used in connection with the maintenance and operating services. Routine maintenance includes but is not limited to, preventative maintenance, such as ongoing minor and seasonal repairs and upkeep, snow removal, boiler and furnace repairs, smoke detector and fire extinguisher inspection.

c. “Non-routine maintenance” Any cost, such as labor, materials and supplies used in connection with repairs, replacements of nonexpendable equipment and rehabilitation of such substantial nature that the work is clearly not a part of the routine maintenance and operating program. Examples of this may include but is not limited to, replacement of all or a substantial portion of gas and heating lines, re-grading and rehabilitation of the grounds, the replacement of a substantial portion of roof structures, replacement of boiler, furnace or household appliances.

IV. PARTY ACKNOWLEDGEMENTS

The parties acknowledge that:

a. The high historical costs associated with operating rental programs in the North Slope necessitates early and accurate research into possible efficiencies, savings, or funding sources. The parties concur that the cost-effective management of the properties identified in Exhibits “B” & “C”, requires planning for potential closure, triage, conversion, or sale of units.

b. As a Regional Native Housing Authority created pursuant to AS 18.55.995-996, TNHA’s principal mission is the efficient operation and development of housing funded by the Native American Housing Assistance and Self-Determination Act (“NAHASDA”). In operating NAHASDA programs TNHA must answer to the villages within its region, as well as to the U.S. Department of Housing and Urban Development. To the extent that TNHA’s obligations under this Transition MOA undermine or prejudice TNHA’s ability to carry out its NAHASDA responsibilities, TNHA may terminate or request modification of this MOA by providing written notice to NSB.

DATED the day and year last written below.

NORTH SLOPE BOROUGH
EXHIBIT A

INSURANCE REQUIREMENTS

It is highly recommended that Tagiugmiullu Nunamiullu Housing Authority (TNHA) confer with its respective insurance companies or brokers to determine if its insurance Program complies with the Borough’s insurance requirements.

Tagiugmiullu Nunamiullu Housing Authority (TNHA) shall procure and maintain the following insurance:

A. Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office form number CG 0001 (Edition 10 01) covering commercial General Liability.

2. Insurance Services Office form number CA 0001 (Edition 7 97) covering Automobile Liability, symbol 1 “any auto”.

3. Workers’ Compensation insurance as required by the State of Alaska and Employer’s Liability Insurance

B. Minimum Limits of Insurance

Tagiugmiullu Nunamiullu Housing Authority (TNHA) shall maintain limits no less than:

1. General Liability:

$1,000,000 combined single limit per occurrence for bodily injury, property damage, personal injury and advertising injury. The general aggregate limit shall be $2,000,000. The general aggregate limits shall apply separately to each project.

General Liability insurance shall be maintained in effect until final acceptance by the Borough of the completed construction and, for products liability and completed operations liability, at least five years thereafter.

If the general liability insurance is written on a claims made form, the Contractor shall provide insurance for a period of five years after final payment of this agreement. The policy(s) shall evidence a retroactive date, no later than the beginning of this agreement.
If the contractor utilizes a subcontractor(s) to perform any part of the work under this contract, the general liability insurance shall not contain any endorsements that exclude the work of the subcontractor(s).

2. **Auto Liability:**

$1,000,000 combined single limit per accident for bodily injury and property damage.

3. **Worker’s Compensation and Employers Liability:**

Worker’s Compensation shall be statutory as required by the State of Alaska. Employers Liability shall be endorsed to the following minimum limits:

- Bodily Injury By Accident - $1,000,000 each accident;
- Bodily Injury by Disease - $1,000,000 each employee;
- Bodily Injury by Disease - $1,000,000 policy limit.

4. **Excess Liability:**

In order to meet the required minimum limits of insurance it is permissible or TNHA to combine an excess liability or umbrella policy with the general liability, auto liability or employer’s liability. In the instance where TNHA purchases an excess liability or umbrella policy the occurrence limit and the aggregate limit may be of the same amount on the excess liability or umbrella policy.

   A. Excess liability insurance shall be maintained in effect until final acceptance by the Borough of the completed operations liability, at least five years thereafter.

   B. If the excess liability insurance is written on a claims made form, the contractor shall provide insurance for a period of five years after completion of this agreement. The policy(s) shall evidence a retroactive date, no later than the beginning of this agreement.

   C. **Deductibles and Self-Insured Retention**

Prior to work commencing any deductible or self-insured retention must be declared and approved by the Borough. TNHA may be requested to demonstrate how the deductible or self-insured retention will be funded in the event of a claim. At the option of the Borough, TNHA shall reduce or eliminate such deductibles or self-insured retention as respects the Borough, its officers, officials, employees and volunteers, or TNHA shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.
D. **Other Insurance Provisions**

The policies are to contain, or be endorsed to contain, the following provisions:

1. **Worker’s Compensation and Employer’s Liability**
   The insurer shall agree to waive all rights of subrogation against the Borough, its Administrator, officers, officials, employees and volunteers for losses arising from work performed by TNHA

2. **All Insurance**
   Each insurance policy required by this Agreement shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after 30 days prior written notice for nonpayment of premium or fraud on the part of TNHA or 60 days prior written notice for any other reason by certified mail, return recipe requested, has been given to the Borough. Such notice shall be mailed by TNHA’s insurer to the attention of the Borough’s Risk Manager.

E. **Acceptability of Insurers**

Insurance is to be placed with insurers with a Best’s rating of no less than A-VII

F. **Verification of Coverage**

TNHA shall furnish the Borough with approved certificates of insurance and with certified copies of all endorsements effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates are to be on forms provided by the Borough. All certificates are to be received and approved by the Borough before work commences. The Borough reserves the right to require complete, certified copies of all required insurance policies, at any time.

G. **Subcontractors**

Consultant shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to all requirements stated herein.
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185
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**32 Unit**

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<td>3421 Stevenson St.</td>
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**SINGLE UNITS**

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### Exhibit “C”

#### Village Rental Properties

**Anaktuvuk Pass**

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**Day-to-day Maintenance:** The cleaning and care of all non-tenant areas of building(s), (common and locked), and upkeep of the grounds. It includes, but is not limited to:

A. As required garbage and litter pickup  
B. As necessary changing light tubes and bulbs or reporting thereof  
C. As required cleaning Laundry areas  
D. As required cleaning / vacuuming common area flooring  
E. As Required cleaning light covers and metal surfaces  
F. As Required cleaning windows and walls (including minor painting)  
G. As Required provide appropriate response to emergency alarms  
H. Identify and report other maintenance related issues as they occur

*note: As Required means a minimum of 3 times per week.*

**Routine Maintenance:** Definition: any maintenance work requested by the facility manager or tenant. Examples include but are not limited to:

A. Broken out window – replace with new window  
B. Malfunction of exterior entry doors – minor repair or replacement as necessary to existing standard.  
C. Non operational heating systems; furnaces, boilers – troubleshoot, minor repair or replacement of failing components  
D. Electrical overloads: breakers, GFCI outlets, exterior outlets/cords- and initial troubleshoot  
E. Water piping / fixture leaks, frozen water piping / fixtures – thaw & minor repair or replacement  
F. Blocked sewer / drain piping – Thaw, clear by snake or suction, and minor repair as needed  
G. Laundry Equipment – Troubleshooting and repair  
H. As required carpet shampooing.  
I. Snow Removal

**Non-Routine Maintenance:** is the planned or projected major repair or replacement of equipment/systems of a single-home rental unit, apartment, or a portion of an entire Multi-Family Apartment complex. Typically, Non-routine maintenance is a forecasted, planned and developed project, also includes the development of a planned major repair or replacement of equipment or system. Non-Routine Maintenance must be approved formally through Work Order prior to commencement of said work and conducted during normal business hours and applies to any facility identified in Exhibit’s “B”, and “C”, Examples include but are not limited to the following:

A. **Fire systems:** Fire Alarm Panels, Fire Detection Systems, Suppression systems.
B. Heating/Ventilation System Replacements: New Boilers, Furnaces, Hot Water Heaters, Piping replacement, Air Handling Systems  
C. Plumbing Fixture Replacements: Water Tanks, Sewage Tanks, Tubs, Toilets, Basins, Fixtures and Piping  
D. Structural Repairs: Building settling, Foundation repairs and Internal Framing repairs  
E. Weather / Security Protection Repairs: Roof Replacement or major damage, Complete Window Replacement (window, casements, trim, sill), Complete Door Replacement (jamb, trim, door, knobs), Chimney, Stacks, Plumbing Vent Replacements, Exterior siding, Insulation or winterization Upgrades.  
F. Environmental / Hazardous Material Issues: Contamination, Pollutant remediation, Asbestos Encapsulation / Abatement  
G. Laundry Equipment / Household appliances: Replacement  
H. Electrical System Replacements: replacement of meter bases, upgrade or replacement of panel boxes, service entrance cable wires and electrical outlets.

Emergency Maintenance: Definition: the repair during evening and weekend/holiday hours of; breakage, malfunction, and damage caused by tenants, normal wear and tear, accidents, weather, or vandalism. Examples include but are not limited to:

A. Broken out window(s) – Temporarily seal fracture in building envelope  
B. Malfunction of exterior entry doors – provide temporary secure closure.  
C. Non-operational heating systems; furnaces, boilers – isolate and temporarily heat.  
D. Electrical overloads; breakers, GFCI outlets, exterior outlets/cords - Isolate / Lock out – Tag out  
E. Water piping / fixture leaks, frozen water piping / fixtures - Isolate  
F. Blocked sewer/drain piping – Isolate when possible, discontinue use

Emergency maintenance may be initiated without a work order, however, the Project Administrator: Harold Snowball, NSB Public Works, Facility Maintenance Division Program Manager must be notified at earliest opportunity and provided with an estimate of damage and cost to address the emergency to receive a Work Order authorization.

Safety and Risk Management: definition: the planning and implementing of policies and practices to identify and minimize the foreseeable hazards that could cause personal injury or property loss of Borough assets, result in lawsuits and potential financial loss. It involves

A. Taking reasonable care for the safety of all persons and property on the premises  
B. Anticipating possible hazards or emergencies
C. Taking preventive action
D. Complying with relevant legal statutes
E. Being prepared for an emergency
F. Carrying adequate insurance coverage.

All Capital project and/or major upgrades for non-routine maintenance are subject to availability of funding and appropriate approval by the NSB.
Drain pipe has leaked and corroded all pipes badly.
A section of Glycol pipe repaired. But other area are corroded badly and repair is not possible.

The Main Drain pipe is cracked and leaked. All pipes in the area are corroded from waste water. The section of drain pipe is repaired and leak is stopped for now.
Gas pipe is corroded badly

Glycol copper pipe & Fin Tube is corroded beyond their Original shape.
PROJECT NAME: Wainwright Childcare Center

LOCATION:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Taťuġmiullu Nunamiullu Housing Authority
2. PROJECT NAME: Wainwright Childcare Center Water & Sewer Interconnection
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Village of Wainwright (VOW), a federally-recognized tribal government, is partnering with Taťuġmiullu Nunamiullu Housing Authority (TNHA), a not-for-profit public corporation and federally-recognized community-based development organization, to convert an unoccupied 1,500-square foot tribally-owned building armory building in Wainwright deeded to it by the U.S. Army into a much-needed childcare center for the village. The project is to be primarily funded by a $750,000 Indian Community Development Block Grant awarded by HUD to VOW in June 2020. TNHA is acting as the tribe’s project developer and requests $175,000 in NSB capital assistance toward the childcare center’s water and sewer utility interconnection.

4. PROJECT LOCATION:
Wainwright: 911 Church Road
PROJECT NAME: Wainwright Childcare Center
LOCATION:

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$175,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

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7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☐ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project can be phased from 2021-2023 but major construction is expected to be completed by late 2022

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
If No, explain why it should be considered out of sequence:

N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Wainwright lacks an early child care center, limiting the economic welfare and mobility of families with young children. As of the 2010 United States Census, there were 556 people living in 148 households, of which 50.0% had children under the age of 18 living with them. 37.7% of the population were under the age of 18, 13.4% from 18 to 24, 27.8% from 25 to 44, 14.3% from 45 to 64, and 6.8% who were 65 years of age or older.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This will be a tribally-owned project and not subject to NSB maintenance and operation programs. However, it will support increased productivity for NSB employees who wish to work and are currently unable to find affordable childcare in the village.

C. Indicate if this is a reoccurring upgrade or repair.
No - this is a one-time capital request

D. Detail outside funds being leveraged, if applicable.
Village of Wainwright (TNHA subrecipient) - $750,000 ICDBG (HUD) awarded June 2020

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: Wainwright Childcare Center

LOCATION:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☑ Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☑ No ☑ Yes (If yes, include written verification) 
Explanation, if necessary:

TNHA estimates NSB power subsidy savings of $7,953 in the first year from energy efficiency and solar measures and cumulative savings of $209,148 over a 20-year project life assuming 2% annual energy cost escalation

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☑ No ☑ Yes  
If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request. 
Technical volume from DOE Energy Technology Deployment on Tribal Lands 2020 grant application

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Griffin W. Hagle, Executive Director, Taťūgni Guantanamo Nunamiiullu Housing Authority

Signature: [Signature]  
Date: 02/16/2021

Department Director Name:

Department Director Signature:  
Date:

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
Army Conveyed Scout Armory which will be converted to Childcare Center in Wainwright

Agency: Department of Energy
FOA Title: Energy Technology Deployment on Tribal Lands - 2020
FOA: DE-FOA-0002317
Topic Area 1.c: Energy Generating Systems and Energy Efficiency Measures
Applicant: Village of Wainwright, Federally Recognized Tribal Government
Project Title: Wainwright Child Care Center Solar and Efficiency Upgrades
Business Contact: Dr. Alana Shaw, Program Manager,
Village of Wainwright (VOW), Federally Recognized Tribe
(907) 763-2535, shaw@vowak.org, www.villageofwainwright.org
P.O. Box 143, 1212 Airport Road, Wainwright, Alaska 99782

Technical Contact: Mr. Griffin Hagle, Executive Director,
Taġiุงmiullu Nunamiullu Housing Authority (TNHA)
(907) 852-7150, Griffin.Hagle@tnha.net, www.tnha.info
P.O. Box 409, Utqiąġvik (Barrow), Alaska 99723
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A. EXECUTIVE SUMMARY

A.1 Project Overview

This project, submitted under Topic Area 1.c., Energy Generating System(s) and Multiple Building Energy-Efficiency Measure(s), will substantially improve the energy performance and resilience of a 1,500-square armory building conveyed in 2019 from the Department of Defense to the Village of Wainwright, a federally-recognized tribal government based in the remote arctic community of Wainwright, Alaska.

The tribe, in partnership with the regional housing authority, will use an Indian Community Development Block Grant awarded by HUD in June 2020 to convert the building into a daycare serving primarily low-income Alaska Native families. DOE funds will be used for energy enhancements that are projected to reduce the annual site energy usage (cost) of the building from 296 ($18,619) to 49 MMBtu, including net grid usage of 21 MMBtu ($1,734). This will be achieved through comprehensive envelope and mechanical upgrades, including electrification of primary comfort systems and domestic hot water supply, as well as an on-site photovoltaic generator with integrated battery storage. The system will be designed to take advantage of abundant arctic sunlight in summer and shoulder seasons, while the low-energy building will draw minimal diesel-fired electricity from the grid through the winter.

A.2 Applicant Description

The Village of Wainwright (VOW) is a federally-recognized tribe in Wainwright, Alaska, a coastal subsistence village of 500 people located on the Chukchi Sea about 72 air miles southwest of Utqiaġvik (formerly Barrow). Its mission is to preserve and exercise the Tribe's inherent sovereign rights and powers, to conserve and develop Tribal land and resources pursuant to Tribal law, custom and federal law, and to establish justice. The majority of community residents, about 90 percent, are Iñupiat Eskimos. The tribe is governed by a seven-member elected council. Day-to-day operations are overseen by a tribal administrator. Additional staff include a program manager and an administrative assistant.

As of the 2010 United States Census, there were 556 people living in the city. The racial makeup of the city was 90.1% Native American, 7.9% White and 1.6% from two or more races. 0.4% were Hispanic or Latino of any race.
There were 148 households, of which 50.0% had children under the age of 18 living with them, 50.7% were married couples living together, 16.2% had a female householder with no husband present, and 20.3% were non-families. 18.2% of all households were made up of individuals, and 3.4% had someone living alone who was 65 years of age or older. The average household size was 3.69 and the average family size was 4.17.

37.7% of the population were under the age of 18, 13.4% from 18 to 24, 27.8% from 25 to 44, 14.3% from 45 to 64, and 6.8% who were 65 years of age or older. The median age was 24 years. For every 100 females, there were 114.1 males. For every 100 females age 18 and over, there were 117.9 males.

The median household income was $54,722 and the median family income was $58,125. Males had a median income of $36,667 versus $40,313 for females. The per capita income for the city was $16,709. About 8.5% of families and 12.5% of the population were below the poverty line, including 18.4% of those under age 18 and 5.3% of those age 65 or over.

The project site, 911 Church Road, is a former federal scout armory that was conveyed from to the Tribe in 2019.

- **Attachment 1 and shows the project location.**

The tribe approached Tagiugmiullu Nunamiullu Housing Authority (TNHA), a not-for-profit public corporation designated as its tribal housing entity and recognized by HUD as a community-based development organization, for assistance securing federal funding and executing design and construction of the project. TNHA’s mission is to excel in the delivery of opportunities for affordable housing that empower, build, and sustain vibrant self-determined communities on the Arctic Slope for generations to come. This project advances that mission by supporting quality affordable childcare in the village, which in turn will allow Wainwright residents, including those in TNHA’s federally-assisted housing, to participate more freely in the workforce and attain economic mobility and self-sufficiency.

- **Attachment 2 shows TNHA’s Organizational Chart as of October 2020.**
A.3 Project Goal

The primary goal of the project is to reduce the long-term utility and maintenance costs of the childcare facility by reducing the high energy cost associated with diesel heating and power generation in remote Alaska. This is key, as the facility will be owned and operated by the tribe for the benefit of mostly low-income families, and comports with the conservation and development of resources integral to the Tribal mission. Secondary goals include reduced exposure to power outages and fluctuations and improved indoor environmental quality.

A.4 Benefits

Most small communities in Alaska off the road system rely on diesel for heating and power generation. In coastal villages like Wainwright, which is 200 miles from the terminus of the nearest all-season road at Prudhoe Bay, fuel is delivered by barge once per year in summer, when the Chukchi Sea is free of ice. The price for a gallon of diesel in Wainwright for commercial facilities, according to the 2015 North Slope Regional Energy Plan, is $7.30. The primary benefit of this project will be to limit the tribe’s reliance on a costly imported fossil energy resource to operate a Child Care Facility intended to serve low-income families.

An energy model for the project building estimates baseline annual heating fuel use of 1,614 gallons at a cost of $11,782. Baseline estimated annual electricity consumption is 21,250 kWh. Commercial retail cost of electricity in Wainwright ranges from $0.20 (up to 600 kWh) to $0.35 (601 kWh and over), depending on usage tier. The North Slope Borough (NSB) cost to generate electricity in the latest Alaska Power Cost Equalization report is $0.64 per kWh. Annual estimated site cost for this facility is thus $6,837. The NSB’s net cost (subsidy) to generate this electricity is an additional $6,763. Thus, the total annual cost of energy for the building in its current condition, inclusive of NSB subsidies, is estimated at $25,382. About $18,619 of this amount (73%) would presumably be borne by the tribe as a commercial facility operator. This baseline energy model, which did not incorporate historical billing data since the building has been disconnected from utilities, rates the structure three out of six stars, equivalent to a score of 70.0 points on the Building Energy Efficiency Standard (BEES) scale adopted by Alaska Housing Finance Corporation. Baseline estimated annual CO2 emissions are 78,131 pounds.

Proposed envelope, mechanical and energy generation and improvements modeled for the property, which involves electrification of all building processes (a diesel Toyo stove will provide
emergency backup heat), achieve a six-star rating and a BEES score of 106.4 points (97.7 for efficiency with an 8.7 renewables bonus). CO2 emissions are reduced 81% to 14,498 pounds per year. Net site energy costs in this scenario drop from $18,619 to $1,734 (91%), while the amount of the Borough’s annual electricity subsidy, associated with the portion of the building’s electricity supplied from the village’s diesel-fired microgrid, drops from $6,763 to $3,913 (42%).

While several aspects of the project scope require specialized knowledge, VOW and TNHA plan to hire local laborers to the extent practical under the supervision of TNHA’s construction superintendent and tradespeople. This will expose tribal members to applied building science and advanced energy technology concepts, ensure federal dollars invested in the project achieve maximum impact in the community, and aid the development of the village workforce.

Since VOW intends to operate the facility primarily for the benefit of low-income families in accordance with HUD funding requirements, operating revenues presumably will be modest. A significant reduction in costs associated with energy utilities, therefore, will enable VOW to serve the community more effectively by offering affordable childcare in a safe, healthy, comfortable, energy-efficient, long-lasting and low-maintenance facility.

A.5 Impact of DOE Funding

DOE funding will dramatically lower VOW’s cost to operate the facility over the long term. It is extremely expensive to construct or renovate buildings in the arctic due to several factors, including the remoteness and lack of infrastructure, high shipping costs, harsh climate and shortage of skilled labor. This funding will widen the energy scope and support project decisions that are less driven by minimum prescriptive requirements than holistic performance outcomes.

If the project is not funded, building efficiency and ventilation upgrades will be made, but thermal loads will be reduced to a far lesser extent and the building will retain a diesel-fired boiler. An energy model for this scenario projects a four-star-plus rating (86 BEES points) with total annual fuel and electricity consumption of 678 gallons and 20,466 kWh. The total annual site energy cost would be $11,512, 38% lower than the $18,619 baseline cost model, but nearly an order of magnitude higher than the $1,734 annual site cost for the proposed project outcome.
Pursuing the more conventional approach would be within the prevailing regional development paradigm. This has been unnaturally influenced, however, by the NSB’s practice of heavily subsidizing energy costs. Rates paid for fuel and power in Wainwright and other North Slope villages are far lower than most other regions of the state. The NSB’s power generation enterprise reported losses of about $18 million annually in recent years, and while these losses may not be passed on directly to the consumer, they represent a significant opportunity cost in the form of other essential municipal services and public works (e.g., public health, water and sewer, housing, police and fire protection, etc.) that could benefit NSB communities.

Finally, given the outlook for the diminishing role of fossil fuels in the global economy and the fact that the NSB depends almost entirely on the oil and gas industry for its revenue, prudence dictates that new capital investments made on the North Slope today account for the long-term decline in the availability of conventional resources. This DOE funding would make the difference between a facility that burdens its owner and the public with untenable energy costs and a facility that serves as a regional exemplar of economically sustainable design.
B. PROJECT DESCRIPTION AND OUTCOMES

B.1 Detailed Project Description

Relevance and Goal
The Village of Wainwright understands that it is the aim of this FOA to support Indian Tribes and Alaska Native villages as they harness and utilize the energy resources on their sovereign land to strengthen infrastructure, develop local economies, and increase energy security. This project is intended to address several needs, the foremost of which is the need to minimize the long-term operating costs of a tribally-owned childcare center serving primarily low-income Alaska Native families. It will also provide labor opportunities for village residents within the nation’s growing advanced energy economy and serve as a bellwether for the application of building science and energy transition principles for the betterment of human circumstances in Arctic Alaska, one of the most remote and rapidly changing environments on the planet.

Project Location and Building Description
The project will affect a 1,500-square-foot modular single-story building located at 911 Church Road in Wainwright, Alaska. It was built in 1992 as a federal scout armory. The site is approximately one block east of the intersection of Penn Street and Church Road on the map provided in the Site and Resource Map and Graphics File. The building was eventually decommissioned by the U.S. Army and disconnected from power, water and sewer utilities, and ownership conveyed to the Village of Wainwright in 2019. The property is now on tribally owned fee land. The lot size and orientation will accommodate a container-mounted photovoltaic array with unobstructed southern exposure. The system size proposed for this project is 10 kW.

B.2 Analyses, Feasibility Study and Energy Audits
Due to pandemic travel limitations, an on-site energy audit could not be timely conducted prior to this application. It was instead performed remotely by a professional energy rater with personnel in the village assisting with dimensional measurements and photographs.

Three alternatives were analyzed using the AkWarm energy modeling software: (1) upgrades to the building envelope only, (2) upgrades to the building envelope and mechanical systems, and
(3) upgrades to the building envelope and mechanical systems with the addition of a 10 kW on-site photovoltaic energy generating system. (Note: while energy usage was modeled in the AkWarm software, which contains a library of retail (subsidized) energy cost data for most utilities in Alaska, energy costs used in this analysis are based on figures from the 2015 NSB Regional Energy Plan and 2019 Alaska Power Cost Equalization report.)

- The baseline (“As-Is Rating” in the Design and Engineering File) estimates that 1,614 gallons of diesel and 21,250 kWh of electricity are consumed by building processes at a total annual site energy cost of $18,619 and energy cost index (ECI) of $12.41/sf-year.
- Alternative 1 achieves a reduction to 678 gallons and 20,466 kWh for a total annual site energy cost of $11,512 and ECI of $7.67/sf-year.
- Alternative 2 achieves a reduction to 14,395 kWh and eliminates site diesel use in favor of a heat pump, at a total annual site energy cost of $4,438 (ECI of $2.96/sf-year).
- Alternative 3 adds 10 kW of photovoltaic generation to Alternative 2. It was projected using NREL pvWatts to offset annual electricity consumption by 8,281 kWh, resulting in net annual site consumption of 6,114 kWh at a total annual site energy cost of $1,734 (ECI of $1.16/sf-year). This alternative was selected as it best meets the tribal objective of achieving the lowest possible long-term facility operating costs.

### B.3 Technical Viability

#### Viability and Approach

Photovoltaic energy generating systems have been installed in several remote rural Alaska communities in recent years, reducing reliance on diesel-generated electricity that costs as much as $1 per kWh to produce—more than eight times the national average. Much larger systems than the one proposed for this project have been installed in villages like Hughes (120 kW) and Buckland (50 kW). These systems, which harness a readily available renewable resource in the summer and shoulder seasons, are commercially-proven and warranted, relatively simple to design and install and have a minimal operating and maintenance burden.
The basic concept behind the EEMs chosen is reduction of the building’s design heating load to enable fully electric mechanical processes with low energy input requirements. To achieve this the project will draw on the five passive house principles:

- No thermal bridging
- Superior windows
- Mechanical ventilation with heat recovery
- Quality insulation
- Airtight construction

Systems and Materials
Continuous exterior insulation in the form of layers of semi-rigid mineral wool board will be added to the roof, walls and floor of the structure outboard of a new vapor permeable air barrier to eliminate thermal bridging and achieve airtightness of 1.6 ACH50 or lower. Mineral wool offers thermal performance on par with other forms of insulation, but has several advantages, including fire resistance, hydrophobic and acoustical dampening properties that make it an ideal choice for this type of project. (TNHA construction personnel also have current experience working with the Comfortboard 80 mineral wool board product on a multiplex renovation in a different community.) A weather-resistant barrier will be applied to the outside of the mineral wool board with rainscreen furring applied over the top of that prior to cladding. High-performance triple-glazed low-E windows will be installed.

Mechanical systems consist of a Sanden CO2 high-performance tapes, air-to-water heat pump with hydronic in-floor radiant distribution (Warmboard-R), Sunbandit, Minotair conditioning energy-recovery ventilator with integrated heat pump, etc. Describe commercial nature of EEMs (available from 475 Building Supply, Minotair certified by HVI) and case studies of proven cold-climate use (see Mark about this). Create material and equipment list for design and engineering file.

Installation Methodology
The installation and commissioning of the PV system will be contracted to a local company with tribal preference where possible. Direct air sealing and insulation will be managed by TNHA force account crew led by Mr. Mark Houston, TNHA Construction manager.
Barriers

Pending utilities interconnection agreement with NSB and COVID delays are the main obstacles we expect. The NSB connected a 1 kW residential PV system in Anaktuvuk Pass, another village in the North Slope of Alaska in 2011.

Performance Verification

There is significant scientific and technical interest in tracking the performance of this PV system in the high arctic. There is also interest in terms of its cost-saving and disaster mitigation potential for this Child Care facility, given variability in the power availability in Wainwright.

Rigorous performance verification and testing protocols will be requested by the contracted installation engineer. Rigorous evaluation, measurement and verification protocols will be established. Electricity production is easy to monitor with commercial-off-the-shelf devices. Fuel usage from the backup Toyo stove will also be tracked with cooperation from Tribal staff. Systems like the Emporia Vue or Sense monitors make this easy.

Operations and Maintenance Plan

We will be requesting training and technical support for the Minotair and Sanden combination heat pump systems installed and local maintenance crew will pursue heat pump certification training. Otherwise the O&M plan for our stationary PV systems involves regular snow removal, occasional panel replacement when panels are damaged over time.

B.4 Economic Viability

Current Energy Costs

The North Slope Borough total cost of electricity in Wainwright reported in its 2015 Regional Energy Plan is $0.64 per kWh. Commercial retail electricity rates are as follows:

- 0-1,000 $0.20 per kWh ($0.44/kWh subsidy)
- 1,001-10,000 $0.30 per kWh ($0.34/kWh subsidy)
- 10,000+ $0.35 per kWh ($0.29/kWh subsidy)
Heating fuel (#2 heating oil) is sold to commercial users at $7.30 per gallon. This is presumed to be close to the North Slope Borough's cost per gallon to import via barge.

The energy models reflect a baseline design heating load of 45,778 Btu/hr that is reduced 68% to 14,817 Btu/hr. This is achieved by improving building airtightness from a presumed 6.0 to 1.6 air changes per hour at 50 Pascals and increasing insulation levels from presumed R-34, R-14, and R-31 in the ceiling, walls and floor respectively to R-82, R-56, and R-78. The use of fossil fuel is eliminated in the building (except for emergency backup heat), saving 2,778 gallons of heating oil per year when combined with electricity savings from efficiency and on-site renewables. This assumes a typical diesel generator efficiency of 13 gallons per kWh; 1,164 gallons of diesel are saved at the village power plant by reducing grid-supplied electricity from 21,250 to 6,114 kWh annually and 1,614 gallons are saved on-site from conversion of the building's diesel heating plant to an electric heat pump.

**Total Installed Cost**

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**Life Of The Proposed Energy Generating System**

20 years.

**Payback Period**

The total investment in the project is assumed to be $200,000. The annual difference in site energy cost between the baseline model and third upgrade alternative is $16,885 ($18,619 minus $1,734). This yields a simple payback of 11.8 years on the DOE's investment and a net
present value of $10,424 over a period of 20 years using a 5% discount rate. (Note: this figure is conservative as it does not account for additional savings due to rate escalation or savings accrued by the North Slope Borough due to the avoided cost of power generation subsidies.)

Sources of Financing
The renovation project is primarily funded by a $750,000 Indian Community Development Block Grant (ICDBG) awarded by HUD to the Tribe, matched by $250,000 in unrestricted funding from TNHA. The ICDBG has up to a 36-month performance period and can be used for a wide variety of housing, community facilities, and economic development projects, so long as they primarily serve low-income American Indian or Alaska Native beneficiaries. Per federal regulation (24 CFR § 1003.201), ICDBG funding can also be used as payment of non-federal cost share for other grants.

B.5 Outcomes

Summary of Energy Saved, Displaced or Generated

- Baseline annual site energy consumption:
  - 1614 gallons of fuel oil
  - 21,250 kWh
  - Total site energy use 296 MMBtu
  - Total site energy cost $18,619
  - Site energy usage (cost) indices: 197.3 kBtu/sf-yr ($12.41)
- Site consumption after building envelope and mechanical upgrades:
  - 14,395 kWh
  - Total site energy use 49 MMBtu
  - Total site energy cost $4,438
  - Site energy usage (cost) indices: 32.6 kBtu/sf-yr ($2.96)
  - Site energy usage (cost) savings percentage over baseline: 83% (76%)
- Net site consumption after efficiency upgrades and 10 kW photovoltaic system:
  - 6,114 kWh
  - Net total site energy use 21 MMBtu
  - Net total site energy cost $1,734
  - Net site energy use (cost) indices: 14 kBtu/sf-yr ($1.16)
Net site energy usage (cost) savings percentage over baseline: 93% (91%)

Economic Benefits

- Total site energy cost savings of $16,885 in the first year; cumulative savings of $337,700 over a 20-year project life (no escalation); $444,058 with 2% energy cost escalation
- Total external (subsidy) savings of $7,953 in the first year; cumulative savings of $159,060 over 20-year project life (no escalation); $209,148 (2% energy cost escalation)
- Total system savings (including subsidy) of $24,838 in the first year; cumulative savings of $496,760 over 20-year project life (no escalation); $653,190 (2% energy cost escalation)
- 2-3 local workers trained in exterior insulation techniques and photovoltaic installation process
- Number of jobs created during installation and during operation over the life of the system(s): 2 engineers, 2 construction, 2 maintenance staff.

Environmental Benefits

Reduction in greenhouse gas emissions including SO2, NOx, and CO2 in tons according to EPA Power Profiler at [http://oaspub.epa.gov/powerpro/ept_pack_charts](http://oaspub.epa.gov/powerpro/ept_pack_charts), is calculated at:

- Reduction in annual CO2 emissions from 78,131 to 14,498 pounds (81%)

Other Outcomes

This project, which already has a high profile due to being the first-ever ICDBG awarded in the region, will further position the Village of Wainwright as a clear leader among regional tribes in self-determined energy independence and environmental stewardship. Alaska’s North Slope tribal communities have been underrepresented in the advanced energy economy to date. This project will familiarize residents of Wainwright and across the region with the practical benefits of greater participation in the global energy transition, such as lower facility operating costs and increased occupant comfort, and serve as a catalyst for more confident exercise of energy sovereignty and further economic development efforts between tribal and municipal entities.
C. ROLES, RESPONSIBILITIES, CAPABILITIES, AND COMMITMENT

C.1 Points of Contact

The Business Contact is Alana Shaw, Program Manager for the Village of Wainwright (Tribe). The Technical Contact is Griffin Hagle, Executive Director of Tagiugmiullu Nunamiullu Housing Authority (Subrecipient) per authorizing Tribal resolution.

C.2 Project Management Approach

Organizational Roles and Responsibilities

Dr. Alana Shaw is the Program Manager for the Village of Wainwright (Tribe) and oversees the ICDBG program to renovate the former armory building owned by the Tribe into a community childcare center. She will manage all sources of funding contributed to this project, including DOE funding, if awarded. Mr. Griffin Hagle is the Executive Director of Tagiumiullu Nunamiullu Housing Authority (TNHA), the project developer and subrecipient, and will direct the technical implementation of the project, including selection of contractors and procurement of materials and equipment.

Organizational Relationships

The Tribe and TNHA have a subrecipient agreement in place as of August 2020 for the ICDBG-funded portion of this project as required by HUD. An addendum can be added to this agreement to include provisions for the use of DOE funds if awarded. TNHA is an established force-account employer with in-house seasonal construction personnel, as is common practice among regional housing authorities in Alaska. Project-based labor is sourced locally to the extent practical when major construction activity is scheduled for a certain community. If DOE funds are awarded to this project, TNHA will publish a competitive procurement for the mechanical and photovoltaic systems’ installation and commissioning.

Capabilities of the Applicant

Ms. Alana Shaw, PhD Environmental Conservation works for the Village of Wainwright, federally-recognized Tribal government serving a small remote Alaska Native village with three
full-time staff: an administrator, program manager, and administrative assistant. Ms. Shaw has many roles including Environmental PM and Economic Development Manager. TNHA is a regional Native housing authority and community-based development organization serving the Village of Wainwright. It has approximately 35 full-time and seasonal staff. Mr. Griffin Hagle is Executive Director and Mr. Erik Johnson, PE is Construction Superintendent.

Resumes are attached to the appropriate section.

Past Projects

The North Slope Borough published a Regional Energy Plan in 2015. The community energy profile for Wainwright lists energy efficiency upgrades to public and community facilities and solar photovoltaic technology as “high potential” energy improvements.

Level of Commitment

The Village of Wainwright has submitted a tribal council resolution authorizing this application and memorializing its commitment to the project. Cost share totaling up to $200,000 is committed: $150,000 from the Tribe’s ICDBG award, and $50,000 from TNHA's unrestricted funding.

The regulatory authority permitting the use of ICDBG funds as non-federal cost share can be found at 24 CFR § 1003.201(g): “Payment of non-Federal share. Payment of the non-Federal share required in connection with a Federal grant-in-aid program undertaken as part of ICDBG activities, provided, that such payment shall be limited to activities otherwise eligible and in compliance with applicable requirements under this subpart.”
PROJECT NAME: Atqasuk W&S Connections
LOCATION: Atqasuk

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Atqasuk W&S Connections
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is for expansion of the Atqasuk water and sewer system. This request includes extension of the water and sewer mains approximately 1,300 linear feet, and installation of 15 new water and sewer service connections. The design for this project is complete.

The existing WWTP is near capacity with periods of flow exceeding the plant capacity. Adding any new services connections will put the plant at capacity. Construction of the WWTP, under 60-122, is necessary before the new service connections can be performed.

The extension of water and sewer mains are necessary to add the new service connections; homes served by truck haul are outside of the existing piped water distribution and sewer collection system. The expanded water distribution area will increase the fire department’s service area. New fire hydrants are included on the new mains to provide fire water coverage for these new service areas.

4. PROJECT LOCATION:
Atqasuk
PROJECT NAME: Atqasuk W&S Connections
LOCATION: Atqasuk

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design &amp; Construction Administration</td>
<td>2013 PRC funding</td>
<td>$ 1,050,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>CNST/PM/Profit/OH</td>
<td>2015 HMS Cost Estimate plus time escalation</td>
<td>$ 20,771,482</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @ 10%</td>
<td></td>
<td>$ 2,077,148</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% of Construction</td>
<td>Engineer estimate</td>
<td>$ 3,427,295</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

| TOTAL                        |                                                     |                                                   | $ 26,725,295 |

TOTAL PROJECT COST (if different) $ 29,233,049

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
   If yes, indicate name and CIP project number: 59-137 ATQ WATER & SEWER CONNECTIONS
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   Construction will occur over two years: Phase 1- Underground Connections- $23,550,434; Phase 2- Above Grade Connections- $1,709,306. Alternately the work could be divided into 4 phases for funding.
PROJECT NAME: Atqasuk W&S Connections  
LOCATION: Atqasuk

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough's Repair & Replacement Schedule?  ☒ No  ☐ Yes  
If Yes, is it scheduled for replacement before 2026?  ☐ No  ☒ Yes  
If No, explain why it should be considered out of sequence:  

| This project is for the design and construction of new infrastructure that will be added to the repair and replacement schedule upon completion of construction. |

10. PROJECT JUSTIFICATION:  Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  

| Expanding the Atqasuk water and sewer system will meet growth needs and provide basic quality of health for the community of Atqasuk. |

| B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs. |

| Upgrades include extending the existing water and sewer mains, and installing 15 new water and sewer service connections. The new connections will increase both operating and maintenance costs, but will reduce the costs of truck haul service. |

| C. Indicate if this is a reoccurring upgrade or repair. |

| N/A |

| D. Detail outside funds being leveraged, if applicable. |

| none |

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☐ No  ☒ Yes  
(If yes, include written verification)  
Explanation, if necessary:  

| |

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ Yes  ☐ No  
(If yes, include written verification)  
Explanation, if necessary:  

| |

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ Yes  ☐ No  
(If yes, include written verification)  
Explanation, if necessary:  

| |
PROJECT NAME: Atqasuk W&S Connections
LOCATION: Atqasuk

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
The project covers proactive upgrades and improvements that impact the public utility’s ability to provide services. Without the upfund, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☒ No ☐ Yes If yes, indicate PAR name and date: W/S Connections Atqasuk and Nuiqsut, Alaska; 02-22-13 Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Nuiqsut W&S Connections

LOCATION: Nuiqsut

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 09-138
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Nuiqsut W&S Connections
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is to expand the Nuiqsut water and sewer system. The design and construction scope includes extending the water main approximately 4,000 linear feet, extending the sewer main approximately 3,000 linear feet, installing four new fire hydrants, and installing 14 new water and sewer service connections. The design for the project is complete.

Completed - The project cost estimate is separated into three main phases, Phase 1 & 2: install above- and below-ground service laterals on the north side of the village[completed], and Phase 3: install water and sewer mains on the west side of the village. Phase 3 presents significant upgrades to the water and sewer infrastructure of Nuiqsut.

Completed - Funding was appropriated in 2015 to upgrade the School’s sewer line and in 2016 to install the Phase 1 & 2 water and sewer laterals to the homes on the north end of the village that already have water mains. These homes were on sewer holding tanks that are increasingly having problems. Construction of Phase 1 and Phase 2 is complete.

This project request is to begin the construction of Phase 3, installing water and sewer mains on the west side of the village. Seven residences are in this vicinity currently.

4. PROJECT LOCATION:

Nuiqsut
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design &amp; Construction Administration</td>
<td>2013 PRC funding</td>
<td>$ 1,050,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>CNST/PM/Profit/OH</td>
<td>2015 HMS Cost Estimate plus time escalation</td>
<td>$ 12,730,909</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @ 10%</td>
<td></td>
<td>$ 1,273,091</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>15% of Construction</td>
<td>Engineer estimate</td>
<td>$ 1,909,636</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$ 15,913,636</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $ 

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete remainder of Phase 3 Construction</td>
<td></td>
<td></td>
<td>$ 12,730,9090</td>
</tr>
<tr>
<td>10% CIPM Admin</td>
<td></td>
<td></td>
<td>$ 1,273,091</td>
</tr>
<tr>
<td>15% Contingency</td>
<td></td>
<td></td>
<td>$ 1,909,636</td>
</tr>
<tr>
<td>This request</td>
<td></td>
<td></td>
<td>$ 15,913,636</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☑ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☑ Yes

If yes, indicate name and CIP project number: 59-138 NUI WATER & SEWER CONNECTIONS

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 3 - Expansion of mains on west side of village $15,913,636. School Connection Upgrade $900,000 (Completed); Phase 1 - Below Grade Construction $2,000,000 (Completed); Phase 2 - Above Grade Construction $1,406,250 (Completed);
PROJECT NAME: Nuiqsut W&S Connections
LOCATION: Nuiqsut

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☐ Yes
   If No, explain why it should be considered out of sequence:

   This project is for the design and construction of new infrastructure that will be added to the repair and replacement schedule upon completion of construction.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   Expanding the Nuiqsut water and sewer system will meet growth needs and provide basic quality of health for the community of Nuiqsut.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   These upgrades will increase both operating and maintenance costs, but will decrease the cost of truck haul service.

    C. Indicate if this is a reoccurring upgrade or repair.

   N/A

    D. Detail outside funds being leveraged, if applicable.

   none

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
    Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
□ No  □ Yes  (If yes, include written verification)  
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
□ No  □ Yes  If yes, indicate PAR name and date: W/S Connections Atqasuk and Nuiqsut, Alaska; 02-22-13  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.  
Design is completed on this project.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS New W/S Service Connections
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-142
DATE SUBMITTED: 3/12/2012
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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Instructions:
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS New W/S Service Connections
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-funding request to cover construction, design, and administrative costs for new water and sewer connections to the Barrow Utilidor System. Currently, there are 79 applications submitted for new water and sewer service connections. This Project Request is to complete the first 20 residences that are ready for connections.

4. PROJECT LOCATION:
Utqiagvik
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project request is $6,083,609

6. **PROJECT COST**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A&amp;E Design Services @8%</td>
<td>$340,342</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
<td>$4,254,272</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td>$425,427</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>25% Contingency</td>
<td>$1,063,568</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$ 6,083,609</strong></td>
<td></td>
</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td><strong>$ 24,030,255</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   [ ] No  [ ] Yes

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project?  
   [ ] No  [ ] Yes

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   **$6,083,609** is needed to install 20 connections. To install the remaining 59 connections, an additional **$17,946,646** will be needed.
PROJECT NAME: BUS New W/S Service Connections  
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes  
If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes  
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
Re-funding this project is necessary in order to provide basic water and sewer service to new applicants and decrease dependence on hauled water and sewer and to eliminate honeybucket usage.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
This will expand facilities and meet the Borough’s mission to increase the availability of clean water and sanitary sewer disposal to residents.

C. Indicate if this is a reoccurring upgrade or repair.  
This is a recurring up-fund request.

D. Detail outside funds being leveraged, if applicable.  
None.

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)  
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:
Considerable effort and resources are needed to maintain truck haul to services that are on holding tanks and honeybuckets however.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?
☒ No ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<thead>
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</tbody>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Water Treatment Plant Upgrade
LOCATION: Wainwright

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES
CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
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Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Wainwright Water Treatment Plant Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request will provide funding for the construction of the Water Treatment Plant (WTP) Upgrades for the community of Wainwright.

This project replaces two of the three buildings associated with the Wainwright WTP which have reached the end of their serviceable life. The maintenance building and the boiler/pump building will be demolished, and a 4700 square foot addition to the treatment building will be constructed. The new addition will include a garage/maintenance room; a mechanical room for boilers, heat exchangers, fire pump, and distribution pumps; chemical storage rooms; administrative office space, break area, rest rooms and storage.

The project design complete and ready for bidding.

The existing foundation has documented pile concerns. The maintenance bay floor has failed.

2019 PRC funded this project at $9,558,000. 2020 PRC added $6,490,000.

Modification for this upfund request include;
- local hire provisions
- Contaminated soil cleanup
- Construction Administration requests to provide adequate field support and Construction Admin and design reviews
- Inflation indexed another year

4. PROJECT LOCATION:
Wainwright
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project request is $4,249,700

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Additional CA Services</td>
<td></td>
<td>$338,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction Inflation 5% from 2020 and Contaminated Site</td>
<td>Inflation $855,400 Contaminated Site $830,000</td>
<td>$1,685,400</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$2,226,300</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
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<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$4,249,700</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $21,357,700

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

The designer will be bidding this construction by the time PRC convenes. CA funds will be needed shortly after a contractor is selected.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

If yes, indicate name and CIP project number: 59-145 Wainwright WTP Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2026? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   This project was scheduled for replacement in 2013.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   A new addition to the process building will provide a new maintenance shop, chemical storage room, new heating and pumping equipment, a new office, break room and bathrooms. Updated work areas will provide a more modern and efficient use of space.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This project will not expand facilities or services, but will replace outdated facilities and reduce operating and maintenance costs.
   C. Indicate if this is a reoccurring upgrade or repair.
   N/A.
   D. Detail outside funds being leveraged, if applicable.
   This project was ranked 5th on the State of Alaska DEC Alaska Drinking Water Fund. This is a revolving Loan Fund for low interesting loans competitive with bond rates.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:
   The floor of the maintenance bay has failed. Portions of the bay are barricaded off for safety.

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:
### 12. PROJECT ANALYSIS REPORT (PAR) STATUS:

Has a PAR for this project been completed?
- [ ] No
- [x] Yes

If yes, indicate PAR name and date: WH Pacific PAR, 2010

Attach a copy of an executive summary, if possible

### 13. ATTACHMENTS:

List any supplemental information submitted with this request.

100% design is complete.

### 14. ADDITIONAL INFORMATION:

Include any pertinent information not requested elsewhere.

Breakdown of request from Mr. Jason Peterson, email dated 1/8/2021.

