



Vol. 1 Community Priorities

Infrastructure for a Sustainable Cambridge Bay



Prepared for the Government of
Nunavut By Aarluk Consulting Inc.

Approved by the Hamlet Council of
Cambridge Bay February 28, 2011

Infrastructure for a Sustainable Cambridge Bay

Volume One: Community Priorities

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Approved by the Hamlet of Cambridge Bay February 28, 2011 and submitted to the Government of Nunavut, Department of Community and Government Services

Acknowledgements

Through the fall of 2009 and winter of 2010, twenty-three Nunavut communities prepared Integrated Community Infrastructure Sustainability Plans (ICISPs). ICISPs will help communities identify and achieve goals for environmental, cultural, social and economic sustainability.

The result of the process will be an infrastructure plan for each community that is long-term, reflects community goals and priorities, meets the needs and interests of all residents and groups, and is based on sustainability principles and goals. In the short-term, these plans will provide a useful and practical framework for identifying and justifying future infrastructure projects.

More broadly, these plans represent a first step in the broader process of creating a long-term, comprehensive sustainability plan for each Nunavut community.

The development of the ICISPs was coordinated by the Nunavut Community Infrastructure Advisory Committee (NCIAC) and the Government of Nunavut's Department of Community and Government Services (CGS).

Funding for the development of the ICISPs was provided under the Gas Tax Fund (GTF) of the Government of Canada.

We would particularly like to thank the following residents of Cambridge Bay for their assistance in this planning.

- Syd Glawson, Mayor, Hamlet of Cambridge Bay;
- Members of Cambridge Bay Hamlet Council;
- Steve King, SAO, Hamlet of Cambridge Bay; and
- All those who came out and participated in the community planning session. Your commitment to your community's future is appreciated.

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1 Executive Summary

Between 2005 and 2015 the Government of Nunavut (GN) will receive \$97.5 million from the federal Gas Tax Fund to support environmentally sustainable municipal infrastructure projects that help ensure cleaner air, cleaner water and reduced greenhouse gas emissions. Those funds will be managed by the Nunavut Community Infrastructure Advisory Committee (NCIAC), which is mandated to work with Nunavut communities to define their long-term infrastructure requirements and priorities, and to help link those needs to a framework of integrated community sustainability planning.

In 2009 the GN and the NCIAC began to develop community-specific Integrated Community Infrastructure Sustainability Plans (ICISPS). This is an important preliminary step in the development of broader, more comprehensive Integrated Community Plans (ICPs), which would integrate ICISPS with other community plans for economic development, health and wellness, and other areas.

The ICISP initiative focused on identifying priority infrastructure investments, looking primarily at network infrastructure like roads, bridges, water and wastewater systems, buildings, and equipment. The plans were to be developed through a series of community consultations, research on existing plans and priorities, key person interviews, and a framework of initial sustainability goals prepared by NCIAC and expanded by each community.

Preparation for the Cambridge Bay ICISP began in the fall of 2009. The community consultation meeting was held on May 11th, 2010. A draft was provided to Council for review and approved on February 28, 2011. The ICISP was revised to reflect their input, and was submitted to CGS as a final report on this community's planning process.”

The specific infrastructure investment priorities identified by the people of Cambridge Bay are set in table format in this volume, and explored in greater depth in Volume 2 of this report.

Many of Cambridge Bay’s sustainable infrastructure issues are shared with other communities across Nunavut. These include challenges arising from geography and climate, and a young and growing population served by already overburdened infrastructure.

There also are particular, evolving economic and social conditions in Cambridge Bay that have implications for sustainability and sustainable infrastructure in the short, medium and long term. Increased mineral exploration activity and the planned construction of the Doris North Mine by Newmont Mining Corp. will have major impacts on the community. The potential for forced growth in the community is significant not only as a result of the possible influx of new residents seeking employment opportunities in the mining sector, but also because of the establishment of the Nunavut Arctic College Mines Training Centre and the locating of the proposed Canadian High Arctic Research Station (CHARS) in the community.

Other major Nunavut transportation infrastructure projects which potentially will have an impact on Cambridge Bay and its infrastructure include the Rankin Inlet road project, increased marine and shipping activity in the Northwest Passage, the Bathurst Inlet Port and Road Project (BIPAR) and other projects. The fact Cambridge Bay is recognized as a transportation hub within the Kitikmeot region both now and in the future has implications for the establishment of sustainable transportation infrastructure systems.

Economic development and the population growth that accompanies it will put pressure on infrastructure particularly in the areas of housing, education, health and wellness facilities, water and sewer and transportation (airport, roads, marine).

In order to address issues of sustainability in Cambridge Bay new investments will be required in the next five to ten years in the abovementioned areas and in related areas such as recreational infrastructure, Youth and Elders facilities.

Community consultations to support the development of the ICISP confirmed the community's infrastructure priorities in many of the areas identified above.

2 Guide to the Report

This report summarizes the findings and recommendations of a planning process conducted by the Government of Nunavut and the Hamlet of Cambridge Bay from fall 2009 to spring 2010.

Section 1, the Executive Summary, describes the background and goals of this planning process, and summarizes the key findings set out in these two volumes.

Section 3 provides a brief overview of community demographics.

Section 4 summarizes the criteria used by this project and by community participants