### 15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
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<tbody>
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<tr>
<th>Department Director Name:</th>
<th>Scott Danner, Public Works Director</th>
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</thead>
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<tr>
<td>Department Director Signature:</td>
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</tr>
</tbody>
</table>

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**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** AKP Water & Sewer Connections Phase 1

**LOCATION:** Anaktuvuk Pass

---

**NSB PLANNING DEPARTMENT USE ONLY**

**TEMPORARY/CIP PROJECT NUMBER:** 09-148

**DATE SUBMITTED:** 3/12/2021

**REQUESTING ENTITY:** Public Works Water & Sewer Utility

---

**NORTH SLOPE BOROUGH**

**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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Instructions:

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:** Public Works Water & Sewer Utility

2. **PROJECT NAME:** AKP Water & Sewer Connections Phase 1

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   Anaktuvuk Pass has 28 homes that have requested service connections to the piped water and sewer system. These homes are currently receiving tank truck haul service or are served by honey bucket. The village water supply and water treatment/distribution plant has the capacity to support the new services. The wastewater treatment plant is adequately sized for the additional services. Very few homes have been added to the piped system since it was installed in the late 1990's.

   Completion of this project will move homes from truck haul to piped water and sewer.

   Ten services were funded in 2019 which are slated for summer 2021 construction.

   18 additional services require connection, including residential services, NSB Itinerate Housing and THNA houses.

---

4. **PROJECT LOCATION:**

   Anaktuvuk Pass

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**AMOUNT REQUESTED:** $2,851,000

**TYPE:** Upfund

**AMOUNT RECOMMENDED:**
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Project Analysis Report</td>
<td>Previously funded</td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design &amp; Construction Administration</td>
<td>Previously funded</td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>CNST/PM/Profit/OH</td>
<td>Design Estimate</td>
<td>$2,320,910</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @10% Total</td>
<td>Historical</td>
<td>$211,291</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>20% of Construction Costs</td>
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<td>$318,582</td>
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<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$2,850,784</td>
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</tbody>
</table>

**TOTAL PROJECT COST (if different)** $6,222,079

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☒ Yes ☐ No

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUNDS:**

Is this a phased project or a follow-up to an existing CIP project? ☒ Yes ☐ No

If yes, indicate name and CIP project number: AKP Water Sewer Connections 59-148

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This is a phased project currently. The funding request could be broken into 1 to 2 more phases.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   This project is for new infrastructure that will be added to the Repair & Replacement Schedule once it is completed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      This project will expand the service levels of the piped water and sewer system to 28 homes that are currently using honey buckets or are on the truck haul system.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will expand services to 28 homes, but will reduce operating and maintenance costs of water and sewer truck haul currently provided for these services.
   C. Indicate if this is a reoccurring upgrade or repair.
      N/A.
   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date: Anaktuvuk Pass Water & Sewer Connections - Phase 1, 2014
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
Design is completed on this project for 22 services.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
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Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW Water Storage Tank Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is for upgrades to water storage tanks in Point Lay and Wainwright. The project design has been completed for the Point Lay tank since 2013.

In Wainwright, partial repairs were completed on Tank #1 to stabilize the tank's foundation, which has undergone settlement and erosion. Recommended rehabilitation will allow continued use of the tank for up to 5 years while long-term alternatives are considered for implementation. New Scope Wainwright Tanks 1 and 2 were found with severely corroded floor plates and are recommended to be removed from service until the plate can be replaced. Loss of this storage capacity will require additional winter water hauls or risk domestic water and fire water supplies. These scopes were funded by 2019 and 2020 PRC.

In Point Lay, the East Tank repairs include the complete removal of the existing tank roof insulation system, re-coating of the tank roof surface, and installation of a new metal clad insulation system. The coating system is worn, with several large areas of the tank roofing where the coatings have failed, and insulation is exposed. The upper layers of the roof have been saturated and are degrading. Re-coating of the interior of the tank wall is part of this scope of work. Design is complete. This scope is addressed on this request.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This request is for Point Lay $4,932,000.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/construction administration services</td>
<td></td>
<td>$120,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction Costs - Engineer's Estimate</td>
<td></td>
<td>$4,000,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @10% Total</td>
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<td>$412,000</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>Contingency 10% for PIZ</td>
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<td>$400,000</td>
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<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$4,932,000</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $14,103,600

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?  
   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  
   If yes, indicate name and CIP project number: 59-149 AW Water Storage Tank Upgrades
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Similar project upfunds are anticipated for approximately 5 years to upgrade the remaining NSB water storage tanks.
PROJECT NAME: AW Water Storage Tank Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

Corrosion Protection replacement due in 2010 for Point Lay East Tank. Recent inspections on Wainwright tanks determined that the floor plate is thin and recommended removed from service until upgraded.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will increase the service life of the existing NSB water storage assets. The existing tank in Point Lay has damaged insulation and coatings that will contribute towards premature corrosion-based failures in the tanks. The Wainwright tank's floor plate require replacement to prevent structural failure of the tank and washout of the foundations.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will decrease the NSB operating costs by improving tank insulation.

C. Indicate if this is a reoccurring upgrade or repair.

This project is proposed as phased and expected to be recurring for approximately 5 years to upgrade all water storage tanks in service.

D. Detail outside funds being leveraged, if applicable.

None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

Tank assessments by Taku Engineering describe critical need.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

Engineering consultants have reviewed these water storage tanks and determined that failure to repair components of the system will lead to greater damage to NSB assets if left unaddressed.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

This project will reduce the energy used to heat treated water and ultimately protect NSB assets from failure.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

□ No □ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.


14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW Water Plant SCADA Systems Upgrades
LOCATION: Areawide

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW Water Plant SCADA Systems Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

At the village Water Treatment Plants, the water treatment process (equipment panels, nano-filters and micro-filter controls) and distribution controls are antiquated and lack remote access capability. Currently all metering, troubleshooting, emergency response and program maintenance has to be done on-site. Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access, i.e. text and voice alarm notifications, remote access for W&S Division review or remote operator troubleshooting.

The project involves upgrading Water Treatment Plant controls to ethernet and remote access, to include installing ethernet processors into logic racks, power supplies, ethernet bridges, switches, wiring, computers and human machine interface (HMI) devices. Develop SCADA programming for each facilities’ water treatment control panels.

The existing emergency autodialers no longer function as the telephone lines have been deactivated or removed from the buildings.

This is a phased project. Phase 1 Wainwright was funded in 2016 and subsequent BLT. This second phase requests design and construction funds for Point Lay.

4. PROJECT LOCATION:

Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total: $750,750
- Design: $210,000
- Construction: $472,500
- Administration: $68,250

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design</td>
<td>Encumbered amount from AIN phase</td>
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<td>Construction / Acquisition (anticipated costs)</td>
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<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$750,750</strong></td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      Additional villages will be requested as villages are completed.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☑️ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☑️ No ☒ Yes
If No, explain why it should be considered out of sequence:
The funding for the second phase of this project is for design and construction in Point Lay.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Emergency notifications have been disabled and need to be restored. Existing water treatment control panels, nano- and micro-filter control panels, and metering devices do not support ethernet access and thus do not support remote access (SCADA). Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access. The project will upgrade those devices, and configure HMI devices to access process instrumentation for remote monitoring in Barrow or by remote operator. Remote monitoring will improve response time for identifying leaks, thus reducing water loss.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will replace existing process hardware that will not affect O&M costs. New HMI devices in Point Lay and Barrow will require periodic maintenance and upgrade, with minor O&M costs. Should Wonderware be used for the HMI devices, annual licensing fees will be incurred by O&M.

C. Indicate if this is a reoccurring upgrade or repair.

This project is an upgrade.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑️ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑️ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑️ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

Accessing the water treatment processes remotely will save travel costs and man hours to troubleshoot plant issues and respond to plant emergencies during pumping season and annual distribution. It will also provide emergency callout notifications through the existing NSB network.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Point Lay W&S Upgrade Ph 1  
**LOCATION:** Point Lay

---

**NSB PLANNING DEPARTMENT USE ONLY**  
**TEMPORARY/CIP PROJECT NUMBER:** 09-151  
**DATE SUBMITTED:** 3/13/2021  
**REQUESTING ENTITY:** Public Works Water & Sewer Utility

---

**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

---

**Instructions:**
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Point Lay W&S Upgrade Ph 1

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The existing water and sewer system in Point Lay is damaged due to unstable permafrost. Water system leaks continue to occur with regular frequency and repairs are costly. The water loss jeopardizes the drinking and fire water reserves for Point Lay. The repairs have become a burden on the Operations budget, and are a routine source of community concerns elevated to the Mayors Office and Assembly. The buried system needs replacement in order to provide the essential service to residents, a replacement system is needed.

The North Slope Borough commissioned a conceptual study to evaluate lifecycle costs, advantages and disadvantages to replace failing water and sewer infrastructure. The study recommended installation of aboveground circulating water distribution and vacuum sewer collection systems. This upfund request request would fund Design, Planning and Permitting phases to develop the construction documents necessary to complete the project.

---

**4. PROJECT LOCATION:** Point Lay
**PROJECT NAME:** Point Lay W&S Upgrade Ph 1  
**LOCATION:** Point Lay

### 5. DOLLAR $ AMOUNT OF THIS REQUEST:
Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$3,082,000 for design/permitting of above grade circulating system for water, $3,218,000 for design/permitting of above grade vacuum sewer collection system, $630,000 for NSB project administration costs

### 6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design/Permitting/ROW/CA</td>
<td>Conceptual Design Report</td>
<td>$6,300,000</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
<td>$630,000</td>
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<tr>
<td>Administration</td>
<td>(NSB project management)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$6,930,000</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $  

### 7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

**No**  

### 8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  

**No**  

If yes, indicate name and CIP project number: 59-151 Point Lay W&S Upgrade Ph 1

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Conceptual report project construction schedule assumes the construction will take approximately 4 to 6 year to complete at a total installed cost of approximately $77,700,000

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

**N/A**

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Design funding needed current year. Construction phasing recommendations will be developed during design. It is anticipated that requests will be on the order of $20,000,000 per year for 3-4 years.
**PROJECT NAME:** Point Lay W&S Upgrade Ph 1  
**LOCATION:** Point Lay

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes  
If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes  
If No, explain why it should be considered out of sequence:

Water and Sewer systems in Point Lay are experiencing a high rate of service interruptions and increasing repair costs, which is not sustainable. Ongoing discussions with Public Works, NSB Mayor and Assembly have produced this request. The request is the result of a need to provide residents of Point Lay a reliable water and sewer infrastructure. The funding schedule allows this to be added to the 6 year R&R plan.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project would replace damaged infrastructure. The reliability of the system will improve as well as reducing service interruptions. The existing system is stressed beyond design, and weak points show as water leaks. Permafrost instabilities have created undulations in the gravity sewer collection system that cause sewage solids to collect and block off the mains, which backs up into homes flooding floors, creating a health and human safety risk. This project would replace the failing infrastructure with above grade systems that are isolated from the ground movement and field adjustable to ensure proper operation without costly excavations.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Operating and Maintenance costs are expected to decrease as emergency leak repairs will be reduced. Once completed, this project will restore piped service to homes and facilities that have failed and been transitioned to tanked service. The net cost impact is to the NSB is a reduction of O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time project.

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  
(If yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  
(If yes, include written verification)  
Explanation, if necessary:

Multiple reports and the CDR discusses the extensive failures in Point Lay and recommends replacing the system.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  
(If yes, include written verification)  
Explanation, if necessary:

Access to potable water is documented as having a positive effect on human health. Similarly, removing wastewaters from dwellings is documented as having positive effects. Further, eliminating the potential for wastewater backups into will also improve public health.
PROJECT NAME: Point Lay W&S Upgrade Ph 1
LOCATION: Point Lay

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☑ Yes *(If yes, include written verification)*

The CDR discusses the costs associated with continuing on without change, but does not include the risk of failures.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☑ No ☑ Yes *(If yes, include written verification)*

Completion of this project will reduce emergency repair expenditures in Point Lay. 20 year lifecycle costs for the aboveground systems are $103,386,367. Lifecycle costs for maintenance of the existing systems are $146,495,410. Total lifecycle cost savings are estimated at $43,109,043.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☑ No ☑ Yes *(If yes, indicate PAR name and date)* 59-151 PIZ W&S Upgrades Phase 1 CDR

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

59-151 Point Lay W&S Upgrades Phase 1 CDR

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>
PROJECT NAME: BUS Service Connections Upgrades  
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-152  
DATE SUBMITTED: 3/12/2021  
REQUESTING ENTITY: Public Works Water & Sewer Utility  
AMOUNT REQUESTED: $799,000

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS Service Connections Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-funding request to cover construction, design, and administrative costs for upgraded water and sewer service connections to the Barrow Utilidor System. There are a number of services in the BUS that are reaching the end of their useful life. More than 40 services have required repeated and costly repairs. Upgrades to these service connections will reduce repeated O&M costs to maintain service. This up-funding request will cover construction, design and administrative costs to provide upgrades for the Barrow 21 Singles block above grade services and 10 additional above-ground services.

The design is complete for the final 10 services, funding is needed to compete the work.

4. PROJECT LOCATION: Utqiagvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request is is for $798,600 to complete the final 10 services at BRW 21 Singles.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design/Permitting/CA</td>
<td>10% construction</td>
<td>$60,000</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td>Based on</td>
<td>$600,000</td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management)</td>
<td></td>
<td>$66,000</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td>10%</td>
<td>$72,600</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$ 798,600</strong></td>
</tr>
</tbody>
</table>

| **TOTAL PROJECT COST** (if different) | **$ 1,685,600** |

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No  [ ] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  [ ] No  [ ] Yes
   If yes, indicate name and CIP project number: 59-152 BUS Service Connection Upgrades
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   This funding request is for the final phase of the 21 Singles upgrades. Additional phases may be identified in subsequent cycles.
PROJECT NAME: BUS Service Connections Upgrades  
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☑ Yes
   If No, explain why it should be considered out of sequence:
   This will correct problematic services that are requiring emergency repairs and need replacing.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Up-funding this project is necessary in order to upgrade existing problematic water and sewer service connections that continually drain the O&M budget.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   Upgrading existing problematic water and sewer connections will reduce emergency repairs and reduced the O&M budget.
   C. Indicate if this is a reoccurring upgrade or repair.
   This is a recurring upgrade to the system.
   D. Detail outside funds being leveraged, if applicable.
   None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:
Services with costly repeated repairs will be upgraded, significantly reducing the O&M budget spent on emergency repairs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☑ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

2015 BRW 21 Singles Design

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<td>Scott Danner, Public Works Director</td>
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<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
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</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS SCADA Monitoring System
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-153
DATE SUBMITTED: 3/12/2021
AMOUNT REQUESTED: $2,995,000
REQUESTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS SCADA Monitoring System
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The scope for this project request is to implement SCADA (Supervisory Control and Data Acquisition) systems in the Barrow Utility System (BUS). The SCADA would provide instant feedback to the BUS operators as to water distribution network flow rates, system pressure, and temperatures at key nodes of the system. System imbalances or decreasing temperatures would provide alarms to operators of potential problems in the distribution system, and provide tools to troubleshoot those issues.

2016 funding was approved for the design. This request is for SCADA implementation once the design is complete. 100% Design Documents have been completed and awaiting construction funding.

4. PROJECT LOCATION:
Utqiagvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Recoverable Costs</td>
<td>$70,391</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Actual Design Cost (174K) need CA services (165,375)</td>
<td>$339,375</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Design Estimate</td>
<td>$1,686,935</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>10%</td>
<td>$203,754</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$2,485,686</td>
</tr>
</tbody>
</table>

6. PROJECT COST: Complete the project cost table below as completely as possible.

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</tr>
<tr>
<td>Costs (PAR, other studies or reports, etc.)</td>
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<tr>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$2,485,686</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [x] No [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [x] No [ ] Yes

If yes, indicate name and CIP project number: 59-153 BUS SCADA System Design

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This project could be phased over two years, phase 1 $1,251,528 and phase 2 $1,039,198
PROJECT NAME: BUS SCADA Monitoring System
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:

   During February 2015, over 90 homes were without service at peak interruption (approximately 7% of Barrow customers). This was a significant event that might have been avoided if SCADA was in place.

10. PROJECT JUSTIFICATION:
   Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

      The BUS would benefit by having additional tools available for system monitoring, prediction of freeze-ups or locating leaks. The existing inspection methods are snapshots in time, that are compared daily. SCADA provides instant feedback and data can be compared over shorter periods of time, increasing operator response times, and reducing water system freeze ups.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

      This project would provide a minor increase facilities, mainly in terms of new components and support constructions within existing utilidor and BUS office. However, by adding the monitoring equipment, response time for operations would increase, possibly stopping freeze up issues before they start.

   C. Indicate if this is a reoccurring upgrade or repair.

      This would be a one time project.

   D. Detail outside funds being leveraged, if applicable.

      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

      The recent impacts to the water distribution system affected many residents. Their access to drinking water was interrupted, as well as means for basic sanitation.
PROJECT NAME: BUS SCADA Monitoring System  
LOCATION: Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

This project would be a preventative measure to reduce operating costs relating to freeze-ups and leaks. Both response types involve many manhours and overtime to resolve. Responding to a water main in the process of freezing is less costly than responding to a frozen water main.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☐ No ☒ Yes If yes, indicate PAR name and date: 2015-13 BUS SCADA Water Flow Monitoring

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Water Systems Major Repairs Project
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-155
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT REQUESTED: $3,600,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Water Systems Major Repairs Project
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-fund request for the Areawide Water Systems Major Repairs Project. The funds are requested to implement proactive upgrades and improvements, and upgrades required to correct system failures. An estimate of the expenditure per village is included under item 5 of this request.

This project funds the replacement of pipe, installation of trench plugs and insulation, the purchase of gravel, and the replacement of system components.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST:  Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$3,600,000 is anticipated to be used this funding cycle.
Breakdown per village is budgeted as follows, based on each system’s size and complexity:
AKP: $518,000  ATQ: $262,000  KAK: $518,000  NUI: $622,000  PHO: $311,000  PIZ: $591,000  AIN: $775,000

6. PROJECT COST:  Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering support, 10%</td>
<td></td>
<td>$300,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Emergency Repairs and System Upgrades</td>
<td></td>
<td>$3,000,000</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$300,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$3,600,000</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☒ No  ☐ Yes
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project?  ☐ No  ☒ Yes
If yes, indicate name and CIP project number:  59-127 Areawide Water Systems Major Repairs
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
AKP: $518,000  ATQ: $262,000  KAK: $518,000  NUI: $622,000  PHO: $311,000  PIZ: $591,000  AIN: $775,000

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide Water Systems Major Repairs Project
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   This project funds upgrades to components experiencing unexpected failure and which are not on the Repair and Replacement Schedule.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   C. Indicate if this is a reoccurring upgrade or repair.
   This is a recurring up-fund request.
   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott Danner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AKP 2nd Drinking Water Well
LOCATION: Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-156
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AKP 2nd Drinking Water Well
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The village of Anaktuvuk Pass has only one water well for its drinking water supply. The community has no alternatives for a drinking water source if the existing well were to become contaminated or otherwise non-functioning.

To provide redundancy and protect the Anaktuvuk Pass water supply from contamination or water shortage, this project request is for the design and construction of a second ground water well and new water storage tank.

A second water well will also supplement water production during high use periods, providing an increased rate of making water to replenish the water reserves.

This upfund request seeks funding to account for a COVID related additional HERC charter to mob a second time into AKP, design costs for controls and security features at a remote well house site and well house construction costs not included in the original PAR. Two replacement well cases have been set. The we

4. PROJECT LOCATION:
Utqiagvik
**PROJECT NAME:** AKP 2nd Drinking Water Well  
**LOCATION:** Anaktuvuk Pass

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

2017 appropriation $2,305,000  
2021 upfund request $1,346,806

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering Design, Construction Administration, Permitting</td>
<td>Extra Herc Mob and Controls/Security</td>
<td>$121,406</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction costs</td>
<td>Engineer Estimate High Range</td>
<td>$1,010,000</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$104,000</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>@ 10% of project costs</td>
<td></td>
<td>$111,400</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$1,346,806</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $3,651,806

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   □ No  □ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUNDS:**  
   Is this a phased project or a follow-up to an existing CIP project?  
   □ No  □ Yes
   If yes, indicate name and CIP project number: 59-156 AKP 2nd Drinking Water Well
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   This upfund request cannot be phased.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
If No, explain why it should be considered out of sequence:
This upfund request completes well casing installations complete in 2020. Until a well is developed and well house constructed, we have no redundancy for water supply in AKP.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
The village currently has no backup well or storage tank for drinking water. A new well and storage tank will provide the assurance of an uninterrupted water supply. The secondary well will also increase the water supply to the community by increasing the rate at which the water tank can be filled.
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This will expand facilities but will provide much needed redundancy in the drinking water system.
C. Indicate if this is a reoccurring upgrade or repair.
This is a one time up-fund request.
D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:
12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
☐ No  ☑ Yes  If yes, indicate PAR name and date: 2015-005 AKP New Water Well  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name: Scott Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature: [Signature]  Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: PIZ Drinking Water Source Development
LOCATION: Point Lay

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: PIZ Drinking Water Source Development
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

This project request is for funds to drill test wells under the Kasegaluk Lagoon and analysis of the level of treatment required for drinking water production. In addition, the project will approximately 1,300 linear feet of pipeline to connect the new water well into the treatment plant, and upgrade treatment equipment.

PRC 2019 funded $3,600,000
PRC 2020 funded $2,158,000

This upfund request reviewed budget status and appropriations. The estimates have been escalated for inflation, as well as accounted for funding of the

4. PROJECT LOCATION:

Point Lay

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-158
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

TYPE: Upfund
AMOUNT REQUESTED: $4,372,000
AMOUNT RECOMMENDED:
PROJECT NAME: PIZ Drinking Water Source Development
LOCATION: Point Lay

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This request is to horizontal drilling, permitting, additional funding for drilling, new well house, pipeline, facility and process upgrades is approximately $4,371,760.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Eng Report, Design, CA oversight, and permitting</td>
<td>Project Report</td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Construction</td>
<td>Remainder of Report Estimate</td>
<td>$ 2,854,712</td>
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<tr>
<td>Administration</td>
<td>CIPM Administration 10%</td>
<td>$ 331,939</td>
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<tr>
<td>Contingency</td>
<td>15% Project Contingency</td>
<td>$ 728,627</td>
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<tr>
<td>Other Costs (with description)</td>
<td>Inflation</td>
<td>$ 457,226</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>$ 4,371,760</td>
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</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td>$ 10,129,760</td>
<td></td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☐ Yes
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
If yes, indicate name and CIP project number: 59-158 PIZ Drinking Water Source Development

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 2 - Facility and process upgrades $2,157,194.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2025? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:
Since the draining of the fresh water lake in PIZ, a temporary water source has been used. A permanent water source needs to be developed.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This will expand facilities by adding a well and Reverse Osmosis treatment. But, the project will also allow for other facilities to be taken off-line. Point Lay West Tank tank may be able to be taken off-line. The tank is need of repair and cost for repair work is estimated to be between $2,000,000 to $5,000,000 depending on a current condition of the interior paint systems.

C. Indicate if this is a reoccurring upgrade or repair.
Not reoccurring.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Breach of the fresh water lake necessitates finding another source for drinking water. The Kasegaluk River was used to complete the 2016 pumping and for 2017 pumping as an interim source.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
PROJECT NAME: PIZ Drinking Water Source Development
LOCATION: Point Lay

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☐ No ☑ Yes *(If yes, include written verification)*

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☐ No ☑ Yes *(If yes, include written verification)*

Explanation, if necessary:

One water tank can be taken out of service, which can reduce heating costs of the tank, and also reduce repair costs of the tank.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☐ No ☑ Yes If yes, indicate PAR name and date: Point Lay Water Source Geotechnical Investigation at Kasegaluk Lagoon July 2017

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

The Project Report does not address the necessary process and facilities upgrades that are needed to make use of the new water source. Costs are included for the plant modifications.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
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</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Areawide Secondary Water Source  
**LOCATION:** Areawide

### NSB PLANNING DEPARTMENT USE ONLY

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER: 09-159</th>
<th>TYPE: Upfund</th>
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<tbody>
<tr>
<td>DATE SUBMITTED: 3/12/2021</td>
<td>AMOUNT REQUESTED: $4,095,000</td>
</tr>
<tr>
<td>REQUESTING ENTITY: Public Works Water &amp; Sewer Utility</td>
<td>AMOUNT RECOMMENDED:</td>
</tr>
</tbody>
</table>

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**CIP PROJECT REQUEST FORM**

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---

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**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility  
**2. PROJECT NAME:** Areawide Secondary Water Source  
**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design and construction for secondary water sources in Kaktovik, Point Hope and Wainwright. Instead of constructing a new water storage tank, a more sustainable and reliable water source can be developed for nearly year-round water production using a directionally-drilled well to access water under the ground or ice.

Wainwright's water storage capacity is less than what is needed. Two reservoirs have floor plate and foundation issues. Early water production by truck haul is necessary every year to provide water between April and July each year.

Point Hope’s water source lake is slowly draining out and has shrunk. The longevity of the water source has yet to be determined. Point Hope was funded by PRC 2019 and the design and well development contract is in place.

This request is for Wainwright. The first phase of this project will include data acquisition and well drilling. Subsequent phases will include design and construction of the well house and water line, and plant modification to include reverse osmosis treatment.

Benefits of this project include:
- increased reliability of potable water supply with potential for annual water supply;
- for Wainwright, elimination of $500,000 annual early water production cost;
- decreased urgency and cost of water leak repairs;
- option to decrease operational and future capital costs by minimizing water storage infrastructure.

**4. PROJECT LOCATION:**

Areawide
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
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<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Data Acquisition, Design, CA</td>
<td>PAR Estimate</td>
<td>$889,000</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Well Drilling</td>
<td>PAR Estimate</td>
<td>$2,923,000</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>NSB Admin 10%</td>
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<td>$282,370</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL** $4,094,370

**TOTAL PROJECT COST** (if different) $10,918,733

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** □ No  □ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? □ No  □ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

The project can be phased by village and drilling program and above grade constructions.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

**PHO $3,600,000 (funded), AIN $10,918,733, KAK $6,303,150**

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIN Phase 1 Data Acquisition, Well drilling, Design</td>
<td>$4,094,370</td>
</tr>
<tr>
<td>Phase 2 Well Development, well house pipeline, process upgrade</td>
<td>$6,824,362</td>
</tr>
<tr>
<td>KAK Phase 3 Data Acquisition, Well drilling, Design</td>
<td>$2,852,741</td>
</tr>
<tr>
<td>Phase 4 Well Development, well house pipeline, process upgrade</td>
<td>$3,450,409</td>
</tr>
</tbody>
</table>
PROJECT NAME: Areawide Secondary Water Source  
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
   If No, explain why it should be considered out of sequence:
   This project will result in significantly improved reliability of the water systems, reduce emergency repair costs, and eliminate emergency water haul costs.

10. PROJECT JUSTIFICATION:  Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      This project will provide access to new water sources for the communities. The water lake in Point Hope has shrunk and a new water source will be needed in coming years. Wainwright does not have enough water storage capacity to supply water to the community year-round. For the past four years, early water production has been necessary, costing $400k per year. This project will eliminate those costs and increase the reliability of the fresh water supply.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This will expand facilities and increase operating costs, but it will eliminate $400k for each avoided emergency water haul. By this spring, early water hauls will have cost in excess of $2 million in the past 5 years. The project will allow for existing water reservoirs to be taken offline; thus minimizing the O&M costs.
   C. Indicate if this is a reoccurring upgrade or repair.
      This is not a recurring upgrade or repair.
   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)
      Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes  (If yes, include written verification)
      Explanation, if necessary:
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  □ No  □ Yes  (If yes, include written verification)
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? [x] No  [ ] Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? [x] No  [ ] Yes  (If yes, include written verification)

Explanation, if necessary:

It will eliminate $400k for each avoided emergency water haul. By this spring, early water hauls will have cost $2 million in the past 5 years. Water tanks can also be removed from service, reducing O&M costs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? [x] No  [ ] Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<td>Department Director Name:</td>
<td>Scott Danner</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AIN W&S Blair Street Mains Upgrades
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-NEW-1 TYPE: New
DATE SUBMITTED: 3/12/2021 AMOUNT REQUESTED: $1,254,000
REQUESTING ENTITY: Public Works Water & Sewer AMOUNT RECOMMENDED:

NORTHERN SLOPE BOROUGH PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: AIN W&S Blair Street Mains Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is to replace a portion of the Blair Street water and sewer mains due to the excessive settlement and reoccurring breaks and service interruptions. The replacement is a capital effort to improve reliability to Public Works W&S services and reduce O&M burden.

4. PROJECT LOCATION:

Wainwright
6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>$1,254,000</strong></td>
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<tr>
<td><strong>TOTAL PROJECT COST</strong> (if different)</td>
<td></td>
<td><strong>$1,254,000</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☐ No ☑ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   This project cannot be phased.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   This is not an areawide project.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   This is not a phased project.
PROJECT NAME: AIN W&S Blair Street Mains Upgrades
LOCATION: Wainwright

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       This project is necessary to improve reliability of customer services. The existing mains are beginning to settle severely and is cause of problematic customer services in the Blair Street area.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       It will not expand facilities and/or services and will not affect operating and maintenance costs.
    C. Indicate if this is a reoccurring upgrade or repair.
       This is not a reoccurring upgrade or repair.
    D. Detail outside funds being leveraged, if applicable.
       Not applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date: Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW WTP Process Upgrades
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-NEW-2  TYPE: New
DATE SUBMITTED: 3/12/2021  AMOUNT REQUESTED: $3,945,000
REQUESTING ENTITY: Public Works Water & Sewer  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: AW WTP Process Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project requests funds to upgrade some of the processes at the water treatment plants in all seven villages. Specific upgrades are: installing mixers in the water storage reservoirs, re-configuring Point Hope’s reservoir heating system, and installing a by-pass at all heat exchangers.

All of the process and facility control panels, Human-Machine Interfaces (HMI), Programmable Logic Controllers (PLC’s), Input/Output (I/O) Modules are over 20 years old and are displaying signs of component or systemic failures that interrupt and prevent production of water, or do not provide local alarms for troublecalls. This project would also include updating the legacy software on devices from Windows 98 to current operating system. This also includes an upgrade of the Wonder Ware license for all hardware that run the systems. This is for 6 WTP, as AIN is currently being upgraded.

4. PROJECT LOCATION:
Areawide
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project request $3,944,074

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering 20%</td>
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<td>$320,136</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Equipment &amp; Installation</td>
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<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td>Other Costs (with description)</td>
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<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$3,944,074</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

This project could be phased.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project could be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Project costs will be $623,874 per village, with Point Hope’s costs at $824,703.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 1 funding for Atqasuk, Point Hope and Wainwright at $1,448,577; Phase 2 for Anaktuvuk Pass, Kaktovik Nuiqsut and Point Lay at $2,495,497.
PROJECT NAME: AW WTP Process Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Mixers will improve heating efficiencies in the water reservoirs, help keep chlorine levels evenly distributed and improve removal of deleterious contaminants. Piping re-configuration will install a bypass to the heat exchangers to allow work on the equipment without shutting down the distribution loops. Point Hope’s heating loop pump re-configuration will place the heating loop circulator pumps in a more optimal operating position; this will eliminate air-locking of pumps that interrupt the reservoir heating cycles. This affects reservoirs T-3 and T-4. Control panels, PLC’s and HMI’s are failing and interrupting critical W&S operations and we have to emergency mobilize staff from one site to another to piece together equipment to resume operations.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This project will not expand facilities.

   C. Indicate if this is a reoccurring upgrade or repair.
   This is a one-time project.

   D. Detail outside funds being leveraged, if applicable.
   None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes (If yes, include written verification)
   Explanation, if necessary:
   Elevated Total Trihalomethanes (TTHMs) have been measured during water transfers between reservoirs. Water mixers will volatilize (help remove) the TTHMs from the water.
13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Department Director Signature:</td>
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PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

**NSB PLANNING DEPARTMENT USE ONLY**

TEMPORARY/CIP PROJECT NUMBER: 09-New 3  TYPE: New
DATE SUBMITTED: 3/12/2021  AMOUNT REQUESTED: $495,000
REQUESTING ENTITY: Public Works Water & Sewer Utility  AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH**
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. **REQUESTING ENTITY:** Public Works Water & Sewer Utility
2. **PROJECT NAME:** AIN W&S System Major Upgrade
3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   The existing water and sewer system in Wainwright is damaged due to unstable permafrost. Water system leaks have increased in frequency and repairs are costly. The water loss jeopardizes the drinking and fire water reserves for Wainwright. Winter water hauls are now scheduled events. The repairs have become a burden on the Operations budget, and are a routine source of community concerns elevated to the Mayors Office and Assembly.

   This request is a follow-up to the limited scope PAR 18-041 Alternatives to Direct Bury. Additional arctic alternatives should be considered in this phase.

   For this first phase, the W&S Utility needs recommendations and conceptual designs for alternate systems the replace the existing direct bury water and sewer system, in order to continue providing the same level of water and sewer service in the future. The project will hold NSB and community meetings to review concerns, and present the recommendations after subsequent meetings. The alternative system will be selected through the Phase 1 effort, with additional funding request for future phases based on the Phase 1 designs.

4. **PROJECT LOCATION:**

   Wainwright
### 5. DOLLAR $ AMOUNT OF THIS REQUEST:

Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

**Project request is $495,000**

### 6. PROJECT COST:

Complete the project cost table below as completely as possible.

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<tr>
<td>Recoverable Pre-Project Costs</td>
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<td>Professional Services</td>
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<tr>
<td>Administration</td>
<td>CIPM Administration 10%</td>
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<tr>
<td>Other Costs</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$495,000</td>
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<td>TOTAL PROJECT COST (if different)</td>
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</table>

### 7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

- [ ] Yes
- [x] No

### 8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?

- [x] Yes
- [ ] No

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

   The project is proposed as phased. Anticipated duration would be based on funding for construction and may extend to 6 years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   Phase 1 funding is $500,000. Results of Phase 1 will determine future phase costs.
PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
If No, explain why it should be considered out of sequence:

Ongoing discussions with Public Works, NSB Mayor and Assembly have produced this request. The request is the result of a need to provide residents of Wainwright a reliable water and sewer infrastructure.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project would replace damaged infrastructure. The reliability of the system will improve as well as reducing service interruptions. The existing system is stressed beyond design, and weak points show as water leaks. Permafrost instabilities have created undulations in the gravity sewer collection system that cause sewage solids to collect and block off the mains, which backs up into homes flooding floors, creating a health and human safety risk.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Operating and Maintenance costs are expected to decrease as emergency leak repairs will be reduced. Energy costs are expected to increase over the current load. The net cost impact is to the NSB is a reduction of O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time project.

D. Detail outside funds being leveraged, if applicable.

None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

The Alternatives to Direct Bury PAR discusses the failures in Wainwright and recommends upgrades.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☐ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

Access to potable water is documented as having a positive effect on human health. Similarly, removing wastewater from dwellings is documented as having positive effects. Further, eliminating the potential for wastewater backups will also improve public health.
PROJECT NAME: AIN W&S System Major Upgrade
LOCATION: Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☑ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
Completion of this project will reduce emergency repair expenditures in Wainwright.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☑ No ☑ Yes If yes, indicate PAR name and date: 2013-13 AW Alternatives to Direct Bury.
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Water and Sewer Connections
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 09-NEW-4
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Water and Sewer Connections
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is for the installation of new water and sewer service connections. This project would fund piping connections to homes in villages that already have modern sanitation facilities in homes. This project would also be used to put homes on the piped system that are currently served by holding tanks. 101 of new residential service applications are awaiting connection areawide.

Request totals by village
AKP 5 - See 59-148 for existing project
ATQ 6 - See 59-137 for existing project designed. WWTP requires expansion first.
KAK 0
NUI 2 - See 59-138 for existing project designed but needs mainline expansion
PHO 4
PIZ 0
AIN 5
UTQ 79

These totals only reflect connection applications. They do not consider if the existing water and sewer infrastructure is in place in front of the properties, or if the systems can support new connections.

4. PROJECT LOCATION:
Areawide

AMOUNT REQUESTED: $2,065,000
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Areawide New W&S Connections via Applications Received: $32,468,150
Costs are based on typical service connection costs.
This request $2,065,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td></td>
<td></td>
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<tr>
<td>(PAR, other studies or reports, etc.)</td>
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<tr>
<td>Professional Services</td>
<td>12% of construction</td>
<td>Estimate based on typical connection costs</td>
<td>$2,065,000</td>
</tr>
<tr>
<td>(Design, legal, other)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Construction / Acquisition</td>
<td></td>
<td>Estimate based on typical connection costs</td>
<td>$20,640,000</td>
</tr>
<tr>
<td>(anticipated costs)</td>
<td></td>
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</tr>
<tr>
<td>Administration</td>
<td>10%</td>
<td></td>
<td>$2,270,500</td>
</tr>
<tr>
<td>(NSB project management)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td>25%</td>
<td></td>
<td>$6,243,875</td>
</tr>
<tr>
<td>(if not included in other line items)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Other Costs</td>
<td>permit/land acquisition 4%</td>
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<td>$1,248,775</td>
</tr>
<tr>
<td>(with description)</td>
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<td></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$32,468,150</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   [ ] No  [ ] Yes
   
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   
   Is this a phased project or a follow-up to an existing CIP project?  
   [ ] No  [ ] Yes
   
   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   It is possible phase by villages once a priority order is determined.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   Anaktuvuk Pass: $3,192,500  Atqasuk: $1,992,536  Kaktovik: $0  Nuiqsut: $663,832  Point Hope: $1,328,704
   Point Lay: $0  Utqiagvik: $26,232,336  Wainwright: $1,626,300

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   Project should be phase with design funds first to confirm the homes can be connected and that system expansions are not required.
PROJECT NAME: Areawide Water and Sewer Connections
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? [x] No [ ] Yes
   If Yes, is it scheduled for replacement before 2026? [x] No [ ] Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation
       of the current deficiencies.
       Some areawide residents are still on the honeybucket system. Most are on sewage holding tanks. More
       residents are wanting Water & Sewer connections.
       It will increase facilities and services and may entail increased operations and maintenance costs.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
       maintenance costs.
       It will increase facilities and services and may entail increased operations and maintenance costs.
    C. Indicate if this is a reoccurring upgrade or repair.
    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
       a plan of action, relating to a Borough service or facility? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
       or architect? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
    C. Does the project address an environmental condition that without immediate action an imminent,
       verifiable and documented threat to public health exists? [x] No [ ] Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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Instructions:
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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Sewage Tanks
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

We are requesting funding for 15 holding tanks to be used for emergency installations in all communities. 5 of these tanks will be installed when a below ground service fails, and a below ground repair is too expensive or not recommended. 10 of those tanks are scheduled to replace failing below ground services. The breakdown of tanks per village is below.

AKP: 2  ATQ: 2  NUI: 1  PHO: 2  PIZ: 3  UTQ: 3  AIN: 2

4. PROJECT LOCATION:

Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 10-107
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

TYPE: Upfund
AMOUNT REQUESTED: $1,195,000
AMOUNT RECOMMENDED:
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This project request is for $1,194,800 for 15 new tanks
Engineering Design: $66,470
Construction: $940,275
Engineering & CIPM: $94,028
Contingency: $94,028

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering Design 8%</td>
<td></td>
<td>$66,470</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Sewer Holding Tank Acquisition and Installation</td>
<td>From 1st Phase Installation Costs</td>
<td>$940,275</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
<td></td>
<td>$94,028</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Contingency 10%</td>
<td></td>
<td>$94,028</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
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<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$1,194,800</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $1,194,800

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** □ No □ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

   Not applicable.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      This is not a new request.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
      $159,200 is the average cost per village.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      $1,194,800
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Failed sewer services threaten the health and safety of communities. Sewage backups into homes result in increased health risks, and they force residents to go back to honey bucket use. Repair of the buried pipe cannot happen on an emergency basis. Providing sewer holding tanks for each home is a less expensive alternative while still providing basic sanitation services.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will eliminate operating and maintenance costs of existing failing piped sewer systems but increase the truck haul system costs.
   C. Indicate if this is a reoccurring upgrade or repair.
      This will be a re-occurring request until tanks are installed on problematic services or until programmed collection system upgrades are made.
   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
      Severe subsidence in portions of the Point Lay is causing failure of the piped sewer system. Tanks are needed in other communities to prevent sewer spills.
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
      From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: A long term solution is needed to stabilize the water and sewer system to account for village conditions.
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
      From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: The water and wastewater systems in the NSB have exhibited reliability issues, most notably on the gravity collection systems.
**PROJECT NAME:** Areawide Sewage Tanks  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No ☒ Yes (If yes, include written verification)  
Explanation, if necessary:

Though it will increase operating costs for sewage tank hauling, this project will eliminate costly emergency repairs to the buried sewer collection system.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
☐ No ☒ Yes If yes, indicate PAR name and date: 18-041 Areawide Alternatives to Direct Bury Water & Sewer  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name: Scott Danner, Public Works Director</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

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*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW Outfall Line Repair
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-118
TYPE: Upfund
DATE SUBMITTED: 3/12/2021
AMOUNT REQUESTED: $784,000
REQUSTING ENTITY: Public Works Water & Sewer Utility
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: AW Outfall Line Repair
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This Project Upfund Request is to add the Kaktovik treated effluent outfall and Nuiqsut treated effluent outfall piping to the existing project code for repair.

Kaktovik - The Treated Effluent Outfall is located on a bluff overlooking the Kaktovik Lagoon. The bluff has eroded since installation. The piles closest to the water are not supported in the bluff as designed but sit in the lagoon now. The pile have also experienced ice damage that carried through the structure, damaging pipe supports on the overhead beam. Metal is twisted and it appears that a bolt joint has partially sheared apart.

The Kaktovik design is at 35% pending resolution to site control. The design exceeds previous estimates for construction

Nuiqsut - a portion of the outfall line has collapsed, requiring repair to the line. Several support posts and the end support structure need to be replaced to prevent another collapse.

The Nuiqsut design contract is in place and design just starting.

4. PROJECT LOCATION:

Areawide
PROJECT NAME: AW Outfall Line Repair
LOCATION: Area wide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Project Upfund request is for $783,074 to design and complete the construction of the Kaktovik and Nuiqsut Outfalls repairs.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<td>$</td>
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<td>Professional Services (Design, legal, other)</td>
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<td>$146,445</td>
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<td>Contingency (if not included in other line items)</td>
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<td>Other Costs (with description)</td>
<td>2020 PRC appropriation</td>
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<td>$-1,150,000</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td></td>
<td><strong>$783,074</strong></td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td><strong>$1,933,074</strong></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No  [x] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? [x] No  [ ] Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
      Kaktovik $1,603,284  Nuiqsut $330,000

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      Each site could be phased, with a potential increase for duplicated contractor general administration fees.
PROJECT NAME: AW Outfall Line Repair  
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes  
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes  
If No, explain why it should be considered out of sequence:

The Kaktovik outfall has been damaged by ice loads. The structure is visibly damaged with warped and sheared steel members. The Nuiqsut outfall piping has separated at joints and the heat trace is not working as designed. The condition will worsen as the pipe supports continue to settle into the tundra.

10. PROJECT JUSTIFICATION:  Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A fully functioning outfall line is a necessary component of the wastewater treatment process. Freeze ups require maintenance time to thaw the line and ensure its continuous functioning.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will not expand facility.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a recurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

None.

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  
(If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  
(If yes, include written verification)

Explanation, if necessary:

Structural Engineer memo attached.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  
(If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

Replacing the discharge platform, replacing the damaged pipe, and restoring the heat trace will prevent maintenance needed to keep the outfalls open.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

Kaktovik Sewage Treatment Facility Outfall Structure Memo 6/20/2018

15. REQUESTOR INFORMATION:

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<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Heat Trace Panel Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Heat trace service panels and service control panels are reaching the end of their service life in the villages. These panels are corroded and present a safety hazard to workers and residents. These panels and associated connections will need to be replaced.

Point Hope - Because of increasingly deteriorating condition of the electrical service panels in Point Hope, the panels for all 200 homes in Point Hope need to be replaced. In 2016 and 2019 and 2020, funds were authorized. Some of the existing funds will be used to complete the work during the summer of 2020.

Kaktovik - There are 113 service panels in Kaktovik that are in a similar state of corrosion and unsafe condition. Existing funds will be used to begin design during the summer of 2021 for construction 2022.

4. PROJECT LOCATION:
Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-119
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

TYPE: Upfund
AMOUNT REQUESTED: $1,520,000
AMOUNT RECOMMENDED:
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Kaktovik Total Request is $1,519,124

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
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<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>A/E Design Services</td>
<td></td>
<td>$151,872</td>
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<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Construction</td>
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<td>$1,898,400</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin 10%</td>
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<td>$205,027</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>25%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$1,519,124</td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
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<td>$2,819,124</td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☑ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number: 60-119 PHO Heat Trace Panel Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This upfund request might be phased over 2 years, but service interruptions might occur with greater frequency prior to the second year’s work commencing.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

This is a project request to begin repairs and replacement of service control panels. Point Hope will be completed in 2021 and Kaktovik is the next community identified as a priority, with other villages to follow in future years.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This project is moving into the second phase of the project. If the project request is not fully funded this year, it could be funded at $500,000 this year and $1,019,124 in 2022.
PROJECT NAME: Areawide Heat Trace Panel Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  ☒ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  ☒ Yes
   If No, explain why it should be considered out of sequence:
   Due for replacement in 2010.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Boxes have reached their useful life expectancy in the existing environment. Corroded panels potentially expose residents and North Slope personnel to 110V and 230V wiring that is unprotected. In addition, the panels are corroded shut and require hammering to open, which further damages the panels.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      No expansion. Operating and maintenance costs will be reduced due to reduced maintenance and service interruptions.

   C. Indicate if this is a reoccurring upgrade or repair.
      Project will reoccur until all identified services are upgraded.

   D. Detail outside funds being leveraged, if applicable.
      None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:
      Assessment report will be produced during the summer of 2021 to establish the prior list for work and rank safety concerns.

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:
13. ATTACHMENTS: List any supplemental information submitted with this request.

Point Hope Heat Trace Panel Upgrades Phase 1 - PDC November 2017

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS Pump Station 5 Upgrades  
LOCATION: Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 10-120  
DATE SUBMITTED: 3/12/2021  
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY:  
   Public Works Water & Sewer Utility

2. PROJECT NAME: BUS Pump Station 5 Upgrades

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   This project request is to upgrade Pump Station 5 on Simmons Hill to increase the capacity of the pump station as well as upgrading the wet well. The Top of the World hotel has increased the wastewater demand of Pump Station 5 significantly. The pump station is considered at capacity by the operators, BUECI.

   The wet well in the pump station is deteriorating and severely corroded. Due to the increased load from the hotel, the wet well cannot be taken out of service for inspection or maintenance as previously performed by BUECI.

   The proposed scope is replacement of Pump Station 5 with a facility similar to Pump Station 9 on Sakeagak Street.

   Upsizing the lift station will allow for recent developments on Paneatak Road to eliminate the planned septic tanks in favor of buried collection piping.

   $303,000 in design funding was authorized in 2016 and $2,227,000 in 2019.

   Engineering cost estimates came in higher than expected hence this upfund request.

4. PROJECT LOCATION:
   Barrow
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total upfund request $1,041,222

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
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<td>Construction / Acquisition</td>
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<td>CIPM Admin 10%</td>
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<td><strong>TOTAL</strong></td>
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<td></td>
<td><strong>$1,041,222</strong></td>
</tr>
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</table>

**TOTAL PROJECT COST** (if different) **$3,189,186**

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   ☒ No  ☐ Yes
   
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   
   Is this a phased project or a follow-up to an existing CIP project?  
   ☐ No  ☒ Yes
   
   If yes, indicate name and CIP project number:  60120 BUS Pump Station 5 upgrades

   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   Phase 2 - $1,041,222
PROJECT NAME: BUS Pump Station 5 Upgrades
LOCATION: Barrow

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   
   Pump Station 5 is undersized for the expanded services that it now serves.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

    Funding this project will perform much needed upgrades to the function Pump Station 5. Upgrading the lift station will size the facility for the current and future demands as well as use materials that are less maintenance intensive.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    Power consumption may increase due to the potential for increased pump motor sizing. Maintenance on the facility would be reduced however.

    C. Indicate if this is a reoccurring upgrade or repair.

    This is a one-time funding request.

    D. Detail outside funds being leveraged, if applicable.

    None.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

        Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

        Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

        Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:  
No risk assessment has been conducted; however, this facility could be considered vital to the BUS function. It services a small area with a high occupancy density due to the hotel and two restaurants in the area. Impacts to the Pump Station 5 function will have negative impacts to the Utqiagvik economy.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☒ No ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:  
The facility improvements are expected to be near net zero for operating budget impacts.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
☒ No ☐ Yes  If yes, indicate PAR name and date: Point Hope Heat Trace Panel Upgrades; October, 2017  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Areawide Vacuum Station Upgrade  
**LOCATION:** Areawide

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**NSB PLANNING DEPARTMENT USE ONLY**

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER:</th>
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<tr>
<td>DATE SUBMITTED:</td>
<td>3/12/2021</td>
</tr>
<tr>
<td>REQUESTING ENTITY:</td>
<td>Public Works Water &amp; Sewer Utility</td>
</tr>
</tbody>
</table>

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

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1. **REQUESTING ENTITY:** Public Works Water & Sewer Utility  
2. **PROJECT NAME:** Areawide Vacuum Station Upgrade  
3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   This project request modifies the project title to Areawide and will install new energy-efficient, low-maintenance vacuum station pumps in Atqasuk, Kaktovik and Nuiqsut. Point Hope's vacuum pumps were previously funded in 2016.

   The existing vacuum pumps are maintenance intensive and self-destruct when not properly attended. The pumps generally have had a high failure rate in village and require frequent rebuilds/replacement. In 2020 we have had two fire responses due to these pumps. There are also two sizes of the existing pumps on slope, causing parts inventory difficulties.

   The nature of the existing pump design is inefficient as it uses friction to create sealed surfaces. The proposed pump does not use the friction pump design and is approximately 20% more efficient per volume pumped. This means that the pump components do not wear as fast, and less power is consumed. The proposed pump can also be standardized across slope, which reduces inventory problems and increases our emergency response capacity.

   The proposed project includes plumbing and electrical upgrades to complete the pump installation.

   Annual anticipated cost savings per site is up to $40,000. System reliability will also improve.

4. **PROJECT LOCATION:** Areawide
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Location</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>NUI</td>
<td>$781,563</td>
</tr>
<tr>
<td>ATQ</td>
<td>$735,668</td>
</tr>
<tr>
<td>KAK</td>
<td>$735,668</td>
</tr>
<tr>
<td>Total Project</td>
<td>$2,252,900</td>
</tr>
</tbody>
</table>

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<tbody>
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<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Engineering 10%</td>
<td>Based on PHO</td>
<td>$166,900</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Pump Upgrades and Installation</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Administration 10%</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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</tr>
<tr>
<td>Other Costs (with description)</td>
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<td></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$2,252,900</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $2,891,900

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   - Yes
   - No

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   - Is this a phased project or a follow-up to an existing CIP project?  
   - Yes
   - No

   If yes, indicate name and CIP project number:  60-121 PHO Vacuum Station Upgrade
   
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   This project could be phased by village.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   Phasing should be as follows, 2021 NUI $781,563, 2022 ATQ $772,200 and 2023 KAK $810,082.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

New ‘Mink’ vacuum pumps are energy-efficient and have no oil, therefore require much less on-going maintenance.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

New ‘Mink’ vacuum pumps are energy-efficient and have no oil, therefore require much less on-going maintenance.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The pumps will reduce energy consumption are less maintenance to operate.

C. Indicate if this is a reoccurring upgrade or repair.

This is a reoccurring request until all three sites are upgraded.

D. Detail outside funds being leveraged, if applicable.

None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

New pumps are energy-efficient and low-maintenance. Anticipated annual cost savings per village is $40,000.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
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<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Areawide WWTP Upgrades  
**LOCATION:** Area wide  

---

**NSB PLANNING DEPARTMENT USE ONLY**

- **TEMPORARY/CIP PROJECT NUMBER:** 10-122  
- **DATE SUBMITTED:** 3/12/2021  
- **REQUESTING ENTITY:** Public Works Water & Sewer Utility  

---

**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**  

**CIP PROJECT REQUEST FORM**  

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---

1. **REQUESTING ENTITY:** Public Works Water & Sewer Utility  
2. **PROJECT NAME:** Areawide WWTP Upgrades  
3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is to upgrade process, process control, and process monitoring systems in Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay, and Wainwright. The Point Hope, Wainwright, and Atqasuk plants are at or near their hydraulic limit. Point Hope and Wainwright have received NOVs, and no new service connections can be constructed in Atqasuk without a wastewater plant upgrade. All plants have obsolete control and monitoring systems which are past their useful life, and need replacement. All plants would also benefit from standardized process upgrades to improve compliance and effluent safety. Point Hope was previously funded. This request is for Atqasuk.

Specific upgrades include:
- Equalization upgrades - providing automatic controls for effective flow equalization (all plants);
- Fixed or moving bioreactor media upgrades to increase biomass and BOD reduction (all plants except Kaktovik);
- Secondary Clarifier upgrades and disc filter pilot test - upgrade the scum removal, wasting, and recycle equipment and controls to reduce BOD and TSS violations (Point Hope);
- Disinfection upgrades - install in-line ultraviolet (UV) disinfection and controls to reduce fecal coliform violations and chemical handling requirements (all plants);
- WAS/RAS metering - add pumps and meters on the WAS/RAS line to improve process control (all plants except Kaktovik);
- Replace alarm/monitoring systems with ethernet-compatible & programmable PLCs (all plants).

---

4. **PROJECT LOCATION:** Areawide
PROJECT NAME: Areawide WWTP Upgrades
LOCATION: Areawide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This Funding Cycle is for Atqasuk : $1,290,960

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
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<td>Recommended Upgrades</td>
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<td>Other Costs (with description)</td>
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<tr>
<td>TOTAL</td>
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<td></td>
<td>$1,290,960</td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
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<td>$</td>
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</tbody>
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7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☐ Yes
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
If yes, indicate name and CIP project number: 60-122 PHO WWTP Upgrades
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

<table>
<thead>
<tr>
<th>Location</th>
<th>Funding</th>
<th>Amount</th>
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<tr>
<td>ATQ</td>
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<td>NUI</td>
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<td>PIZ</td>
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<tr>
<td>AIN</td>
<td>Ph1</td>
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C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

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<th>Phased Project</th>
<th>Funding</th>
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</tbody>
</table>
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

These upgrades are in response to community growth and NOVs, as well as replacement of obsolete equipment. The result of the upgrades will be more reliable regulatory compliance, improved service, and a decrease in O&M costs.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Process upgrades will improve regulatory compliance and reduce plant overflow events. The controls work will replace obsolete alarm and control systems with PLC-based systems which are readily maintainable, currently supported, and highly-functional compared to the current systems. The upgrades will fix the alarm callout problems and reduce maintenance and overtime costs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
The project will expand the amount of process equipment in each plant, and replace failing controls equipment. With the increased maintenance of the process equipment, and the decreased overtime and callouts from the same process improvements and controls, O&M costs will remain the same or decrease.

C. Indicate if this is a reoccurring upgrade or repair.
This is not a reoccurring upgrade.

D. Detail outside funds being leveraged, if applicable.
None.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

ADEC Discharge Permit Violations.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: Areawide WWTP Upgrades
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:

Anticipated cost savings for all seven plants is $210,000 or less per year.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date: 2015-04 Point Hope Wastewater Treatment Plant Expansion
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Sewer Systems Major Repairs Project
LOCATION: Areawide

**NSB PLANNING DEPARTMENT USE ONLY**

| TEMPORARY/CIP PROJECT NUMBER: 10-123 | TYPE: Upfund |
| DATE SUBMITTED: 3/12/2021 | AMOUNT REQUESTED: $1,500,000 |
| REQUESTING ENTITY: Public Works Water & Sewer Utility | AMOUNT RECOMMENDED: |

**NORTH SLOPE BOROUGH**
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. **REQUESTING ENTITY**: Public Works Water & Sewer Utility
2. **PROJECT NAME**: Areawide Sewer Systems Major Repairs Project
3. **PROJECT DESCRIPTION**: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The project covers proactive upgrades and improvements that impact the public utility's ability to provide services. Without the upfund, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

4. **PROJECT LOCATION**: 60-106 Areawide Sewer Systems Major Repairs Project
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.) This project funds upgrades to components experiencing unexpected failure and which are not on the Repair and Replacement Schedule.</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other) Breakdown per village is budgeted as follows, based on each system's size and complexity.</td>
<td></td>
<td>$125,000</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>10% (anticipated costs)</td>
<td></td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management) 10%</td>
<td></td>
<td>$125,000</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$1,500,000</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $ 

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   - [ ] No  
   - [X] Yes

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project?  
   - [ ] No  
   - [X] Yes

   If yes, indicate name and CIP project number:
   - A. If this is a new request, indicate below whether this project could be phased and over how many years.
     
     This project cannot be phased.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
     
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?

If Yes, is it scheduled for replacement before 2026?

If No, explain why it should be considered out of sequence:

This project is for major sewer system repairs including emergency repairs.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will improve the service levels by replacing older/damaged equipment.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will not.

C. Indicate if this is a reoccurring upgrade or repair.

This is not.

D. Detail outside funds being leveraged, if applicable.

Not applicable.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

This project can fund the emergency responses for sewage spills and other sewer issues affecting customer services.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  ☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name: Scott K. Danner, Public Works Director</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature: [Signature] Date: 3/12/21</td>
<td></td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Barrow Utilidor System Construction Improvements and Equipment Replacement  
LOCATION: Utqiagvik

**NSB PLANNING DEPARTMENT USE ONLY**

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER: 10-125</th>
<th>TYPE: Upfund</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE SUBMITTED: 3/12/2021</td>
<td>AMOUNT REQUESTED: $8,167,000</td>
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<tr>
<td>REQUESTING ENTITY: Public Works Water &amp; Sewer Utility</td>
<td>AMOUNT RECOMMENDED:</td>
</tr>
</tbody>
</table>

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**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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Instructions:

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY**: Public Works Water & Sewer Utility

2. **PROJECT NAME**: Barrow Utilidor System Construction Improvements and Equipment Replacement

3. **PROJECT DESCRIPTION**: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project was created to fund the cost of non-routine major equipment and system replacements, and construction improvements to the existing Barrow Utilidor System (BUS). The work commonly consists of upgrading water mains and laterals in locations a leak has occurred as well as:

- Recondition two NCD sewage pumps
- Purchasing new in-line heat trace;
- Advanced Metering Infrastructure; hardware, no-hardware and IT integration
- BUS Stevenson and Ahmaogak Streets Buried Manhole Upgrade
- Fiber Optic Communications Cable from PS-03 to Johnson Control Field Processing Unit
- Replace the fine screen system at the Utqiagvik WWTP which is at the end of it's service life
- Replace the PS-02 Outer Decks
- Pump Station 3 Utilidor Replacement

These are recurring costs which are critical to maintaining the useful life of the BUS System.

---

4. **PROJECT LOCATION**:  
Utqiagvik
PROJECT NAME: Barrow Utilidor System Construction Improvements and Equipment Replacement

LOCATION: Utqiagvik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>$440,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Vendor quotes, engineer estimates, historic costs</td>
<td>$5,746,690</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin 10%</td>
<td>$618,669</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Contingency 20%</td>
<td>$1,361,072</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$8,166,431</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different): $8,166,431

6. PROJECT COST: Complete the project cost table below as completely as possible.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes
   If yes, indicate name and CIP project number: 59-121 Barrow Utilidor System Repairs & Upgrades
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Barrow Utilidor System Construction Improvements and Equipment Replacement
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No   ☒ Yes
   If Yes, is it scheduled for replacement before 2026? □ No   ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
    In order to maintain existing level of service to all BUS customers, ongoing major repairs and upgrades are required. This is necessary to maintain the large capital investment the Borough has made in building and expanding the BUS system. Replacing large motors, pumps and other equipment on a regular preventative maintenance schedule reduces the cost and time to the operators, versus making the same type of repairs on an emergency basis.
    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
    
    C. Indicate if this is a reoccurring upgrade or repair.
    
    D. Detail outside funds being leveraged, if applicable.
    
11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No   □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No   □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No   □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
Performing upgrades on the BUS equipment and structures will reduce emergency funding requests and ensure continued utility service.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
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<th>Scott Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: Areawide Water & Sewer Equipment
3. PROJECT DESCRIPTION:
   - **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   This project will provide for equipment to maintain the Village Water & Sewer Systems. This request would secure enough capital funds to purchase new Programmable Logic Controllers (PLC’s), Human-Machine Interfaces (HMI’s), Tank Level Sensors, Tank Transfer Pumps, Variable Speed Drives (VFD’s), Tank Transfer Pumps, Vacuum Pumps, Raw Water Pump Generators, vacuum pumps, station pumps, service barrel pumps and major components, microfilter skid major components, and water treatment process cleaning filters. These purchases are necessary to improve the overall plants operating efficiencies.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay, and Wainwright
5. **PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total cost: 1,023,298</td>
<td>Equipment: 845,701, Admin(10%) 84,570</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency (10%)</td>
<td>93,027</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP: 97,881</td>
<td>PIZ: 222,456</td>
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<tr>
<td>ATQ: 137,923</td>
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<tr>
<td>KAK: 126,800</td>
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<tr>
<td>NUI: 146,821</td>
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</tr>
<tr>
<td>PHO: 200,210</td>
<td></td>
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</tr>
</tbody>
</table>

6. **TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles? ☒ No ☐ Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: 10-126

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This is a reoccurring request for equipment replacement.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough’s Repair & Replacement Schedule? ☐ No ☒ Yes

If Yes, is it scheduled for replacement before 2026? ☒ Yes ☐ No

If No, explain why it should be considered out of sequence:

This project will be used to replace equipment that fails in advance and on schedule of the NSB Repair and Replacement Schedule.
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   | The equipment is needed for the safe operation and maintenance of the Village Water & Sewer System. This project will provide for major replacement components, and equipment required to maintain the Water & Sewer systems areawide. Updated equipment will result in reduced O & M costs. |
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   | This will not expand facilities. New replacement equipment should reduce O&M costs |
   C. Indicate if this is a reoccurring upgrade or repair.
   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  

☐ No  ☑ Yes (If yes, include written verification)  
Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

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<th>Requestor Name and Title:</th>
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Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Areawide WWTP Controls Upgrades  
**LOCATION:** Areawide  

---

**NSB PLANNING DEPARTMENT USE ONLY**  
**TEMPORARY/CIP PROJECT NUMBER:** 10-New 1  
**DATE SUBMITTED:** 3/12/2021  
**REQUESTING ENTITY:** Public Works Water & Sewer Utility  

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**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**  

**CIP PROJECT REQUEST FORM**  

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

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**Instructions:**  
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility  
**2. PROJECT NAME:** Areawide WWTP Controls Upgrades  
**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project requests funds to upgrade some of the processes at the wastewater treatment plants in all six villages. Specific upgrades are: equalization tank level control upgrades, and recycled activated sludge (RAS) metering and instrumentation upgrades.

To improve the quality of the areawide wastewater treatment process, it is necessary to up-size the seepex pumps and add RAS pump metering systems. These steps were part of the Kaktovik WWTP upgrades which have shown significant plant performance improvement as the operators have better control over the process. The plan of action for the remaining 6 villages would mirror the steps taken in Kaktovik.

---

**4. PROJECT LOCATION:**  
Areawide
PROJECT NAME: Areawide WWTP Controls Upgrades  
LOCATION: Areawide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project request: $1,188,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/construction services administration</td>
<td>$24,000</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Equipment purchase &amp; installation</td>
<td>$120,000</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin @10% Total</td>
<td>$14,400</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>@25%</td>
<td>$39,600</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$198,000</strong></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) **$1,188,000**

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020? ☑ No ☐ Yes

   If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

   Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

      This request could be phased over two years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

      Project costs for each village: $198,000.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

      Phase 1 Funding for Atqasuk, Point Hope and Wainwright at $594,000. Phase 2 funding for Anaktuvuk Pass, Nuiqsut and Point Lay at $623,700.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  ☑ No  ☐ Yes
   If Yes, is it scheduled for replacement before 2025?  ☑ No  ☐ Yes
   If No, explain why it should be considered out of sequence:
   Upgrading plant equipment will improve plant performance and help eliminate plant permit violations.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   The wastewater treatment plant operations will benefit by upgrading some of the processes with more modern equipment, replacing time-consuming manual processes. Existing processes rely on operators manual setting valves to control flow, measuring wastewater flow rates with a collection bucket and stop watch and iterating the valve adjustment and bucket measurement to achieve a design process flow. Pumps are manually operated, instead of allowing automated control to equalize plant flow. These upgrades will improve the efficiency of the treatment process and help eliminate process upsets. The upgrades will also aid in preventing plant overflows.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   The project does not expand facilities, and will likely provide a minor benefit to the O&M budget.
   C. Indicate if this is a reoccurring upgrade or repair.
   This project is a one-time upgrade.
   D. Detail outside funds being leveraged, if applicable.
   None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☑ No  ☐ Yes  (If yes, include written verification)
   Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☑ No  ☐ Yes  (If yes, include written verification)
   Explanation, if necessary:
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☑ No  ☐ Yes  (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: Areawide WWTP Controls Upgrades
LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
This project is a one-time upgrade.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>Scott Danner, Public Works Director</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
This project is for design and construction of upgrades to vacuum sewer and water connections in all vacuum villages. The new design will incorporate lessons learned from the last 20 years of service connection operations and maintenance. The primary features of the new design will include:
- separation of water and sewer components
- isolation of electrical components
- improved access for jetting operations
- reduction of differential movement problems

4. PROJECT LOCATION:
Kaktovik, Atqasuk, Nuiqsut, and Point Hope
### 5. DOLLAR $ AMOUNT OF THIS REQUEST:

Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This Request is for Kaktovik: $1,575,600

### 6. PROJECT COST:

Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design, CA</td>
<td>10% of construction</td>
<td>$102,000</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Procurement, installation</td>
<td>Estimate</td>
<td>$1,020,000</td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management)</td>
<td>10% of construction</td>
<td>$112,000</td>
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<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td>25% of construction and professional services</td>
<td>$281,000</td>
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<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$1,55,600</td>
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<tr>
<td><strong>TOTAL PROJECT COST</strong> (if different)</td>
<td></td>
<td></td>
<td>$4,927,520</td>
</tr>
</tbody>
</table>

### 7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

### 8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>No ☒ Yes ☐</td>
</tr>
</tbody>
</table>

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project can be phased over four years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Kaktovik</td>
<td>$1,575,600</td>
</tr>
<tr>
<td>Atqasuk</td>
<td>$1,050,400</td>
</tr>
<tr>
<td>Nuiqsut</td>
<td>$1,096,160</td>
</tr>
<tr>
<td>Point Hope</td>
<td>$1,205,360</td>
</tr>
</tbody>
</table>

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>$1,575,600</td>
</tr>
<tr>
<td>2nd year</td>
<td>$1,050,400</td>
</tr>
<tr>
<td>3rd year</td>
<td>$1,096,160</td>
</tr>
<tr>
<td>4th year</td>
<td>$1,205,360</td>
</tr>
</tbody>
</table>
PROJECT NAME: Vacuum Service Connection Upgrades
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☐ Yes
   If No, explain why it should be considered out of sequence:

These unique service connection systems are experiencing permafrost-related issues which were not anticipated. These issues require correction in order for the services to remain useful.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Several connections in each community are experiencing more frequent service loss, including reverse-graded sewer lines, freeze-ups, and leaks. These require substantial effort by operations to maintain. This capital project will improve services to residents and reduce operating costs.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

It will not increase operating costs.

   C. Indicate if this is a reoccurring upgrade or repair.

This is a one-time project.

   D. Detail outside funds being leveraged, if applicable.

None.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

    

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

    

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☒ Yes (If yes, include written verification)

   Explanation, if necessary:

    
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes *(If yes, include written verification)*

Explanations, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes *(If yes, include written verification)*

Explanations, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tr>
<th>Department Director Name:</th>
<th>Scott Danner, Public Works Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>[Signature] Date: 3/12/21</td>
</tr>
</tbody>
</table>

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BRW BUS Warm Storage Facility
LOCATION: Utqiagvik

TEMPORARY/CIP PROJECT NUMBER: 10-NEW 3
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT REQUESTED: $879,000

PROJECT LOCATION:
Utqiagvik

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BRW BUS Warm Storage Facility
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design a warm storage building for storage of emergency vehicles and equipment. Re-assess the design recommended in the PAR to significantly reduce the construction costs. The recommended location of the facility remains on the east side of the Wastewater Treatment Plant.

This request is for the first phase of a 2-phase project. Phase I will cover design, and Phase II will cover construction.
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Total this request $878,816

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design/Profession Services</td>
<td>PAR, adjusted for 2020</td>
<td>$798,816</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM Admin 10%</td>
<td>$80,000</td>
<td></td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
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<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$ 878,816</strong></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST (if different)** $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [ ] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This request is for Phase I - Design. Phase II funding will be requested after design is complete.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

The intent of this request is to reduce anticipated construction costs for this needed facility. Phase II construction funding will not be known until design is complete.
PROJECT NAME: BRW BUS Warm Storage Facility
LOCATION: Utqiagvik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? [ ] No [x] Yes
If Yes, is it scheduled for replacement before 2026? [ ] No [ ] Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
A warm storage facility will provide much-needed storage for BUS equipment.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will expand facilities but will decrease the costs of maintaining a large number of vehicles and equipment that is currently stored outside.

C. Indicate if this is a reoccurring upgrade or repair.
This is not a recurring upgrade.

D. Detail outside funds being leveraged, if applicable.
Not applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [x] Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [ ] No [x] Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [ ] No [x] Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed? ☒ Yes ☐ No
Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
</tr>
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<tbody>
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<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BUS WWTP Membranes Upgrade
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 10-New 4  TYPE: New
DATE SUBMITTED: 3/12/2021  AMOUNT REQUESTED: $2,396,000
REQUESTING ENTITY: Public Works Water & Sewer Utility

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer Utility
2. PROJECT NAME: BUS WWTP Membranes Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will replace the existing polymeric flat plate water treatment membranes at the BRW WWTP. The membranes are nearing the end of their service life. The manufacturer no longer produces these membranes and recommends upgrading with the current technology Silicon Carbide ceramic membranes.

Once the existing membranes complete their service life BUECI will not be able to continue to filter water for Utqiagvik. The Silicon Carbide membranes are much more durable, are less labor intensive to clean, have a much longer service life and improved permeability. Should the amount of water needed by Utqiagvik increase this membrane system can be easily expanded. This is not possible with existing membranes because of space constraints.

4. PROJECT LOCATION:

Utqiagvik
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

This project will be a one-time expenditure of $2,395,170

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design/Construction Administration Services 10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Construction</td>
<td>Engineering Estimate</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>CIPM Administration 10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$2,395,170</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project should not be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

PROJECT NAME: BUS WWTP Membranes Upgrade
LOCATION: Utqiagvik
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   This project will allow BUECI to continue providing wastewater treatment to Utqiagvik.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   This project will maintain current capacity and will reduce operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.
   This is a one-time upgrade/repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
       Explanation, if necessary:
PROJECT NAME: BUS WWTP Membranes Upgrade  
LOCATION: Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes *(If yes, include written verification)*  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☒ No ☐ Yes *(If yes, include written verification)*  
Explanation, if necessary:  
There will be a small reduction in maintenance costs.

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?  
☒ No ☐ Yes  *(If yes, indicate PAR name and date)*  
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.  
Pedroni 8/31/20 Silicon Carbide Membrane replacement proposal.

15. REQUESTOR INFORMATION:

<table>
<thead>
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<th>Requestor Name and Title:</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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</tr>
<tr>
<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date:</td>
<td>3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
Preliminary Proposal
Ceramic (SiC) Membrane Technology Conversion
Barrow, AK
Ovivo Proposal #082820-1-MCS-R0

PREPARED FOR:
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Barrow, AK 99724

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08/28/2020

VALID UNTIL:
11/28/2020
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ovivo mbr - one system, many solutions

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**executive summary**

**comprehensive system solutions**

Ovivo’s proposal addresses the commercial and technical requirements of the planned MBR project. As well, to overcome the inherent short-comings of antiquated MBR system designs and polymeric membranes, Ovivo is presenting a technological advanced MBR system design, utilizing our **Silicon Carbide** (SiC) **Ceramic Membranes**, long known for their durability, wide operational window, and **indefinite membrane life**. Ovivo and the Owners team will collaborate to execute a technological advanced and sustainable facility.

---

**Ovivo’s brings the most current membrane and system technology to your project.** This proposal will demonstrate technology advancements, lessons learned and innovations that are continually assessed and implemented in-order to provide maximum uptime. Smart design and automation, including WaterExpert™ is now employed in every Ovivo MBR system design.

Much has happened in the MBR World since our product group’s inception in 2001. Older polymeric membrane technologies have been phased out. Your facility will be designed, integrated, delivered and supported by Ovivo MBR, leading you well into the future.

Respectfully Submitted,

Martin Swanson, National Sales Manager, Ovivo MBR
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Victor Pedroni, Ovivo Representative, Pedroni & Co. LLC
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section 1
SiC technology

1.a Introducing SiC Technology

Ovivo’s brings the most current membrane and system technology to your project. Technology advancements, lessons learned and innovations are continually assessed by Ovivo and implemented in-order to provide enhanced sustainable operations, in a technological advanced facility. Much has happened in the MBR World since our product group’s inception in 2001. Older polymeric membrane technologies have been phased out. Smart design and automation, including WaterExpert™ is now employed in every Ovivo MBR to assist operations.

The following is a brief summary of the key design and technology advancements included in our offer:

- **Silicon Carbide (SiC) Membranes** – Membrane technology advancement is perhaps the most noticeable difference. Membrane characteristics empower day-to-day operations. Owners will find durability, wide operational window, lower fouling potential with no chemical or physical degradation, setting up indefinite membrane life.

The SiC material and our membrane production methods, deliver specific properties not found in traditional polymeric membrane systems.

- **Rescreen** – Rescreening is implemented in each design to mitigate ragging. Ragging potential has become prevalent in modern WWTPs and can be an operational issue irrespective of the technology.
- **Automated Backwash, Maintenance Clean and Wide Operational TMP** – Our smart automation balances the multitude of variables in TMP window, chemical concentration, backwash, clean intervals, with little or no operator involvement.
- **Permeate Pump Operation with Air Extraction** – With the incision of a Air Extraction system, we have seen an improvement in permeate flow management.
- **Dedicated Membrane Air Scour Blowers** – Our design direction is to utilize dedicated blowers for each Membrane Basin. This provides for individual basin control and optimization.
- **TSS Probes in MB Basins** – TSS probes will be added to each Membrane Basin, so that operations has a continual indication of the MLSS level in each basin. Smart system trends, set actions for notifications, wasting and air scour rates.
## 1.b SiC Membrane Data Sheet (M11)

The following are selected technical specifications; see section 2 for specific plant design details.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Ovivo SiC Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operation</strong></td>
<td></td>
</tr>
<tr>
<td>Maximum MLSS (MBR)(^1)</td>
<td>25,000 mg/L</td>
</tr>
<tr>
<td>Maximum MLSS (MBT)(^1)</td>
<td>35,000 mg/l</td>
</tr>
<tr>
<td>Minimum MLSS (Tertiary MBR)</td>
<td>3,000 mg/L</td>
</tr>
<tr>
<td>Operating pH Range</td>
<td>2 to 11</td>
</tr>
<tr>
<td>Cleaning pH Range</td>
<td>1 to 13</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>1 to 80(^\circ) C</td>
</tr>
<tr>
<td>Cleaning Temperature Range</td>
<td>1 to 45(^\circ) C</td>
</tr>
<tr>
<td>Maximum FOG</td>
<td>&lt;500 mg/L</td>
</tr>
<tr>
<td>Maximum TMP</td>
<td>10 PSI</td>
</tr>
<tr>
<td>Air Scour/Stack Range</td>
<td>35 to 50 SCFM</td>
</tr>
<tr>
<td>Chlorine Exposure</td>
<td>5,000,000 ppm hours</td>
</tr>
<tr>
<td>Backwashable</td>
<td>Yes</td>
</tr>
<tr>
<td>Automatic Maintenance Clean</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Stack**

| Parameter                                      |                     |
| Membrane Stack/Unit                           | M11                 |
| Number of Modules/Stack                       | 11                  |
| Diffuser                                      | Coarse Bubble       |
| Height                                        | 7’-4”               |
| Dry Weight/Stack                              | 1,260 lbs           |
| Maximum Wet Weigh/Stack                       | 2,140 lbs           |
| Housing Material                              | 316 SS              |
| Stack Connection                              | 3” Flange           |

**Plate**

| Parameter                                      |                     |
| Material                                       | Silicon Carbide     |
| O-Ring                                         | EPDM                |
| Construction                                   | Monolithic          |
| Pore Size                                      | 0.1 μm UF/MF        |
| Surface Area                                   | 1.625 ft\(^2\)/Plate |
| Dimensions (approximate)                       | 1.7’ length x 0.48’ width x 0.02’ thickness |

**Module**

| Parameter                                      |                     |
| Number of Plates/Module                        | 40                  |
| Spacing Between Plates                         | 5.6 mm              |
| Surface Area                                   | 65 ft\(^2\)/Module  |
| Dimensions (approximate)                       | 1.7’ length x 0.48’ width x 0.02’ thickness |
| Permeate Connection                            | 2 x 9.40 mm OD      |
| Dry Weight/Module                              | 79 lbs              |
| Maximum Wet Weigh/Module                       | 99 lbs              |
| In-Basin Dewater Recovery                      | Yes                 |

Membrane capability and the number of units installed may not allow maximum MLSS Operation.
section 2
technical considerations

2.a Influent Flow Data

The influent design flow options are summarized in the table below.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Flow</th>
<th>Minimum Temperature</th>
<th>Event Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Day Flow (ADF)</td>
<td>0.5 MGD</td>
<td>10° C</td>
<td>9 Consecutive Months</td>
</tr>
<tr>
<td>Maximum Month Flow (MMF)</td>
<td>0.6 MGD</td>
<td>10° C</td>
<td>3 Consecutive Months</td>
</tr>
<tr>
<td>Peak Week Flow (PWF)</td>
<td>0.7 MGD</td>
<td>10° C</td>
<td>14 consecutive Days²</td>
</tr>
<tr>
<td>Peak Hour Flow</td>
<td>1.4 MGD</td>
<td>10° C</td>
<td>2 hours</td>
</tr>
<tr>
<td>Peak Day Flow (PDF)²</td>
<td>1.0 MGD</td>
<td>10° C</td>
<td>24 hours, eight non-consecutive days</td>
</tr>
</tbody>
</table>

Notes:
1. Peak Values assumed to occur during MMF, to be verified by Consulting Engineer.
2. May require additional clean each week.

2.b Influent | Effluent Characteristics & Biological Process

Process design is existing and not considered in the scope of Ovivo. Management of the flow and biological process is key to the performance of any membrane system. It is assumed that this management is in place and does not exceed original design values. If influent exceeds the original specifications or the source of influent changes, the ability of the treatment system to produce the designed treated water quality and/or quantity may be impaired. Ovivo will provide guidance to overcome characteristic variations, however, if the Owner chooses to continue to operate the system, they assume the risk or any additional costs associated with biological upset, increased consumable use or membrane damage.

2.c Membrane System Design

SiC Technology data shown below is customized specific to this project.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Conversion Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Membrane Trains</td>
<td>4</td>
</tr>
<tr>
<td>Number of Stacks per Train</td>
<td>8</td>
</tr>
<tr>
<td>Total Membrane Surface Area</td>
<td>6,500 ft²</td>
</tr>
<tr>
<td>Flux</td>
<td>ADF</td>
</tr>
<tr>
<td>MLSS</td>
<td>MBR</td>
</tr>
</tbody>
</table>

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section 3
upgrade plan

3. a Upgrade Plan

MBR Basin – The SiC conversion will include membrane unit replacement in all basins, with the addition of fine bubble diffusers (and blower), for mixing the open area in the membrane basins. Permeate headers, permeate pumps and air scour blowers will stay as is. Controls will be upgraded to accommodate the SiC operation.

Each MBR basin will receive 8 membrane units and fine bubble diffusers. A backwash tank will be added for improved permeate and backwash capabilities. New in-basin fittings and hoses and stabilizer pipes will be supplied by Ovivo. A new SS Header will be required for the feed to the fin bubble diffusers. These headers will be by others.
section 4
scope of supply

4.a Equipment Scope of Supply Summary

The following table represents the scope of supply summary for the equipment provided by Ovivo. The assumption all the existing equipment are in good operating condition and will meet the conversion requirements set forth in the proposal.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Specification</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane Stack</td>
<td>32</td>
<td>Silicon Carbide M11</td>
<td>Ovivo/Cembrane</td>
</tr>
<tr>
<td>Fine Bubble Diffuser</td>
<td>Lot</td>
<td>Flat Panel</td>
<td>Ovivo/Aerostrip</td>
</tr>
<tr>
<td>In-Basin Permeate</td>
<td>Air Pipe</td>
<td>Lot</td>
<td>PVC</td>
</tr>
<tr>
<td>Backwash Pump</td>
<td>1</td>
<td>Centrifugal</td>
<td>Gorman Rupp</td>
</tr>
<tr>
<td>Pump Isolation Valves</td>
<td>Gauges</td>
<td>Lot</td>
<td>6”</td>
</tr>
<tr>
<td>Blower</td>
<td>1</td>
<td>PD</td>
<td>TBD</td>
</tr>
<tr>
<td>Blower Isolation Valves</td>
<td>Gauges</td>
<td>Lot</td>
<td>6”</td>
</tr>
<tr>
<td>Air Extraction System</td>
<td>2</td>
<td>--</td>
<td>Ovivo</td>
</tr>
<tr>
<td>Air Flow Meter</td>
<td>1</td>
<td>Thermo Mass</td>
<td>Sierra</td>
</tr>
<tr>
<td>Maintenance Clean Pumps</td>
<td>2</td>
<td>PD and Meter</td>
<td>Seepex Blue/White</td>
</tr>
<tr>
<td>Backpulse Tank</td>
<td>1</td>
<td>Poly Tank</td>
<td>Ovivo</td>
</tr>
<tr>
<td>Tank Isolation Valves</td>
<td>1</td>
<td>2”</td>
<td>Asahi</td>
</tr>
<tr>
<td>Backwash Tank Level Control</td>
<td>2</td>
<td>Switch</td>
<td>Conery</td>
</tr>
<tr>
<td>PLC Program Upgrade</td>
<td>1</td>
<td>--</td>
<td>Ovivo</td>
</tr>
<tr>
<td>SCADA Upgrade</td>
<td>1</td>
<td>--</td>
<td>Ovivo</td>
</tr>
<tr>
<td>MCP</td>
<td>1</td>
<td>--</td>
<td>By Others</td>
</tr>
</tbody>
</table>

4.b Services Scope of Supply Summary

Installation, startup and commissioning activity will be determined. Costs will be added to the equipment price quoted by Ovivo.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Duration</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Inspection</td>
<td>On-site installation inspection</td>
<td>TBD</td>
<td>Ovivo Project Manager</td>
</tr>
<tr>
<td>Commissioning</td>
<td>Start-up, demonstration and training</td>
<td>TBD</td>
<td>Ovivo Technical Services</td>
</tr>
<tr>
<td>Ongoing Support</td>
<td>24/7 technical phone support</td>
<td>Warranty</td>
<td>Ovivo Technical Services</td>
</tr>
<tr>
<td>WaterExpert™</td>
<td>Data trending, asset management</td>
<td>1 Year</td>
<td>Ovivo</td>
</tr>
<tr>
<td>Freight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping</td>
<td>Best-Way</td>
<td>TBD</td>
<td>Ovivo</td>
</tr>
</tbody>
</table>

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4.c WaterExpert

WaterExpert™ is included for the first year of operation. WaterExpert™ is a platform provided to help better maintain and operate the equipment and harness the power of cloud to provide real time data insights into the equipment. Included in the WaterExpert™ base plan are data trending charts, alerts, maintenance calendars, digital documentation of Ovivo’s scope of supply, drawings, IOM manuals and generic videos of basic process, operation and maintenance your MBR equipment.

These tools can be accessed from any smart phone, tablet or computer.

A brief video demonstrating WaterExpert™ capabilities is available at the following youtube link: https://www.youtube.com/watch?v=qWvU6fjlypY

4.d Warranty

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Description</th>
<th>Duration Yrs</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane Warranty</td>
<td>Workmanship and Defects</td>
<td>12</td>
<td>4 Full, 8 Prorated</td>
</tr>
<tr>
<td>Workmanship</td>
<td>Workmanship and Defects</td>
<td>12</td>
<td>4 Full, 8 Prorated</td>
</tr>
<tr>
<td>Performance</td>
<td>Workmanship and Defects</td>
<td>12</td>
<td>4 Full, 8 Prorated</td>
</tr>
</tbody>
</table>

Notes:
1. See warranty statements and specifications for full description.
2. Performance depends on biological process health.
3. Must have WaterExpert

4.f Scope of Work by Others

The following items are for the supply and responsibility of the owner’s representatives, consultants, construction contractor or others. Ovivo assumes no liability for for the execution of these items. Any item that is not expressly indicated in Ovivo’s scope of supply is assumed to be by others. This list represents the typical work by others and in no way is meant to represent all the work to be performed by others. The owners representatives, consultants, construction contractor or others should verify that if any of these items are required on this project, a responsible party has been assigned the scope responsibility.

- Overall plant design and the execution of the design to include:
  - Review and approve biological process design;
  - Review and approve hydraulic plant design;
  - Review of equipment drawings and specifications;
  - Review and approve scope breaks, tie points and terminations.
- Civil and structural works, provision of main plant structures, tank construction, buildings, 
equipment foundation pads etc. including, but not be limited to the following:
  - Design of tanks, wet wells, feed channels and penetrations;
  - Construction of foundation pads for the major process equipment;
  - Floor drains and below grade piping;
  - Design and installation of equipment access platforms, covers, walkways, stairs etc;
  - Equipment anchor bolts and tank anchors other than factory installed equipment;
  - Design, supply, installation and testing of process and utilities piping, pipe supports, hangers, 
  valves etc. supplied by the general contractor;
  - HVAC equipment design and installation (where applicable);
  - Emergency power supply, UPS, power conditioner (where applicable).
- Scope of Supply provision and installation including, but not be limited to the following:
  - All pipe and pipe supports not expressly indicated in Ovivo’s scope of supply, P&ID drawings, 
  and layout drawings;
  - Heat tracing, insulation, or related controls and appurtenances, as required.
  - Any equipment, piping, valves, or fittings not expressly indicated in Ovivo’s scope of supply;
  - Anchors/anchor bolts on the recycle pumps, permeate pumps, WAS pumps, blowers, and 
  chemical feed pumps;
  - Cranes and lifting equipment;
  - Any other equipment or services not supplied by Ovivo, but necessary for an operational 
  plant.
- Unloading of delivered equipment at the FOB site including receiving, sign-off and safe storage 
  of equipment at site until ready for installation.
- Construction Contractor to provide suitable warehousing for storage of the materials in 
  accordance with Ovivo’s instructions.
- Equipment provision and installation including, but not limited to the following:
  - Installation of any loose-shipped Ovivo supplied equipment;
  - Installations of membranes in accordance to Ovivo’s installation instructions;
  - Piping pipe supports, hangers, and valves supplied in Ovivo’s scope of supply;
  - Piping, pipe supports, hangers, and valves between Ovivo supplied equipment and 
  components and piping between Ovivo supplied equipment/components and 
  equipment/components supplied by others;
  - Install all required anchoring, bolts, brackets and fasteners.
  - Flushing of contractor supplied interconnecting piping;
  - Providing assistance where necessary trades in the accomplishment of functions requiring 
  mechanical tradesmen (including electrical, pipe fitters and any other trade within the scope 
  of this contract).
- Provision and installation of all power and instrumentation interconnecting wiring, optical fibers, 
conduit and appurtenances from the control panels, MCC’s etc. to field mounted instruments, 
motors, valves/valve actuators and any other equipment supplied by Others or Ovivo including, 
but not limited to:
  - Electrical wiring interconnections (including wiring, conduit and any other appurtenances 
  required to provide power connections as needed) from the electrical power source to the 
  PLC/Motor Control Panel;
  - Variable frequency drives, motor starters, or controls for equipment not expressly indicated 
  in Ovivo’s scope of supply;
- Instrumentation wiring, conduit and other appurtenances required to provide connections as needed between the various field mounted valves and instruments to the Local Panel(s) and between any Local Panel(s) and the Master Ovivo PLC/MCP Panel;
- All junction boxes, disconnect switches and local operator controls required by the contract drawings and specifications, site standards and local codes and regulations.

- Verification of removal of all residual debris from construction. Debris found within the tank can potentially void membrane warranties or require immediate replacement of damaged cassettes.
- Touch up finish paint surfaces on equipment as required at the completion of the project.
- Paint or material for UV protection.
- Provide any plastic coding pipe markers, legend markers, or directional arrows. Any piping supplied by Ovivo will be piece-marked for erection purposes.
- Noise and Vibration testing as required.
- Supply chemical storage facilities.
- Provide as necessary, wrapping tape or cathodic protection for any pipe penetrations.
- Any raw materials, and utilities during equipment start-up and operation including seed sludge and a supply of raw water feed that meets all design parameters for the successful commissioning of the membrane equipment.
- Chemical totes and any chemicals for operation.
- Facilities for the disposal of raw water screening and pretreatment of feed water.
- Laboratory services, operating and maintenance personnel required during equipment checkout, start-up and operation.
- Collection and disposal offsite as applicable for spent water, including disposal of membrane rinse and flush waters.

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5. a Pricing

Ovivo is pleased to offer the Membrane Bioreactor System equipment and services as detailed in this proposal. THIS BUDGETARY PROPOSAL CONSTITUTES A NON-BINDING ESTIMATE OF PRICE(S) FOR CERTAIN GOODS AND/OR SERVICES THAT MAY BE PROVIDED BY OVIVO FROM TIME TO TIME, BUT SHALL NOT BE CONSTRUED AS A CONTRACTUAL OFFER FOR OVIVO ENTITY TO PROVIDE SUCH GOODS AND/OR SERVICES. ANY CONTRACTUAL OFFER FOR THE SUPPLY OF GOODS AND/OR SERVICES BY OVIVO SHALL BE CONVEYED TO CUSTOMER IN THE FORM OF OVIVO’S STANDARD PROPOSAL DOCUMENT, WHICH INCLUDES, BUT IS NOT LIMITED TO, ITS STANDARD TERMS AND CONDITIONS OF SALE. SUCH PROPOSAL FORM MAY BE PROVIDED TO CUSTOMER UPON REQUEST.

THE OFFER OF GOODS AND/OR SERVICES CONTAINED IN THIS PROPOSAL IS CONTINGENT UPON OVIVO AND ITS CUSTOMER AGREEING ON MUTUALLY ACCEPTABLE TERMS AND CONDITIONS OF SALE.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBR Equipment</td>
<td>Scope per section 4.a</td>
<td>$1,062,004.00</td>
</tr>
<tr>
<td>Controls</td>
<td>Scope per section 4.a</td>
<td>Included</td>
</tr>
<tr>
<td>Services</td>
<td>Scope per section 4.b</td>
<td>TBD and added</td>
</tr>
<tr>
<td>WaterExpert™ &amp; Warranties</td>
<td>Scope per section 4.c, 4.d</td>
<td>Included</td>
</tr>
</tbody>
</table>
Appendix
supplementary information

Proposed Conversion Plan

Ovivo SiC Membrane Stack

SiC Brochure
NOTES:
1. DIMENSIONS ARE GENERAL RECOMMENDATIONS ONLY.
   FOR PROJECT SPECIFIC DIMENSIONS, SEE PROJECT PLAN
   AND RELATED DRAWINGS.
2. SPACING AROUND UNITS SHOWN IS MINIMUM, AND
   MAY INCREASE TO ACCOMMODATE IN BASIN PIPING.
3. MAX ALLOWABLE SUBMERSION = 5'-0"
   MIN ALLOWABLE SUBMERSION = 1'-6"
4. APPROXIMATE LIFT HEIGHT = (1'-6" + DESIGNED SWD)

<table>
<thead>
<tr>
<th>Stack Height</th>
<th>Dry Weight</th>
<th>Wet Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>460 LBS</td>
<td>540 LBS</td>
</tr>
<tr>
<td>M2</td>
<td>540 LBS</td>
<td>700 LBS</td>
</tr>
<tr>
<td>M3</td>
<td>620 LBS</td>
<td>860 LBS</td>
</tr>
<tr>
<td>M4</td>
<td>700 LBS</td>
<td>1020 LBS</td>
</tr>
<tr>
<td>M5</td>
<td>780 LBS</td>
<td>1180 LBS</td>
</tr>
<tr>
<td>M6</td>
<td>860 LBS</td>
<td>1340 LBS</td>
</tr>
<tr>
<td>M7</td>
<td>940 LBS</td>
<td>1500 LBS</td>
</tr>
<tr>
<td>M8</td>
<td>1020 LBS</td>
<td>1660 LBS</td>
</tr>
<tr>
<td>M9</td>
<td>1100 LBS</td>
<td>1820 LBS</td>
</tr>
<tr>
<td>M10</td>
<td>1180 LBS</td>
<td>1980 LBS</td>
</tr>
<tr>
<td>M11</td>
<td>1260 LBS</td>
<td>2140 LBS</td>
</tr>
<tr>
<td>M12</td>
<td>1340 LBS</td>
<td>2300 LBS</td>
</tr>
<tr>
<td>M13</td>
<td>1420 LBS</td>
<td>2460 LBS</td>
</tr>
<tr>
<td>M14</td>
<td>1500 LBS</td>
<td>2620 LBS</td>
</tr>
<tr>
<td>M15</td>
<td>1580 LBS</td>
<td>2780 LBS</td>
</tr>
</tbody>
</table>

*FINAL INSTALLATION DESIGN MAY VARY*
Ovivo® Silicon Carbide Membrane Technology
ALL THE WATER WE HAVE IS ALL THE WATER WE WILL HAVE.

It is our responsibility to treat, recover, and reuse it wisely.

Ovivo's mission is to provide sustainable and efficient water treatment solutions to our customers through expertise and innovation.
LIMITLESS POSSIBILITIES

CHANGING THE LANDSCAPE OF MEMBRANE SYSTEMS

Silicon Carbide (SiC) represents a dramatic shift in membrane technology. With a unique, set of material properties, SiC changes the perception of what a membrane is capable of doing.

SiC naturally draws water in while polymeric membranes have the tendency to repel water. Such a high affinity for water allows SiC to repel the most aggressive substances and materials, resulting in the highest sustainable flux rates.

SiC membranes allow water and wastewater treatment plants to achieve levels of performance previously thought impossible.
UNIQUE PROPERTIES

All of SiC’s key properties work together to provide a technology that is 100% recoverable.

HYDROPHILIC
Natural and permanent hydrophilic properties ensure less chemical cleaning and indefinite dry storage.

POROSITY
Operate at higher sustainable flux rates and solids concentration compared to other membrane formats.

MATERIAL STRENGTH
Both extremely hard and chemically inert material, SiC allows for aggressive cleaning methods.
PRODUCT OFFERING

SiC’s versatility – namely, it’s wide operating window, ability to be dried and rewetted, and high chemical tolerance – provides a sophisticated operating experience with 100% sustained recoverability over the life of the membrane.

SiC membrane technology is the best available technology for membrane bioreactors (MBR), sludge thickening applications, wet weather treatment, and tertiary treatment systems.

<table>
<thead>
<tr>
<th>PACKAGE PLANT OFFERING</th>
<th>MBR</th>
<th>WET WEATHER TREATMENT</th>
<th>TERTIARY TREATMENT</th>
<th>SLUDGE THICKENING</th>
</tr>
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<tbody>
<tr>
<td>CONVENTIONAL PLANT UPGRADES</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>REUSE QUALITY EFFLUENT</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CSO/SSO TREATMENT</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>HIGH MLSS</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>NITROGEN REMOVAL</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>REDUCED SLUDGE HAULING AND SOLIDS DISPOSAL</td>
<td>●</td>
<td>●</td>
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<tr>
<td>TSS &amp; TURBIDITY REMOVAL</td>
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<tr>
<td>PATHOGEN REMOVAL</td>
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<tr>
<td>ULTRA-LOW PHOSPHORUS REMOVAL</td>
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<td>●</td>
</tr>
<tr>
<td>SMALL FOOTPRINT</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>REMOTE MONITORING CAPABILITIES</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
MBR SYSTEMS
Revolutionizing MBR systems with unmatched performance, easier operation, and reuse quality effluent.

PRODUCTS
• Ovivo® MBR System
• microBLOX® Package Plant

ADVANTAGES
• Wide operational window allows systems to perform well under a broad range of harsh conditions.
• Extended membrane life: Durable, resistance to fatigue and chemicals, which sets up a long sustainable lifespan.

WET WEATHER TREATMENT
Prevent pollutants from discharge into sensitive waterways with rapid treatment of CSO and SSO flows.

PRODUCTS
• Ovivo® RapidStorm™ Treatment
• stormBLOX™ Package Plant

ADVANTAGES
• Rapid treatment with instant high quality effluent
• Ground-breaking disinfection advantages with 6 Log fecal coliform removal
• Ideal for tight footprints
TERTIARY MEMBRANE FILTRATION
Advanced treatment to meet tight permit limits and for water reuse applications with completely new disinfection capabilities.

PRODUCTS
- Ovivo® Tertiary Treatment System
- ultraBLOX™ Package Plant

ADVANTAGES
- Ultra-low phosphorus removal
- Reuse
- Retrofit existing chlorine contact chambers

SLUDGE THICKENING SYSTEMS
Reduce hauling costs and polymer usage in a smaller footprint.

PRODUCT
- solidBLOX™ Package Plant

ADVANTAGES
- Easy to install & quick start-up
- Can thicken WAS up to 3% solids without polymers
- Reliable performance & reduced O & M
WHEREVER OVIVO TOUCHES WATER, WE SEEK TO ADD VALUE.

Ovivo was born from the need for clean water. We believe in challenging our people to learn, to grow, so we can provide the best experience for those seeking clean water. It’s our stability combined with our fierce energy to do good that keeps us looking ahead. We want to do good work, with good people, and have fun while we’re doing it.

To learn more about Silicon Carbide technology, visit us at ovivowater.com/sic

ovivowater.com
PROJECT NAME: ATQ AIRPORT REHABILITATION
LOCATION: ATK

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 11-067
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: RA&S-BARROW

NORTH SLOPE BOROUGH PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: ATQ AIRPORT REHABILITATION
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

"The Atqasuk airport is in need of repair. The airport is approx 30 years old and the operating surfaces and lighting system are at the end of their useful life spans. The runway surface has lost crown and the crushed surface course has deteriorated which result in wet spots and unsafe operating conditions resulting in aircraft becoming disabled on the runway and need for runway closures. The lighting system is in need of replacement before it requires significant maintenance needs. Due to the lack of gravel in/around Atqasuk, CIPM has been working with the FAA to haul crushed rock to Atqasuk which will be blended with material of the existing airport embankment and then used as a surface course on the runway. The FAA Airport Improvement Program (AIP) funding schedule has this project slated for receiving funding during their 2019 program. These grant funds provide 93.75% of needed funding and require a 6.25% local match. This request will be for the local match portion of both phases of construction effort."

4. PROJECT LOCATION:

ATK
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$2,100,000.00

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL PROJECT COST</strong> (if different)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   ☑ Yes  ☐ No

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project?  ☑ Yes  ☐ No

If yes, indicate name and CIP project number:  ATQ AIRPORT REHABILITATION - 61067

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2026? □ No □ Yes
If No, explain why it should be considered out of sequence:
N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
ROADS UPGRADES AND REPAIRS
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
N/A
C. Indicate if this is a reoccurring upgrade or repair.
N/A
D. Detail outside funds being leveraged, if applicable.
N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☐ Yes  (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No  ☐ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito Vinas, RA&amp;S Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**LOCATION:** Anaktuvuk Pass & Atqasuk

---

**NSB PLANNING DEPARTMENT USE ONLY**

<table>
<thead>
<tr>
<th>TEMPORARY/CIP PROJECT NUMBER:</th>
<th>13-222</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE SUBMITTED:</td>
<td>3/12/2021</td>
</tr>
<tr>
<td>REQUESTING ENTITY:</td>
<td>Public Works, Power Generation and Distribution</td>
</tr>
</tbody>
</table>

**TYPE:** UpFund

**AMOUNT REQUESTED:** $5,400,000

---

**NORTH SLOPE BOROUGH**

**PLANNING AND COMMUNITY SERVICES**

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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Instructions:

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:** Public Works, Power Generation and Distribution

2. **PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   The waste heat loops in Anaktuvuk Pass and Atqasuk have had constant issues with leaks and water infiltration to the insulation sleeves of existing piping to the extent that the loops have been inoperable for up to 2 years. This request is to fund the recommended replacement/repair of existing loops in both communities.

4. **PROJECT LOCATION:**

   Anaktuvuk Pass & Atqasuk
PROJECT NAME: CIP 63-222 Area Wide Waste Heat Recovery
LOCATION: Anaktuvuk Pass & Atqasuk

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$5,400,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
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<td>$4,860,000</td>
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<td>Administration</td>
<td>(NSB project management)</td>
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<td>$540,000</td>
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<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
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<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$5,400,000</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $ 

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [x] No [ ] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? [ ] No [x] Yes
   If yes, provide an estimated cost breakdown for how much will be spent at each site.
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost breakdown for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Can be phased by community
### 9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes

If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes

If No, explain why it should be considered out of sequence:

| Both systems were installed in the late 90's and coming up at their end of useful life and have been prone to leaks throughout the system causing them to be shut down for up to 2 years. |

### 10. PROJECT JUSTIFICATION:

**A.** Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

With the waste heat loops being out of service it has increased fuel costs and consumption to heat all NSB and NSBSD facilities in each community.

**B.** Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Existing facilities will be upgraded and it will decrease operation costs.

**C.** Indicate if this is a reoccurring upgrade or repair.

not applicable

**D.** Detail outside funds being leveraged, if applicable.

not applicable

### 11. Please respond to the following questions:

**A.** Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

| |

**B.** Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

| |

**C.** Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

| Leaks in the loop and glycol has been seeping up to the surface causing sheens in standing water near the school. |
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  □ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  □ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No  □ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th></th>
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<tbody>
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<thead>
<tr>
<th>Signature:</th>
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<tr>
<th>Department Director Name:</th>
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<td></td>
<td>3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation  
**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

**NSB PLANNING DEPARTMENT USE ONLY**  
**TEMPORARY/CIP PROJECT NUMBER:** 13-251  
**DATE SUBMITTED:** 3/12/2021  
**REQUESTING ENTITY:** Public Works / Power Generation & Distribution  
**TYPE:** UpFund  
**AMOUNT REQUESTED:** $1,255,000  
**AMOUNT RECOMMENDED:**

---

**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**  
**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

**Instructions:**  
1. Complete this form electronically.  
2. Email the completed PDF form to CIP@north-slope.org.  
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.  

Incomplete or unsigned requests are unacceptable and will be returned.

**1. REQUESTING ENTITY:** Public Works / Power Generation & Distribution  
**2. PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation  
**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.  

This is a reoccurring area wide project.

Funds requested will be used to procure and deliver major durable power grid components to include transformers, cut-outs, fuses, switch gear, meter bases, power poles, pole cross arms, and associated hardware.

As in the past, the major component in need of replacement this funding cycle are transformers. This upfund will provide for the replacement of 70 transformers for Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Wainwright and Point Lay. This request will also provide for replacement of other components listed on an as needed, as required, basis. Many of the Borough’s 3 phase services on our facilities in the villages that provide essential services have reached the end of their useful life and need to be replaced. This request includes an estimate to replace these services.

Funds in this project are also used on an emergency basis, therefore, a balance should always be maintained as a safety net. Funding this request will assist Public Works in the goal of providing for the reliable distribution of electrical power to our residents and facilities of the NSB with minimal downtime.

**4. PROJECT LOCATION:**  
Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Wainwright & Point Lay
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Transformers $504,000 NSB Facilities 3 Phase Service Replacement $100,000 Other Components $200,000 (Includes purchase and shipping)</td>
<td>$1,004,000</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>10% Direct Cost Administration</td>
<td>$100,400</td>
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</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>15% Contingency for material and shipping escalation as well as unknowns.</td>
<td>$150,600</td>
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</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>$1,255,000</td>
<td></td>
</tr>
</tbody>
</table>

6. PROJECT COST: Complete the project cost table below as completely as possible.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No [ ] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? [ ] No [ ] Yes
   If yes, indicate name and CIP project number: CIP 63-251
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   This is not a phased project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? [ ] No [ ] Yes
   If Yes, is it scheduled for replacement before 2026? [ ] No [ ] Yes
   If No, explain why it should be considered out of sequence:
   Present conditions require corrective action. The Design needs to be escalated to advance delivery prior to construction funding.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Electrical components in our coastal villages deteriorate extremely fast due to the extremely corrosive salt water environment which if not replaced, eventually cause an outage. Often these outages occur under high wind and storm conditions making mobilization to restore an outage hazardous and dangerous. If we are able replace these deteriorating components before they fail, outages are eliminated. Out non-coastal villages see minimal deterioration, however, the age of some equipment has surpassed it’s useful life which can lead to unforeseen problems and outages.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   N/A
   C. Indicate if this is a reoccurring upgrade or repair.
   Reoccurring Upgrade
   D. Detail outside funds being leveraged, if applicable.
   No outside funds are being leveraged

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [ ] Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [ ] No [ ] Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? [ ] No [ ] Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  *(If yes, include written verification)*

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No ☒ Yes  *(If yes, include written verification)*

Explanation, if necessary:

Upgrading and replacement of aging and deteriorating electrical components with new more durable and reliable components, results in less outages that require costly mobilization efforts by our line crew to restore power.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  
☐ No ☒ Yes  *(If yes, indicate PAR name and date:)*

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristopher Kolodziej, Power System Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 13-258
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT REQUES TED: $7,375,000
AMOUNT RECOMMENDED: 

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works / Power Generation & Distribution
2. PROJECT NAME: CIP 63-258 Village Power Distribution Grid Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Anaktuvuk Pass and Point Lay - Funds are requested to solicit for design services and then to competitively bid a construction contract.

The Power Distribution Grids in these locations are deteriorating and aging prematurely as a result of the harsh arctic environment that subjects these systems to high wind and ice loads. The coastal Villages have the added element of an extremely corrosive atmosphere that escalates the aging process. This results in numerous outages as a result of conductor and/or connector failures, breaking cross arms, insulator failures, jumpers failures, etc. These outages not only inconvenience our customers but put our facilities at risk of freezing and jeopardize the safety of the residents and the linemen that must restore power once it is lost. Approval of this request will help address these problems areawide and will help ensure the safety of our residents, linemen and provide more reliable delivery of power to our customers.

4. PROJECT LOCATION:

Areawide: Nuiqsut, Kaktovik, Atqasuk, Wainwright, Point Hope, Point Lay, Anaktuvuk Pass, Barrow
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$7,375,000: Anaktuvuk Pass and Point Lay design and Construction

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>PAR, other studies or reports, etc.</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design and Construction Administration for Anaktuvuk Pass and Point Lay ($350,000 each = $700,000)</td>
<td></td>
<td>$700,000</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Point Lay and Anaktuvuk Pass Construction: $5,200,000</td>
<td></td>
<td>$5,200,000</td>
</tr>
<tr>
<td>Administration</td>
<td>10% total project direct costs</td>
<td></td>
<td>$590,000</td>
</tr>
<tr>
<td>Contingency</td>
<td>15% contingency due to increased material costs, unknown bidder interest and competition, and unknowns.</td>
<td></td>
<td>$885,000</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

| TOTAL                                     |                                                                            |                                                          | $7,375,000 |

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☑️ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☑ Yes

If yes, indicate name and CIP project number: CIP 63-258

A. If this is a new request, indicate below whether this project could be phased and over how many years.

- Point Lay and Anaktuvuk Pass: $700,000 (Design and CA Services)
- Point Lay and Anaktuvuk Pass: $5,200,000 (Construction)

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: CIP 63-258 Village Power Distribution Grid Upgrades
LOCATION: AIN, AKP, ATQ, BTI, NUI, PIZ, BRW, PHO

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☐ No  ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No  ☑ Yes
   If No, explain why it should be considered out of sequence:

   This project is ongoing and upgrades are prioritized based on existing condition of the condition of the power grid in each Village. This project has also been used for emergency repairs. We have been upgrading, with contracted construction, one village at a time which typically lasts two (2) construction seasons. Point Hope was completed in 2016. Nuiqsut was completed in 2019. Kaktovik is currently under construction. Atqasuk is the next complete power grid upgrade planned.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   The current Village Power Distribution Grids are aging and deteriorating and in need of upgrading and replacement. Their current condition results in numerous outages as a result of conductor or connector failures, breaking cross arms, insulator failures, jumper failures, etc. Outages inconvenience Village residents, put homes and Borough facilities at risk of freeze up, and jeopardize the safety of Village residents and the lineman responding to power outages. Project funds are also used for emergencies when catastrophic failures power system failures occur.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   This project will upgrade and replace existing aging and deteriorating power distribution grids therefore decreasing operating and maintenance costs.

   C. Indicate if this is a reoccurring upgrade or repair.

   This is a non-reoccurring upgrade and the improved Village Power Distribution Grids will have an estimated 20 year life.

   D. Detail outside funds being leveraged, if applicable.

   No outside funds are being leveraged

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:
PROJECT NAME: CIP 63-258 Village Power Distribution Grid Upgrades
LOCATION: AIN, AKP, ATQ, BTI, NUI, PIZ, BRW, PHO

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
Power grid upgrades and replacements will reduce the number of emergency call-outs, air charters, and Search & Rescue air assistance required to to downed lines and switchgear failures.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Nuiqsut H2S Scrubber
LOCATION: Nuiqsut/Alpine

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-260
DATE SUBMITTED: 3/11/21
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Nuiqsut H2S Scrubber
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The natural gas supply that flows from Alpine to Nuiqsut is experiencing increasing levels of Hydrogen Sulfide (H2S). H2S is hazardous to human health and in high enough concentrations can be fatal. H2S also has corrosive properties that can adversely affect pipeline infrastructure. H2S is currently being removed from the gas supply at Alpine, but the equipment currently in use is not adequate to efficiently keep up with the rising H2S levels in Alpine wells (H2S typically increases as wells age). With bids now in on the interconnect construction, even the low bid is just over our current budget. To award a contract we’ll need approximately $500,000. The current available balance is $2.2m. Whether we can find other funds in order to award a contract or try for an LOI, we will also need additional funds for contingency and administration expenses. Dealing with the complexities of working at Alpine, we're going to need to be ready for change orders. Recommend an upfund request for $1m to be safe (with $500k in LOI if other funds cannot be identified to award a contract). Without this upfund, we will not be able to connect the new scrubber into the Alpine system and bring it on line.

4. PROJECT LOCATION:
New skid is located at Alpine, but is used to condition the natural gas supplied to Nuiqsut.
6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>on-site engineering support</td>
<td>estimate</td>
<td>$774,500.00</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>labor and materials</td>
<td>estimate</td>
<td>$6,127,000.00</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td></td>
<td></td>
<td>$298,000.00</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>indirect - Conoco Phillips</td>
<td>estimate</td>
<td>$800,000</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$9,000,000</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $9,000,000

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☑ No  ☒ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

LOI memo initiated on March 3, 2021, still in process at the time of application

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  ☐ No  ☒ Yes

If yes, indicate name and CIP project number:  63260 - Nuiqsut H2S Scrubber

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an area wide project, provide an estimated cost breakdown for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Nuiqsut H2S Scrubber
LOCATION: Nuiqsut/Alpine

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☑ No ☑ Yes
   If No, explain why it should be considered out of sequence:
   Being installed at Alpine, operated by Conoco Phillips (COP) personnel, this equipment has very specific M&O that the NSB cannot provide.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   The presence of H2S in the gas stream is hazardous to human health as well as detrimental to existing infrastructure. The H2S removal facilities currently in use require frequent operating attention which results in high operating costs. This new skid will reduce operating costs as well as the potential for exposure to H2S for both personnel and equipment.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   The new skid will reduce operating costs; reduced filter media changes outs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:
   Conoco Phillips has expressed multiple safety concerns with the equipment currently in use.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:
   Removal of H2S from the natural gas supply to Nuiqsut will reduce the threat of internal pipeline corrosion.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:
   H2S is a known hazard to human health.
PROJECT NAME: Nuiqsut H2S Scrubber
LOCATION: Nuiqsut/Alpine

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? [ ] No [X] Yes (If yes, include written verification)

Explaination, if necessary:

Working with AESolutions and ConocoPhillips, a Process Hazard Analysis (PHA) was conducted in August 2017. The PHA process identified and addressed dangers to personnel and equipment. (Final draft is still being worked on).

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? [ ] No [X] Yes (If yes, include written verification)

Explaination, if necessary:

With increasing levels of H2S comes increased frequency of changing out the medium used in the H2S removal process. This increased frequency results in high operating costs, which will be reduced with introduction of this new system.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? [ ] No [X] Yes If yes, indicate PAR name and date: H25treatment, NuiqsutGasUtility, January 2012 and Assessment and Recommendations Report dated May 20, 2016.

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Scott K. Danner, Director</th>
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</thead>
<tbody>
<tr>
<td>Signature:</td>
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<tr>
<td>Department Director Name:</td>
<td></td>
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<td>Department Director Signature:</td>
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</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
DEPARTMENT OF PUBLIC WORKS
P.O. Box 350
Barrow, Alaska 99723
Phone: 907-852-0489

Scott K. Danner, Director
MEMORANDUM

TO: Gordon Brower, Planning Director
THRU: Sandra Stuermer, A&F Director
THRU: Bernadette Adams, CIPM Director
Scott Evans, CIPM Deputy Director

FROM: Scott K. Danner, Director

DATE: March 3, 2021

SUBJECT: REQUEST FOR LETTER OF INTENT FUNDING CIP PROJECT 63260 – NUIQSUT H2S GAS SCRUBBER

This memorandum requests Project Review Committee (PRC) consideration to approve LOI funding for capital project no. 63260, Nuiqsut H2S Scrubber. Hydrogen Sulfide (H2S) is a naturally occurring gas present in the natural gas supplied from ConocoPhillips Alaska’s Alpine development. As the wells feeding Alpine age, the H2S levels have increased and will continue to do so. H2S is hazardous to both human health and corrosive to pipeline infrastructure. Both of these effects can be minimized by removing the H2S from the gas supply.

Currently H2S is removed from the gas supply by a repurposed water removal skid (N9) that was retrofitted to remove H2S. The N9 skid requires frequent maintenance which results in very high operating costs. Additionally, ConocoPhillips has documented a variety of safety concerns with N9.

The construction of the new H2S gas scrubber (N7) has been completed and N7 has been placed on its foundation at Alpine. Bids for constructing the connections of N7 into the Alpine natural gas system have been received, evaluated and a construction contract is ready to be awarded.

Unfortunately, the project code does not currently have funding sufficient to award a contract. The addition of $500,000 through LOI would allow award of a contract and continued administration of the project until the PRC can allocate funds through the standard process.

The amount requested through letter of intent is $500,000.

Thank you for your consideration.
North Slope Borough
Planning and Community Services

CIP Project Request Form

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. Requesting Entity: Public Works / Power Generation & Distribution

2. Project Name: Areawide Power Generation Upgrade 13-279

3. Project Description: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   This project funds for major overhaul of generator engines and associated equipment, major upgrades and reconditioning of power plants in villages. Completing timely engine overhauls is critical to providing reliable electrical generation.

   This Project will also funds small repairs of generators, replacement of generators parts & switch gear.

   This Project will also fund replacement parts for NSB Facilities Emergency generators areawide.

4. Project Location:

   Areawide

NSB Planning Department Use Only

Temporary/CIP Project Number: 13-279
Type: UpFund
Date Submitted: 3/12/2021
Amount Requested: $1,500,000
Amount Recommended: 

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES
6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
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<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>Engine overhaul contract, misc material purchases</td>
<td>Historical</td>
<td>$1,200,000.00</td>
</tr>
<tr>
<td>Administration</td>
<td>10%</td>
<td></td>
<td>$150,000.00</td>
</tr>
<tr>
<td>Contingency</td>
<td>10%</td>
<td></td>
<td>$150,000.00</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
<td>$1,500,000.00</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:  
Is this a phased project or a follow-up to an existing CIP project?  
If yes, indicate name and CIP project number: 13-279  
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Areawide Power Generation Upgrade 13-279
LOCATION: Areawide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☒ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   This project provides funds for major Alaska Dept. of Environmental Conservation (ADEC) required overhauls on generator engines and other necessary upgrades to power plants areawide. Completing timely engine overhauls is critical to providing reliable electrical generation. Any deviation from ADEC granted permits and/or regulations will surely cost the NSB hefty fines. With the currently planned upgrades this year, it would be in the best interest for NSB to continue major upgrades sequentially including streamlining vendor supported control systems. The quality and reliability of the life of our power plants depend on such advancements, as well as our communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   Project will not expand facilities or services

C. Indicate if this is a reoccurring upgrade or repair.

   Reoccurring

D. Detail outside funds being leveraged, if applicable.

   No outside funds.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☒ Yes (If yes, include written verification)

   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☒ Yes (If yes, include written verification)

   Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☒ Yes (If yes, include written verification)

   Explanation, if necessary:
12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☑ Yes ☐ No  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: EAST END BARROW UTILITIES INSTALLATION PH 1
LOCATION: BRW

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-281
DATE SUBMITTED: Type: New
REQUESTING ENTITY: RA&S-BARROW
AMOUNT REQUESTED: $2,243,000
AMOUNT RECOMMENDED: $

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: EAST END BARROW UTILITIES INSTALLATION PH 1
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

"This project consists of installing utilities along the new ligu Street extension and the new UIC HomesiteSubdivision on Utiqtuq and Laura Madison. See attached for maps. The utilities installation will bring gas & electric to 27 lots and gas to 17 additional lots."

4. PROJECT LOCATION:

BRW
6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>PAR, other studies or reports, etc.</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services</td>
<td>Design, legal, other</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>anticipated costs</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>NSB project management</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Contingency</td>
<td>if not included in other line items</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Other Costs</td>
<td>with description</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$</strong></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☒ No  ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.
   N/A

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  ☐ No  ☒ Yes
   If yes, indicate name and CIP project number:  EAST END BARROW UTILITIES INSTALLATION PH 1 - 63281
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
      N/A
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
      N/A
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
      N/A
PROJECT NAME: EAST END BARROW UTILITIES INSTALLATION PH 1
LOCATION: BRW

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  ☒ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  ☒ Yes
   If No, explain why it should be considered out of sequence:
   N/A

10. PROJECT JUSTIFICATION:  Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   ROADS FACILITY UPGRADES AND REPAIRS

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   N/A

   C. Indicate if this is a reoccurring upgrade or repair.
   N/A

   D. Detail outside funds being leveraged, if applicable.
   N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

      B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

      C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: EAST END BARROW UTILITIES INSTALLATION PH 1
LOCATION: BRW

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito Vinas, RA&amp;S Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>Scott K. Danner, Director, Department of Public Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright Power Plant design Phase I

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works / Power Generation & Distribution
2. PROJECT NAME: Wainwright Power Plant design Phase I
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Design Phase will address the following:
Upgrade the automated controls, cooling and exhaust systems; replace the Direct Digital Control System (DDC) with a programmable logic control system (PLC), and human machine interface panels (HMI); replace new motor control center (MCC) which allows variable frequency drive motors to communicate with the new PLC system; Facility expansion request to accommodate new cooling system to maximize efficiencies and decrease emissions other equipment upgrades and priorities to be established by Public Works/Power Generation & Distribution Division as the work processes.

Replace existing switchgear with new.

4. PROJECT LOCATION:
Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-New 1
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works / Power Generation & Distribution

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works / Power Generation & Distribution
2. PROJECT NAME: Wainwright Power Plant design Phase I
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Design Phase will address the following:
Upgrade the automated controls, cooling and exhaust systems; replace the Direct Digital Control System (DDC) with a programmable logic control system (PLC), and human machine interface panels (HMI); replace new motor control center (MCC) which allows variable frequency drive motors to communicate with the new PLC system; Facility expansion request to accommodate new cooling system to maximize efficiencies and decrease emissions other equipment upgrades and priorities to be established by Public Works/Power Generation & Distribution Division as the work processes.

Replace existing switchgear with new.

TEMPORARY/CIP PROJECT NUMBER: 13-New 1
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works / Power Generation & Distribution

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 13-New 1
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works / Power Generation & Distribution

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

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1. REQUESTING ENTITY: Public Works / Power Generation & Distribution
2. PROJECT NAME: Wainwright Power Plant design Phase I
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Design Phase will address the following:
Upgrade the automated controls, cooling and exhaust systems; replace the Direct Digital Control System (DDC) with a programmable logic control system (PLC), and human machine interface panels (HMI); replace new motor control center (MCC) which allows variable frequency drive motors to communicate with the new PLC system; Facility expansion request to accommodate new cooling system to maximize efficiencies and decrease emissions other equipment upgrades and priorities to be established by Public Works/Power Generation & Distribution Division as the work processes.

Replace existing switchgear with new.
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$2,000,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>Power Plant Upgrade Design</td>
<td>Historical knowledge: KAK</td>
<td>$1,500,000.00</td>
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<tr>
<td>Professional Services</td>
<td></td>
<td></td>
<td>$</td>
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<tr>
<td>Construction / Acquisition</td>
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<td></td>
<td>$</td>
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<tr>
<td>Administration</td>
<td>10%</td>
<td></td>
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<td>Other Costs</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$2,000,000.00</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? □ No □ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? □ No □ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Project could be phased: Phase I - Design, Phase II - Construction

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase I - $2,000,000.00
Phase II - To Be Determined
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright Power Plant design Phase I

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☒ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☒ Yes
If No, explain why it should be considered out of sequence:
This project isn’t scheduled for replacement in 2018 because this is a phased project and requires design to commence first.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
Wainwright’s Power Plant is the oldest of the North Slope villages, requiring an entire upgrade throughout, in order to perform reliably, generating continuous power for the village, its residents and facilities. These upgrades are sure to provide efficient operations with upgraded cooling and exhaust systems as well as decreasing emissions. Standardization of control systems area wide would include this upgrade, increasing vendor supported parts/materials availability and decreasing variety of inventory for incompatible systems.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
N/A

C. Indicate if this is a reoccurring upgrade or repair.
Upgrade

D. Detail outside funds being leveraged, if applicable.
No outside funds are being leveraged

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: Wainwright Power Plant design Phase I
LOCATION: Wainwright Power Plant design Phase I

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:
This project will reduce maintenance costs by reducing engine failures which require immediate response of staff and operational funds for maintenance materials.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Kristopher Kolodziej, Power System Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Barrow PSO stand-by generator

**LOCATION:** Barrow

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**NSB PLANNING DEPARTMENT USE ONLY**

TEMPORARY/CIP PROJECT NUMBER: 14-New 1  
DATE SUBMITTED: 3/12/2021  
REQUESTING ENTITY:  

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**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**

**CIP VEHICLE AND EQUIPMENT REQUEST FORM**

*Use this form for all equipment and/or vehicle purchases or replacements*

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**Instructions:**
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:**

2. **PROJECT NAME:** Barrow PSO stand-by generator

3. **PROJECT DESCRIPTION:**
   - **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

4. **PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

$350,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No  ☐ Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☐ No  ☐ Yes  
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project?  ☐ No  ☐ Yes  
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule?  ☐ No  ☐ Yes  
If Yes, is it scheduled for replacement before 2026?  ☐ No  ☐ Yes  
If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes  (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes  (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes  (If yes, include written verification)
   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes  (If yes, include written verification)
   Explanation, if necessary:

PROJECT NAME: Barrow PSO stand-by generator
LOCATION: Barrow
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature: Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature: Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 14-New 2
DATE SUBMITTED: 2/23/2021
REQUESTING ENTITY: NSB SEARCH AND RESCUE

TYPE: NEW
AMOUNT REQUESTED: $333,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH AND RESCUE

2. PROJECT NAME: SEARCH AND RESCUE POINT HOPE BUILDING UPGRADE

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

THE NSB SEARCH AND RESCUE TEAM PROVIDES EMERGENCY SEARCH AND RESCUE SERVICES ACROSS THE NORTH SLOPE BOROUGH. THESE SERVICES INCLUDE PROLONGED SEARCHES FOR MISSING PERSONS. CLIMATE CONDITION CAN BE EXTREME IN THE ARCTIC AT ANY TIME OF THE YEAR, ESPECIALLY DURING THE WINTER MONTHS. MISSIONS ARE OFTEN CONDUCTED UNDER THESE CHALLENGING WEATHER CONDITIONS AND OVER LONG DISTANCES. THESE MISSIONS REQUIRED EQUIPMENT THAT CAN ALLOW THE RESCUE TO TRAVEL IN DIFFERENT TYPES OF TERRAIN AND TIMES OF THE YEAR. KEEPING THIS VALUABLE EQUIPMENT WARM AND PRISTINE WORKING CONDITIONS IS PARAMOUNT TO SUCCESSFUL SEARCH AND RESCUE MISSIONS.

NSB SEARCH AND RESCUE IS IN CHARGE OF HELPING AND PROVIDING EQUIPMENT, GEAR AND ASSISTANCE TO ALL THE 7 VILLAGES OF THE NORTH SLOPE AND ITS SEARCH AND RESCUE VOLUNTEERS. HAVING A BUILDING UP TO CODE AND STANDARDS IS VITAL FOR SAR PERSONNEL, VOLUNTEERS AND EQUIPMENT FROM THAT VILLAGE. IN THIS CASE THE VILLAGE OF POINT HOPE. THE POINT HOPE BUILDING IS CURRENTLY NOT BEING UTILIZED, SINCE IS NOT IN SHAPE TO HOUSING PERSONNEL OR ANY EQUIPMENT. BECAUSE OF THESE ISSUES, NSB SAR PERSONNEL IS IN ANOTHER BUILDING AND THE EQUIPMENT IS BEING HOUSED IN CONNEXES OR OUTSIDE WHERE THE WEATHER DETERIOATES IT. IT IS IMPORTANT THAT SAR IS ABLE TO HAVE A BUILDING THAT WILL ALLOW FOR OPERATIONS TO BE CONDUCTED AND EQUIPMENT TO BE KEPT SAFE.

THE PROJECT IS FOR THE NSB SEARCH AND RESCUE TO UPGRADE THE BUILDING IN POINT HOPE

4. PROJECT LOCATION:
126 KANUQ STREET, BLOCK 28, POINT HOPE, ALASKA
PROJECT NAME: SEARCH AND RESCUE POINT HOPE BUILDING UPGRADE  
LOCATION: POINT HOPE, ALASKA

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

THE PROJECT COST SUMMARY IN ITEM 6 REFLECTS UPGRADES TO THE BUILDING: $302,012.00, 20% CONTINGENCY: $60,403.00 AND 10% ADMINISTRATION COST: $36,242.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>BUILDING UPGRADE</td>
<td>$302,012.00</td>
<td>$302,012.00</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>10% ADMINISTRATION COST OF TOTAL AMOUNT</td>
<td>$36,242.00</td>
<td>$36,242.00</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>20% CONTINGENCY OF RENOVATION AMOUNT</td>
<td>$60,403.00</td>
<td>$60,403.00</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
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</tr>
<tr>
<td>TOTAL</td>
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<td>$332,213.20</td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  
[X] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  [X] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:
N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
THE UPGRADES FOR THE POINT HOPE SAR BUILDING WILL ALLOW THE POINT HOPE SAR TEAM TO STORE SAR EQUIPMENT AND PROTECT THEM FROM EXTREME CLIMATE CONDITIONS IN THE ARCTIC, ESPECIALLY DURING THE WINTER MONTHS. KEEPING THESE VALUABLE EQUIPMENT WARM AND PRISTINE WORKING CONDITIONS IS PARAMOUNT TO SUCCESSFUL SEARCH AND RESCUE MISSIONS. IT WILL ALSO ALLOW PERSONNEL TO HAVE A SAFE WORK PLACE.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
THIS UPGRADE WILL ALLOW THE POINT HOPE SAR COORDINATOR TO BE HOUSED AND WILL ASSIST THE VOLUNTEER’S IN HAVING AN INFRASTRUCTURE FOR ALL EQUIPMENT AND TO BE ABLE TO SERVICE THEM AS NEEDED. THE NORTH SLOPE BOROUGH SEARCH AND RESCUE WILL BE RESPONSIBLE FOR THE UPKEEP, MAINTENANCE AND OPERATING COST OF THE BUILDING.

C. Indicate if this is a reoccurring upgrade or repair.
N/A

D. Detail outside funds being leveraged, if applicable.
N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
THE NORTH SLOPE BOROUGH SEARCH AND RESCUE IS IN GREAT NEED TO ALLOW ITS ASSISTANT COORDINATOR AND THE VILLAGE VOLUNTEER SAR ACCESS THE BUILDING AND STORE GEAR AND EQUIPMENT THAT ARE VITAL FOR EMERGENCY RESPONSE DUE TO THE GROWTH OF MOLD WITHIN THE WALLS OF THE FACILITY AND NO HEAT OR PROPER SANITATION FACILITIES, IT IS NOT POSSIBLE TO HOUSE OR ALLOW ANYONE OR ANYTHING IN THE BUILDING. THE MOLD ON ITS OWN PRESENTS A HAZARD TO OUR VOLUNTEER'S HEALTH, NO PROPER HEAT IN THE BUILDING MAY CAUSE DAMAGE TO EQUIPMENT THAT IS VITAL FOR THE SEARCH AND RESCUE MISSIONS.
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No   ☒ Yes   (If yes, include written verification)
Explanation, if necessary:
A RISK ASSESSMENT WAS CONDUCTED ON JANUARY 2020 FINDINGS OF MOLD WERE REPORTED IN THIS ASSESSMENT. THE MOLD CAN BE CONTROLLED IF REPAIRS ARE MADE, BUT IF NOT TAKEN CARE OF, THE MOLD WILL CONTINUE TO GROW. PLEASE SEE ATTACHED ASSESSMENT DOCUMENTS.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No   □ Yes    (If yes, include written verification)
Explanation, if necessary:
N/A

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No   □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
SEE ATTACHED

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>MARIA M. ESARZA, ACTING SAR DM</th>
</tr>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
OLD SEARCH & RESCUE /
TEEN CENTER BUILDING
POINT HOPE ALASKA

MARSH & McLENNAN
AGENCY
Highlights of this Property Assessment

What We Did

Marsh & McLennan Agency’s (MMA) Loss Control Consultant performed a property risk assessment of the old Search & Rescue/Teen Center building. The task was to collect descriptive data regarding construction detail, fire protection, and general conditions of the subject property.

MMA was afforded a detailed review of the overall operation by the Assistant Supervisor of Point Hope’s NSB Department of Public Works. The assessment occurred during a time the building was vacant and without heat. The ambient temperature in the village during the assessment was -23 degrees.

What Was Found

The Old Search & Rescue building is located at the intersection of Tikigaq Ave & Kanug Street, at the head of 7-Mile Road, on the Western edge of the village of Point Hope. The property consists of single two story metal framed building setting on a concrete slap 14-inches with 28 inch footers. The build has an installed Two-Phase Thermosyphons system with five (5) thermos probes located on the North side of the building (as shown below).
Old Search & Rescue Building
Point Hope Alaska

Prepared by: Peter “Skip” Bush
Senior Loss Control Consultant
January 2020
Two-phase thermosyphons are passive refrigeration devices that transfer heat against gravity. Construction is typically a closed-ended tubular vessel (system installed) charged with a two-phase working fluid. The vapor phase of the working fluid fills the majority of the interior of the vessel, with the liquid phase filling the minority of the volume.

Thermosyphons function because of the two-phase working fluid. The working fluid is contained in a closed, sealed vessel (Thermopile or Thermoprobe) that is partially buried. Thermosyphons typically functioned passively in cold climates during the winter months, at which time the above-ground portion of the pile/probe is subjected to cold ambient air which cools and condenses the working fluid. The condensed fluid gravitates to below-ground level. Below ground, subjected to warmer temperatures, the working fluid warms, vaporizes, and rises upward to repeat the cycle. This continuous recycling is irreversible because the cycling ceases in the summer when the air temperature is above the soil temperature. This closed two-phase process should not be confused with the open two-phase process whereby liquid nitrogen is used in ground freezing applications. The latter process simply releases the nitrogen gas to the atmosphere having gained sufficient heat from the soil to vaporize the liquid nitrogen.

![Diagram of how thermosyphons work](image)

**Building General Construction**

The building has a steel structure with insulated walls with interior sheetrock finished covering. Buildings sits rebar concrete slab. When asked about when the building was constructed, Assistant to Village Supervisor was not sure, but though it was built in the early-to-mid 1990’s. There was no opportunity to inspect building insulation, other than the outer Northwest corner of the building, were the out metal skin had been cut from an earlier vehicle/loader impact.
Photos of the exterior building:

Inspection of the outer building's exterior found it in excellent shape, with a single exception of the Northwest corner of the building has been struck some point in the past by a vehicle or possible a loader removing snow. Examination of the impact point shows the outer sheeting and metal stud frame has been pushed in, that also damaged insulation, some tele-communication equipment boxes and lines, but there was working electrical lighting in the building. Photos of the existing damage is illustrated below:
Just Southwest of the building, there are two connex and one shed, and there is a 1000-gallon skid tank and a 300-gallon fuel oil tanks at Northeast corner of the building.

The main entrance is on the West-side of the building next to a 14-foot by 16-foot garage door that enter a 5X5 foot arctic entry. The shop area is a 28-foot-wide by 25-foot-deep shop area.

As shown in the above set of pictures, the shop area is in relatively good shape, with most of the "wall damage" near the floor, bottom of the sheet rock walls. There was little visual evidence of any mold, and I did not open the sump drains in the floor (as shown on next page). There was only one wall penetration for a pipe in North wall, that was partially closed by cloth plug (as shown on next page).
1st Floor Kitchen, Utility Rooms, Bathroom and Hallways

This area of the building has a number of concerns, from frozen water lines and sewage system, to the presence of black mold in the Kitchen, utility bathroom and hallway areas. These rooms will likely need to have all the sheetrock removed, to first replace damaged water lines, and second to remove the mold exposure (as shown below).

Other pictures of these rooms are below:
The stairway and second access door is located off the main hallway and exits about mid-point on the Southside of the building, as shown below.

**Second Floor Area**

The upstairs area consists of three rooms, one added at some point using plywood rather than sheet rock. The only access to the mezzanine that overlooks the shop area, and access one of the furnace rooms is from this level. On the next page are pictures of the mezzanine, offices and addition furnace rooms.
As shown in the above set of pictures, the upstairs area is in relatively good shape, with most of the "wall damage" due to peeling paint (as shown in the stairway pictures). There was no visual evidence of any mold in the stairwell or upper floor, but I did not move existing furniture or wall hangings. The only wall penetration was a missing light fixture on the exterior wall in the stairwell.

"This Health, Safety, and Environmental assessment is for the purposes and to assist North Slope Borough and your organization in your loss control and regulatory compliance activities. However, no responsibility is assumed for the discovery and/or elimination of hazards, which could possibly cause incidents or damage. Notices of violation(s) nor does Marsh & McLennan Agency certify to the adequacy of any functioning mechanical or containment systems or adequacy of any fire protection system(s) at any facility that was inspected. Compliance with any submitted recommendations in no way guarantees the fulfillment of your obligations as may be required by any local, state or federal laws"
July 29, 2020

Search & Rescue
North Slope Borough
P.O. Box 69
Barrow, Alaska 99723

Attn: April D. Brooks, Director

RE: Search & Rescue bid

Tikigaq Constructors LLC has prepared an estimate for renovation of the Search & Rescue building located at 126 Kanuq Street, Block 28.

Our proposal is based on information provided during the on-site meeting and walkthrough on June 8, 2020, conducted with Lewis Brower, SAR Coordinator, NSB Search & Rescue department, and Russell Lane, Village Supervisor, NSB Public Works department. The scope of work was given verbally, and our understanding is as follows:

**SCOPE OF WORK**

- Remove all damaged sheetrock at 1st floor rooms
- Demo existing Kitchen and replace with new cabinets, electric range, and refrigerator
- Remove damaged sheetrock 1st row (4' ft. only) from Bay area
- Patch and prep all other sheetrock within the building
- Prep, Prime and Paint all sheetrock surface
- Demo 3 Furnaces and replace with new Lennox brand furnaces of same BTU's
- Remove existing day tank, fuel lines and 1000 gal. fuel tank
- Install oil pump lifter and new fuel lines
- Install new 1000 gal. Double wall skid mounted fuel tank
- Replace bathroom vanity sink and mirror
- Clean shower stall and replace damaged shower valve
- Install new toilet
- Remove existing stair treads and replace with new.
install new Rubber Base cove
- Build an office space at 2nd floor
- All Doors replaced will be of exact same type and size
- Install new hardware on all doors, Best brand
- Replace all windows
- Remove oversized garage door and re-frame
- Install a new 10x12 garage door and an Automatic garage door opener
- Inspect Electrical wiring and replace all existing devices (lighting, fixtures and receptacles, inside and outside)
- Repair and replace damaged conduit for the communication line outside the building.
- Place treated ¾ plywood at corner of building where damaged occurred to secure communication panel is.
- Upon NTP, should take roughly 3 months to complete

Exclusion
- The electrical panel will be repair by others
- All work not specifically mentioned above

Bid Description          Bid Amount
Base Bid                  $302,012.00

Tikigaq Constructors, LLC would like to thank you for the opportunity to bid on this project and look forward in working with you.

Thank you,

Gordon Omnink
Project Manager

Tikigaq Constructors, LLC.
PROJECT NAME: NSB SEARCH AND RESCUE FUEL SHED UPGRADE
LOCATION: UTQIAGVIK, AK

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 14-New 3  TYPE: NEW
DATE SUBMITTED: 2/23/2021  AMOUNT REQUESTED: $396,000 All thruough LOI
REQUESTING ENTITY: NSB SEARCH AND RESCUE  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle
purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH AND RESCUE
2. PROJECT NAME: NSB SEARCH AND RESCUE FUEL SHED UPGRADE
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Barrow based NSB Search and Rescue team provides emergency search and rescue services across the North Slope Borough. These services include prolonged searches for missing persons as well as emergency evacuation for individuals requiring immediate medical attention. Climate conditions can be extreme in the Arctic at any time of the year, especially during the winter months. Missions are often conducted under these challenging weather conditions and over long distance. These missions required very specialized aircraft and support equipment. Keeping this valuable equipment warm and pristine working conditions is paramount to successful MEDEVACS as well as search and rescue missions.

This project is for an upgrade to the existing fuel shed.

4. PROJECT LOCATION:
The NSB Search and Rescue is located in Utqiaġvik, however service includes all communities across the North Slope.

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – November 2020
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency. The project cost summary in item 6 reflects upgrades and contingency for this project. Amount requested is $360,000 plus administrative cost of 10%.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Cost</th>
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<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>(actual cost, PAR estimate, vendor quote)</td>
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<tr>
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<tr>
<td>(Design, legal, other)</td>
<td></td>
<td></td>
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<tr>
<td>Construction / Acquisition</td>
<td>BUILDING UPGRADES</td>
<td>100% UPGRADE ESTIMATE</td>
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<tr>
<td>(anticipated costs)</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>ADMINISTRATIVE COST</td>
<td>10% OF ALL COST</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
<td>CONTINGENCY</td>
<td>20% OF UPGRADE ESTIMATE</td>
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<td>Other Costs (with description)</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td><strong>$396,000</strong></td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   □ No  □ Yes

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

   NSB SEARCH AND RESCUE IS REQUESTING 100% OF FUNDING BEFORE NOVEMBER. THE NEW FUEL TRUCK WILL BE IN UTQIAGVIK BY END OF SUMMER 2021. NSB SAR IS HOPING TO COMPLETE UPGRADES PRIOR TO THE FUEL TRUCK'S DELIVERY.

8. **PROJECT PHASING OR UFPUND:**
   Is this a phased project or a follow-up to an existing CIP project?  □ No  □ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   THE NSB SEARCH AND RESCUE FUEL SHED

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   N/A

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes  
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes  
   If No, explain why it should be considered out of sequence:  
   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.  
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  
      [Text about the upgrade or improvement]  
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
      N/A
   C. Indicate if this is a reoccurring upgrade or repair.  
      N/A
   D. Detail outside funds being leveraged, if applicable.  
      N/A

11. Please respond to the following questions:  
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)  
      Explanation, if necessary:
   
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)  
      Explanation, if necessary:
   
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)  
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

DUE TO THE CURRENT CONDITIONS OF THE FUEL SHED, NUMEROUS WORK ORDERS AND PARTS HAVE BEEN IN PROCESS. UPGRAADING THE FACILITY WILL HELP REDUCE THE MAINTENANCE COST THAT IS BEING CURRENTLY SPEND.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No  ☑ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

SEE ATTACHED

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
Fuel Building Upgrades 12/16/2020

Electrical
1. Add new circuits for shop equipment in NE corner.
2. Repair/remove/relocate existing outlet circuits.
3. LED lighting throughout.
4. Upgrade exterior lighting.
5. Verify operation bathroom heat and fan. Upgrade as necessary.

HVAC
2. Remove Modine unit heater and repair penetration(s).
3. Overhaul air handler.
4. Overhaul exhaust air system.
5. Upgrade ceiling fan from current residential unit. Install off center so not directly over tanker.
6. Provide flue for pressure washer.
7. Provide welding table & ventilation.
8.
9.

Plumbing
1. Add water source at pressure washer. Must be easily drainable after each use to prevent freezing.
2. Hard pipe high pressure with simple drain capability to SW corner for PW wand hookup.
3. Upgrade air compressor and associated plumbing including new port for media blaster cabinet.
4. Ensure oil/water separator system is functional.
5. Demo shop & bathroom sinks. Install garden sink in bathroom with eyewash.
6.

Access
1. R&R all 3 exterior man doors and frames.
2. R&R 4 interior doors and frames as necessary.
3. R&R both sectional doors.
4.

Structure
1. Add rub rail on exterior of N,S & W sides for snow removal operations.
2. Add guard rail to protect thermosyphons on E side for snow removal operations.
3. Add snow guards on roof.
4. Repair thermal envelope where needed.
5.

Finishes
1. GWB and paint repair.
2. Install FRP in wet areas.
3. Install curtain between lubricant drums and wash area.
4. Refinish floor.
5.
6.

Fire Suppression
1. Bring building up to code.
2.
3.
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
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2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH AND RESCUE
2. PROJECT NAME: SEARCH AND RESCUE NEW BUILDING VILLAGE PROJECT
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

THE NSB SEARCH AND RESCUE TEAM PROVIDES EMERGENCY SEARCH AND RESCUE SERVICES ACROSS THE NORTH SLOPE BOROUGH. THESE SERVICES INCLUDE PROLONGED SEARCHES FOR MISSING PERSONS. CLIMATE CONDITION CAN BE EXTREME IN THE ARCTIC AT ANY TIME OF THE YEAR, ESPECIALLY DURING THE WINTER MONTHS. MISSIONS ARE OFTEN CONDUCTED UNDER THESE CHALLENGING WEATHER CONDITIONS AND OVER LONG DISTANCES. THESE MISSIONS REQUIRED EQUIPMENT THAT CAN ALLOW THE RESCUERS TO TRAVEL IN DIFFERENT TYPES OF TERRAIN AND TIMES OF THE YEAR. KEEPING THIS VALUABLE EQUIPMENT WARM AND PRISTINE WORKING CONDITIONS IS PARAMOUNT TO SUCCESSFUL SEARCH AND RESCUE MISSIONS.

NSB SEARCH AND RESCUE IS IN CHARGE OF HELPING AND PROVIDING EQUIPMENT, GEAR AND ASSISTANTCE TO ALL THE 7 VILLAGES OF THE NORTH SLOPE AND ITS SEARCH AND RESCUE VOLUNTEERS. HAVING A BUILDING UP TO CODE AND STANDARDS IS VITAL FOR SAR PERSONNEL, VOLUNTEERS AND EQUIPMENT FROM THAT VILLAGE. IN THIS CASE THE VILLAGE OF ANAKTUVUK PASS AND KAKTOVIK. CURRENTLY THE EQUIPMENT IS STORE IN CONEXES EVEN OUTSIDE. THEY DEPEND ON THE FIRE DEPARTMENT FOR A PLACE TO MEET AND CONDUCT THEIR MISSIONS. IT IS IMPORTANT THAT SAR IS ABLE TO HAVE A BUILDING THAT WILL ALLOW FOR OPERATIONS TO BE CONDUCTED AND EQUIPMENT TO BE KEPT SAFE AND FOR THE STAFF TO BE ABLE TO ACCOMPLISHED THE MISSION.

THE PROJECT IS FOR THE NSB SEARCH AND RESCUE TO UPGRADE THE BUILDING IN ANAKTUVUK PASS AND KAKTOVIK.

4. PROJECT LOCATION:

ANAKTUVUK PASS AND KAKTOVIK, ALASKA

Department of Planning and Community Services, Community Planning Division
Revised Department Project Request Form – November 2020
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

THE PROJECT COST SUMMARY IN ITEM 6 REFLECTS ESTIMATE MATERIAL AND BUILD OF THE BUILDING:
$350,000 X 2 = $700,000.00. 20% CONTINGENCY: $140,000.00 AND 10% ADMINISTRATION COST:
$70,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<td>Construction / Acquisition (anticipated costs)</td>
<td>BUILDING</td>
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<td>$700,000.00</td>
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<tr>
<td>Administration (NSB project management)</td>
<td>10% ADMINISTRATION COST OF TOTAL AMOUNT</td>
<td>$70,000.00</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td>$140,000.00</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $910,000.00

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   N/A

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   N/A

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

   N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? √ No □ Yes
   If Yes, is it scheduled for replacement before 2026? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
       THE NEW SAR BUILDINGS WILL ALLOW THE SAR TEAMS TO STORE SAR EQUIPMENT AND PROTECT THEM FROM EXTREME CLIMATE CONDITIONS IN THE ARCTIC, ESPECIALLY DURING THE WINTER MONTHS. KEEPING THESE VALUABLE EQUIPMENT WARM AND PRISTINE WORKING CONDITIONS IS PARAMOUNT TO SUCCESSFUL SEARCH AND RESCUE MISSIONS. IT WILL ALSO ALLOW PERSONNEL TO HAVE A SAFE WORK PLACE.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
       THIS WILL ALLOW THE SAR COORDINATORS OF THESE VILLAGES TO BE HOUSED AND WILL ASSIST THE VOLUNTEER’S IN HAVING AN INFRASTRUCTURE FOR ALL EQUIPMENT AND TO BE ABLE TO SERVICE THEM AS NEEDED. THE NORTH SLOPE BOROUGH SEARCH AND RESCUE WILL BE RESPONSIBLE FOR THE UPKEEP, MAINTENANCE AND OPERATING COST OF THE BUILDING.

    C. Indicate if this is a reoccurring upgrade or repair.
       N/A

    D. Detail outside funds being leveraged, if applicable.
       N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? √ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? √ No □ Yes (If yes, include written verification)
       Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? √ No □ Yes (If yes, include written verification)
       Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  *(If yes, include written verification)*

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☐ Yes  *(If yes, include written verification)*

Explanation, if necessary:

N/A

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No  ☐ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible.

13. ATTACHMENTS: List any supplemental information submitted with this request.


14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.


15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>MARIA M. ESPARZA, ACTING SAR DM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td><img src="signature1" alt="Signature" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th>APRIL D. BROOKS, DIRECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td><img src="signature2" alt="Signature" /></td>
</tr>
</tbody>
</table>

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**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
1. REQUESTING ENTITY: PUBLIC WORKS RA&S

2. PROJECT NAME: VILLAGE LANDFILL FENCES

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

THE AREAWIDE VILLAGE LANDFILL FENCES ARE FREQUENTLY DAMAGED BY SNOW DRIFTS. THE TENSION WIRE AND CHAIN LINK FABRIC GETS STRETCHED AND PULLS DOWN THE POST. THE FABRIC CANNOT BE REUSED. POST AND TOP RAIL ALSO BENT AND DAMAGED DURING SPRING BREAKUP.

DEC REQUIRES LANDFILL TO BE SECURE WITH CHAIN LINK FENCES AND GATES.

4. PROJECT LOCATION:
AREAWIDE
PROJECT NAME: VILLAGE LANDFILL FENCES
LOCATION:

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

AMOUNT REQUEST $679,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
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<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
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<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
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<tr>
<td>Administration</td>
<td>(NSB project management)</td>
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<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
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<tr>
<td>Other Costs</td>
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<td><strong>$ 679,000.00</strong></td>
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</tbody>
</table>

TOTAL PROJECT COST (if different) $

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [x] No  □ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? [ ] No  □ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

ESTIMATES HAVE NOT BEEN PREPARED FOR ALL SITES, IT IS ANTICIPATED THAT IS SIMILAR LEVELS MAY BE NEEDED AT EACH SITE.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☐ No ☑ Yes
If Yes, is it scheduled for replacement before 2026? ☐ No ☑ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

THE VILLAGES LANDFILL FENCES ARE DAMAGED AND DO NOT SECURE THE LANDFILLS. DEC REQUIRES THAT LANDFILL BE SECURE. THIS MAY DEFICIENCY ON THE NEXT LANDFILL INSPECTION.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

THIS PROJECT DOES NOT EXPAND NSB FACILITIES, BUT IT WILL REDUCE THE MAINTENANCE COST OF THE LANDFILL FENCING.

C. Indicate if this is a reoccurring upgrade or repair.

THIS IS A REOCCURRING PROJECT UNTIL ALL SITES ARE UPGRADED.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☐ No ☑ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ Yes ☐ No (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ Yes ☐ No (If yes, include written verification)
Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☐ No ☐ Yes (If yes, include written verification)

Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification)

Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☐ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>JESUSITO R VINAS JR., RA&amp;S DIVISION MANAGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td>SCOTT K. DANNER, DIRECTOR, DEPT. OF PUBLIC WORKS</td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: BRW LANDFILL PH.V
LOCATION: Barrow

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works RA&S
2. PROJECT NAME: BRW LANDFILL PH.V
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Cell 2 at the Barrow Landfill is quickly approaching capacity. Cell 4 pad development was fully funded in 2018. The pad is scheduled for completion during the summer of 2019. Cell 4 must begin operations in 2019 to ensure a permitted disposal site is operating for Utqiagvik. Cell 5 Pad Development Cell 2 will need closure once as it reaches capacity in 2019. The landfill is permitted to delay commencement of closure activities 270 days after the cell last receives wastes. DEC will expect closure to commence by fall of 2020. The NSB has 1 year to complete the closure once started. A working pad at Cell 5 needs to be built to allow it to stabilize for use in 5 years. Without pre-construction, equipment has difficulty accessing site and can get stuck during routine operations.

4. PROJECT LOCATION:
Barrow
5. **DOLLAR $ AMOUNT OF THIS REQUEST**: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$5,000,000

6. **PROJECT COST**: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
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</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
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<tr>
<td>Administration (NSB project management)</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$5,000,000</td>
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</tbody>
</table>

**TOTAL PROJECT COST (if different)** $ 

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☑</td>
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</tbody>
</table>

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☑</td>
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</tbody>
</table>

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Cell 5 is the next cell designed for operation. Cell 5 will be completed and operations shift to Cell 5 late 2020. The development is required to maintain the solid waste disposal service in Utqiagvik, and to remain in compliance with the DEC Solid Waste permit.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   The project will expand the Barrow landfill, but not change services. Operational costs increase are expected to be minor, tied to monitoring activities at the closed cells.
   C. Indicate if this is a reoccurring upgrade or repair.
   Yes, as the landfill is full, a new cell will be opened, and full cells will be closed.
   D. Detail outside funds being leveraged, if applicable.
   None

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
   DEC has written numerous letters that the NSB need to stay in compliance at the landfill, and to stay ahead of developments. Failure to meet development requirements this year are likely to be met with an NOV.
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
   
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito R Vinas Jr., Division Manager, Public Works RA&amp;S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

**Planning Department Use Only**

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: AW LANDFILL EXPANSION
LOCATION: AIN

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: AW LANDFILL EXPANSION
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

"The landfill for Point Hope is reaching capacity for the existing developed boundary. The project requires early permitting and expansion to allow for uninterrupted disposal of municipal solid waste. The proposed expansion is to construct containment berms on top of the existing developed landfill footprint thus increasing the storage capacity of the landfill. DEC has also inquired about the North Slope Borough's plans for landfill expansion in Point Hope."

4. PROJECT LOCATION:
AIN
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$2,597,000.00

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
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<tr>
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<td>Administration (NSB project management)</td>
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<tr>
<td>Contingency (if not included in other line items)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

**TOTAL PROJECT COST** (if different)

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   - [ ] No  
   - [x] Yes

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.
   
   N/A

8. **PROJECT PHASING OR UPFUND:**  
   Is this a phased project or a follow-up to an existing CIP project?  
   - [ ] No  
   - [x] Yes

   If yes, indicate name and CIP project number: **AW LANDFILL EXPANSION - 65107**

   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   N/A

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   N/A

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
   
   N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
   If Yes, is it scheduled for replacement before 2026?  □ No  □ Yes
   If No, explain why it should be considered out of sequence:

   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation
      of the current deficiencies.

   ROADS FACILITY UPGRADES AND REPAIRS

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and
      maintenance costs.

   N/A

   C. Indicate if this is a reoccurring upgrade or repair.

   N/A

   D. Detail outside funds being leveraged, if applicable.

   N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for
      a plan of action, relating to a Borough service or facility?  □ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer
      or architect?  □ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent,
      verifiable and documented threat to public health exists?  □ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☐ Yes (if yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☐ No ☑ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.
N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito Vinas, RA&amp;S Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

| Department Director Name: Scott K. Danner, Director, Department of Public Works |
| Department Director Signature: [Signature] | Date: 3/12/21 |

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Area Wide VOIP/Phone Systems Upgrade
LOCATION: Area Wide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 17-New 1
DATE SUBMITTED: 02/12/2021
REQUESTING ENTITY: NSB A&F InfoComm

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM
Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB A&F InfoComm
2. PROJECT NAME: Area Wide VOIP/Phone Systems Upgrade
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Our phone system servers and are at end of life. Our software needs to be updated in order to continue to provide service to Borough across the slope. With our increased number of office phones across the slope, are phone system is at capacity and needs updated.

This project is for Installation of new servers, hardware, firmware, and software that provide phone administration for IP-based communications system integrating voice, data, and applications. It enables more effective, secure communications. Replacement of out of service phones and devices.

4. PROJECT LOCATION:
Area Wide
PROJECT NAME: Area Wide VOIP/Phone Systems Upgrade
LOCATION: Area Wide

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$1,080,000

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
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<tr>
<td>Recoverable Pre-Project Costs</td>
<td>PAR, other studies or reports, etc.</td>
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<tr>
<td>Professional Services</td>
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TOTAL $1,080,000.00

TOTAL PROJECT COST (if different) $1,080,000.00

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☑ Yes
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

No

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☑ No ☑ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.
   No. Since the majority of the funds will be need to replace hardware.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   Barrow will use the majority of the moneys for the hardware resided in the network room.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Area Wide VOIP/Phone Systems Upgrade
LOCATION: Area Wide

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
   If No, explain why it should be considered out of sequence:
   Many devices are at end of life and are difficult to replace and with no support available

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      Area wide upgrade of the phone system is necessary to ensure continued secure communications
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will not result in any increase in operating or maintenance costs. It does not expand any facilities or services
   C. Indicate if this is a reoccurring upgrade or repair.
      Reoccurring.
   D. Detail outside funds being leveraged, if applicable.
      None

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No □ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
□ No □ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:
Requestor Name and Title: Mike Phillips \ Assistant Network Administrator
Signature: Date: 2/12/21
Department Director Name: Sandra Gorum Date: 2/16/21
Department Director Signature: Date: 2/16/21

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** KAKTOVIK EMERGENCY RADIO TOWER AND SHELTER REPLACEMENT

**LOCATION:** Kaktovik

**NSB PLANNING DEPARTMENT USE ONLY**

TEMPORARY/CIP PROJECT NUMBER: 17-New 2

DATE SUBMITTED: 02/8/21

REQUESTING ENTITY: NSB\ANF\INFOCOMM

**TYPE:** New

AMOUNT REQUESTED: $1,380,000.00

AMOUNT RECOMMENDED: **$1,380,000.00**

---

**NORTH SLOPE BOROUGH**
**PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement.

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

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1. **REQUESTING ENTITY:** NSB\ANF\INFOCOMM

2. **PROJECT NAME:** KAKTOVIK EMERGENCY RADIO TOWER AND SHELTER REPLACEMENT

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

   Requesting to replace the Kaktovik Radio Tower and Shelter. In November 2020 the 140ft tower developed a crack and a temporary weld was implemented. During inspection the tower and shelter are showing damage from years of weather corrosion. We have been advised that a total replacement of the tower, lighting system, generator power, and a new shelter are essential. We have been advised that the tower is not on Borough property so we will also need to find a suitable location usually near the Police or Fire Department, so we can utilize their backup generator. Additionally, we will need to re-run the fiber optics to the shelter and install HVAC system and add secure fencing around the site. After the new tower and shelter are online we will need to hire radio contractor to complete load study for antennas and move installs radio and paging equipment to the new location.

4. **PROJECT LOCATION:**

   Kaktovik
PROJECT NAME: KAKTOVIK EMERGENCY RADIO TOWER AND SHELTER REPLACEMENT
LOCATION: Kaktovik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,380,000.00 Estimate

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>(PAR, other studies or reports,</td>
<td>reports, etc.)</td>
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<td>Professional Services</td>
<td>$300,000 estimate</td>
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<tr>
<td>(Design, legal, other)</td>
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<tr>
<td>Construction / Acquisition</td>
<td>$850,000 estimate 10</td>
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<td>(anticipated costs)</td>
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<td>(NSB project management)</td>
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<td>Contingency</td>
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<td>(with description)</td>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$1,380,000.00</td>
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<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td>$1,380,000.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? No [x] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed. Yes, whole amount.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? No [x] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: KAKTOVIK EMERGENCY RADIO TOWER AND SHELTER REPLACEMENT
LOCATION: Kaktovik

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough's Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Tower and shelter are at end of life, weather and corrosion play a major factor. With these deficiencies, public and employee safety and health hazards are a concern.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   No, it will not increase facilities or services.

C. Indicate if this is a reoccurring upgrade or repair.
   Not reoccurring

D. Detail outside funds being leveraged, if applicable.
   No funds leveraged

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☐ No ☒ Yes (If yes, include written verification)
   Explanation, if necessary:
   Document included

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: KAKTOVIK EMERGENCY RADIO TOWER AND SHELTER REPLACEMENT

LOCATION: Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? [ ] No [ ] Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

[ ] No [ ] Yes (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

[ ] No [ ] Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

Pictures and tower report attached.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Mike Phillips / Assistant Network Administrator

Signature: [Signature] Date: 2/8/21

Department Director Name: Sandra Stuermer / Director of Administration and Finance

Department Director Signature: [Signature] Date: 2/9/21

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
October 21, 2020

North Slope Borough

Mr. Aden Bynum:

Thank you for considering North Slope Telecom, Inc. (NSTI) for your project! We are pleased to submit this Time and Materials Not to Exceed Estimate covering Labor and expenses for assisting with the temporary repairs concerning the 140' Guyed tower at Kaktovik. The Labor and Project Expenses not to exceed $25,000.00.

SCOPE OF WORK:

Research a temporary repair for the Kaktovik NSB 140' tower. This research will determine the feasibility of a temporary repair, cost, and availability. We will also formulate an estimate for the installation of any such of a repair.

SCHEDULE:

Once acknowledged with a Notice to Proceed we will begin immediately.

CLIENT RESPONSIBILITIES:

Provide access to the sites as required and provide any tower structural drawings and associated information that maybe requested by structural engineers.

Thank you

Steve Washam

Steve Washam, PMP
Senior Project/Const Manager
Cell: 907.350.7057
Office: 907.751.8201
PROJECT NAME: Polar Bear Patrol Fleet
LOCATION: Kaktovik, Utqiagvik, and Point Hope

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054-1 TYPE: Up Fund
DATE SUBMITTED: 1/26/2021 AMOUNT REQUESTED: $167,000
REQUESTING ENTITY: NSB Department of Wildlife Management AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM
Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Department of Wildlife Management
2. PROJECT NAME: Polar Bear Patrol Fleet
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Request: Three 2020 Ford F-150's: One for Kaktovik, one for Utqiagvik, and one for Point Hope

Replaces: 2010 Ford F150, VIN#1FTMF1EWXAKE6088, Mileage: 132,000, Very Poor, Kaktovik, Written-off
2012 Ford F250, VIN#1FT7W2B6XCEB84713, Vehicle#13891, Mileage: 46,762, Very Poor, Utqiagvik, Written-off
2012 Ford F250, VIN#1FT7W2B68CEB84721, Very Poor, Point Hope, Written-off

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Kaktovik: Replace vehicle
   Utqiagvik: Replace vehicle
   Point Hope: Replace vehicle

Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – November 2020
PROJECT NAME: Polar Bear Patrol Fleet
LOCATION: Kaktovik, Utqiagvik, and Point Hope

5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.
   Base cost at $43,000 each *3 = $129,000
   Amber strobe lights and LED spotlights cost $2500 each *3 = $7500
   Shipping to Utqiagvik, Point Hope, and Kaktovik cost $10,000 each *3 = $30,000

   Total estimated cost = $166,500

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?
   ☒ No  ☐ Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☒ No  ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  ☒ No  ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  ☐ No  ☒ Yes
   If Yes, is it scheduled for replacement before 2026?  ☒ No  ☐ Yes
   If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   Vehicles should be considered for replacement to ensure safe and effective polar bear patrols. There has been increasing polar bear calls in the last 10 years requiring heavier use of the vehicles. The vehicles are increasingly out of commission for costly repairs and this puts the safety of the communities at risk.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   N/A

C. Indicate if this is a reoccurring upgrade or repair.
   N/A

D. Detail outside funds being leveraged, if applicable.
   N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ❌ No ✔ Yes (If yes, include written verification)
   Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ❌ No ✔ Yes (If yes, include written verification)
   Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ❌ No ✔ Yes (If yes, include written verification)
   Explanation, if necessary:
   Without reliable and working polar bear patrol vehicles with the appropriate equipment on the vehicles the threat of dangerous polar bear interactions to life, health, and safety exists.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ❌ No ✔ Yes (If yes, include written verification)
   Explanation, if necessary:
PROJECT NAME: Polar Bear Patrol Fleet
LOCATION: Kaktovik, Utqiagvik, and Point Hope

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No  ☒ Yes  (If yes, include written verification)
Explanation, if necessary:
This will generate significant cost savings related to replacement parts and maintenance time for mechanics. This year alone, the Kaktovik vehicle has been in the shop three or more times.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

The vehicles requested to be replaced are respectively 9 and 11 years old.
Kaktovik PB vehicle has had numerous problems on a regular and increasing basis. This vehicle needs a reliable vehicle to ensure the safety of the community.
Utqiagvik vehicle is 9 years old and deteriorating.
Point Hope vehicle has had an increase in maintenance issues and has left us to request for loaner vehicles which are hard to come by in Point Hope.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title</th>
<th>Nicole Kanayurak, Deputy Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td>![Signature Image]</td>
</tr>
<tr>
<td>Date</td>
<td>01-26-2021</td>
</tr>
<tr>
<td>Department Director Name</td>
<td>Taquilk Hepa, Director</td>
</tr>
<tr>
<td>Department Director Signature</td>
<td>![Signature Image]</td>
</tr>
<tr>
<td>Date</td>
<td>1-26-2021</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Field Research Vehicles
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054-2
DATE SUBMITTED: 1/26/2021
REQUESTING ENTITY: NSB Department of Wildlife Management

TYPE: Up Fund
AMOUNT REQUESTED: $159,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Department of Wildlife Management
2. PROJECT NAME: Field Research Vehicles
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Request: Three 2020 Ford F150's in Utqiagvik

Replaces: 2001 Ford F350, VIN# 1FTSW31L51EB98595, Very Poor, Recent Fire Damage, Write-off
2004 Ford F250, VIN# 1FTNW21L34ED47811, Very Poor/old, Write-off
2004 Ford F250, VIN# 1FTNW21L54ED47812, Written Off (Disposed)

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik: Replace vehicles
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

| Base cost at $43,000 each *3 = $129,000 |
| Shipping to Utqiagvik cost $10,000 each *3 = $30,000 |

Total estimated cost = $159,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☑ No ☐ Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule? ☑ No ☐ Yes

If Yes, is it scheduled for replacement before 2026? ☑ No ☐ Yes

If No, explain why it should be considered out of sequence:

Field research vehicles are very old, 2 are 17 yrs old, and 1 truck is 20 yrs old. One of the vehicles is currently disposed and has not been replaced, and another truck recently caught on fire.
10. PROJECT JUSTIFICATION:

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

New trucks will help facilitate our many field projects, and allow staff to conduct their research effectively. In recent years, staff often compete for vehicle use especially at the height of the summer field season. The DWM has lost 2 vehicles that cannot be repaired in the last 2 years, and those vehicles have not been replaced.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☑ No  ☑ Yes (If yes, include written verification)

Explanation, if necessary:

This request will generate significant cost savings of costs for replacement parts and maintenance time for the mechanics.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

The vehicles requested to be replaced are 17 and 20 years old respectively. This request will ensure staff have field vehicles available rather than having to rely on personal vehicles to get the job done.

14. REQUESTOR INFORMATION:

Requestor Name and Title: Nicole Kanayurak, Deputy Director

Signature: [Signature]  Date: 01-26-2021

Department Director Name: Taquik Hepa, Director

Department Director Signature: [Signature]  Date: 01-26-2021

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Administration Vehicle Replacement
LOCATION: Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054-3
DATE SUBMITTED: 1/26/2021
REQUESTING ENTITY: NSB Department of Wildlife Management

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB Department of Wildlife Management
2. PROJECT NAME: Administration Vehicle Replacement
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Request: 2021 Ford Escape in Utqiagvik

Replaces: 2007 Ford Escape, VIN#1FMCU93157KB59150, Write-off (Disposed 2019)

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik: Replace vehicle
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

| Base cost at $28,000 = $28,000 |
| Shipping to Utqiagvik cost $10,000 = $10,000 |

Total estimated cost = $38,000

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☒ No  ☑ Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☑ No  ☒ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  ☒ No  ☑ Yes
   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  ☒ No  ☑ Yes
   If Yes, is it scheduled for replacement before 2026?  ☒ No  ☑ Yes
   If No, explain why it should be considered out of sequence:

   The Ford Escape was disposed due to an accident and has yet to be replaced.
PROJECT NAME: Administration Vehicle Replacement
LOCATION: Utqiagvik

10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   With the Escape being disposed, the Department of Wildlife Management is currently short of vehicles available for the administration. This has tempted our staff to utilize their personal vehicles to tend to timely administrative processes.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   [N/A]

   C. Indicate if this is a reoccurring upgrade or repair.

   [N/A]

   D. Detail outside funds being leveraged, if applicable.

   [N/A]

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:
PROJECT NAME: Administration Vehicle Replacement
LOCATION: Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☑ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Nicole Kanayurak, Deputy Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature: [Signature] Date: 01-26-2021</td>
</tr>
<tr>
<td>Department Director Name: Taqulik Hepa, Director</td>
</tr>
<tr>
<td>Department Director Signature: [Signature] Date: 1-26-2021</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-054 4  TYPE, UpFund
DATE SUBMITTED: 2/3/2021  AMOUNT REQUESTED: $256,000
REQUESTING ENTITY: NSB SEARCH AND RESCUE  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH AND RESCUE

2. PROJECT NAME: NSB SEARCH AND RESCUE VEHICLE PURCHASE

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

THE NSB SEARCH AND RESCUE DEPARTMENT IS IN NEED OF PURCHASING FOUR NEW FORD EXPEDITIONS FOR ON-CALL PERSONNEL. THESE VEHICLES WILL BE SET WITH AUTO START AND WINTER GEAR.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

THE NSB SEARCH AND RESCUE DEPARTMENT IS LOCATED IN UTOIAGVIK, ALASKA
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

THE NSB SEARCH AND RESCUE IS LOCATED IN UTQIAGVIK, ALASKA

(3) FORD EXPEDITIONS 4 WHEEL DRIVE FOR ON-CALL PERSONNEL @ $46,175 x (4) = $184,700
ESTIMATED FREIGHT @ $20,376.00
ADMINISTRATIVE COST @ 10% = $20,507.60
TOTAL COST $225,583.60

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

[ ] No  [X] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

N/A

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [X] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [X] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule? [X] No  [ ] Yes

If Yes, is it scheduled for replacement before 2026? [X] No  [ ] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

**THESE VEHICLES WILL HELP SUPPORT THE RELIABILITY FOR SEARCH AND RESCUE STAFF WHEN RESPONDING TO EMERGENCY SITUATIONS.**

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

N/A
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   □ No  ☒ Yes (If yes, include written verification)

Explanation, if necessary:
CURRENTLY NSB SEARCH AND RESCUE IS SPENDING MORE FUNDING IN VEHICLE PARTS, DUE TO THE AGE OF
THE CURRENT SEARCH AND RESCUE FLEET.

12. ATTACHMENTS: List any supplemental information submitted with this request.
   VEHICLE WORK ORDERS, VEHICLE QUOTE, FREIGHT QUOTE

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

   Requestor Name and Title: LUCINDA ELLIOTT, SAR DIVISION MANAGER

   Signature: [Signature] Date: 2/3/2021

   Department Director Name: APRIL D. BROOKS, DIRECTOR OF SEARCH AND RESCUE

   Department Director Signature: [Signature] Date: 2/3/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Police Department

2. PROJECT NAME: Utqiagvik Vehicle Replacement 2021

3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

The following vehicles will be surplus when the new vehicles arrive.

1.--2002 Ford Econoline, equipment # 841, VIN # 1FBSS3L82HB35040, mileage 44068, and this vehicle is in poor but usable condition.
2.--2005 Ford Escape, equipment # 886, VIN # 1FMYU92209KB77159, mileage 46460, and this vehicle is in fair usable condition.
3.--2007 Ford Expedition, equipment # 1163, Vin # 1FMFJU6597L62182, mileage 92100, and this vehicle is in poor condition.
4.--2011 Ford Expedition, equipment # 4120, Vin # 1FMJU9754BEF10109, mileage 85085, and this vehicle is in fair usable condition.
5.--2014 Ford Explorer, equipment # 19356, Vin # 1FMSK8880EGC38202, mileage 73085, and this vehicle is in usable condition.
6.--2014 Ford Explorer, equipment # 19357, Vin # 1FMSK8887EGC38200, mileage 57040, and this vehicle is in usable condition.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik
5. **PROJECT COST**: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Police Department is requesting 6 new F250 trucks outlined as Patrol Vehicles.</td>
<td></td>
</tr>
<tr>
<td>Cost per vehicle</td>
<td></td>
</tr>
<tr>
<td>2021 F250 as per the state contract and quote from Kendall Ford is $43,566.00</td>
<td></td>
</tr>
<tr>
<td>Cost of Police added equipment is $13,029.00</td>
<td></td>
</tr>
<tr>
<td>Shipping cost from Anchorage to Prudhoe Bay is $3400.00 per vehicle.</td>
<td></td>
</tr>
<tr>
<td>Shipping cost from Pr-Bay to Barrow (via AML), if needed is $4487.00.</td>
<td></td>
</tr>
<tr>
<td>Administrative and Contingency costs is $12,896.00</td>
<td></td>
</tr>
<tr>
<td>Total cost per vehicles will be approximately $77,378.</td>
<td></td>
</tr>
<tr>
<td>Total cost for 6 new F250 delivered to Utqiaġvik will be $464,368.00.</td>
<td></td>
</tr>
<tr>
<td>This price could be reduced by up to $26,922.00 if the vehicles are brought over on the CWAY trail</td>
<td></td>
</tr>
</tbody>
</table>

6. **TRAINING**: Will there be training costs associated with the purchase of new equipment or vehicles?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

   If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

   If the vehicles will be purchased in time to make the barge sailing in August.

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   cannot be phased

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

   Is this project included in the Borough’s Repair & Replacement Schedule?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

   If Yes, is it scheduled for replacement before 2026?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Police response vehicles need to be maintained at a high state of dependability and readiness. As we all know, vehicles wear with age and dependability is reduced.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This should not increase operating and maintenance costs

C. Indicate if this is a reoccurring upgrade or repair.

Replacement vehicles is a reoccurring process

D. Detail outside funds being leveraged, if applicable.

NA

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ❌ No    ✔ Yes  *(If yes, include written verification)*

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ❌ No    ✔ Yes  *(If yes, include written verification)*

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No    ✔ Yes  *(If yes, include written verification)*

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No    ✔ Yes  *(If yes, include written verification)*

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☑ Yes (if yes, include written verification)

Explanation, if necessary:

new vehicles will be covered under warranty and operating and maintenance costs will be reduced.

12. ATTACHMENTS: List any supplemental information submitted with this request.

Attached will be quotes from Kendall Ford, Alaska Safety and Alaska Marine Lines

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title: Darrel Love</th>
<th>Department Director Name: Jeffrey R. Brown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Department Director Signature:</td>
</tr>
<tr>
<td>[Signature]</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date: 2-16-21</td>
<td>Date: 1-6-21</td>
</tr>
</tbody>
</table>

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH POLICE
PRICE $43,566

INCLUDES 2 EXTRA KEYS AND FREIGHT TO BARROW, USING SUMMER BARGE.

QUOTE IS GOOD UNTIL MARCH 1ST 2021

ALASKA SAFETY WILL INSTALL POLICE EQUIPMENT AND ARCTIC GEAR.

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)
Price Level: 115

Client Proposal
Prepared by:
Ray Marcum
Office: 907-793-8213
Date: 02/11/2021
## As Configured Vehicle

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Base Vehicle Price (W2B)</strong></td>
</tr>
</tbody>
</table>

### Base Vehicle

- **W2B**

### Packages

- **600A**
  - Order Code 600A
  - Includes:
    - Engine: 6.2L 2-Valve SOHC EFi NA V8 Flex-Fuel
    - Transmission: TorqShift-G 6-Spd Auto w/SelectShift
    - GVWR: 10,000 lb Payload Package
    - Wheels: 17" Argent Painted Steel
    - Includes painted hub covers/center ornaments.
    - Radio: AM/FM Stereo w/MP3 Player
    - Includes 4 speakers.
    - SYNC Communications & Entertainment System includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port.

### Powertrain

- **996**
  - Engine: 6.2L 2-Valve SOHC EFi NA V8 Flex-Fuel
- **44S**
  - Transmission: TorqShift-G 6-Spd Auto w/SelectShift
- **X3E**
  - Electronic-Locking w/3.73 Axle Ratio
- **STDGV**
  - GVWR: 10,000 lb Payload Package

### Wheels & Tires

- **TBM**
  - Tires: LT245/75Rx17E BSW A/T
  - Spare may not be the same as road tire.
- **64A**
  - Wheels: 17" Argent Painted Steel
  - Includes painted hub covers/center ornaments.

### Seats & Seat Trim

- **1**
  - Cloth 40/20/40 Split Bench Seat
  - includes center armrest, cupholder and driver's side manual lumbar.

### Other Options

- **160WB**
  - 160" Wheelbase
- **SO4**
  - Power Equipment Group

---

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See a salesperson for the most current information.
### As Configured Vehicle (cont'd)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| **473** | Snow Plow Prep Package  
Requires Extra Extra Heavy-Duty Alternator (67E) when ordered with Upfitter Switches (66S) and 110V/400W Outlet (43C).  
Includes computer selected springs for snowplow application. Note 1: Restrictions apply, see Supplemental Reference or Body Builders Layout Book for details. Note 2: May result in deterioration of ride quality when vehicle is not equipped with snowplow. |
| **41H** | Engine Block Heater |
| **52B** | Trailer Brake Controller  
Verified to be compatible with select electric over hydraulic brakes. Includes smart trailer tow connector. |
| **153** | Front License Plate Bracket  
Standard in states requiring 2 license plates and optional to all others. |
| **PAINT** | Monotone Paint Application |
| **76S** | Remote Start System |
| **66S** | Upfitter Switches (5)  
Requires Extra Extra Heavy-Duty Alternator (67E) when ordered with 110V/400W Outlet (43C) and Snow Plow Pkg. (473) or Snow Plow/Camper Pkg. (47B).  
Located in overhead console. |
| **587** | Radio: AM/FM Stereo w/MP3 Player  
Includes 4 speakers.  
Includes:  
- SYNC Communications & Entertainment System  
Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port. |
| **Fleet Options** | Steering Wheel-Mounted Cruise Control (LPO) |

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package, and option pricing may vary from this estimate because of special local pricing, availability, or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
As Configured Vehicle (cont'd)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>942</td>
<td>Requires valid FIN code. Daytime Running Lamps (DRL) (LPO)</td>
</tr>
<tr>
<td></td>
<td>Requires valid FIN code. The non-controllable 942 Daytime Running Lamps (DRL) replace the standard Daytime Running Lamps (DRL) on/off cluster controllable.</td>
</tr>
</tbody>
</table>

**Emissions**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>425</td>
<td>50-State Emissions System</td>
</tr>
</tbody>
</table>

**Interior Color**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1S_02</td>
<td>Medium Earth Gray</td>
</tr>
</tbody>
</table>

**Exterior Color**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z1_01</td>
<td>Oxford White</td>
</tr>
<tr>
<td>Quote Date</td>
<td>Comments</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
</tr>
<tr>
<td>02/11/2021</td>
<td>NSB 2020 Ford F250 Patrol Trucks.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item#</th>
<th>Description</th>
<th>Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHI47UXF</td>
<td>Inner Edge, DUO, Ford Trucks, 15-20 Ford F-150, 2015-2020, Ford F-250</td>
<td>$1,700</td>
<td>$1,700</td>
</tr>
<tr>
<td>UN325PL-189</td>
<td>Unity Post Mount Spotlight for 15+ Fords BLACK HOUSING</td>
<td>$350</td>
<td>$350</td>
</tr>
<tr>
<td>FDMPS600UBR</td>
<td>*MicroPulse Ultra Lighthead Blue/Red One on each fender, all 4 corners mounted on Sides of Fenders/Quarter Panels, and 2 mounted on Tailgate.</td>
<td>$135</td>
<td>$810</td>
</tr>
<tr>
<td>SOEMPS2STSSRBW</td>
<td>*Mpower 4&quot; LED Light Tri Color STUD mpower 4&quot; Fascia Light w/ Stud Mount, 18&quot; hard wire w/ syno option, SAE Class 1 &amp; CA Title 13, 9-32 Vdc, Black Housing, 18 LED, Tri Color - Red/Blue/White Installed onto Grill facing forward.</td>
<td>$175</td>
<td>$350</td>
</tr>
<tr>
<td>TYCC-UV-11-12</td>
<td>*Sloped Console, 11&quot; slope, 10&quot; flat SUV</td>
<td>$450</td>
<td>$450</td>
</tr>
<tr>
<td>TYAC-F150-15-MNT</td>
<td>15+ F-250 crew cab w/ bucket seats</td>
<td>$175</td>
<td>$175</td>
</tr>
<tr>
<td>PEC3900U</td>
<td>*Siren Speaker, 100watt compact, w/mount SPR #:001-00-761447</td>
<td>$240</td>
<td>$240</td>
</tr>
<tr>
<td>STGK10301S1USSCAXL</td>
<td>*Dual T-Rail Mount w/ Locks, 1 small, 1 XL</td>
<td>$410</td>
<td>$410</td>
</tr>
<tr>
<td>INCOLDWEATHERAIDS</td>
<td>Drivetrain Heating, Tanny, Oil Pan Consists of: Oil Pan Heater, Transmission Pan Heater, Trickle Charger, 4 outlet box for all heaters including the Factory Freeze plug heater to plug into. SOA Vehicles need anti-freeze protection to -50</td>
<td>$325</td>
<td>$325</td>
</tr>
<tr>
<td>IN260-0900</td>
<td>Interior 110VAC Heater</td>
<td>$190</td>
<td>$190</td>
</tr>
</tbody>
</table>
Alaska Safety, Inc.
Alaska Safety, Inc.
4725 Gambell Street
Anchorage, AK 99503
Phone: (907) 561-5661 Fax: (907) 561-6484

Bill To:

North Slope Borough Police Dept.*
Accounts Payable
PO Box 69
Barrow, AK 99723

Quotation# 044218

<table>
<thead>
<tr>
<th>Account ID</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001829</td>
<td>Darrol Love</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer PO</th>
<th>Telephone</th>
<th>Facsimile</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>(907) 852-0367</td>
<td>(907) 852-0369</td>
</tr>
</tbody>
</table>

Ship To:

North Slope Borough Police Dept.*
PO Box 470
Barrow, AK 99723

<table>
<thead>
<tr>
<th>Special Order</th>
<th>Drop Ship</th>
</tr>
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<tbody>
<tr>
<td>☐</td>
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<table>
<thead>
<tr>
<th>Quote Date</th>
<th>Comments</th>
<th>NSB 2020 Ford F250 Patrol Trucks</th>
<th>Special Instructions</th>
<th>Terms</th>
<th>NET 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/11/2021</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Ship Via: WC</td>
<td>FOB: Anchorage</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Quantity</td>
<td>Item#</td>
<td>Description</td>
<td>Price</td>
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<tr>
<td>1</td>
<td>EACH</td>
<td>INDECAUXS</td>
<td></td>
<td>Decal Set for Emergency Vehicles. Custom Ordered per project. Price varies.</td>
<td>$1,200.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>R220000</td>
<td></td>
<td>&quot;Radiance PLUS Lightbar 20&quot; White/Clear Includes Wire Harness White Backlight.</td>
<td>$420.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>INPOWER</td>
<td></td>
<td>Power Distribution System Consists of the following: Cole Hersee 24117 Solenoid, Blue Seas Fuse Box 5029, Bussman Circuit Breaker # Ch185-50</td>
<td>$190.00</td>
</tr>
<tr>
<td>1</td>
<td>HOUR</td>
<td>LABOR</td>
<td></td>
<td>Install Shop Labor Includes installing customer supplied radio.</td>
<td>$2,360.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>OP82349</td>
<td></td>
<td>Grip Strut Boards, 2019 F250 Crew Cab These boards are for Ford Crew Cabs. Ford calls these cabs their SuperCrew.</td>
<td>$700.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>INBAK-226330</td>
<td></td>
<td>Bak FTip G2 Tonneau, 2020 F250, 6.9 bed Powder coated aluminum top and underside panels offer a nice finish. Each panel is 1/2&quot; thick, Each panel automatically latches to the covers mountings rails as the cover closes. Latches deactivate with a simple pull of the cable.</td>
<td>$999.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>PE3492L6S</td>
<td></td>
<td>'Siren Light Controller, Programmable The XCEL Siren has a 3-level slide switch that can be programmed as independent, semi-progressive, or progressive. The unique programming features auxiliary buttons to level outputs and allow the officer to keep their eyes on the road. Features include adjustable backlighting buttons, visual notification of switching and programming functions, 11 built-in automotive style fuses.</td>
<td>$425.00</td>
</tr>
<tr>
<td>1</td>
<td>EACH</td>
<td>STDK0598FDT17F250</td>
<td></td>
<td>Aluminum Door Panels, 17+ F250 Trucks</td>
<td>$200.00</td>
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<tr>
<td>1</td>
<td>EACH</td>
<td>STWK0514FDT17F250H</td>
<td></td>
<td>Window Barrier, Steel, 2017+ Ford F250 Window Barrier VS Steel Horizontal</td>
<td>$295.00</td>
</tr>
</tbody>
</table>
Alaska Safety, Inc.
4725 Gambell Street
Anchorage, AK 99503
Phone: (907) 561-5661 Fax: (907) 561-8484

Bill To:

North Slope Borough Police Dept.*
Accounts Payable
PO Box 69
Barrow, AK 99723

Quotation# 044218

<table>
<thead>
<tr>
<th>Account ID</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001829</td>
<td>Darrel Love</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer PO</th>
<th>Telephone</th>
<th>Facsimile</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>(907) 852-0367</td>
<td>(907) 852-0369</td>
</tr>
</tbody>
</table>

Ship To:

North Slope Borough Police Dept.*
PO Box 470
Barrow, AK 99723

<table>
<thead>
<tr>
<th>Quote Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/11/2021</td>
<td>NSB 2020 Ford F250 Patrol Trucks,</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ship Via</th>
<th>Date Required</th>
<th>FCH</th>
<th>Anchorage</th>
<th>Prepared By</th>
<th>Item#</th>
<th>Description</th>
<th>Price</th>
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</tr>
</thead>
<tbody>
<tr>
<td>WC</td>
<td>02/11/2021</td>
<td></td>
<td></td>
<td>CV</td>
<td>STPK0439FDT17F250</td>
<td>Recessed Partition, 2017 F250, Full Width</td>
<td>$890.00</td>
<td>$890.00</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>TT55549H</td>
<td>Rear Seat Cover, 20+ F250, Black Vinyl</td>
<td>$350.00</td>
<td>$350.00</td>
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</tbody>
</table>

Terms: NET 30

Comments
This quotation is good for 30 days from the date listed above. Thank you for the opportunity!

Approved By: ____________________________ Date: ____________________________

Sub Total $13,029.00
EXMT 0% Tax $0.00
Freight $0.00

Grand Total $13,029.00
Deposit $0.00
Balance $13,029.00
**Service via Over-The-Road (Standard)**

<table>
<thead>
<tr>
<th>QTY</th>
<th>UNITS</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS (LxWxH)</th>
<th>ACTUAL WEIGHT</th>
<th>RATE / UNIT</th>
<th>RATE / UNIT</th>
<th>CHARGE</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>PC</td>
<td>F250 TRUCKS</td>
<td>6 @ 250IN x 75IN x 80IN</td>
<td>30,000 LB</td>
<td>6.00 PC</td>
<td>2666.20</td>
<td>17,197.20</td>
</tr>
</tbody>
</table>

**TOTAL:** $17,197.20 USD

**SHIPMENT CONDITIONS:**

- **SHIPPER LIVE LOAD, CONSIGNEE LIVE UNLOAD.**
- **RATE IS PER TRUCK, BASED ON TWO TRUCKS PER TRAILER, TOTAL OF 3 TRAILERS.**
- **60 MINUTES FREE TO LOAD/UNLOAD, $156.60 PER HOUR THEREAFTER, BILLED IN 15 MINUTE INCREMENTS.**
- **SHIPPER MUST BE ABLE TO LOAD ONTO EQUIPMENT; CONSIGNEE MUST BE ABLE TO UNLOAD FROM EQUIPMENT**
- **RATE ESTIMATE IS BASED ON WEIGHT AND DIMENSIONS PROVIDED, SUBJECT TO CHANGE IF DIFFERENT.**
- **RATES ARE SUBJECT TO AVAILABILITY.**

**GENERAL TERMS AND CONDITIONS:**

Please note: The above rate is based on information supplied by the Caller. Charges may differ from those quoted due to changes in dimensions, weight, description of goods or requested services. This quote does not include applicable surcharges. Rate is subject to fuel surcharge in place at time of movement.

Thank you for contacting Carlile Transportation. Please contact Customer Service to schedule a pickup.

In consideration of the offered rates, Carlile Transportation Systems' liability for loss or damage to shipments, where no value is declared will not exceed the lesser of:

- a) A connecting carrier's limits of liability.
- b) $20.00 per pound, up to a maximum of $200,000.00 per shipment on new goods.
- c) $0.10 Per pound for any item that is used, or not new, up to a maximum of $5,000.00 per shipment.
- d) The actual value of the lost or damaged item, up to a maximum of $200,000.00 per shipment.

All other limits and exclusions from the terms and conditions in Carlile's Uniform Bill of Lading apply, as well as the terms and conditions at Carlile's website at www.carlile.biz.

Our Limits of liability for heavy haul, overweight and over dimensional shipments can be found in section 4. On the back of our bill of lading available for viewing at www.carlile.biz.

Different liability limits are available if a higher value is declared or in exchange for higher freight rates.

Carlile now offers online bill payment options. Please visit <https://unitedtransportations.com/OBP/carlile_transportation> to register and pay online. We accept ACH, debit cards, and credit cards. When payment is made by credit card, customer agrees to pay Carlile a 1% convenience fee. We accept Visa, Mastercard, and American Express. It is important to note that the final invoice amount may vary from this quote as referenced above and prepayment does not constitute payment in full.

All shipments, unless otherwise specified, are subject to all terms, conditions, and fees outlined on the bill of lading and CEPH tariff 100.
<table>
<thead>
<tr>
<th>Prepared for:</th>
<th>NORTH SLOPE BOROUGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>DARREL LOVE</td>
</tr>
<tr>
<td>Phone:</td>
<td>907-820-0311</td>
</tr>
<tr>
<td>Fax:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quote Number:</th>
<th>QW456887</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quote Date:</td>
<td>2/16/2021</td>
</tr>
<tr>
<td>Quote Expires:</td>
<td>2/16/2022</td>
</tr>
</tbody>
</table>

Please reference QW456887 when requesting pickup and on your shipping documents.

Please refer to our web page at [http://www.carlile.biz](http://www.carlile.biz) for our Uniform Bill of Lading, Carlile 100 Rules Tariff, Terms and Conditions, Current Fuel Surcharge and other special service charges, which are applicable to all freight billed unless changed by specific mention herein.
SHIPPING INSTRUCTIONS:

STEP 1: REVIEW IT!

Review your quote. If any information is incorrect, or you have an update, please contact us with your quote number at rates@carlile.biz or 253-414-5555 and let us know what changes need to be made.

STEP 2: SCHEDULE IT!

Email customerservice@carlile.biz, call 888-399-3290 or schedule online at www.carlile.biz. Be sure to reference your quote number!

STEP 3: TRACK IT!

You can track your shipment online at www.carlile.biz. If you have an account use your Carlile Client Service Portal login for more detailed shipment information. Don't have a login? Get one here: https://carlile.biz/index.msw.

STEP 4: WE'RE HERE TO HELP!

Email us at customerservice@carlile.biz if you have any questions.

WE'RE ONLINE:

You can access proof of delivery (POD), freight bills, invoice charges, and our online bill payment portal by using our Customer Connection at https://www.carlile.biz/customer-connection/.
1. REQUESTING ENTITY: NSB SEARCH AND RESCUE

2. PROJECT NAME: NSB SEARCH AND RESCUE VEHICLE PURCHASE

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   THE NSB SEARCH AND RESCUE DEPARTMENT IS IN NEED OF PURCHASING THREE NEW FORD EXPEDITIONS FOR ON-CALL PERSONNEL. THESE VEHICLES WILL BE SET WITH AUTO START AND WINTER GEAR.

4. PROJECT LOCATION: If this request is for an area wide project, indicate what is proposed to be done by village.

   THE NSB SEARCH AND RESCUE DEPARTMENT IS LOCATED IN UTQIAGVIK, ALASKA
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

The NSB Search and Rescue is located in Utqiagvik, Alaska

(3) Ford Expeditions 4 Wheel Drive for On-Call Personnel @ $46,175 x (3) = $138,525.00
Estimated Freight @ $20,376.00
Administrative Cost @ 10% = 15,891.00
Total Cost $174,792.00

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No ☒ Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

N/A

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

N/A
PROJECT NAME: NSB SEARCH AND RESCUE VEHICLE PURCHASE
LOCATION: UTQIAGVIK, ALASKA

10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

THESE VEHICLES WILL HELP SUPPORT THE RELIABILITY FOR SEARCH AND RESCUE STAFF WHEN RESPONDING TO EMERGENCY SITUATIONS.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

N/A

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

N/A
PROJECT NAME: NSB SEARCH AND RESCUE VEHICLE PURCHASE
LOCATION: UTQIAGVIK, ALASKA

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
□ No  ☒ Yes  (If yes, include written verification)

Explanation, if necessary:
CURRENTLY NSB SEARCH AND RESCUE IS SPENDING MORE FUNDING IN VEHICLE PARTS, DUE TO THE AGE OF SOME OF THE CURRENT SEARCH AND RESCUE FLEET.

12. ATTACHMENTS: List any supplemental information submitted with this request.
SEE ATTACHED

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:
Requestor Name and Title: MARIA M ESPARZA, SAR DM
Signature: [Signature]
Date: 2/23/21

Department Director Name: APRIL D. BROOKS, DIRECTOR OF SEARCH AND RESCUE
Department Director Signature: [Signature]
Date: 2/23/21

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NOCTH SLOPE BOROUGH
SEARCH AND RESCUE
PRICE $46,175
FOB ANCHORAGE

INCLUDES WINTER PACKAGE
REMOTE START

2021 Expedition 4dr 4x4 XL (U1G)
Price Level: 115

Client Proposal
Prepared by:
Ray Marcum
Office: 907-793-8213
Date: 02/01/2021

Kendall Ford | 431 Unga street, Anchorage, AK, 99501
Office: 907-793-8213
PROJECT NAME: NSB SEARCH AND RESCUE VILLAGE VEHICLE PURCHASE
LOCATION: ANAKTUVUK PASS, NUIQSUIT, AND POINT HOPE

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-054 7
DATE SUBMITTED: 3/23/2021
REQUESTING ENTITY: NSB SEARCH AND RESCUE

AMOUNT REQUESTED: $188,000
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM
Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB SEARCH AND RESCUE
2. PROJECT NAME: NSB SEARCH AND RESCUE VILLAGE VEHICLE PURCHASE
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   THE NSB SEARCH AND RESCUE DEPARTMENT IS IN NEED OF PURCHASING THREE NEW FORD EXPEDITIONS FOR ON-CALL PERSONNEL. THESE VEHICLES WILL BE SET WITH AUTO START AND WINTER GEAR.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

   THE NSB SEARCH AND RESCUE DEPARTMENT IS LOCATED IN UTQIAGVIK, ALASKA. REQUEST IS FOR THE ASSISTANT COORDINATORS RESPONDING IN THE VILLAGES OF ANAKTUVUK PASS, NUIQSUIT AND POINT HOPE.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

THE NSB SEARCH AND RESCUE IS LOCATED IN UTIQAGVIK, ALASKA
(3) FORD EXPEDITIONS 4 WHEEL DRIVE FOR ON-CALL PERSONNEL @ $37,425.00 x (3) = $112,275.00
ESTIMATED FREIGHT @ $7,286.00+$44,200.00+$7,000.00=$58,486.00
ADMINISTRATIVE COST @ 10% = $17,076.00
TOTAL COST $187,837.00

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- No  ☒ Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

N/A

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No  ─ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No  ─ Yes
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule? ☒ No  ─ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No  ─ Yes
If No, explain why it should be considered out of sequence:

Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – November 2020
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   
   THESE VEHICLES WILL HELP SUPPORT THE RELIABILITY FOR SEARCH AND RESCUE STAFF WHEN RESPONDING TO EMERGENCY SITUATIONS IN THE VILLAGES.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   N/A

   C. Indicate if this is a reoccurring upgrade or repair.

   N/A

   D. Detail outside funds being leveraged, if applicable.

   N/A

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   N/A

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   N/A

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   N/A

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   N/A
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☑ No    ☑ Yes   (If yes, include written verification)

Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

SEE ATTACHED

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

Requestor Name and Title: MARIA M ESPARZA, ACTING SAR DM

Signature: [Signature] Date: 2/23/21

Department Director Name: APRIL D. BROOKS, DIRECTOR OF SEARCH AND RESCUE

Department Director Signature: [Signature] Date: 2-23-21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-0548  TYPE: UpFund
DATE SUBMITTED: 2/17/2021  AMOUNT REQUESTED: $378,000
REQUESTING ENTITY: NSB FIRE DEPARTMENT  AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB FIRE DEPARTMENT

2. PROJECT NAME: EMERGENCY RESPONSE VEHICLE REPLACEMENT

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

This project replaces five current emergency response vehicles in Barrow with five 2021 Ford Expedition XLS, to include Radio System & Emergency Lighting installations. Vehicles to be replaced are:
1. C-1 2007 Ford Expedition VIN 1FMFU165X7LA35608, 60,000 miles. Vehicle is currently down and has been stripped of parts to use for repairs to other vehicles & will be written off.
2. C-2 2007 Ford Expedition VIN 1FMFU16567LA35606, 55,000 miles. Condition is deteriorating, continuous repairs to keep the vehicle in service are costly & will be written off.
3. C-17 2004 Ford Expedition VIN 1FMPU16L24LB65879, 60,000 miles. Condition is deteriorating, parts becoming obsolete & will be written off.
4. C-21 2005 Ford Expedition VIN 1FMPU16525LB00159, 70,000 miles. Condition deteriorating; vehicle was involved in an accident and the front passenger door is damaged beyond repair. Will be written off.
5. C-22 2005 Ford Expedition VIN 1FMPU16505LB00158, 50,000 miles. Condition is deteriorating, parts becoming obsolete & will be written off.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
Barrow,
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Project Cost for 5 new Emergency Response Vehicles:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Estimated vehicle cost (including freight &amp; radio/emergency lighting/equip. installation: $62,922</td>
</tr>
<tr>
<td>- Administrative Estimate: $6,292</td>
</tr>
<tr>
<td>- Contingency: $6,292</td>
</tr>
<tr>
<td>- Total cost estimate per vehicle: $75,506</td>
</tr>
<tr>
<td>- Total estimated cost for 5 new 2021 Expedition XL delivered to Utqiagvik: $377,530</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No    ☑ Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☑ No    ☑ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  ☑ No    ☑ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  ☑ No    ☑ Yes

If Yes, is it scheduled for replacement before 2026?  ☑ No    ☑ Yes

If No, explain why it should be considered out of sequence:

Department of Planning and Community Services, Community Planning Division
Revised Vehicle and Equipment Request Form – November 2020
10. PROJECT JUSTIFICATION:

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Current response vehicles scheduled for replacement are degenerating in condition and requiring more maintenance, along with purchase of replacement parts. Response vehicles are continually being taken out of service. Replacement models are newer and would resolve most of these issues, as vehicles have become worn over it’s life span. The Fire Department has not received any new vehicles since 2016, and we are in dire need.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will not entail increased operating and maintenance costs, in fact it will decrease those costs; new vehicles will not require continuous purchase of replacement parts and repairs.

C. Indicate if this is a reoccurring upgrade or repair.

This upgrade will only reoccur as the Fire Department's older vehicles' conditions deteriorate to a point that is beyond worth repairing.

D. Detail outside funds being leveraged, if applicable.

N/A.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

This project should decrease operating and maintenance costs, as new vehicles will eliminate the current high demand for replacement parts, emergency repairs and maintenance.

12. ATTACHMENTS: List any supplemental information submitted with this request.

N/A.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A.

14. REQUESTOR INFORMATION:

Requestor Name and Title: Kamalei Honpa, Acting Deputy Director

Signature: [Signature] Date: 2/17/21

Department Director Name: Brian Reiselbara, Acting Fire Chie/Director

Department Director Signature: [Signature] Date: 2/17/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: RA&S-BARROW
2. PROJECT NAME: AIN PW FAC REPLCMT PH I
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

No funding request at this time, may change before PRC meeting.

4. PROJECT LOCATION:

AIN

TEMPORARY/CIP PROJECT NUMBER: 18-101
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: RA&S-BARROW

TYPE: Upfund
AMOUNT REQUESTED: $3,000,000
AMOUNT RECOMMENDED:
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$3,000,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>(Design, legal, other)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration</td>
<td>(NSB project management)</td>
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<td>$</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>TOTAL</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td>TOTAL PROJECT COST (if different)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No  ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

N/A

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☐ No  ☒ Yes

If yes, indicate name and CIP project number: AIN PW FAC REPLCMT PH I - 68101

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☑ No ☑ Yes
   If No, explain why it should be considered out of sequence:

   N/A

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

    No funding request at this time, may change before PRC meeting.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    N/A

    C. Indicate if this is a reoccurring upgrade or repair.

    N/A

    D. Detail outside funds being leveraged, if applicable.

    N/A

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)

    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)

    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)

    Explanation, if necessary:
PROJECT NAME: AIN PW FAC REPLCMT PH I
LOCATION: AIN

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? [X] No   [ ] Yes (If yes, include written verification)

Explantion, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? [X] No   [ ] Yes (If yes, include written verification)

Explantion, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

[ ] No   [X] Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

N/A

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

N/A

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Jesusito R Vinas Jr., RA&amp;S Division Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Director, Department of Public Works

Department Director Signature: [Signature] Date: 3/12/21

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Nuiqsut

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Nuiqsut require periodic upgrade or replacement to continue providing essential services to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

USDW Garage Floor repairs
Fire Alarm Sprinkler System Upgrade and Add Building Alarm Notification $300,000.00

4. PROJECT LOCATION:
**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Nuiqsut

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

<table>
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<th>Item</th>
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<td></td>
<td>$</td>
</tr>
</tbody>
</table>
| Professional Services (Design, legal, other) | USDW Garage Floor Replacement  
Fire Alarm Sprinkler System Upgrade Add Notification | | $300,000.00 |
| Construction / Acquisition (anticipated costs) | | | $ |
| Administration (NSB project management) | 10% Administration | | $30,000.00 |
| Contingency (if not included in other line items) | | | $ |
| Other Costs (with description) | | | $ |
| **TOTAL** | | | **$330,000.00** |

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   - Yes  
   - No

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   - Is this a phased project or a follow-up to an existing CIP project?  
     - Yes
     - No

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Nuiqsut

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☒ No  ☐ Yes
   If No, explain why it should be considered out of sequence:

   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Services.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
    A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

    B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

    C. Indicate if this is a reoccurring upgrade or repair.

    D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
    A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☐ Yes (If yes, include written verification)

    Explanation, if necessary:

    B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☐ Yes (If yes, include written verification)

    Explanation, if necessary:

    C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☐ Yes (If yes, include written verification)

    Explanation, if necessary:
13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Digitally signed by Roberta Oviok</td>
</tr>
<tr>
<td>Date:</td>
<td>3/11/21</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Director

<table>
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<th>Department Director Signature:</th>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades  
LOCATION: Anaktuvuk Pass

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum, Water Treatment Plant an Waste Water Treatment Plant. $740,000

4. PROJECT LOCATION:

Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-103
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $740,000
AMOUNT RECOMMENDED: 

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum, Water Treatment Plant an Waste Water Treatment Plant. $740,000

4. PROJECT LOCATION:

Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-103
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $740,000
AMOUNT RECOMMENDED: 

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

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1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum, Water Treatment Plant an Waste Water Treatment Plant. $740,000

4. PROJECT LOCATION:

Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-103
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $740,000
AMOUNT RECOMMENDED: 

NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES

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North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum, Water Treatment Plant an Waste Water Treatment Plant. $740,000

4. PROJECT LOCATION:

Anaktuvuk Pass
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$740,000

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

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<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Fire Alarm Sprinkler System Upgrade</td>
<td></td>
<td>$740,000.00</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
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<td>Administration (NSB project management)</td>
<td>10% Administration</td>
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<td>$74,000.00</td>
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<tr>
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<tr>
<td>Other Costs (with description)</td>
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<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$814,000.00</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $814,000.00

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  
   [ ] No  [ ] Yes
   
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project?  
   [ ] No  [ ] Yes
   
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes
If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? □ No □ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

□ No □ Yes (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

□ No □ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<th>Department Director Name:</th>
<th>Scott K. Danner, Director</th>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-104
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Atqasuk require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler System Add building Fire Alarm Notification, new fire pump controller for the Water Treatment Plant and Waste Water Treatment Plant $300,000.00

4. PROJECT LOCATION:
Atqasuk
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Atqasuk

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Fire Alarm Sprinkler System Add notifications</td>
<td></td>
<td>$300,000.00</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>CIPM 10%</td>
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<td>Contingency (if not included in other line items)</td>
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<td>Other Costs (with description)</td>
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</tr>
<tr>
<td><strong>TOTAL PROJECT COST (if different)</strong></td>
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<td>$330,000.00</td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [ ] No  [ ] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project? [ ] No  [ ] Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Atqasuk

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**  
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No  ☑ Yes  
If Yes, is it scheduled for replacement before 2026? ☐ No  ☑ Yes  
If No, explain why it should be considered out of sequence:  

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. **PROJECT JUSTIFICATION:** Explain why this project is necessary.  

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.  

This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. **Please respond to the following questions:**  

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No  ☑ Yes (If yes, include written verification)  

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No  ☑ Yes (If yes, include written verification)  

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No  ☑ Yes (If yes, include written verification)  

Explanation, if necessary:
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Atqasuk

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☑ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☑ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
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</tbody>
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Department Director Name:

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<td>3/12/21</td>
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</table>

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Hope

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-105
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Wainwright require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

USDW Garage Floor Repairs
Fire Alarm Sprinkler System Upgrade and Standardize for Fire Station, Health Clinic, USDW Building, Water Treatment Plant and Waste Water Treatment Plant - $620,000.00

4. PROJECT LOCATION:
Point Hope
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Hope

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

1,350,000.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

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<th>Description</th>
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<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>USDW Garage Door Repairs Fire Alarm Sprinkler System Upgrade and Standardization</td>
<td></td>
<td>$</td>
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<td>Professional Services (Design, legal, other)</td>
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<td>Other Costs (with description)</td>
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<td><strong>TOTAL PROJECT COST (if different)</strong></td>
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<td>$</td>
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</tbody>
</table>

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☒ No  ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  ☒ No  ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:  
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes  
If Yes, is it scheduled for replacement before 2026? ☒ No ☐ Yes  
If No, explain why it should be considered out of sequence: 

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION:  Explain why this project is necessary,  
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies. 
This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.  
B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.  
C. Indicate if this is a reoccurring upgrade or repair.  
D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:  
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  
   (If yes, include written verification)  
   Explanation, if necessary:  

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  
   (If yes, include written verification)  
   Explanation, if necessary:  

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  
   (If yes, include written verification)  
   Explanation, if necessary:  

PROJECT NAME: Facility Major Repairs and Upgrades  
LOCATION: Point Hope
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Hope

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

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<td>Department Director Name:</td>
<td>Scott K. Danner</td>
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<td>Department Director Signature:</td>
<td>[Signature]</td>
</tr>
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</table>

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Wainwright

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Wainwright require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm and Sprinkler System Upgrades for Waste Water Treatment Plant $120,000.00

4. PROJECT LOCATION:
Wainwright
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Waste Water Treatment Plant Fire Alarm Notification Installation</td>
<td>$120,000.00</td>
<td>$120,000.00</td>
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<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
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<tr>
<td>Administration</td>
<td>(NSB project management)</td>
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<td>$12,000.00</td>
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<td>Contingency</td>
<td>(if not included in other line items)</td>
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<td>$</td>
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<tr>
<td>Other Costs</td>
<td>(with description)</td>
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<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$</td>
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</table>

TOTAL PROJECT COST (if different) $132,000.00

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
If yes, indicate name and CIP project number:
A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☒ Yes
   If No, explain why it should be considered out of sequence:
   This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   C. Indicate if this is a reoccurring upgrade or repair.
   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
☐ No ☐ Yes (If yes, include written verification)
Explaination, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?
☒ No ☐ Yes If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Kaktovik

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

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1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Kaktovik require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Fire Alarm Sprinkler Suppression Upgrade, Addition Notification for Health Clinic, Vac Station, Water Treatment Plant, and Waste Water Treatment Plant $425,000.00

4. PROJECT LOCATION:
Kaktovik

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-107
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $468,000
AMOUNT RECOMMENDED:
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Kaktovik

5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$1,042,836.00

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Fire Alarm Sprinkle System Addition Notification</td>
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<td>Administration (NSB project management)</td>
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<td>Other Costs (with description)</td>
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</table>

TOTAL PROJECT COST (if different) $467,500.00

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
   If Yes, is it scheduled for replacement before 2026? □ No □ Yes
   If No, explain why it should be considered out of sequence:
   [This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.]

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
   [This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.]
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11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:
   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  ☒ No  ☐ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Lay

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

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1. Complete this form electronically.
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Point Lay require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Heavy Equipment Shop Overhead Door Replacement $150,000.00
Fire Alarm Sprinkler System Addition and Upgrade $560,000.00

4. PROJECT LOCATION:

Point Lay
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>(PAR, other studies or reports, etc.)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Heavy Equipment Overhead Door Replacement</td>
<td></td>
<td>$150,000.00</td>
</tr>
<tr>
<td></td>
<td>Fire Alarm Sprinkler System Addition and Upgrade</td>
<td></td>
<td>$560,000.00</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td>(anticipated costs)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration</td>
<td>CIPM 10%</td>
<td></td>
<td>$15,000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$56,000.00</td>
</tr>
<tr>
<td>Contingency</td>
<td>(if not included in other line items)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td>(with description)</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td>$781,000.00</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $781,000.00

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☒ No ☐ Yes

   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes

   If yes, indicate name and CIP project number:

   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? □ No □ Yes
If Yes, is it scheduled for replacement before 2026? □ No □ Yes
If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary,
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough’s infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? □ No □ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Point Lay

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes  (If yes, include written verification)
Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed? ☐ No ☒ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Roberta Oviok, Division Manager Facility Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Digitally signed by Roberta Oviok</td>
</tr>
<tr>
<td>Date:</td>
<td>3/11/21</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Director

| Department Director Signature: | |
| Date:                           | 3/12/21 |

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Facility Major Repairs and Upgrades
LOCATION: Barrow

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Facility Major Repairs and Upgrades
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Barrow require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Heritage Center elevator upgrade $200,000.00
Shop III Boiler replacement and PSO Boiler Replacement $150,000.00
Fire Alarm Sprinkler System Upgrade for Police Department, PW Transit Shop, PW Transit Station, Health Vet Clinic, Health Gathering Place and Old Search and Rescue Hangar $800,000
Administration and Finance Roof repairs, Utilidor repair, aging copper piping $250,000.00

4. PROJECT LOCATION:
Barrow

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-109
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

TYPE: UpFund
AMOUNT REQUESTED: $1,540,000
AMOUNT RECOMMENDED:
5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs</td>
<td>PAR, other studies or reports, etc.</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services</td>
<td>Heritage Center elevator upgrade, Shop II Boiler replacement and PSO Boiler Replacement, Fire Alarm Sprinkler System Upgrade, A&amp;F Roof repair, Utility repair</td>
<td></td>
<td>$1,400,000.00</td>
</tr>
<tr>
<td>Construction / Acquisition</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Administration</td>
<td>10% Administration</td>
<td></td>
<td>$140,000.00</td>
</tr>
<tr>
<td>Contingency</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Other Costs</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$1,540,000.00</td>
</tr>
</tbody>
</table>

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☒ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project? ☒ No ☐ Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☐ No ☑ Yes
   If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☑ Yes (If yes, include written verification)
   Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☒ No ☐ Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
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<td>Date:</td>
<td>3/11/21</td>
</tr>
</tbody>
</table>

Department Director Name: Scott K. Danner, Director

Department Director Signature:  

Date: 3/12/21

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Heavy Equipment Replacement & Upgrade
LOCATION: Wainwright

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Wainwright Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

ES500 Heater (x2)
Volvo A25
Genie GTH-1056 Fork Lift
JCB Skid Steer
Light Tower

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Wainwright

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-110
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

AMOUNT REQUESTED: $1,314,000

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

Revised Vehicle and Equipment Request Form – November 2020

Page 1 of 4
**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade  
**LOCATION:** Wainwright

5. **PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Cost (incl. freight)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td></td>
<td>$98.5K, freight $29k ea</td>
<td>$255,000</td>
</tr>
<tr>
<td>Volvo A25</td>
<td></td>
<td>$400k, freight $46k</td>
<td>$446,000</td>
</tr>
<tr>
<td>Genie GTH-1056 Fork Lift</td>
<td></td>
<td>$165k, freight $22k</td>
<td>$187,000</td>
</tr>
<tr>
<td>JCB Skid Steer</td>
<td></td>
<td>$130k, freight $16k</td>
<td>$146,000</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td></td>
<td>$39k, freight $15k</td>
<td>$108,000</td>
</tr>
<tr>
<td>10% Contingency</td>
<td></td>
<td></td>
<td>$114,200</td>
</tr>
<tr>
<td>5% Admin</td>
<td></td>
<td></td>
<td>$57,100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$1,313,300</strong></td>
</tr>
</tbody>
</table>

6. **TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?  
☐ No   ☑ Yes  
If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**  ☑ No   ☐ Yes  
If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**  
Is this a phased project or a follow-up to an existing CIP project?  ☑ No   ☐ Yes  
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**  
Is this project included in the Borough’s Repair & Replacement Schedule?  ☑ No   ☐ Yes  
If Yes, is it scheduled for replacement before 2026?  ☑ No   ☑ Yes
If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:
**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade  
**LOCATION:** Wainwright

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

- [ ] No  
- [x] Yes  
  *(If yes, include written verification)*

**Explanation, if necessary:**

Warranties on the equipment will cut costs on parts and labor.

<table>
<thead>
<tr>
<th>12. ATTACHMENTS:</th>
<th>List any supplemental information submitted with this request.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. ADDITIONAL INFORMATION:</th>
<th>Include any pertinent information not requested elsewhere.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. REQUESTOR INFORMATION:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Requestor Name and Title:</td>
<td></td>
</tr>
<tr>
<td>Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Department Director Name:</td>
<td></td>
</tr>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
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3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Nuiqsut Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   ES500 Heaters (x2)
   CAT CS56B Compactor
   JGL Scissor Lift
   Genie GTH-1056 Fork Lift
   JCB Skid Steer
   Volvo A25 Rock Truck
   Light Tower

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Nuiqsut
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Freight</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
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<td>$98.5k</td>
<td>$9.5k</td>
<td>$216,000</td>
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<tr>
<td>CAT CS56B Compactor</td>
<td>$295k</td>
<td>$22k</td>
<td>$317,000</td>
</tr>
<tr>
<td>JGL Scissor Lift</td>
<td>$36k</td>
<td>$7.5k</td>
<td>$43,500</td>
</tr>
<tr>
<td>Genie GTH-1056 Fork Lift</td>
<td>$165k</td>
<td>$22k</td>
<td>$187,000</td>
</tr>
<tr>
<td>JCB Skid Steer</td>
<td>$130k</td>
<td>$18k</td>
<td>$148,000</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
<td>$400k</td>
<td>$18k</td>
<td>$418,000</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td>$39k</td>
<td>$9.5k</td>
<td>$97,000</td>
</tr>
<tr>
<td>JCB Scissor Lift</td>
<td>$36k</td>
<td>$7.5k</td>
<td>$43,500</td>
</tr>
<tr>
<td>Genie GTH-1056 Fork Lift</td>
<td>$165k</td>
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<tr>
<td>JCB Skid Steer</td>
<td>$130k</td>
<td>$18k</td>
<td>$148,000</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
<td>$400k</td>
<td>$18k</td>
<td>$418,000</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td>$39k</td>
<td>$9.5k</td>
<td>$97,000</td>
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<tr>
<td>10% Contingency $142,650</td>
<td></td>
<td></td>
<td>$1,640,475</td>
</tr>
<tr>
<td>5% Admin $71,325</td>
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<td>$1,640,475</td>
</tr>
<tr>
<td>Total Cost</td>
<td></td>
<td></td>
<td>$1,640,475</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No  ☑ Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☑ No  ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  ☑ No  ☐ Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  ☑ No  ☐ Yes

If Yes, is it scheduled for replacement before 2026?  ☑ Yes  ☐ No

If No, explain why it should be considered out of sequence.
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Nuiqsut Heavy Equipment Replacement & Upgrade  
LOCATION: Nuiqsut

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
   [ ] No  [X] Yes (If yes, include written verification)  
   Explanation, if necessary:  
   Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:  
   Requestor Name and Title:  
   
   Signature: Date:  
   
   Department Director Name:  
   
   Department Director Signature: Date: 3/12/21

Planning Department Use Only  

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Utqiagvik Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

CAT D8 with winch
Peterbuilt Mechanics Truck (with air, weld)
Peterbuilt Pump Truck
JCB Skid Steer
Genie GTH-1056 Fork Lift
Compact Excavator (culverts)

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Utqiagvik
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
<th>Freight</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT D8 with winch</td>
<td>$1,175,000</td>
<td>$75k</td>
<td>$1,175,000</td>
</tr>
<tr>
<td>Peterbuilt Mechanics Truck (air, weld)</td>
<td>$320,000</td>
<td>$42k</td>
<td>$320,000</td>
</tr>
<tr>
<td>Peterbuilt Pump Truck</td>
<td>$280,000</td>
<td>$32k</td>
<td>$280,000</td>
</tr>
<tr>
<td>JCB Skid Steer</td>
<td>$146,000</td>
<td>$16k</td>
<td>$146,000</td>
</tr>
<tr>
<td>Genie GTH-1056 Fork Lift</td>
<td>$201,000</td>
<td>$36k</td>
<td>$201,000</td>
</tr>
<tr>
<td>Compact Excavator (culverts)</td>
<td>$118,000</td>
<td>$18k</td>
<td>$118,000</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$2,576,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?
   - [ ] No  [x] Yes
   - If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

   Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  [x] No  [ ] Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:
   Is this a phased project or a follow-up to an existing CIP project?  [x] No  [ ] Yes
   If yes, indicate name and CIP project number:
   A. If this is a new request, indicate below whether this project could be phased and over how many years.

   B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  [ ] No  [x] Yes
   If Yes, is it scheduled for replacement before 2026?  [ ] No  [x] Yes
   If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

Explanation, if necessary:
**PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade  
**LOCATION:** Utqiagvik

**E. Will this project generate a significant cost saving/reduction to the Borough operating budget?**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>(If yes, include <strong>written verification</strong>)</td>
<td></td>
</tr>
</tbody>
</table>

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Director Name:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3/12/21

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Summary of PRC and Planning Commission discussion and recommendation

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NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

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1. REQUESTING ENTITY: Public Works

2. PROJECT NAME: Atqasuk Heavy Equipment Replacement & Upgrade

3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td></td>
</tr>
<tr>
<td>Snow Blower</td>
<td></td>
</tr>
<tr>
<td>Cat CS56B Compactor</td>
<td></td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td></td>
</tr>
</tbody>
</table>

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

Atqasuk
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost Breakdown</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td>$98.5k, freight $42k</td>
<td>$281,000 Total</td>
</tr>
<tr>
<td>Snow Blower</td>
<td>$610k, freight $40k</td>
<td>$650,000</td>
</tr>
<tr>
<td>Cat CS56B Compactor</td>
<td>$295k, freight $22k</td>
<td>$317,000</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td>$39k, freight $15k</td>
<td>$108,000</td>
</tr>
<tr>
<td>10% Contingency</td>
<td>$135,600</td>
<td></td>
</tr>
<tr>
<td>5% Admin</td>
<td>$67,800</td>
<td></td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td><strong>$1,559,400</strong></td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- [ ] No  [x] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  [x] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  [x] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  [ ] No  [x] Yes

If Yes, is it scheduled for replacement before 2026?  [x] No  [ ] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Atqasuk Heavy Equipment Replacement & Upgrade
LOCATION: Atqasuk

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

Requestor Name and Title:

Signature: Date:

Department Director Name:

Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

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CIP VEHICLE AND EQUIPMENT REQUEST FORM

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1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Kaktovik Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   ES500 Heater (x2)
   Peterbuilt Fuel Truck
   Light Tower (x2)

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Kaktovik
5. **PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Unit Cost</th>
<th>Freight</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td>$98.5k</td>
<td>$29k</td>
<td>$255,000</td>
</tr>
<tr>
<td>Peterbuilt Fuel Truck</td>
<td>$235.8k</td>
<td>$31.4k</td>
<td>$267,200</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td>$39k</td>
<td>$15k</td>
<td>$108,000</td>
</tr>
</tbody>
</table>

10% Contingency $63,020
5% Admin $31,510
Total Cost $724,730

6. **TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

- [x] Yes
- [ ] No

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?**

- [x] Yes
- [ ] No

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?

- [x] No
- [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. **RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough’s Repair & Replacement Schedule?

- [x] Yes
- [ ] No

If Yes, is it scheduled for replacement before 2026?

- [x] Yes
- [ ] No

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   This will improve services with less down time.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)

   Explanation, if necessary:
PROJECT NAME: Kaktovik Heavy Equipment Replacement & Upgrade
LOCATION: Kaktovik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   ☑ Yes  ☐ No  (If yes, include written verification)
   Explanation, if necessary:
   Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:
   Requestor Name and Title:
   Signature: Date:
   Department Director Name:
   Department Director Signature: Date: 3/12/21

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade  
LOCATION: Point Hope

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-116  
DATE SUBMITTED: 3/12/2021  
REQUESTING ENTITY: Public Works

AMOUNT REQUESTED: $2,311,000

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

<table>
<thead>
<tr>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
</tr>
<tr>
<td>Snow Blower</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
</tr>
<tr>
<td>CAT D5 Dozer</td>
</tr>
<tr>
<td>Light Tower</td>
</tr>
</tbody>
</table>

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

Point Hope

Incomplete or unsigned requests are unacceptable and will be returned.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Cost</th>
<th>Freight</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td>$98.5k</td>
<td>$32k</td>
<td>$130,500</td>
</tr>
<tr>
<td>Snow Blower</td>
<td>$610k</td>
<td>$40k</td>
<td>$650,000</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
<td>$400k</td>
<td>$50k</td>
<td>$450,000</td>
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<tr>
<td>CAT D5 Dozer</td>
<td>$215k</td>
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<td>$540,000</td>
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<tr>
<td>10% Contingency</td>
<td>$200,950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5% Admin</td>
<td>$100,475</td>
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<td></td>
</tr>
<tr>
<td>Total Cost</td>
<td>$2,310,925</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☐ No  ☒ Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  ☒ No  ☐ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  ☒ No  ☐ Yes

If yes, indicate name and CIP project number:

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9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  ☒ No  ☐ Yes

If Yes, is it scheduled for replacement before 2026?  ☒ Yes  ☐ No

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:

<table>
<thead>
<tr>
<th>A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<th>B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>This will improve services with less down time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Indicate if this is a reoccurring upgrade or repair.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>D. Detail outside funds being leveraged, if applicable.</th>
</tr>
</thead>
</table>

11. Please respond to the following questions:

| A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? | ☒ No ☐ Yes (If yes, include written verification) |
| --- |

Explanation, if necessary:  

| B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? | ☒ No ☐ Yes (If yes, include written verification) |
| --- |

Explanation, if necessary:  

| C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? | ☒ No ☐ Yes (If yes, include written verification) |
| --- |

Explanation, if necessary:  

| D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? | ☒ No ☐ Yes (If yes, include written verification) |
| --- |

Explanation, if necessary:  

PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade  
LOCATION: Point Hope
PROJECT NAME: Point Hope Heavy Equipment Replacement & Upgrade
LOCATION: Point Hope

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   [ ] No   [x] Yes  (If yes, include **written verification**)

   Explanation, if necessary:
   Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th>Date:</th>
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<tbody>
<tr>
<td>Signature:</td>
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<tr>
<td>Department Director Name:</td>
<td></td>
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<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
</tr>
</tbody>
</table>

**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**NSB PLANNING DEPARTMENT USE ONLY**

<table>
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<tr>
<th>TEMPORARY/CIP PROJECT NUMBER: 18-117</th>
<th>TYPE: UpFund</th>
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<tr>
<td>DATE SUBMITTED: 3/12/2021</td>
<td>AMOUNT REQUESTED: $1,555,000</td>
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<td>REQUESTING ENTITY: Public Works</td>
<td>AMOUNT RECOMMENDED:</td>
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</table>

**NORTH SLOPE BOROUGH**  
**PLANNING AND COMMUNITY SERVICES**  

**CIP VEHICLE AND EQUIPMENT REQUEST FORM**

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. **REQUESTING ENTITY:** Public Works
2. **PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade
3. **PROJECT DESCRIPTION:**
   - **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   | ES500 Heater (x2) | Peterbuilt Trash Truck | JCB Skid Steer | Volvo A25 Rock Truck | Light Tower (x2) |

4. **PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

   | Point Lay |
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Cost</th>
<th>Freight</th>
<th>Total</th>
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<tbody>
<tr>
<td>E5500 Heater (x2)</td>
<td>$98.5k</td>
<td>$32k</td>
<td>$261,000</td>
</tr>
<tr>
<td>Peterbuilt Trash Truck</td>
<td>$340k</td>
<td>$45k</td>
<td>$385,000</td>
</tr>
<tr>
<td>JCB Skid Steer</td>
<td>$130k</td>
<td>$18k</td>
<td>$148,000</td>
</tr>
<tr>
<td>Volvo A25 Rock Truck</td>
<td>$400k</td>
<td>$50k</td>
<td>$450,000</td>
</tr>
<tr>
<td>Light Tower (x2)</td>
<td>$39k</td>
<td>$15k</td>
<td>$108,000</td>
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<tr>
<td>10% Contingency $135,200</td>
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<tr>
<td>5% Admin $67,600</td>
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<td></td>
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<tr>
<td>Total Cost $1,554,800</td>
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</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- [x] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? [x] No

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? [x] No

If yes, indicate name and CIP project number:

- A. If this is a new request, indicate below whether this project could be phased and over how many years.
- B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule? [x] No

If Yes, is it scheduled for replacement before 2026? [x] Yes

If No, explain why it should be considered out of sequence:
PROJECT NAME: Point Lay Heavy Equipment Replacement & Upgrade
LOCATION: Point Lay

10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ❌ No ✔ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ❌ No ✔ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ❌ No ✔ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ❌ No ✔ Yes (If yes, include written verification)

Explanation, if necessary:
**PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade  
**LOCATION:** Point Lay

---

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No  ☒ Yes  *(If yes, include written verification)*  
Explanation, if necessary:  
Warranties on the equipment will cut costs on parts and labor.

---

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

---

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

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**14. REQUESTOR INFORMATION:**

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<tr>
<th>Requestor Name and Title:</th>
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<th>Signature:</th>
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<th>Department Director Name:</th>
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**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

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Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Village Up Fund Heavy Equipment Major Repair
LOCATION: Villages

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-118
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Village Up Fund Heavy Equipment Major Repair
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Funds would be used to offset the cost for component failure that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the components failures the equipment maintenance deals with.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   - Area-wide villages to help off set the cost of component failure.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer’s suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

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<tbody>
<tr>
<td>Up Fund</td>
<td>$300,000.00</td>
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<tr>
<td>15% Contingency</td>
<td>$45,000.00</td>
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<tr>
<td>15% Admin</td>
<td>$45,000.00</td>
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<tr>
<td>TOTAL COST</td>
<td>$390,000.00</td>
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</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

[ ] No  [X] Yes  If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  [X] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  [X] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  [X] No  [ ] Yes

If Yes, is it scheduled for replacement before 2026?  [X] No  [ ] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
   
   By using this project, we purchase engines, transmissions, undercarriages, and hydraulic pumps. It will help on our maintenance budget.

   C. Indicate if this is a reoccurring upgrade or repair.
   
   We try to up fund this project every year.

   D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:
**PROJECT NAME:** Village Up Fund Heavy Equipment Major Repair  
**LOCATION:** Villages

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No  ☑ Yes  *(If yes, include written verification)*  
Explanation, if necessary:  
It will reduce maintenance cost on the operating budget in villages.

12. **ATTACHMENTS:** List any supplemental information submitted with this request.

13. **ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

14. **REQUESTOR INFORMATION:**

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<th>Signature:</th>
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<td>3/12/21</td>
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**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Barrow Up Fund Heavy Equipment Major Repair
LOCATION: Barrow

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Barrow Up Fund Heavy Equipment Major Repair
3. PROJECT DESCRIPTION:
   • Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   • Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

   Funds would be used to offset the cost for component failure that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the components failures the equipment maintenance deals with.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   Barrow
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Up Fund</td>
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<tr>
<td>15% Contingency</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>15% Admin</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>TOTAL COST</td>
<td>$390,000.00</td>
</tr>
</tbody>
</table>

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

- [X] No
- [ ] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  

- [X] No
- [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?

- [X] No
- [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?

- [X] No
- [ ] Yes

If Yes, is it scheduled for replacement before 2026?

- [X] No
- [ ] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Some components are at the end of their life and would need to be replaced.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

Yes

D. Detail outside funds being leveraged, if applicable.

N/A

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:
**PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair  
**LOCATION:** Barrow

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No  ☑ Yes (If yes, include written verification)  
Explanation, if necessary:

It will reduce maintenance cost on the operating budget in Barrow.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.  
N/A

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.  
N/A

**14. REQUESTOR INFORMATION:**

<table>
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<tr>
<th>Requestor Name and Title:</th>
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<td>Date:</td>
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3/12/21

_Planning Department Use Only_

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade
LOCATION: Anaktuvuk Pass

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works
2. PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.
   - ES500 Heater (x2)
   - JGL Scissor Lift
   - Snow Blower
   - Doosan P185 Air Compressor
   - Light Tower (x2)

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   - Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-120
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

TYPE: UpFund
AMOUNT REQUESTED: $1,287,000
AMOUNT RECOMMENDED:

5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Cost</th>
<th>Freight</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>ES500 Heater (x2)</td>
<td>$98.5k</td>
<td>$38k</td>
<td>$273k</td>
</tr>
<tr>
<td>JGL Scissor Lift</td>
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<tr>
<td>Snow Blower</td>
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<tr>
<td>Doosan P185 Air Compressor</td>
<td>$24k</td>
<td>$19k</td>
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<tr>
<td>Light Tower (x2)</td>
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<tr>
<td>Total Cost $1,286,850</td>
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6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?
- [ ] No
- [X] Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?  [X] No  [ ] Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?  [X] No  [ ] Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  [ ] No  [X] Yes

If Yes, is it scheduled for replacement before 2026?  [ ] No  [X] Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:

   D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

   Explanation, if necessary:
PROJECT NAME: Anaktuvuk Pass Heavy Equipment Replacement & Upgrade
LOCATION: Anaktuvuk Pass

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   - No  ☒ Yes  (If yes, include written verification)
   Explanation, if necessary:
   Warranties on the equipment will cut costs on parts and labor.

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

   Requestor Name and Title:
   Signature: Date:
   Department Director Name:
   Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: New Anaktuvuk Pass Public Works Shop
LOCATION: Anaktuvuk Pass

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: CIPM
2. PROJECT NAME: New Anaktuvuk Pass Public Works Shop
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The former USDW (United School District Warehouse) shop building in Anaktuvuk Pass was destroyed by a fire on February 7, 2018. This project will remediate the footprint of the former USDW facility (which has been removed from the site and landfilled) and provide a replacement facility on the same site. In order to receive insurance compensation for replacement cost of the USDW building, the new facility is required to be “substantially similar” to the former facility, which measured approximately 16,000 square feet and included a repair garage, truck storage, mezzanine storage, warehouse, maintenance shop, wood shop, restrooms, and breakroom. The replacement facility shall be designed in accordance with currently adopted building codes, fire codes, and new technology as applicable. To mitigate shipping costs, it is intended that the CWAT seasonal road be utilized as much as possible for transporting building materials in and remediated soil out of Anaktuvuk Pass. Initial funding is available for initial environmental characterization of the site, geotechnical investigation, and building design. The extent of site remediation, if any, will not be known until completion of the environmental site characterization. Funding has not yet been secured for the remediation efforts or building construction.

4. PROJECT LOCATION:
Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-121
DATESubmitted: 2/25/2021
REQUESTING ENTITY: CIPM

AMOUNT REQUESTED: $18,526,000
AMOUNT RECOMMENDED:
**PROJECT NAME:** New Anaktuvuk Pass Public Works Shop  
**LOCATION:** Anaktuvuk Pass

5. **DOLLAR $ AMOUNT OF THIS REQUEST:** Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

$14,025,5370 is the replacement cash value of building (without site remediation costs considered, but with demolition cost deducted) is being requested to allow for purchase of materials during November 2021 to be mobilized on the CWAT.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>USDW Building replacement</td>
<td>Insurance Fire Loss ROM Estimate</td>
<td>$14,025,370</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
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<td>Contingency (if not included in other line items)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Other Costs (with description)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>$14,025,370</td>
</tr>
</tbody>
</table>

**TOTAL PROJECT COST** (if different) $18,525,370

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?** ☑ No ☐ Yes
   If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**
   Is this a phased project or a follow-up to an existing CIP project? ☑ No ☐ Yes
   If yes, indicate name and CIP project number:
   
   A. If this is a new request, indicate below whether this project could be phased and over how many years.
   
   Project construction schedule assumes single mobilization on CWAT for removal of any remediated material and hauling in building material. Phasing project construction may necessitate additional CWAT mobilizations.
   
   B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.
   
   C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.
### 9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

- **Is this project included in the Borough’s Repair & Replacement Schedule?**
  - □ No
  - □ Yes

- **If Yes, is it scheduled for replacement before 2026?**
  - □ No
  - □ Yes

- **If No, explain why it should be considered out of sequence:**

  Building destroyed by fire, replacement needed to provide for essential Public Works functions.

### 10. PROJECT JUSTIFICATION:

**Explain why this project is necessary.**

- **A.** Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

  This project will restore the capabilities lost in AKP when the USDW facility was destroyed; the facility was ~16,000 square feet and included a repair garage, truck storage, warehousing, a maintenance shop, a wood shop, and office space.

- **B.** Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

  As the replaced structure was over 40 years old, operating and maintenance costs for the new facility are expected to be lower as a result of improvements in materials and method of construction.

- **C.** Indicate if this is a reoccurring upgrade or repair.

  Repair- replacement for total fire loss.

- **D.** Detail outside funds being leveraged, if applicable.

  Current design, construction and DCA funding ($4.5 m) funding provided by insurance proceeds. The project will seek further insurance compensation for the replacement cost of the building, estimated to yield at least $5 m by project completion.

### 11. Please respond to the following questions:

- **A.** Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  
  - □ No
  - □ Yes  (If yes, include written verification)

  Explanation, if necessary:

- **B.** Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  
  - □ No
  - □ Yes  (If yes, include written verification)

  Explanation, if necessary:

- **C.** Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  
  - □ No
  - □ Yes  (If yes, include written verification)

  Explanation, if necessary:
D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☒ No ☐ Yes  (If yes, include written verification)

Explanation, if necessary:

12. PROJECT ANALYSIS REPORT (PAR) STATUS:  Has a PAR for this project been completed?

☒ No ☐ Yes  If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

13. ATTACHMENTS:  List any supplemental information submitted with this request.

14. ADDITIONAL INFORMATION:  Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
<td></td>
</tr>
</tbody>
</table>

| Department Director Name: | |
| --- | |

<table>
<thead>
<tr>
<th>Department Director Signature:</th>
<th>Date: 3/12/21</th>
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Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: RCRA Hazardous Waste Storage Facility Development
LOCATION: Utqiaġvik and SA-10.

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 18-New 1  TYPE: New
DATE SUBMITTED:  AMOUNT REQUESTED: $275,000  All through LOI
REQUESTING ENTITY: North Slope Borough, Depar
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: North Slope Borough, Department of Public Works
2. PROJECT NAME: RCRA Hazardous Waste Storage Facility Development
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

In February 2020, the Borough received a Notice of Enforcement Action from the U.S. Department of Justice (DoJ) on behalf of the Environmental Protection Agency (EPA) citing numerous Resource Conservation and Recovery Act (RCRA) violations. Currently in every community there are uncharacterized/un-tested drummed waste, that has not been backhauled & disposed of for several seasons which violates RCRA requirements. According to EPA requirements, if waste is unknown or untested - it is considered hazardous waste and subject to hazardous waste disposal requirements and non compliance fines.

In December 2020, the DoJ and EPA directed, as part of a Consent Decree enforcement settlement, the development of a Hazardous Waste Storage Facility, in Utqiaġvik. The construction specs of a Hazardous Waste Storage Facility, eliminates most buildings in Utqiaġvik, except the South Pad warehouse. The preferred Borough location for the facility is in Prudhoe Bay / SA-10, due to its connectivity to the road network, as well as being located in an industrial center.

Both locations (South Pad and SA-10 facilities) need to undergo an Engineer’s Evaluation to determine if either location is appropriate for a Haz Waste Storage Facility and what modifications are needed to meet the facility requirements or if neither location are viable, then the costs associated with the development of a new facility being constructed.

Modification/Construction of the selected existing facility or the new construction of a facility, followed by federal and state permitting process is required following the Engineering Evaluation findings.

This project is a multi-year, multi-phase project, with set compliance milestones, subject to EPA enforcement action and fines.

4. PROJECT LOCATION:
Utqiaġvik and Prudhoe Bay/SA-10. The EPA directed the development of a RCRA compliant Hazardous Waste Storage Facility in Utqiaġvik, Alaska. The Borough is proposing SA-10 as an alternate location for the facility. Both locations are required to be evaluated.
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year’s expenditure estimate, administrative estimate and contingency.

Current funding cycle requested funding: $275,000 for Engineering Evaluation of two existing facilities (Prudhoe Bay/SA-10 and Utqiagvik/south pad), and analysis of a new facility should the initial two not be viable options for containing a Hazardous waste storage facility.

6.PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>Engineering and suitability analysis of 2 existing facilities, plus the cost of a new Hazardous Waste Storage Facility.</td>
<td>PAR estimate</td>
<td>$275,000</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Pending recommendations of Engineering Evaluation.</td>
<td>Part 2 of phased project.</td>
<td>$pending phase 2 costs</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Pending recommendations of Engineering Evaluation.</td>
<td>Part 2 of phased project.</td>
<td>$pending phase 2 costs</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>Pending recommendations of Engineering Evaluation.</td>
<td>Part 2 of phased project.</td>
<td>$pending phase 2 costs</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>Pending recommendations of Engineering Evaluation.</td>
<td>Part 2 of phased project.</td>
<td>$pending phase 2 costs</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Pending recommendations of Engineering Evaluation.</td>
<td>Part 2 of phased project.</td>
<td>$pending phase 2 costs</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$275,000 + phase 2</td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☒ No ☑ Yes

The full amount requested ($275,000) will be required prior to November 2021.
This project is subject to DoJ / EPA violation enforcement and is subject to strict timelines and significant enforcement fines. Early funding to secure resources needed (for the development of Engineering Evaluation) is required to mitigate against.

8. PROJECT PHASING OR UPFUND:
Is this a phased project or a follow-up to an existing CIP project? ☒ No ☑ Yes

If yes, indicate name and CIP project number: This is a new phase project.

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Current wording of enforcement Consent Decree indicates project would span 2 fiscal years (current and FY 2022). The first stage is to study/evaluate existing facility options, and identify which facility is viable and what upgrades are needed. Next

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Not applicable - not an area-wide project

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Current fiscal year requested funding: $275,000. Initial Engineering Evaluation and PAR required to determine subsequent years funding needs. New construction location costs: $13 million (actual cost noted in PAR). If viable, renovations of existing facilities anticipated to be under the $13 million new construction costs.
9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☑ No ☑ Yes
   If No, explain why it should be considered out of sequence:
   This project is part of a federal enforcement settlement Consent Decree with significant fines associated. Failure to comply with Consent Decree stipulations would incur significant additional enforcement actions and fines accrued daily.

10. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   Establishment of and permitting a RCRA Hazardous Waste Storage Facility will facilitate the safe and compliant storage of hazardous waste facilitating the removal of hazardous waste from the various communities. Establishment of this facility will meet the Consent Decree stipulations and assist in lessening significant non compliance fines facing the Borough.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   This project will create a centralized storage location for the safe and secure storage of Hazardous Waste from the various communities, until the waste is properly disposed of. This will increase resident and environmental safety in the communities. This project will require a significant permitting effort, follow up regulatory reporting and compliance milestones which will increase operating and maintenance costs.

   C. Indicate if this is a reoccurring upgrade or repair.

   Pending Engineer Evaluation / PAR, upgrades and repair of existing facilities may occur at either SA-10 or South Pad facility building's.

   D. Detail outside funds being leveraged, if applicable.

   No outside funds available.
   Project is associated with a Consent Decree settlement, and outside federal grants or funding is not available.

11. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:
   February 2020, the Borough receives a Notice of Enforcement Action from the DOJ on behalf of the EPA citing violation of federal containment requirements. In December 2020, the DOJ and EPA ordered the Borough to establish a Hazardous Waste Storage Facility. The Borough Mayor, CAO, Law Department, Public Works and Admin/Finance have been engaged in Consent Decree process since December. Consent Decree negotiations directly with DOJ and EPA to commence in March 2021.

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:

   C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☑ No ☑ Yes (If yes, include written verification)

   Explanation, if necessary:
   Currently, hazardous waste and unknown waste is staged throughout all communities of the Borough, often in locations open to the environment and subject to the harsh Arctic elements which increase probability of a spill. Environmental and funding circumstances have historically limited back haul and disposal of waste from the communities. Last known disposal...
PROJECT NAME: RCRA Hazardous Waste Storage Facility Development
LOCATION: Utqiagvik and SA-10.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes  (If yes, include written verification)
Explanation, if necessary:
Initial funding for the first phase of this project will develop an Engineering Evaluation / PAR that includes risk assessment evaluations.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☐ No  ☒ Yes  (If yes, include written verification)
Explanation, if necessary:
Complying with the development of a hazardous waste storage facility within the time frame stipulated by the DoJ / EPA will avoid additional fines and penalties, that are accumulated per day, per individual non compliance (which is the long term storage of uncharacterized waste / hazardous waste in the community).

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?  ☐ No  ☒ Yes  If yes, indicate PAR name and date:
Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.
Attached 1-16-2021 Department of Public Works Memorandum, and excel spreadsheet of RCRA facility requirements.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:
Requestor Name and Title: Joe Ramirez, Division Program Manager, Department of Public Works

Signature:  Date:

Department Director Name: Scott Danner, Director of Public Works.

Department Director Signature:  Date: 3/12/21

Planning Department Use Only
Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
MEMORANDUM

1-16-21

TO: SCOTT K. DANNER, DIRECTOR, DEPARTMENT OF PUBLIC WORKS

FROM: JOE RAMIREZ, DIVISION PROGRAM MANAGER DEPARTMENT OF PUBLIC WORKS

SUBJECT: DOJ CONSENT DECREE AND RCRA STORAGE PERMIT ADVISORY

The Consent Decree we have met to discuss with the Borough Administration and Borough Consultants has among many requirements, identified the need for the Borough to apply for a RCRA Storage Permit. The decree allows 360 days for construction of a storage facility, after submitting a plan. Following Borough protocols for accomplishing such a project, I believe the time period allowed is unattainable, as construction of this nature would be first extremely costly, and deemed a Capital Project subject to the annual Project Request process, and similar to the Area Wide Fuel Tank Upgrades Project, through PRC approvals that begin in February of each year where funds would not become available until January 2022 to solicit for a Design Engineering firm.

A. Application for Storage Permit

1. Within 360 Days of the Effective Date, Defendant shall submit to EPA an application for a RCRA permit to store Hazardous Waste in Utqiagvik, Alaska to:

   RCRA Corrective Action, Permits and PCB Section Land, Chemicals & Redevelopment Division
   US EPA, Region 10
   1200 Sixth Avenue, Suite 155, Mail Stop: 15-H04
   Seattle, Washington 98101-3123

2. The application required by Paragraph 29 shall comply with 40 C.F.R. Part 270, Subpart B. Defendant shall thereafter cooperate with EPA in the issuance of the permit.
In order to meet Consent Decree mandates at a reduced cost, I recommend an analysis for the possible retrofit of an existing Borough asset to meet RCRA requirements for a storage facility rather than pursue Capital funding for new construction. Or at least as a temporary measure until a new facility may be built. I recommend first consideration be given to re-purposing an existing building at SA-10 in Prudhoe Bay for this purpose if possible, as the site and landfill is first, Borough owned, and is located so that any stored Haz Mat may be shipped offsite via barge or truck down the haul road to disposal facility locations. SA-10 then appears the most logical site to utilize for either retro-fit or new construction. An overview of SA-10 is provided attached, although dates to the period before construction of the new Waste Water Treatment Plant.

As a secondary location Utqiagvik may be given consideration for storage of waste products. The choices for selection of a suitable location appears limited to the South Pad Warehouse. While the Warehouse is presently in use to store miscellaneous equipment, the demand to meet Consent Decree requirements may be of higher priority and immediacy to meet until such time adequate funding becomes available to construct a new warehouse for Public Works equipment storage use, and following the traditional Capital Improvement process.

To meet RCRA compliance in utilization of either SA-10 or the South Pad Warehouse, and should the Borough Administration agree to investigation of these potential sites for use, facility upgrades will be needed. The South Pad Warehouse for example, and as depicted in the following pages, was constructed in 1975 at a cost of $11.277 million. It encompasses a significant area at 14,700 square feet with a concrete slab with thermosiphons. Unfortunately, the site has no electricity or heat, or fire alarms, which would be necessary to meet RCRA requirements for a waste storage facility with additional requirements for spill detection, and would require significant costs.

In order to determine if use of either SA-10 or the Utqiagvik facility may be possible, and if facility upgrades can be accomplished to the extent required, I recommend the Borough secure the services of an Engineering Firm providing mechanical, electrical and structural expertise to evaluate existing site conditions first at SA-10, to determine if meeting RCRA requirements are first feasible, and if so, then provide a recommendation with cost estimate for each category of upgrades. If it is determined the Borough wishes to pursue these upgrades, the same firm can provide drawings and specifications to include construction administration services to insure the selected construction contractor meets the requirements of construction, and conduct site inspections to accept the work at time of substantial completion.

To accomplish facility evaluations, securing an Authority to Negotiate with an Engineering Firm for Technical Services for the sum of $500,000.00 will enable this process to begin. Similar to the Area Wide Fuel Tank Upgrades, it may be necessary to secure funding through a deficit sending request, through Letter of Authorization.

If it is determined that either SA-10 or Utqiagvik sites are not suitable or the proposed upgrades are not attainable to meet RCRA requirements for a storage facility, and if absent any alternatives, the Borough will need entertain new construction solutions through the Capital Improvement process with notification to the DOJ that Consent decree timelines will need be extended to accommodate the structure of Municipal procedures, and in recognition of the challenges of Arctic construction.

As in the case of the Area Wide Fuel Tank Upgrades Project, it would be both beneficial and appropriate to utilize the project management resources available at CIPM to accomplish meeting these Capital projects.
The subject building was constructed in 1975 and is used 100% as a shop/warehouse. Currently there is no neat or electricity with extensive repairs required. 50% depreciation will be added for repairs. The subject building has 1 story and is of a steel frame type construction. The foundation is concrete slab with thermosyphons and it has a gable style preformed metal roof. The exterior wall type is preformed metal sheets 100%. There are no underground tanks present. The subject building is not located in the flood zone (less than 12' above sea level). There is no fire suppression system installed. There is no fire detection system installed.

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<tbody>
<tr>
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<td>January, 2016</td>
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<table>
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<tr>
<th>Occupancy</th>
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<tbody>
<tr>
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<thead>
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<table>
<thead>
<tr>
<th>Building Name</th>
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<tr>
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<th>Units</th>
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<th>Actual Replacement Cost Rounded to Nearest $100</th>
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<tbody>
<tr>
<td>Add 10% for Demolition Costs</td>
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<tr>
<td>Add for Air Freight Costs</td>
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Cost data by Marshall & Swift / Boeckh LLC
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<tr>
<th><strong>Inpection Date</strong></th>
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</thead>
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<td><strong>Tax ID #</strong></td>
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<td><strong>Building Name</strong></td>
<td>South Pad Shop</td>
</tr>
<tr>
<td><strong>Legal Description</strong></td>
<td>Lt 2 South Pad, Plat 87-6</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>NNA Nunavaaq Street</td>
</tr>
<tr>
<td><strong>City</strong></td>
<td>Barrow</td>
</tr>
<tr>
<td><strong>Zip</strong></td>
<td>99723</td>
</tr>
<tr>
<td><strong>Latitude / Longitude</strong></td>
<td>N 71° 17.286' W156° 45.317'</td>
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<tr>
<td><strong>Year Built</strong></td>
<td>1975</td>
</tr>
<tr>
<td><strong>Building Square Footage</strong></td>
<td>14,700</td>
</tr>
</tbody>
</table>

<p>| <strong>Unheated Square Footage</strong> | 0 |
| <strong>Number of Stories</strong>       | 1 story |
| <strong>Occupancy</strong>               | Shop/ Warehouse 100% (vacant) |
| <strong>Secondary Occupancy</strong>     | N/A |
| <strong>Distance to Ocean (If &lt; 1,000')</strong> | N/A |
| <strong>Flood Zone</strong>              | No |
| <strong>Vacant Locations</strong>        | 0 |
| <strong>Leased Space</strong>            | 0 |
| <strong>Overall Building Condition</strong> | 3 Average |
| <strong>Construction Type</strong>       | Type V-B Unprotected Frame |
| <strong>Construction Class (ISO)</strong> | Construction Class 3 — noncombustible |
| <strong>Foundation Type</strong>         | Concrete Slab |
| <strong>Exterior Wall Type</strong>       | PE-Metal Sandwich Panels, 100% |
| <strong>Exterior Insulation Finishing System</strong> | N/A |
| <strong>Roofing Type</strong>            | Metal, Preformed, 100% |
| <strong>Roof Condition</strong>          | 3 Average |
| <strong>Roof Geometry</strong>           | Gable |
| <strong>Roof Replacement (Year)</strong>  | N/A |
| <strong>Additions/Renovations</strong>   | N/A |
| <strong>Pres. of Underground Storage Tanks</strong> | No |
| <strong>Lightning Suppression</strong>   | No |
| <strong>Sprinkler Fire Protection Coverage %</strong> | 0% |
| <strong>Sprinkler Fire Protection Type</strong> | No sprinklers are present in this building |
| <strong>Fire Alarm Description</strong>  | No alarm system is present in this building |
| <strong>Fire Alarm Zones</strong>        | N/A |
| <strong>Distance to Fire Hydrant (Approx.)</strong> | 0.5 Mile |
| <strong>Distance to Fire Station (Approx.)</strong> | 0.5 Mile |
| <strong>Fire Wall (Y/N)</strong>         | No |
| <strong>Security Alarms</strong>         | No |</p>
<table>
<thead>
<tr>
<th>Client</th>
<th>North Slope Borough</th>
<th>Subject Description</th>
<th>South Pad Shop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal Location</td>
<td>Lt 2 South Pad, Plat 87-6</td>
<td>Tax ID #</td>
<td>R-001-501-03</td>
</tr>
<tr>
<td>City</td>
<td>Barrow</td>
<td>Zip Code</td>
<td>99723</td>
</tr>
</tbody>
</table>

Front View

Rear View

Street View
The North Slope Borough (Borough) supervises and maintains Petroleum, Oil, Lubricant (POL) / fuel storage and supply activities within all communities, including Service Area (SA) 10, in the North Slope of Alaska. Secondary containment requirements pertaining to the Borough's fuel infrastructure are detailed in 40 CFR 264.175 and 40 CFR 264.193 and overseen by the U.S. Environmental Protection Agency (EPA). In February 2020, the Borough received a Notice of Enforcement Action from the U.S. Department of Justice (DoJ) on behalf of the EPA citing violation of federal containment requirements. In December 2020, the DOJ and EPA ordered the Borough to address POL containment issues within each community.

This project will encompass installation, modification or reconstruction of known POL tank containment deficiencies in the Borough's communities and SA-10. As of 2016 the following number of tank containment deficiencies were identified. Additional field reconnaissance is occurring in summer 2021 through separate contracting mechanism, which may amend the identified containment deficiency locations.

- Anaktuvuk Pass - 17 locations;  
- Atqasuk - 18 locations;  
- Kaktovik - 16 locations;  
- Nuiqsut - 14 locations;  
- Point Hope - 15 locations;  
- Point Lay - 7 locations;  
- Service Area 10 (Deadhorse / Prudhoe Bay) - 9 locations;  
- Utqiagvik - 18 locations;  
- Wainwright - 10 locations;

This project will involve the purchase, transport, installation and reconstruction activities necessary at the identified locations to ensure regulatory compliance. Recommended actions to address the deficiencies are in Sections 3.2-3.11 of the attached 2016 PAR Small Tank Compliance Upgrade report by Ch2M. This project will span a 2-3 summer field construction seasons.

4. PROJECT LOCATION:

- Anaktuvuk Pass;  
- Atqasuk;  
- Kaktovik;  
- Nuiqsut;  
- Point Hope;  
- Point Lay;  
- Service Area 10 (Deadhorse / Prudhoe Bay);  
- Utqiagvik and Wainwright
5. DOLLAR $ AMOUNT OF THIS REQUEST: Indicate the dollar $ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

$5,323,049 for full design and construction contract. It will take 3 years for full design and construction activities to be complete. Full funding is preferred over incremental funding, as it will be cost effective for the project.

6. PROJECT COST: Complete the project cost table below as completely as possible.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost (actual cost, PAR estimate, vendor quote)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable Pre-Project Costs (PAR, other studies or reports, etc.)</td>
<td>2016 PAR completed. Summer 2021 field activities done by other contracting means.</td>
<td>2016 PAR Costs with annual inflation adjustment</td>
<td>$--</td>
</tr>
<tr>
<td>Professional Services (Design, legal, other)</td>
<td>Design, bidding / construction support</td>
<td>2016 PAR Costs with 3.5% inflation/year for 5 years</td>
<td>$499,696</td>
</tr>
<tr>
<td>Construction / Acquisition (anticipated costs)</td>
<td>Assumes construction activities in all communities under one project</td>
<td>2016 PAR Costs with 3.5% inflation/year for 5 years</td>
<td>$3,705,058</td>
</tr>
<tr>
<td>Administration (NSB project management)</td>
<td>Borough CIP (10%)</td>
<td>2016 PAR Costs with 3.5% inflation/year for 5 years</td>
<td>$421,998</td>
</tr>
<tr>
<td>Contingency (if not included in other line items)</td>
<td>2016 PAR assumes 3.5% increase / year increase &amp; 15% contingency</td>
<td>2016 PAR Costs with 3.5% inflation/year for 5 years</td>
<td>$696,297</td>
</tr>
<tr>
<td>Other Costs (with description)</td>
<td>Borough staff cost for installation of bulk drum containment basins</td>
<td>2016 PAR assumes Borough staff provide drum containment</td>
<td>$ Unknown</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$5,323,049</strong></td>
</tr>
</tbody>
</table>

TOTAL PROJECT COST (if different) $-

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☐ No ☒ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

Addressing containment deficiencies is part of a DOJ / EPA and Borough regulatory violation settlement. Early funding to secure resources needed is required to mitigate against additional regulatory fines. Requested early funding of $499,696 so that design work can begin immediately to avoid project delays and agency fines. If project is partially funded, bids to

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☐ No ☒ Yes

If yes, indicate name and CIP project number: CIPM Project No. 68041 (Small Tank Compliance Upgrades)

A. If this is a new request, indicate below whether this project could be phased and over how many years.

New request.

Project could be phased, but multiple bids and multiple contractors will raise project costs by approximately 20%. Construction phasing would last 3 years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Anaktuvuk Pass: $821,642; Atqasuk: $895,480; Kaktovik: $622,989; Nuiqsut: $669,821; Point Hope: $525,965, Point Lay: $412,806; Utqiagvik: $551,568; Wainwright: $495,406; SA-10: $327,372

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

It is not a phased project. To save money, the project would be bid as one project, with a 3-year construction period. Phasing would require additional funding.
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?

10. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Ensuring intact and appropriate secondary containment on Borough fuel infrastructure will help keep fuel spills and their impacts away from the community and protect residents from the impact of fuel spills and contamination.

This project will address POL tank containment deficiencies identified in 2016. This project will serve to address the known 125 violations throughout the communities, achieve regulatory compliance and mitigate non-compliance fines / penalties.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Minor increase in facilities footprint is expected through the installation of appropriate secondary containment features at identified locations. This project will assist in increasing the health and safety of residents by mitigating against spills entering the community.

C. Indicate if this is a reoccurring upgrade or repair.

Installation of appropriate secondary containment anticipated to be one time event.

Maintenance of installed secondary containment will be a routine maintenance items undertaken by Department of Public Works staff or supporting entities.

D. Detail outside funds being leveraged, if applicable.

No outside funds are being leveraged. Because this project is under violation orders, the enforcement outside federal funds are not available to fund improvements.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☑ Yes  (If yes, include written verification)

February 2020, the Borough received a Notice of Enforcement Action from the DoJ on behalf of the EPA citing violation of federal containment requirements. In December 2020, the DOJ and EPA ordered the Borough to address POL containment issues within each community through local Consent Decree process. The Borough Mayor, CAO, Law Department, Public Works, and other Borough staff have collaborated to develop a series of projects to address the violations.

A notice of violation and enforcement action has caused this project to be very important. Additional fines will be levied if the project is not complete.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☐ No  ☑ Yes  (If yes, include written verification)

Project addresses significant past non compliance items that have the potential for failure of Borough tank infrastructure within the communities which could cause health and environmental damage.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☑ Yes  (If yes, include written verification)

Project addresses non compliance’s that have the potential for failure of Borough tank infrastructure and containment mechanisms. Structural failure of tank infrastructure and lack of containment would cause health, environmental damage.
PROJECT NAME: Areawide Petroleum, Oil, Lubricant Containment Upgrades

LOCATION: Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ Yes ☐ No (If yes, include written verification)

Explanation, if necessary:

Installation of appropriate and needed containment on the Borough’s POL infrastructure in the time frame stipulated by the DOJ/EPA will avoid additional fines and penalties, that are accumulated per day, per individual non compliance.

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

☐ No ☐ Yes If yes, indicate PAR name and date: June 2016, Small Tank Compliance Updates, Project No. 68041

Attach a copy of an executive summary, if possible

13. ATTACHMENTS: List any supplemental information submitted with this request.

Complete PAR attached.

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

15. REQUESTOR INFORMATION:

Requestor Name and Title: Joe Ramiriez, Division Program Manager, Department of Public Works

Signature: Date:

Department Director Name: Scott Danner, Director of Public Works

Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
MEMORANDUM

1-16-21

TO: SCOTT K. DANNER, DIRECTOR, DEPARTMENT OF PUBLIC WORKS

FROM: JOE RAMIREZ, DIVISION PROGRAM MANAGER DEPARTMENT OF PUBLIC WORKS

SUBJECT: DOJ CONSENT DECREE AND SECONDARY CONTAINMENT PLAN ADVISORY

The Consent Decree we have met to discuss with the Borough Administration and Borough Consultants has among many requirements, identified the need for the Borough to install secondary containment area wide for all fuels storage tanks out of compliance. The decree allows 300 days for installation after receiving approval. Following Borough protocols for accomplishing such a project, construction of this nature would be deemed a Capital Project subject to the annual Project Request process, and through PRC approvals that begin in February of each year.

<table>
<thead>
<tr>
<th>Community</th>
<th>Facilities Subject to SPCC Regulations</th>
<th>Containers with Inadequate or No Secondary Containment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaktuvuk Pass</td>
<td>9</td>
<td>651 drums, 14 tanks</td>
</tr>
<tr>
<td>Atqasuk</td>
<td>9</td>
<td>459 drums, 17 tanks</td>
</tr>
<tr>
<td>Utqiagvik</td>
<td>7</td>
<td>607 drums, 15 tanks</td>
</tr>
<tr>
<td>Kaktovik</td>
<td>9</td>
<td>251 drums, 14 tanks</td>
</tr>
<tr>
<td>Nuiqsut</td>
<td>8</td>
<td>497 drums, 12 tanks</td>
</tr>
<tr>
<td>Point Hope</td>
<td>9</td>
<td>872 drums, 14 tanks</td>
</tr>
<tr>
<td>Point Lay</td>
<td>10</td>
<td>412 drums, 6 tanks</td>
</tr>
<tr>
<td>Wainwright</td>
<td>7</td>
<td>411 drums, 9 tanks</td>
</tr>
<tr>
<td>Prudhoe Bay</td>
<td>1</td>
<td>10 drums, 3 tanks</td>
</tr>
<tr>
<td>Deadhorse</td>
<td>1</td>
<td>22 drums, 7 tanks</td>
</tr>
</tbody>
</table>

If approved by the PRC in April 2021, Mayor approval and Assembly action would become the final stage of the process in June. Once the PRC process is complete, a waiting period of 1 year to receive funds would be required as funding for this next Capital funding cycle is dependent on the December 2021 Bond sale. Such due process exceeds the ominous 300-day installation requirement as actual funds would not become available until January 2022 to facilitate soliciting for the services of a Design Engineer Group or General Contractor to deliver the project, and most likely would not see completion until 2023.

It was brought to my attention by Jacobs Technology, that in 2016 CH2M-Hill (a subsidiary of Jacobs) produced a Small Tank Upgrades Project Analysis Report (PAR) for CIPM in 2016. Note tank replacements for deficient vessels were recommended. The conclusion resulted in a project estimate of $4,391,000.00 in 2016. It is not known why Project Requests were not submitted in a joint effort by Public Works and CIPM to seek 2017 PRC approvals for the construction utilizing PAR recommendations. Now 5 years later, that cost may be escalated to $5,200,000.00 to include a contingency for unforeseen conditions.
One may reasonably conclude the 300-day Consent Decree installation requirement cannot be met based on Bureaucratic due process. The Department of Public Works absent other solutions at this point may find an avenue to advance delivery by submittal of a Request for Early Funding by Letter of Intent through A&F and to the PRC immediately.

This process for mitigating all Consent Decree Requirements over the next several years will require the Borough to call upon all its forces. While the Law Department and Public Works began the process of review to develop a strategy with its Consultants, recently Risk Management personnel have been incorporated to provide environmental cleanup support. Due to the Department of CIPM being fully staffed with about 15 experienced project management personnel, I recommend CIPM who developed the Small Tank Upgrades PAR in 2016 to complete the project and provide the resources to solicit bids for a general contractor in a design and build delivery utilizing CH2M-Hill PAR recommendations as soon as funds are approved for use. Consent Decree references are provided on following pages for reference. The 2016 PAR is also attached.

A. Installation of Secondary Containment

1. Within 60 Days after receiving EPA’s Notice of Completion of Review for the SPCC Inventories provided pursuant to Section VIII (Review of Deliverables) of this Consent Decree, Defendant shall submit to EPA for review a plan, certified by a Professional Engineer, that addresses each BST and MOSC storage area without adequate Sized Secondary Containment, as required by 40 C.F.R. Part 112 and identified in the SPCC Inventories (“Secondary Containment Plan”). The Secondary Containment Plan is subject to Section VIII (Review of Deliverables), and shall be submitted to the Auditor pursuant to Paragraph 95, and to EPA and DOJ in accordance with Section XVI (Notices).

2. The Secondary Containment Plan shall:

   a. identify each BST and MOSC storage area without adequate Sized Secondary Containment that Defendant will continue to operate and prepare a plan for providing adequate Sized Secondary Containment that includes: (1) capacity calculations and construction material of the new Sized Secondary Containment; (2) the date of the proposed installation; (3) the name and contact information of the contractor that will perform the installation; and (4) the rationale for Defendant’s determination that the proposed Sized Secondary Containment is sufficiently impervious to oil;

   a. identify any BST that Defendant will replace and prepare a plan for adequate Sized Secondary
Containment for the new BST that includes: (1) the capacity of the new BST; (2) the capacity calculations and construction material of the new Sized Secondary Containment; (3) the proposed date of installation; (4) the name and contact information of the contractor that will perform the installation; and (5) the rationale for Defendant’s determination that the proposed Sized Secondary Containment is sufficiently impervious to oil;

b. identify each BST without adequate Sized Secondary Containment that Defendant will no longer operate and provide a plan for removal or closure, including: (1) the name of the employees or contractor that will perform the removal or closure; (2) the dates of removal or closure; and (3) if Defendant elects to permanently close the BST, a description of how Defendant will comply with the permanent closure requirements in 40 C.F.R. § 112.2; and

c. identify each MOSC storage area without adequate Sized Secondary Containment that Defendant will no longer operate and describe a plan to relocate or dispose of the MOSCs in that storage area.

3. The Secondary Containment Plan shall also include a schedule for installing adequate Sized Secondary Containment for each BST and MOSC storage area identified in Paragraphs 35.a and b. All Sized Secondary Containment that Defendant is required to install shall be scheduled to be completed between 75 and 300 Days of Defendant’s submission of the Secondary Containment Plan. The installation schedule shall prioritize the installation of Sized Secondary Containment for BSTs and MOSC storage areas presenting the highest risk of harm based on an analysis of the following factors: (1) the proximity of the BST or MOSC storage area to waters of the United States; (2) the difference between the capacity of Sized Secondary Containment required by 40 C.F.R. § 112.8(c)(2) and (11) and the capacity of existing Sized Secondary Containment; (3) the volume of the BST or MOSC storage area; (4) the number of MOSCs in a particular storage area; and (5) the date of the most recent FII and FEI of the BST, if applicable.
1. After Defendant receives EPA’s Notice of Completion of Review of the Secondary Containment Plan, it shall implement the Secondary Containment Plan by the dates set forth therein, in accordance with good engineering practice and applicable industry standards.

2. Within 30 Days of completion of implementation of the Secondary Containment Plan, Defendant shall submit to EPA for review a Secondary Containment Final Report, in which Defendant shall summarize each action taken to ensure compliance with the requirements of Paragraphs 35 and 37 of this Consent Decree and the secondary containment requirements in 40 C.F.R. Part 112, including the general secondary containment requirements in 40 C.F.R. § 112.7(c). The Secondary Containment Plan Final Report is subject to Section VIII (Review of Deliverables) and shall be submitted to the Auditor pursuant to Paragraph 95, and to EPA and DOJ in accordance with Section XVI (Notices).
Small Tank Compliance Upgrades
North Slope Borough
Project No. 68041

June 2016

Prepared for

Prepared by
Executive Summary

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  2.5.1 Community .............................................................................................................. 2-5
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2.8 Point Lay .......................................................................................................................... 2-8
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Acknowledgments

Client

• North Slope Borough
• Capital Improvement Project Management Department
  – Bernadette Fisher, Program Manager
  – Meryl Guevara, Project Administrator
• Fuel Division
  – Jozieta Slatton, Project Administrator

Consultant Team

• CH2M
  – Ian Van Blankenstein, P.E., Project Manager
  – Katie Winter, P.E., Project Engineer
  – Kelly Sobczak, P.E., Project Engineer

Special thanks to all the individuals who assisted the team during site visits to each of the communities. Their knowledge of the history of the tanks and their operation was invaluable:

Cover Photograph

Damaged Diesel Storage Tank Containment at Wainwright, Alaska
## Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAC</td>
<td>Alaska Administrative Code</td>
</tr>
<tr>
<td>ADEC</td>
<td>Alaska Department of Environmental Conservation</td>
</tr>
<tr>
<td>AST</td>
<td>Aboveground Storage Tank</td>
</tr>
<tr>
<td>CIPM</td>
<td>Capital Improvement Program Management</td>
</tr>
<tr>
<td>CY</td>
<td>cubic yards</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>HDPE</td>
<td>high density polyethylene</td>
</tr>
<tr>
<td>HEMF</td>
<td>Heavy Equipment Maintenance Facility</td>
</tr>
<tr>
<td>NSB</td>
<td>North Slope Borough</td>
</tr>
<tr>
<td>PAR</td>
<td>Project Analysis Report</td>
</tr>
<tr>
<td>PE</td>
<td>Professional Engineer</td>
</tr>
<tr>
<td>SF</td>
<td>square feet</td>
</tr>
</tbody>
</table>
Executive Summary

This Project Analysis Report (PAR) documents the small fuel or oil (fuel) tank containment investigations in the North Slope Borough (NSB) communities of Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Point Lay, Wainwright, and the industrial complexes in Service Area 10 (Deadhorse and Prudhoe Bay). The project was undertaken by a CH2M team with support from the NSB Capital Improvement Program Management (CIPM).

The report sections describe existing conditions at each tank visited, document engineering conclusions and recommendations for tank upgrades, and provide an estimated cost for accomplishing design and construction work.

The following conclusions and recommendations are presented based on the site visits to the NSB communities of Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Point Lay, Wainwright, and Service Area 10 and the results documented in this report:

- The following number of tank deficiencies were documented in each village:
  - Anaktuvuk Pass – 17
  - Atqasuk – 18
  - Barrow – 18
  - Kaktovik – 16
  - Nuiqsut – 14
  - Point Hope - 15
  - Point Lay - 7
  - Wainwright – 10
  - Service Area 10 (Deadhorse/Prudhoe Bay) – 9

- CH2M recommends that the upgrades be accomplished as a single design/bid/construct project for all villages. If it is desired to construct the upgrades for each village separately, the estimated total cost for all phases of the project would increase by about $800,000 or 17% of the single project cost.

- The estimated total project cost for upgrading the nine communities addressed in this PAR is $4,391,000 for completion in 2017. A summary of the costs for each community is shown in Table 1-1. Detailed construction costs are provided in Section 4 and Appendix D.
<table>
<thead>
<tr>
<th>Village</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaktuvuk Pass</td>
<td>$678,000</td>
</tr>
<tr>
<td>Atqasuk</td>
<td>$739,000</td>
</tr>
<tr>
<td>Barrow</td>
<td>$455,000</td>
</tr>
<tr>
<td>Kaktovik</td>
<td>$514,000</td>
</tr>
<tr>
<td>Nuiqsut</td>
<td>$552,000</td>
</tr>
<tr>
<td>Point Hope</td>
<td>$434,000</td>
</tr>
<tr>
<td>Point Lay</td>
<td>$340,000</td>
</tr>
<tr>
<td>Wainwright</td>
<td>$409,000</td>
</tr>
<tr>
<td>Service Area 10</td>
<td>$270,000</td>
</tr>
<tr>
<td>(Deadhorse/Prudhoe Bay)</td>
<td></td>
</tr>
<tr>
<td>Overall Project Cost</td>
<td>$4,391,000</td>
</tr>
</tbody>
</table>
SECTION 1

Introduction

This PAR documents the small fuel storage tanks and associated secondary containment investigation conducted at various community facilities located in the NSB communities of Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Point Hope, Point Lay, Nuiqsut, and Wainwright, and Service Area 10 (Deadhorse and Prudhoe Bay). Recommendations for small fuel storage tanks and their containment are provided. The project was undertaken by a CH2M team with support from the NSB CIPM.

1.1 Purpose of the Document

This report was prepared in response to the NSB CIPM Request for Proposal requirement for developing a PAR addressing small fuel storage tanks upgrades in the communities mentioned above. The findings and recommendations included in this report are intended to form a basis for decision-making by appropriate NSB staff.

1.2 Goal of the Project

A recent Spill Prevention Contingency and Countermeasure Plan (SPCC) update for the NSB revealed that many of the single walled tanks used for petroleum products have no containment or insufficient containment to comply with Environmental Protection Agency (EPA) and State of Alaska regulations. Also, some existing double wall tanks were found to have some deficiencies. The goal of the project are to develop a PAR that addresses each tank’s existing condition and recommends upgrades and their associated costs.

1.3 Report Layout

The report is presented in six sections: Introduction (this section), Existing Facility, Engineering Considerations, Cost Considerations, Conclusions and Recommendations, and Works Cited.

1.3.1 Existing Facility

CH2M’s PAR team visited each community to view the tank facilities and met with NSB personnel to catalog existing conditions.

1.3.2 Engineering Considerations

In this section, conclusions are drawn and recommendations are made relating to tank upgrades.

1.3.3 Cost Considerations

This section presents the results of the cost estimate for the proposed tank upgrades. Appendix D documents the construction cost estimate detail.

1.3.4 Conclusions and Recommendations

This section provides concluding remarks and summarizes some of the major recommendations resulting from the fuel tank site visits and PAR tasks.

1.3.5 Works Cited

This section lists reports and publications referred to during the preparation of this report.
1.3.6 Appendices

The PAR sections summarize essential information to allow quick comprehension of the project scope. The appendices contain backup information that support the PAR sections. The appendices are as follows:

- Appendix A, SPCC Tank Summary
- Appendix B, Tank Summary
- Appendix C, Manufacturers’ Literature
- Appendix D, Construction Cost Estimate
## Existing Small Storage Tank Facilities

### 2.1 Introduction

The NSB supervises and maintains miscellaneous small fuel storage tanks at multiple facilities in Barrow, Service Area 10, and all seven North Slope villages. The tanks store diesel fuel, lube oil and other vehicle fluids, and used oil. This PAR addresses the secondary containment deficiencies identified for each tank.

### 2.2 Anaktuvuk Pass

#### 2.2.1 Community

The Village of Anaktuvuk Pass has 388 residents, according to the NSB website. It is located at 2,200-foot elevation on the divide between the Anaktuvuk and John rivers in the central Brooks Range, about 250 miles southeast of Barrow.

#### 2.2.2 Fuel Storage Tanks

Table 2-1 below summarizes the tanks reviewed in Anaktuvuk Pass and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Inadequate Containment Integrity</th>
<th>Inadequate Containment Capacity</th>
<th>No Containment</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Clinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-15 - 6,000 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-37 - 300 gallon diesel day tank</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy Equipment Maintenance Facility (HEMF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-51 - 120 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-52 - 250 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum storage areas, lube/used oil</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Plant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-43 - 750 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-47 - 280 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum storage areas, lube/used oil</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School - Teacher Housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-53 - 500 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-54 - 500 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 2.3 Atqasuk

#### 2.3.1 Community

The Village of Atqasuk has a population of 268, according to the NSB website. It is located on the Meade River, 60 miles south of Barrow.

#### 2.3.2 Fuel Storage Tanks

Table 2-2 below summarizes the tanks reviewed in Atqasuk and the deficiencies identified in the SPCC Plan:

#### Table 2-1 Anaktuvuk Pass Small Storage Tanks

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inadequate Containment Integrity</td>
</tr>
<tr>
<td>Sewage Treatment Plant</td>
<td></td>
</tr>
<tr>
<td>AKP-44 – 1,200 gallon diesel tank</td>
<td></td>
</tr>
<tr>
<td>Drum storage areas, lube/used oil</td>
<td></td>
</tr>
<tr>
<td>USDW</td>
<td></td>
</tr>
<tr>
<td>AKP-49 – 110 gallon diesel day tank</td>
<td></td>
</tr>
<tr>
<td>AKP-50 – 300 gallon diesel day tank</td>
<td></td>
</tr>
<tr>
<td>Warm Storage Building</td>
<td></td>
</tr>
<tr>
<td>AKP-57 – 500 gallon diesel day tank</td>
<td></td>
</tr>
<tr>
<td>Water Treatment Plant</td>
<td></td>
</tr>
<tr>
<td>AKP-38 – 1,200 gallon diesel tank</td>
<td></td>
</tr>
<tr>
<td>AKP-39 – 300 gallon diesel day tank</td>
<td></td>
</tr>
</tbody>
</table>

Photograph 2
Atqasuk School Garage Diesel Tank (ATQ-69)
### Table 2-2 Atqasuk Small Storage Tanks

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
<th>Inadequate Containment Integrity</th>
<th>Inadequate Containment Capacity</th>
<th>No Containment</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Clinic</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-48 – 325 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Heavy Equipment Maintenance Facility/O&amp;M (HEMF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-60A – 100 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-64 – 250 gallon used oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-65 – 120 gallon used oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-66 – 250 gallon used oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Drum storage areas</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-46 – 400 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-69 – 275 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>USDW</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-67 – 250 gallon lube oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-68 – 250 gallon lube oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-45A – 275 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-45B – 100 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Water Utility Building</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-54 – 100 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-55 – 500 gallon diesel day</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Power Plant</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-56 – 350 gallon diesel day tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-61 – 250 gallon used oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-62 – 275 gallon lube oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ATQ-63 – 250 gallon lube oil tank</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
2.4 Barrow

2.4.1 Community

Barrow was incorporated as a first-class city in 1959. Barrow has a population of 4,974, according to the NSB website. Barrow is the northernmost community in the United States and is located on the Chukchi Sea coast.

2.4.2 Fuel Storage Tanks

Table 2-3 below summarizes the tanks reviewed in Barrow and the deficiencies identified in the SPCC Plan:

**Table 2-3 Barrow Small Storage Tanks**

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inadequate Containment Integrity</td>
</tr>
<tr>
<td>High School</td>
<td></td>
</tr>
<tr>
<td>BRW-17 – 300 gallon diesel intermediate tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-19 – 75 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>Public Works Transit Shop</td>
<td></td>
</tr>
<tr>
<td>BRW-29 – 350 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-30 – 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>School Bus Barn</td>
<td></td>
</tr>
<tr>
<td>BRW-37 – 110 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-38 – 110 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-39 – 220 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-40 – 220 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Search and Rescue</td>
<td></td>
</tr>
<tr>
<td>BRW-27 – 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Shops</td>
<td></td>
</tr>
<tr>
<td>BRW-45 – Shop #1 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-46 – Shop #2 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-47 – Shop #2 250 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-48 – Shop #2 250 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Drum storage areas</td>
<td></td>
</tr>
<tr>
<td>South Field</td>
<td></td>
</tr>
<tr>
<td>BRW-47 – 140 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>BRW-48 – 140 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Drum storage areas</td>
<td></td>
</tr>
<tr>
<td>TOS Shop</td>
<td></td>
</tr>
<tr>
<td>Drum storage areas</td>
<td></td>
</tr>
</tbody>
</table>
2.5 Kaktovik

2.5.1 Community
The Village of Kaktovik has a population of 308, according to the NSB website. It lies on the north shore of Barter Island, between the Okpilak and Jago rivers on the Beaufort Sea coast and 280 miles southeast of Barrow.

2.5.2 Fuel Storage Tanks
Table 2-4 below summarizes the tanks reviewed in Kaktovik and the deficiencies identified in the SPCC Plan:

| Tank Location | Tank Deficiency | | |
|---------------|-----------------|---|---|---|
|               | Inadequate Containment Integrity | Inadequate Containment Capacity | No Containment | Other |
| Power Plant   |                 |                             |               |       |
| KAK-67 – 275 gallon lube oil tank |                     |                             | X            |       |
| KAK-68 – 195 gallon used oil tank |                     |                             | X            |       |
| School        |                 |                             |               |       |
| KAK-59 – 400 gallon diesel day tank |                     | X                           |               |       |
| KAK-62 – 275 gallon housing diesel tank |                     | X                           |               |       |
| KAK-63 – 275 gallon housing diesel tank |                     | X                           |               |       |
| KAK-64 – 250 gallon housing diesel tank |                     | X                           |               |       |
| KAK-65 – 250 gallon housing diesel tank |                     | X                           |               |       |
| KAK-66 – 300 gallon garage diesel tank |                     | X                           |               |       |
| USDW & Heavy Equipment Maintenance Facility (HEMF) | Level gauge | Level gauge | Level gauge | Level gauge |
| KAK-70 – 5,000 gallon diesel dispensing tank |                     |                             |               |       |
| KAK-53 – 350 gallon used oil tank |                     | X                           |               |       |
| KAK-73 – 250 gallon used oil tank |                     | X                           |               |       |
| KAK-74 – 250 gallon used oil tank |                     | X                           |               |       |
| KAK-75 – 250 gallon lube oil tank |                     | X                           |               |       |
| KAK-76 – 250 gallon lube oil tank |                     | X                           |               |       |
| KAK-77 – 1,500 gallon used oil tank |                     |                             |               |       |
| Drum storage areas |                 |                             | X            |       |

Photograph 4
Kaktovik Lube Oil Tanks (KAK-75 & 76) and Drums
2.6 Nuiqsut

2.6.1 Community

The Village of Nuiqsut has a population of 415, according to the NSB website. It is located on the Nechelik Channel in the Colville River Delta, 35 miles from the Beaufort Sea coast and 150 miles southeast of Barrow.

2.6.2 Fuel Storage Tanks

Table 2-5 below summarizes the tanks reviewed in Nuiqsut and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
<th>Inadequate Containment Integrity</th>
<th>Inadequate Containment Capacity</th>
<th>No Containment</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Clinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-32 – 275 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-39 – 55 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Plant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-46 – 275 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-47 – 275 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-48 – 200 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum storage areas</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USDW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-42 – 100 gallon generator diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-43 – 325 gallon boiler diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy Equipment Maintenance Facility (HEMF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-44 – 100 gallon heater diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-49 – 250 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-50 – 120 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-51 – 100 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-52 – 100 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum storage areas</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.7 Point Hope

2.7.1 Community
The Village of Point Hope consists of 831 residents, according to the NSB website. It is located at the tip of Point Hope peninsula in the Chukchi Sea, about 330 miles southwest of Barrow.

2.7.2 Fuel Storage Tanks
Table 2-6 below summarizes the tanks reviewed in Point Hope and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inadequate Containment Integrity</td>
</tr>
<tr>
<td>Heavy Equipment Maintenance Facility (HEMF)</td>
<td></td>
</tr>
<tr>
<td>PHO-63 – 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Power Plant</td>
<td></td>
</tr>
<tr>
<td>PHO-51 – 550 gallon diesel day tank (needs alarm)</td>
<td>Alarm</td>
</tr>
<tr>
<td>PHO-52 – 330 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-58 – 120 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-59 – 270 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>School</td>
<td></td>
</tr>
<tr>
<td>PHO-50 – 100 gallon generator day tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-64 – 500 gallon garage diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-65 – 300 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-66 – 500 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-67 – 500 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-68 – 500 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-69 – 500 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>USDW</td>
<td></td>
</tr>
<tr>
<td>PHO-56 – 100 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>PHO-58 – 250 gallon used oil tank</td>
<td>X</td>
</tr>
</tbody>
</table>

Table 2-6 Point Hope Small Storage Tanks

Photograph 6
Point Hope School Teacher Housing Tank
2.8 Point Lay

2.8.1 Community

The Village of Point Lay consists of 274 residents, according to the NSB website. It is located south of the Kokolik River, about 300 miles southwest of Barrow. Point Lay is protected from the Chukchi Sea by the Kasugaluk Lagoon.

2.8.2 Fuel Storage Tanks

Table 2-7 below summarizes the tanks reviewed in Point Lay and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
<th>Inadequate Containment Integrity</th>
<th>Inadequate Containment Capacity</th>
<th>No Containment</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cully Camp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIZ-59 – 1,900 gallon diesel day tank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Level gauge</td>
</tr>
<tr>
<td>PIZ-60 – 55 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPW and Warm Storage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIZ-62 – 250 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum storage areas</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Clinic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIZ-46 – 325 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy Equipment Maintenance Facility (HEMF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIZ-66 – 500 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIZ-67 – 250 gallon used oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Photograph 7
Point Lay Health Clinic Day Tank (PIZ-46)
2.9 Wainwright

2.9.1 Community

The Village of Wainwright has a population of 546, according to the NSB website. It is located on the coast of the Chukchi Sea, 85 miles southwest of Barrow.

2.9.2 Fuel Storage Tanks

Table 2-8 below summarizes the tanks reviewed in Wainwright and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inadequate Containment Integrity</td>
</tr>
<tr>
<td>Vehicle Maintenance Facility</td>
<td></td>
</tr>
<tr>
<td>AIN-86 – 105 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>AIN-87 – 300 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>AIN-101 – 120 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>AIN-102 – 250 gallon used oil tank</td>
<td>X</td>
</tr>
<tr>
<td>Drum storage areas</td>
<td></td>
</tr>
<tr>
<td>Power Plant</td>
<td></td>
</tr>
<tr>
<td>AIN-100 – 275 gallon lube oil tank</td>
<td>X</td>
</tr>
<tr>
<td>School</td>
<td></td>
</tr>
<tr>
<td>AIN-97 – 75 gallon diesel day tank</td>
<td>X</td>
</tr>
<tr>
<td>AIN-98 – 550 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>AIN-99 – 550 gallon housing diesel tank</td>
<td>X</td>
</tr>
<tr>
<td>Sewage Treatment Plant</td>
<td></td>
</tr>
<tr>
<td>AIN-90 – 100 gallon diesel day tank</td>
<td>X</td>
</tr>
</tbody>
</table>
2.10 Service Area 10

2.10.1 Community

Service Area 10 consists of the facilities in Deadhorse, Alaska and Prudhoe Bay. The facilities primarily serve the oil field employees and support services. The population can vary widely throughout the year. It is located on the coast of the Beaufort Sea, 200 miles southeast of Barrow.

2.10.2 Fuel Storage Tanks

Table 2-9 below summarizes the tanks reviewed in Service Area 10 and the deficiencies identified in the SPCC Plan:

<table>
<thead>
<tr>
<th>Tank Location</th>
<th>Tank Deficiency</th>
<th>Inadequate Containment Integrity</th>
<th>Inadequate Containment Capacity</th>
<th>No Containment</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water/Wastewater Plant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-2 – 300 gallon diesel day tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle Maintenance Shop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-4 – 250 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-5 – 250 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-6 – 250 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-7 – 250 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10-8 – 250 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxbow Landfill</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBL-4 – 300 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBL-5 – 300 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBL-6 – 300 gallon lube oil tank</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Photograph 9
Service Area 10 Vehicle Maintenance Shop Lube Oil Tanks
3.1 Introduction

Engineering considerations described in this section included sustainability, safety and protection of human health, compliance with applicable regulations, and effects on the environment.

3.1.1 Compliance

Aboveground Storage Tanks (ASTs) are regulated by many different agencies. Table 3-1 below provides a summary.

<table>
<thead>
<tr>
<th>Facility Storage Capacity</th>
<th>Regulating Authority</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;420,000 gallons refined product or &gt;210,000 gallons crude oil</td>
<td>ADEC (18 AAC 75)</td>
<td>Prepare and submit oil discharge prevention and contingency plan</td>
</tr>
<tr>
<td>Between 1,320 gallons and 420,000 gallons (in 55 gallon or larger containers)</td>
<td>EPA (40 CFR 112)</td>
<td>• SPCC Plan prepared (for those &gt;10,000 gallons, signed by a registered PE) • Personnel training in spill prevention, and also containment, removal and disposal of spilled oil. • Inspection and maintenance program. • Proper selection and construction of spill prevention systems, including dikes, liners, pumps, absorbent boom, etc.</td>
</tr>
<tr>
<td>Transfer petroleum product to or from a marine vessel with a capacity of 10,500 gallons (250 barrels) or more</td>
<td>US Coast Guard (33 CFR 154)</td>
<td>• Submission of a Letter of Intent to Operate. • Submission and approval of an Operations Manual and a Facility Response Plan. • Facility operations must include procedures and equipment for fuel delivery from vessel (barge), including: designated qualified person in charge of the fuel transfer operation; personnel training and response drills, safety requirements, and record keeping</td>
</tr>
<tr>
<td>&lt;1,320 gallons</td>
<td>State Fire Marshal</td>
<td>Building codes, installation regulations and procedures for closing tanks involving flammable and/or combustible substances are adopted by the fire marshal.</td>
</tr>
<tr>
<td>All facilities</td>
<td>ADEC (18 AAC 75.300)</td>
<td>Post DEC contact information (official placard)</td>
</tr>
</tbody>
</table>

In addition, used oil is regulated by EPA at 40 CFR 279. The relevant sections of 40 CFR 279 cover used oil generation and used oil burned for energy recovery, as well as other requirements for commercial handlers who collect, store, transport, and burn used oil from multiple sources.

Used oil generators must:
- Keep storage tanks and containers in good condition
- Label storage tanks and containers with the words, “USED OIL” (the term “WASTE OIL” should not be utilized)
- Clean up any used-oil spills or leaks to the environment immediately
Burning used oil for energy recovery is a primary option for used oil recycling in Alaska. Used oil can be recycled as fuel by burning on-site (i.e., at the site of generation) or at the generators’ or third party’s off-site facilities. The standards for burning used oil in onsite space heaters are straightforward. Generators may burn their own used oil (and/or oil received from household “do-it-yourself” generators) in used oil space heaters rated at less than 500,000-Btu/hr that are vented to the atmosphere. Both on-and off-specification used oil may be burned in space heaters located on the premises where the used oil was generated. There are no management standards associated with on-site generated and burned used oil.

### 3.1.2 Tank Assessments

Tank assessments were conducted in each of the nine locations (8 villages and Service Area 10) and using the SPCC tank list as a starting point for items to be observed. The tanks were located within the community public facilities including the schools, clinics, power plants, water and wastewater plants, and public works buildings.

The existing tanks’ condition were evaluated and improvement recommendations are provided in this PAR.

Tank deficiency summaries are provided with the recommended upgrades and the estimated cost for the upgrade. Costs include contractor general conditions (including mobilization, overhead, profit, and incidentals), 30 percent contingency, and escalation to summer 2017 construction. Costs shown with an “*” are assumed to be carried out using NSB personnel rather than a general contractor. The detailed tank information is provided in Appendix B.

### 3.2 Upgrade options

The recommended the small storage tank containment upgrades can be summarized into the following categories:

- Replace existing tank with double wall tank
- Add secondary containment to existing tank
- Modify existing secondary containment to provide sufficient containment
- Upgrade existing tank with appurtenances such as level gauge or alarms
- Provide drum containment

Each upgrade category is discussed below.
3.2.1 Replace existing tank with double wall tank
It is recommended that new double wall tanks be installed for tanks located outside, tanks in poor condition, or tanks located in tight spaces where installing new secondary containment would be difficult. In some locations, the existing tanks have a small containment basin, but where piping or other appurtenances would be inaccessible, a new double wall tank is also recommended. The new tanks will have level indication.

The process of replacing the existing tank with a new double wall tank will consist of the following steps:

1. Drain and vent the existing single wall tank
2. Disconnect the piping and instrumentation
3. Remove the existing tank from the building. The tanks will be cleaned and prepared for shipment out of the village.
4. Install the new double wall tank
5. Reconnect the piping and instrumentation

3.2.2 Add secondary containment to existing tank
For single wall tanks that have space available around the tank, it is recommended that new containment be installed for the tanks.

The process of installing containment around the tank will consist of the following steps:

1. Drain and vent the existing tank
2. Disconnect the piping and instrumentation
3. Move the existing tank to a temporary location
4. Install the new containment
5. Move the tank into the new containment (in some cases the fourth wall of the containment may need to be welded on with the tank(s) in place
6. Perform leak testing on new containment
7. Reconnect the piping and instrumentation

3.2.3 Modify existing secondary containment to provide sufficient containment
In some cases, the existing containment can be modified with the tank remaining in place.

The process of modifying the existing containment around the tank will consist of the following steps:

1. Drain and vent the existing tank
2. Disconnect the piping and instrumentation impacted by the basin extension
3. Weld the basin extension on the existing containment
4. Perform leak testing on new containment
5. Reconnect the piping and instrumentation

3.2.4 Upgrade existing tanks with appurtenances
Several tanks were found to have sufficient secondary containment but were lacking some required appurtenances such as level gauges. For these tanks, the level gauges should be installed with either a visual level gauge directly on the tank, or with a level display at the location where the person filling the tank will be during filling operations.
3.2.5 Provide drum containment

For the drums located within the village buildings, new pallet containment basins will be provided for the configuration and number of drums required. It is assumed that the NSB will be able to receive and place the new containment basins and that no contractor support will be required for this activity. The costs associated with this work is identified with an ‘*’ in the tables below.

For the bulk drums storage located outside, it is recommended that a lined, earth containment area be constructed to store any drums containing fuel products.

The containment area construction will consist of the following steps:

1. Level and prepare the containment area
2. Excavate approximately 2’ and construct berms approximately 12” above the existing ground. A ramp should be built to allow the drums to be transported in and out of the basin.
3. Place a containment liner over the entire area and anchor on the exterior face of the berms.
4. Place 6” of fill over the liner for protection
5. The basin should be checked for standing water on a regular basis and the water removed and properly disposed, if necessary.

3.3 Anaktuvuk Pass

Table 3-2 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Tank #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AKP-15</td>
<td>Inadequate containment integrity</td>
<td>Repair existing secondary containment area</td>
<td>$20,193</td>
</tr>
<tr>
<td>AKP-37</td>
<td>Inadequate containment capacity</td>
<td>Add on to existing containment basin</td>
<td>$11,316</td>
</tr>
<tr>
<td>AKP-51, AKP-52</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks (one is for oil/water separation, one is for oil burner)</td>
<td>$34,532</td>
</tr>
<tr>
<td>HEMP Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>$3,875</td>
</tr>
<tr>
<td>AKP-43</td>
<td>NSB SPCC Master Plan indicates no secondary containment but AKP-43 has already been replaced with a double wall tank</td>
<td>No upgrade is necessary Update SPCC Master Plan</td>
<td>$0</td>
</tr>
<tr>
<td>AKP-47</td>
<td>No secondary containment</td>
<td>Install secondary containment around tank</td>
<td>$11,706</td>
</tr>
<tr>
<td>PP Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>$969</td>
</tr>
<tr>
<td>AKP-53, AKP-54</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$25,558</td>
</tr>
<tr>
<td>AKP-44</td>
<td>Tank is double walled but does not have a level gauge, which could cause a spill when filling</td>
<td>Provide level gauge and install in view of operator filling tank</td>
<td>$3,609</td>
</tr>
<tr>
<td>WWTP Drums</td>
<td>Drum storage is outside with no secondary containment</td>
<td>Construct lined, earth containment area with ramp for entering the area. Possibly combine with Warm Storage containment.</td>
<td>$30,630</td>
</tr>
<tr>
<td>AKP-49</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$25,460</td>
</tr>
<tr>
<td>AKP-50</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$33,069</td>
</tr>
</tbody>
</table>

Table 3-2 Anaktuvuk Pass Small Tank Deficiencies
Table 3-2 Anaktuvuk Pass Small Tank Deficiencies

<table>
<thead>
<tr>
<th>Tank #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AKP-57</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank. May need a smaller capacity tank to fit in available space.</td>
<td>$35,800</td>
</tr>
<tr>
<td>Warm</td>
<td>Drum storage is outside with no secondary containment</td>
<td>Construct lined, earth containment area with ramp for entering the area. Included in WWTP Drums</td>
<td>$0</td>
</tr>
<tr>
<td>Storage Drums</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AKP-38</td>
<td>Tank is double walled but does not have a level gauge, which could cause a spill when filling</td>
<td>Provide level gauge and install in view of operator filling tank</td>
<td>$3,609</td>
</tr>
<tr>
<td>AKP-39</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$31,898</td>
</tr>
</tbody>
</table>

3.4 Atqasuk

Table 3-3 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

Table 3-3 Atqasuk Small Tank Deficiencies

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATQ-48</td>
<td>Inadequate containment capacity</td>
<td>Add on to existing containment basin</td>
<td>$11,316</td>
</tr>
<tr>
<td>ATQ-60A</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$19,997</td>
</tr>
<tr>
<td>ATQ-64, ATQ-65</td>
<td></td>
<td>Replace with new double wall tanks (one is for oil/water separation, one is for oil burner)</td>
<td>$31,801</td>
</tr>
<tr>
<td>ATQ-66</td>
<td>No secondary containment</td>
<td>Decommission tank and transfer used oil to another facility</td>
<td>$2,731</td>
</tr>
<tr>
<td>Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Indoors: Provide new drum spill containment pallets.</td>
<td>*$3,875</td>
</tr>
<tr>
<td></td>
<td>Drum storage also outside building and appear to be stored on pallets or plywood sheets.</td>
<td>Outside: Construct lined, earth containment area with ramp for entering the area.</td>
<td>$29,460</td>
</tr>
<tr>
<td>ATQ-46</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank.</td>
<td>$22,339</td>
</tr>
<tr>
<td>ATQ-69</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$19,900</td>
</tr>
<tr>
<td>ATQ-70</td>
<td>NSB SPCC Master Plan indicates that secondary containment is sufficient but school plant manager does not agree</td>
<td>Replace with new double wall tank.</td>
<td>$19,900</td>
</tr>
<tr>
<td>ATQ-67, ATQ-68</td>
<td></td>
<td>Decommission tanks</td>
<td>$4,097</td>
</tr>
<tr>
<td>ATQ-45A</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank.</td>
<td>$19,607</td>
</tr>
<tr>
<td>ATQ-45B</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank.</td>
<td>$22,729</td>
</tr>
<tr>
<td>ATQ-54</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank.</td>
<td>$22,729</td>
</tr>
<tr>
<td>ATQ-55</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$37,361</td>
</tr>
<tr>
<td>ATQ-56</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$35,410</td>
</tr>
<tr>
<td>ATQ-61</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$19,412</td>
</tr>
<tr>
<td>ATQ-62</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$19,607</td>
</tr>
<tr>
<td>ATQ-63</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank.</td>
<td>$19,412</td>
</tr>
</tbody>
</table>
3.5 Barrow

Table 3-4 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRW-17</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$21,003</td>
</tr>
<tr>
<td>BRW-19</td>
<td>Inadequate containment integrity</td>
<td>Replace with new 100 gallon double wall tank</td>
<td>$21,945</td>
</tr>
<tr>
<td>BRW-29, BRW-30</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$30,422</td>
</tr>
<tr>
<td>BRW-37, BRW-38, BRW-39, BRW-40</td>
<td>No secondary containment</td>
<td>Install new containment basin around tanks</td>
<td>$36,732</td>
</tr>
<tr>
<td>BRW-27</td>
<td>No secondary containment</td>
<td>Decommission and transfer used oil to another facility</td>
<td>$3,956</td>
</tr>
<tr>
<td>BRW-45</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$19,308</td>
</tr>
<tr>
<td>BRW-46</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$19,308</td>
</tr>
<tr>
<td>BRW-47, BRW-48</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$24,300</td>
</tr>
<tr>
<td>Drums</td>
<td>No secondary containment or inadequate containment capacity, both inside and outside the building</td>
<td>Indoors: Provide new drum spill containment pallets Outside: Construct lined, earth containment area with ramp for entering the area.</td>
<td>*$3,875</td>
</tr>
<tr>
<td>BRW-33, BRW-34</td>
<td>No secondary containment</td>
<td>Install new containment basin around tanks</td>
<td>$27,502</td>
</tr>
<tr>
<td>TOS #3 Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>*$1,938</td>
</tr>
</tbody>
</table>

3.6 Kaktovik

Table 3-5 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAK-67</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,973</td>
</tr>
<tr>
<td>KAK-68</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,583</td>
</tr>
<tr>
<td>KAK-59</td>
<td>Inadequate containment integrity</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>KAK-62, KAK-63, KAK-64, KAK-65</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$42,336</td>
</tr>
<tr>
<td>KAK-66</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$17,754</td>
</tr>
<tr>
<td>KAK-70</td>
<td>Self-diked, needs level gauge</td>
<td>Provide level gauge and install in view of operator filling tank</td>
<td>$3,609</td>
</tr>
<tr>
<td>KAK-53, KAK-73</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$34,532</td>
</tr>
<tr>
<td>KAK-74</td>
<td>This tank was removed from service and is no longer in the building</td>
<td>None</td>
<td>$0</td>
</tr>
<tr>
<td>KAK-75, KAK-76</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$27,899</td>
</tr>
<tr>
<td>KAK-77</td>
<td>Self-diked, needs level gauge</td>
<td>Provide level gauge and install in view of operator filling tank</td>
<td>$3,609</td>
</tr>
<tr>
<td>Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>*$3,875</td>
</tr>
</tbody>
</table>
3.7 Nuiqsut

Table 3-6 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUI-32</td>
<td>Inadequate containment capacity</td>
<td>Add on to existing containment basin</td>
<td>$10,145</td>
</tr>
<tr>
<td>NUI-39</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>NUI-46,</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$29,655</td>
</tr>
<tr>
<td>NUI-47</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-48</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,583</td>
</tr>
<tr>
<td>Drums</td>
<td>Drum storage is outside, on pallets either in</td>
<td>Provide new drum spill containment pallets</td>
<td><strong>$3,875</strong></td>
</tr>
<tr>
<td></td>
<td>conenx or on ground with no secondary containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-42</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>NUI-43</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$21,168</td>
</tr>
<tr>
<td>NUI-44</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>NUI-49,</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$34,532</td>
</tr>
<tr>
<td>NUI-50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUI-51,</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$31,216</td>
</tr>
<tr>
<td>NUI-52,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not noted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEMF Drums</td>
<td>No secondary containment or inadequate containment</td>
<td>Provide new drum spill containment pallets</td>
<td><strong>$3,875</strong></td>
</tr>
<tr>
<td></td>
<td>capacity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.8 Point Hope

Table 3-7 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHO-63</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$23,509</td>
</tr>
<tr>
<td>PHO-51</td>
<td>Double wall tank needs alarm or shutoff</td>
<td>Install alarm or shutoff</td>
<td>$3,609</td>
</tr>
<tr>
<td>PHO-52</td>
<td>*This tank was removed from service and is no</td>
<td>None</td>
<td>$0</td>
</tr>
<tr>
<td></td>
<td>longer in the building*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-58,</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,973</td>
</tr>
<tr>
<td>PHO-59</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,973</td>
</tr>
<tr>
<td>PHO-50</td>
<td>None</td>
<td>No upgrade is necessary</td>
<td>$0</td>
</tr>
<tr>
<td></td>
<td>NSB SPCC Master Plan indicates no secondary</td>
<td>Update SPCC Master Plan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>containment but tank label indicates it has</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>secondary containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-64</td>
<td>None</td>
<td>No upgrade is necessary</td>
<td>$0</td>
</tr>
<tr>
<td></td>
<td>NSB SPCC Master Plan indicates no secondary</td>
<td>Update SPCC Master Plan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>containment but tank label indicates it has</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>secondary containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-65,</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$61,261</td>
</tr>
<tr>
<td>PHO-66,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-67,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-68,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHO-69</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 3-7 Point Hope Small Tank Deficiencies

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHO-56</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>PHO-60</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$23,509</td>
</tr>
<tr>
<td>Drums</td>
<td>Drum storage is outside, on pallets either in conex or on ground with no secondary containment</td>
<td>Provide new drum spill containment pallets</td>
<td>*$3,875</td>
</tr>
</tbody>
</table>

### 3.9 Point Lay

Table 3-8 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIZ-59</td>
<td>Self-diked, needs level gauge</td>
<td>Install level gauge that is visible from the offloading location</td>
<td>$3,609</td>
</tr>
<tr>
<td>PIZ-60</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$20,485</td>
</tr>
<tr>
<td>PIZ-62</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>*$3,875</td>
</tr>
<tr>
<td>PIZ-46</td>
<td>Inadequate containment capacity</td>
<td>Add on to existing containment basin</td>
<td>$10,730</td>
</tr>
<tr>
<td>PIZ-66</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$30,630</td>
</tr>
<tr>
<td>PIZ-67</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$19,997</td>
</tr>
</tbody>
</table>

### 3.10 Wainwright

Table 3-9 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIN-86, AIN-87</td>
<td>Inadequate containment capacity and integrity</td>
<td>Replace with new double wall tanks</td>
<td>$32,971</td>
</tr>
<tr>
<td>AIN-100</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$19,607</td>
</tr>
<tr>
<td>AIN-101, AIN-102</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$34,532</td>
</tr>
<tr>
<td>Drums</td>
<td>No secondary containment or inadequate containment capacity</td>
<td>Provide new drum spill containment pallets</td>
<td>*$3,875</td>
</tr>
<tr>
<td>AIN-97</td>
<td>Inadequate containment capacity</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
<tr>
<td>AIN-98, AIN-99</td>
<td>Inadequate containment integrity</td>
<td>Replace with new double wall tank</td>
<td>$29,070</td>
</tr>
<tr>
<td>AIN-90</td>
<td>No secondary containment</td>
<td>Replace with new double wall tank</td>
<td>$22,729</td>
</tr>
</tbody>
</table>
### 3.11 Service Area 10

Table 3-10 below provides a summary of the deficiencies observed and the recommended improvements and estimated construction cost for each deficiency (not including shipping, and contractor travel/housing allowances).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Deficiency</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>S10-2</td>
<td>Inadequate containment integrity</td>
<td>Replace with new double wall tank</td>
<td>$17,071</td>
</tr>
<tr>
<td>S10-4, S10-5, S10-6, S10-7, S10-8</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$54,725</td>
</tr>
<tr>
<td>OBL-4, OBL-5, OBL-6</td>
<td>No secondary containment</td>
<td>Replace with new double wall tanks</td>
<td>$37,556</td>
</tr>
</tbody>
</table>
SECTION 4
Cost Estimate

4.1 Introduction
The purpose of this engineer’s estimate for construction cost is to provide the basis for appropriate NSB staff to establish a proposed project construction budget.

The following typical contractor markups were included in a General Condition Markup (40 percent for Barrow and 45 percent for the other communities) and were applied to the cost estimate:

- Contractor overhead/profit
- Home office overhead
- Mobilization
- Bond/insurance

In addition, the following factors were also applied to the cost estimate:

- Estimate contingency 30 percent
- Escalation rate 3.5 percent per year
- Market adjustment factor Not applicable

Cost estimate details are provided in Appendix D.

For the Contractor’s labor, it was assumed that the crew would consist of one superintendent, three laborers and backhoe rental. It is assumed that the NSB will have a backhoe available for the contractor to use and that the contractor will not be required to mobilize heavy equipment.

4.2 Estimated Cost Summary
Section 4.2.1 provides a summary of estimated construction costs, and Section 4.2.2 identifies estimated engineering fees for design, administration, and services during construction.

4.2.1 Construction Cost Estimate
This estimate assumes normal escalation based on the current economic climate in Alaska. The cost estimate assumes that the improvements in each village will be executed as a single construction contract. A second cost summary was prepared to estimate the total project cost if a separate construction contract was executed for each village. A summary of the construction costs for the project are included in Appendix D.

4.2.2 Design and Construction Administration Cost Estimate
The estimated design, construction administration, and miscellaneous costs are based on completion of the improvements in each village and are presented both as one single project, and nine separate projects.

It is recommended that this project be accomplished as a standard design/bid/construct project with all villages completed in one project. Assistance during the bidding phase would include bid advertisement, document issuance, pre-bid meeting facilitation, addenda issuance, and bid evaluation assistance.

Construction administration services will include document interpretation, submittal review, change order preparation, periodic report preparation, pre-construction conference facilitation, milestone inspections, and project closeout.
Because of the exposed nature of the final construction, it is not necessary to have full-time resident observation staff onsite. Carefully planned milestone inspections will be important, however.

Environmental impact, archaeological studies, survey, and geotechnical engineering efforts are not required on this project.

The estimated costs below assume that the improvements at each tank farm would be designed as an individual project.

The estimated cost for design, bidding assistance, construction administration, and miscellaneous costs are shown in Tables 4-3 and 4-4 and in Appendix D.

**4.2.3 Total Project Cost Summary**

Table 4-1 provides a summary of the total project costs for each village (including engineering, construction, NSB administration, and agency review) if the project was to be completed as a single construction project. It is assumed that the earliest construction would take place in the spring of 2017. Escalation factors are also provided for 2018 and 2019 construction.

The estimated total project costs (based on 2017 construction) for the tank farm upgrades are as follows:

<table>
<thead>
<tr>
<th>Village</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaktuvuk Pass</td>
<td>$678,000</td>
</tr>
<tr>
<td>Atqasuk</td>
<td>$739,000</td>
</tr>
<tr>
<td>Barrow</td>
<td>$455,000</td>
</tr>
<tr>
<td>Kaktovik</td>
<td>$514,000</td>
</tr>
<tr>
<td>Nuiqsut</td>
<td>$552,000</td>
</tr>
<tr>
<td>Point Hope</td>
<td>$434,000</td>
</tr>
<tr>
<td>Point Lay</td>
<td>$340,000</td>
</tr>
<tr>
<td>Wainwright</td>
<td>$409,000</td>
</tr>
<tr>
<td>Service Area 10</td>
<td>$270,000</td>
</tr>
</tbody>
</table>

**Overall project cost** $4,391,000
Table 4-2 provides summary of the total project costs for each village (including engineering, construction, NSB administration, and agency review) if the project was to be completed as individual construction projects for each village.

<table>
<thead>
<tr>
<th>Village</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaktuvuk Pass</td>
<td>$788,000</td>
</tr>
<tr>
<td>Atqasuk</td>
<td>$858,000</td>
</tr>
<tr>
<td>Barrow</td>
<td>$533,000</td>
</tr>
<tr>
<td>Kaktovik</td>
<td>$601,000</td>
</tr>
<tr>
<td>Nuiqsut</td>
<td>$645,000</td>
</tr>
<tr>
<td>Point Hope</td>
<td>$508,000</td>
</tr>
<tr>
<td>Point Lay</td>
<td>$401,000</td>
</tr>
<tr>
<td>Wainwright</td>
<td>$479,000</td>
</tr>
<tr>
<td>Service Area 10</td>
<td>$321,000</td>
</tr>
<tr>
<td><strong>Overall project cost</strong></td>
<td><strong>$5,134,000</strong></td>
</tr>
</tbody>
</table>
Tables 4-3 and 4-4 provide a breakdown of the total project cost for a single construction project and nine separate construction projects, respectively. These tables also show the estimated project costs for 2018 and 2019 construction.

**Table 4-3**  
**Total Project Cost Summary for a Single Construction Project (9 Villages)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Source of Cost</th>
<th>AKP</th>
<th>ATQ</th>
<th>BRW</th>
<th>KAK</th>
<th>NUI</th>
<th>PHO</th>
<th>PIZ</th>
<th>AIN</th>
<th>S10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recoverable pre-project costs</td>
<td>PAR</td>
<td>Actual cost</td>
<td>$101,601</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional services</td>
<td>Pre-design, design, bidding, construction administration</td>
<td>CH2M estimate</td>
<td>$51,500</td>
<td>$51,500</td>
<td>$46,500</td>
<td>$46,500</td>
<td>$46,500</td>
<td>$46,500</td>
<td>$46,500</td>
<td>$41,500</td>
<td>$41,500</td>
</tr>
<tr>
<td>Construction/acquisition</td>
<td>Construction</td>
<td>CH2M estimate</td>
<td>$484,225</td>
<td>$532,368</td>
<td>$313,132</td>
<td>$359,700</td>
<td>$390,235</td>
<td>$296,438</td>
<td>$222,657</td>
<td>$276,513</td>
<td>$171,952</td>
</tr>
<tr>
<td>Administration</td>
<td>NSB CIP (10%)</td>
<td>CH2M</td>
<td>$53,572</td>
<td>$58,387</td>
<td>$35,963</td>
<td>$40,620</td>
<td>$43,674</td>
<td>$34,294</td>
<td>$26,916</td>
<td>$32,301</td>
<td>$21,345</td>
</tr>
<tr>
<td>Contingency</td>
<td>Design and construction (15%)</td>
<td>CH2M</td>
<td>$88,395</td>
<td>$96,338</td>
<td>$59,339</td>
<td>$67,023</td>
<td>$72,061</td>
<td>$56,585</td>
<td>$44,411</td>
<td>$53,297</td>
<td>$35,220</td>
</tr>
<tr>
<td><strong>Total project cost</strong></td>
<td>(spring 2017)</td>
<td></td>
<td>$677,692</td>
<td>$738,593</td>
<td>$454,935</td>
<td>$513,842</td>
<td>$552,470</td>
<td>$433,817</td>
<td>$340,483</td>
<td>$408,612</td>
<td>$270,017</td>
</tr>
<tr>
<td><strong>Total project cost</strong></td>
<td>(spring 2018)</td>
<td></td>
<td>$701,411</td>
<td>$764,444</td>
<td>$470,857</td>
<td>$531,827</td>
<td>$571,807</td>
<td>$449,001</td>
<td>$352,400</td>
<td>$422,913</td>
<td>$279,468</td>
</tr>
<tr>
<td><strong>Total project cost</strong></td>
<td>(spring 2019)</td>
<td></td>
<td>$725,961</td>
<td>$791,200</td>
<td>$487,337</td>
<td>$550,441</td>
<td>$591,820</td>
<td>$464,716</td>
<td>$364,734</td>
<td>$437,715</td>
<td>$289,249</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td>Source of Cost</td>
<td>AKP</td>
<td>ATQ</td>
<td>BRW</td>
<td>KAK</td>
<td>NUI</td>
<td>PHO</td>
<td>PIZ</td>
<td>AIN</td>
<td>S10</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------------</td>
<td>----------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Recoverable pre-project costs</td>
<td>PAR, Actual cost</td>
<td></td>
<td>$101,601</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional services</td>
<td>Pre-design, design, bidding, construction administration CH2M estimate</td>
<td></td>
<td>$66,000</td>
<td>$66,000</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$61,000</td>
<td>$56,000</td>
</tr>
<tr>
<td>Construction/acquisition</td>
<td>Construction CH2M estimate</td>
<td></td>
<td>$556,859</td>
<td>$612,223</td>
<td>$360,102</td>
<td>$413,654</td>
<td>$448,771</td>
<td>$340,904</td>
<td>$256,055</td>
<td>$317,990</td>
<td>$197,745</td>
</tr>
<tr>
<td>Administration</td>
<td>NSB CIP (10%) CH2M</td>
<td></td>
<td>$62,286</td>
<td>$67,822</td>
<td>$42,110</td>
<td>$47,465</td>
<td>$50,977</td>
<td>$40,190</td>
<td>$31,706</td>
<td>$37,899</td>
<td>$25,374</td>
</tr>
<tr>
<td>Contingency</td>
<td>Design and construction (15%) CH2M</td>
<td></td>
<td>$102,772</td>
<td>$111,907</td>
<td>$69,482</td>
<td>$78,318</td>
<td>$84,112</td>
<td>$66,314</td>
<td>$52,314</td>
<td>$62,533</td>
<td>$41,868</td>
</tr>
<tr>
<td>Total project cost (spring 2017)</td>
<td></td>
<td></td>
<td>$787,916</td>
<td>$857,953</td>
<td>$532,694</td>
<td>$600,438</td>
<td>$644,860</td>
<td>$508,409</td>
<td>$401,075</td>
<td>$479,423</td>
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<td>Total project cost (spring 2018)</td>
<td>3.5%/year</td>
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<td>$815,493</td>
<td>$887,981</td>
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<td>$415,112</td>
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<td>Total project cost (spring 2019)</td>
<td>3.5%/year</td>
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<td>$844,036</td>
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<td>$570,635</td>
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<td>$544,620</td>
<td>$429,641</td>
<td>$513,570</td>
<td>$343,850</td>
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SECTION 5
Conclusions and Recommendations

5.1 Conclusions
The following conclusions are presented based on the site visits to the NSB communities of Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Point Lay, Wainwright, and Service Area 10 and the results documented in this report:

- These conclusions are the result of analysis conducted during the preparation of this report by engineering and cost estimating personnel. The following number of tank deficiencies were documented in each village:
  - Anaktuvuk Pass – 17
  - Atqasuk – 18
  - Barrow – 18
  - Kaktovik – 16
  - Nuiqsut – 14
  - Point Hope - 15
  - Point Lay - 7
  - Wainwright – 10
  - Service Area 10 (Deadhorse/Prudhoe Bay) – 9

- The estimated total project cost for upgrading the nine communities addressed in this PAR is $4,391,000 for completion in 2017. Detailed construction costs are provided in Section 4 and Appendix D.

5.2 Recommendations

- The recommended upgrades should be accomplished as a single design/bid/construct project for all villages. If it is desired to construct the upgrades for each village separately, the estimated total cost for all phases of the project would increase by about $800,000 or 17% of the single project cost.

- It is recommended that many of the existing tanks be replaced with new double wall tanks. The existing tanks are often located in tight spaces or with piping configurations that would make retrofitting the tanks with new containment very difficult. Also, tanks located outside will be replaced with double wall tanks to avoid issues with water and snow filling the open containment basins.

- For the drum storage located within the buildings, it is assumed that the NSB could place the new pallet containment basins and transfer the drums and that the contractor’s labor would not be necessary.

- All new tanks and existing tanks to remain in place should be labelled with their Tank Number. New tanks should keep the same number as the tanks they replace.

- Following construction, the NSB SPCC should be updated to reflect the upgrades.
Works Cited

1. 2014 North Slope Borough Areawide Spill Prevention Control and Countermeasure Plan (SPCC)
2. 18 AAC 75, Oil and Other Hazardous Substances Pollution Control, Revised as of April 8, 2012, Alaska Department of Environmental Conservation
3. Alaska Community Database Community Information summaries (CIS), Online
PROJECT NAME: Areawide Computer and Server Replacement
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 22-016
TYPE: Upfund
DATE SUBMITTED: 01/28/21
AMOUNT REQUESTED: $1,470,000.00
REQUESTING ENTITY: NSB\ANF\INFOCOMM
AMOUNT RECOMMENDED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB\ANF\INFOCOMM
2. PROJECT NAME: Areawide Computer and Server Replacement
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

This is an areawide project no specific amount is per village, rather an estimate amount of money is requested to correct system failures and to replace PC's that are broken, obsolete, and are near end of life.

Sersers routers, switches will be added and end of life ones replaced to allow additional functionality, including the much needed increased storage, additional security and upgraded hardware.

Monitors will be replaced where broken or additional work stations are added.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.

This is an areawide project that will replace computers, servers, routers, switches and monitors.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

550 Computers, 4 Servers, 100 Monitors, 20 switches, 4 routers. Subtotal: $1,225,000.00,
Administration: $122,500.00, Contingency $122,500.00. TOTAL $1,470,000.00

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

☑ No ☑ Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021? ☑ No ☑ Yes

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project? ☑ No ☑ Yes

If yes, indicate name and CIP project number: 22-016

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

FY21 $735,000  FY22 $735,000

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule? ☑ No ☑ Yes

If Yes, is it scheduled for replacement before 2026? ☑ No ☑ Yes

If No, explain why it should be considered out of sequence:
10. PROJECT JUSTIFICATION:
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Current PC's, servers, switches and routers are out of warranty and are end of life, replacing them will increase storage capabilities and reliability.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

No Increase

C. Indicate if this is a reoccurring upgrade or repair.

This is a reoccurring upgrade.

D. Detail outside funds being leveraged, if applicable.

No outside funds available or being leveraged.

11. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Areawide Computer and Server Replacement
LOCATION: Areawide

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?
   ☒ No  ☐ Yes  (If yes, include written verification)
   Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:
   Requestor Name and Title: Mike Phillips \ Assistant Network Administrator
   Signature: [Signature] Date: 1/28/21
   Department Director Name: Sandra Stuermann
   Department Director Signature: [Signature] Date: 1/29/21

Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Areawide Office Machine Replacement
LOCATION: Areawide

NSB PLANNING DEPARTMENT USE ONLY
TEMPORARY/CIP PROJECT NUMBER: 22-020
DATE SUBMITTED: 1/28/21
REQUESTING ENTITY: NSB/ANF/INFOCOMM

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP VEHICLE AND EQUIPMENT REQUEST FORM
Use this form for all equipment and/or vehicle purchases or replacements

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: NSB/ANF/INFOCOMM
2. PROJECT NAME: Areawide Office Machine Replacement
3. PROJECT DESCRIPTION:
   - Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
   - Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

This this is an area wide project, which would allow for the replacement of large office machines on an as needed basis. As such the scoping by village is not possible.

The North Slope Borough has a multitude of office machines (Photocopiers, scanners, fax machines, printer, etc.) that are well beyond their usable lifespan. As a result, costs attributable to maintenance and repairs are extreme. The purpose of this project is to allow for replacement of such equipment, thereby potentially reducing operating expenses for office machine maintenance.

4. PROJECT LOCATION: If this request is for an areawide project, indicate what is proposed to be done by village.
   This is an areawide project.
5. PROJECT COST: Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

- Estimating the purchase of office machines, large copiers etc. $400,000.00
- CIPM Management Cost 10% of Project $40,000.00
- Total: $440,000.00

6. TRAINING: Will there be training costs associated with the purchase of new equipment or vehicles?

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<thead>
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<th></th>
<th>No</th>
<th>Yes</th>
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If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2021?

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<th>No</th>
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</table>

If yes, please identify how much will be needed prior to November 2021 and justify why it will be needed.

8. PROJECT PHASING OR UPFUND:

Is this a phased project or a follow-up to an existing CIP project?

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<th>No</th>
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</table>

If yes, indicate name and CIP project number: 22-020

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Due to historic activity, this project should be funded annually at the amount of $440,000.00

9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough's Repair & Replacement Schedule?

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<th>No</th>
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If Yes, is it scheduled for replacement before 2026?

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<th>No</th>
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</table>

If No, explain why it should be considered out of sequence:
PROJECT NAME: Areawide Office Machine Replacement
LOCATION: Areawide

10. PROJECT JUSTIFICATION:

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

All Departments and functions of the North Slope rely heavily upon computer technology to perform even the most mundane activities. As such maintaining high functioning office machinery is essential for the smooth operations of our local government. Office machine outages may cause delays in the processing of all paperwork, including reports, project requests, white papers, and other essential activities. Funding of this project will allow the NSB to ensure that antiquated or damaged office machines are replaced on an as needed basis.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

No expansion or increase is expected.

C. Indicate if this is a reoccurring upgrade or repair.

Due to the relatively short life span of the office machines, this project will require funding on an annual basis.

D. Detail outside funds being leveraged, if applicable.

No funds being leveraged.

11. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  ❌ No  ✔ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  ❌ No  ✔ Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ❌ No  ✔ Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ❌ No  ✔ Yes (If yes, include written verification)

Explanation, if necessary:
E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

☐ No  ☑ Yes  (If yes, include written verification)

Explanation, if necessary:

12. ATTACHMENTS: List any supplemental information submitted with this request.

13. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

14. REQUESTOR INFORMATION:

| Requestor Name and Title: Mike Phillips / Assistant Network Administrator |
|-----------------------------|-----------------------------|
| Signature:                 | Date: 1/28/21               |

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<th>Department Director Name:</th>
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<tr>
<td>Department Director Signature:</td>
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Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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<thead>
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<th>INDEX</th>
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<th>Requesting Department</th>
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<th>Approved By PRC</th>
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<td>AW</td>
<td>AW Water &amp; Sewer Chemical Storage</td>
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<td>DPW</td>
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NSB PLANNING DEPARTMENT USE ONLY

PAR REQUEST NUMBER: PAR 2021-A  REQUESTING ENTITY: Department of Public Works
DATE SUBMITTED: 03/10/2021  APPROVED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT ANALYSIS (PAR) REQUEST FORM

CIP project requests over $200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan’s Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Department of Public Works
2. PROJECT NAME: New Light Duty Shop 1 and Heavy Equipment Shop II
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Light Duty and Heavy Equipment built in the early 80’s is showing its age. Fleet has grown and the shop 1 and shop II are not capable in storing and repairing. The technology has improved over the years and replacement facility will be designed in accordance with currently adopted building codes, fire codes, and new technology as applicable.
PROJECT NAME: New Light Duty Shop 1 and Heavy Equipment Shop II
LOCATION: BRW-RAS

4. PROJECT LOCATION:
   BRW

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
   If Yes, is it scheduled for replacement before 2026?  □ Yes  □ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

   C. Indicate if this is a reoccurring upgrade or repair.

   D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:

   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: New Light Duty Shop 1 and Heavy Equipment Shop II
LOCATION: BRW-RAS

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☐ No  ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☐ No  ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☐ No  ☐ Yes  (If yes, include written verification)  
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

<table>
<thead>
<tr>
<th>Requestor Name and Title:</th>
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<th>Department Director Name:</th>
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<td>Department Director Signature: [Signature]</td>
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**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
PROJECT NAME: Wainwright Trencher Warm Storage Facility
LOCATION: Wainwright

NSB PLANNING DEPARTMENT USE ONLY
PAR REQUEST NUMBER: PAR 2021-B
DATE SUBMITTED: 3/12/2021
REQUESTING ENTITY: Public Works Water & Sewer
APPROVED:

NORTH SLOPE BOROUGH
PLANNING AND COMMUNITY SERVICES

CIP PROJECT ANALYSIS (PAR) REQUEST FORM

CIP project requests over $200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

Instructions:
1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: Wainwright Trencher Warm Storage Facility
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project analysis request form is to construct a warm storage facility for the existing Trencher stationed in Wainwright. Currently, the trenched is being kept outside and is walked into the NSB Shop for preparation when needed. Having to remove other essential W&S assets such as a jetter or "thawing unit" has proven risky as operators have previously forgot to bring the jetter back inside to prevent from freezing and completely destroying the hardware by means of icing and expansion.
4. PROJECT LOCATION:

Wainwright

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ Yes ☐ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project is to protect Borough assets and prevent further mechanical wear by exposure to freezing temperatures. Having the trencher kept in a warm facility will allow the emergency repair crews to utilize when needed most.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will increase operations costs, but will reduce maintenance costs on the trencher.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: Wainwright Trencher Warm Storage Facility
LOCATION: Wainwright

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  [ ] No  [ ] Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  [ ] No  [ ] Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  [ ] No  [ ] Yes  (If yes, include written verification)
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

   Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager
   Signature: Date:

   Department Director Name: Scott Danner, Public Works Director
   Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: AW Service Culvert Improvements
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.
   This project’s intent is to reduce settling and heaving caused by stagnant water within each community. The culverts should reduce the potential for customer services getting adversely affected by hydrological events such as flooding or ponding near barrels and will mitigate major water / sewer main dispositioning by means of water displacement.
4. PROJECT LOCATION:

Areawide

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule?  □ No  □ Yes
If Yes, is it scheduled for replacement before 2026?  □ Yes  □ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION:  Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will mitigate potential for mainline service interruptions due to shifting caused by stagnant groundwater.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

It will not expand facilities or services. It will not increase operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  □ No  □ Yes  (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  □ No  □ Yes  (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: AW Service Culvert Improvements
LOCATION: Areawide

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  
☐ No  ☑ Yes (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
☐ No  ☑ Yes (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☐ No  ☑ Yes (If yes, include written verification)
Explanation, if necessary:

Mitigating stagnant water within the customer services boundaries to prevent interruptions and emergencies could provide a cost-savings opportunity.

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager

Signature: Date:

Department Director Name: Scott Danner, Public Works Director

Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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1. REQUESTING ENTITY: Public Works Water & Sewer

2. PROJECT NAME: AW W&S Operating Software

3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will upgrade all PW W&S facilities from the outdated software currently used. The wonderware client system is operated on an obsoleted Windows version and results in poor plant operations. Upgrading the software has potential to allow operators to focus on higher priorities to improve plant performance. In addition the software upgrades should include communication between plant components and operator interfaces.

The telephone lines that were used for wonderware communication have been removed by ASTAC and the devices are no longer able to communicate outside of the facility. The PAR should include discussions on connectivity beyond the facility.
PROJECT NAME: AW W&S Operating Software
LOCATION: Areawide

4. PROJECT LOCATION:
Areawide

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ Yes ☐ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
By upgrading the software using a third-party vendor, the plants can operate more efficiently by means of a stronger communication method between plant components and the operator interfaces.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
This project will expand services and will increase operating costs but has potential to reduce maintenance costs over time.

C. Indicate if this is a reoccurring upgrade or repair.
This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:
A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)
Explanation, if necessary:
PROJECT NAME: AW W&S Operating Software  
LOCATION: Areawide

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☐ Yes (If yes, include written verification)  
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager

Signature: Date:

Department Director Name: Scott Danner, Public Works Director

Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP PROJECT ANALYSIS (PAR) REQUEST FORM

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1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: AW W&S Utility Assessment & Economic Feasibility Studies
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project analysis report was created to better understand the economic dynamics of NSB utilities and will assist an decision making and value-engineering to determine what components are in the benefit of 1) the customers, 2) NSB operating budget. The existing utilities are outdated and this study will determine whether or not plant upgrades or new facilities may be required to improve plant performances and reliability to consumers service levels. This should apply to all North Slope Borough communities including Utqiagvik.
PROJECT NAME: AW W&S Utility Assessment & Economic Feasibility Studies
LOCATION: Areawide

4. PROJECT LOCATION:

Areawide

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☐ Yes
If Yes, is it scheduled for replacement before 2026? ☒ Yes ☐ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This PAR will provide an engineered evaluation of the existing facilities and will determine the long-term financial impacts of maintaining existing facility components or replacing the entirety of the facilities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand services and could reduce operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☐ Yes (If yes, include written verification)

Explanation, if necessary:
PROJECT NAME: AW W&S Utility Assessment & Economic Feasibility Studies
LOCATION: Areawide

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  ☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  ☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  ☒ No  ☑ Yes  (If yes, include written verification)
Explanation, if necessary:

If new facilities are added then more upfront costs; however, if ran efficiently, may reduce costs over time.

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

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<td>3/12/21</td>
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Planning Department Use Only
Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
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1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: AW WWTP HVAC Heat Reclamation
3. PROJECT DESCRIPTION: If this request is for an area wide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project analysis report is to better understand how to reclaim heat generated by the WWTP HVAC system. The WWTP’s have a fire code requirement to change the air out of the process room 12 times per hour and the heat is exhausted from the room. The heat generated could be reclaimed and reused in the facility to reduce operational costs.
PROJECT NAME: AW WWTP HVAC Heat Reclamation
LOCATION: Areawide

4. PROJECT LOCATION:
   Areawide

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:
   Is this project included in the Borough’s Repair & Replacement Schedule? ☑ No ☑ Yes
   If Yes, is it scheduled for replacement before 2026? ☑ Yes ☑ No
   If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.
   A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.
      This project could benefit service levels by reducing costs of heat, and applying those costs to more significant W&S needs.
   B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.
      This project will expand services and will reduce operating costs but may increase maintenance costs.
   C. Indicate if this is a reoccurring upgrade or repair.
      This is not a reoccurring upgrade or repair.
   D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:
   A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:
   B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☑ No ☑ Yes (If yes, include written verification)
      Explanation, if necessary:
PROJECT NAME: AW WWTP HVAC Heat Reclamation
LOCATION: Areawide

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists? ☒ No ☐ Yes (If yes, include written verification) 
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility? ☒ No ☐ Yes (If yes, include written verification) 
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget? ☒ No ☐ Yes (If yes, include written verification) 
Explanation, if necessary:

Reclaiming heat generated from the WWTP building exhaust could be reused, reducing the building energy demand, thus reducing fuel consumption and local carbon footprint, which reduces the operating budget.

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:

Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager

Signature: Date:

Department Director Name: Scott Danner, Public Works Director

Department Director Signature: Date: 3/12/21

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
CIP PROJECT ANALYSIS (PAR) REQUEST FORM

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1. REQUESTING ENTITY: Public Works Water & Sewer
2. PROJECT NAME: Nuiqsut Old Water Tank Restoration or Re-purposing
3. PROJECT DESCRIPTION: If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The old water tank in Nuiqsut has been out of service since the new tanks were built in ~2000. It is currently unused. The out of service tank is subject to either demolition, restoration or re-purposing. The tank could be restored with foundation and coating improvement to allow more treated water storage for community disbursement. Alternatively, the tank could be re-purposed into another NSB facility such as an interim shop or emergency parts storage facility. It is possible the tank is not in a condition that can be reused, in which case it should be demolished.
PROJECT NAME: Nuiqsut Old Water Tank Restoration or Re-purposing
LOCATION: Nuiqsut

4. PROJECT LOCATION:

Nuiqsut

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? [ ] No [ ] Yes

If Yes, is it scheduled for replacement before 2026? [ ] Yes [ ] No

If No, explain why it should be considered out of sequence:


6. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This PAR will provide an engineered evaluation of the existing facilities and will determine the long-term financial impacts of restoring conditions of the tank for treated water storage or to convert it into a storage area.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand services and will increase operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.


7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? [ ] No [ ] Yes (If yes, include written verification)

Explanation, if necessary:


B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? [ ] No [ ] Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Nuiqsut Old Water Tank Restoration or Re-purposing  
**LOCATION:** Nuiqsut

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  
☑ No  □ Yes (If yes, include written verification)  
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  
☑ No  □ Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
☑ No  □ Yes (If yes, include written verification)  
Explanation, if necessary:

8. ATTACHMENTS: List any supplemental information submitted with this request.

9. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

10. REQUESTOR INFORMATION:  

   Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager  
   Signature: Date:  

   Department Director Name: Scott Danner, Public Works Director  
   Department Director Signature: Date: 3/12/21

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**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)
**PROJECT NAME:** Alternate Fresh Water Source

**LOCATION:** Utqiagvik

**NORTH SLOPE BOROUGH**

**PLANNING AND COMMUNITY SERVICES**

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**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

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CIP project requests over $200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to CIP@north-slope.org.
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

Incomplete or unsigned requests are unacceptable and will be returned.

---

1. **REQUESTING ENTITY:** Public Works Water & Sewer

2. **PROJECT NAME:** Alternate Fresh Water Source

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project analysis request form is to evaluate alternative fresh water sources for Utqiagvik. The proximity to the coastline and uncertain schedule for coastal erosion protection is a concern for the existing fresh water lake. Potential contamination from traffic on Ahkovak Road is another reason to explore an alternate site.
4. PROJECT LOCATION:

Utqiagvik

5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:

Is this project included in the Borough’s Repair & Replacement Schedule? ☒ No ☑ Yes
If Yes, is it scheduled for replacement before 2026? ☐ Yes ☒ No
If No, explain why it should be considered out of sequence:

6. PROJECT JUSTIFICATION: Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project is to ensure that Utqiagvik has uninterrupted access to raw water.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project may increase operation costs depending on the findings and recommendations.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

7. Please respond to the following questions:

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility? ☑ No ☒ Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect? ☒ No ☑ Yes (If yes, include written verification)

Explanation, if necessary:
**PROJECT NAME:** Alternate Fresh Water Source  
**LOCATION:** Utqiagvik

<table>
<thead>
<tr>
<th>C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?</th>
<th>No</th>
<th>Yes (If yes, include written verification)</th>
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<tbody>
<tr>
<td>Explanation, if necessary:</td>
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<th>D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?</th>
<th>No</th>
<th>Yes (If yes, include written verification)</th>
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<tr>
<td>Explanation, if necessary:</td>
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<th>E. Will this project generate a significant cost saving/reduction to the Borough operating budget?</th>
<th>No</th>
<th>Yes (If yes, include written verification)</th>
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<td>Explanation, if necessary:</td>
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**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

<table>
<thead>
<tr>
<th>Requestor Name and Title</th>
<th>Brett Goodwin, Water &amp; Sewer Division Manager</th>
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<tbody>
<tr>
<td>Signature:</td>
<td>Date:</td>
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<thead>
<tr>
<th>Department Director Name</th>
<th>Scott Danner, Public Works Director</th>
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<tbody>
<tr>
<td>Department Director Signature:</td>
<td>Date: 3/12/21</td>
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**Planning Department Use Only**

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)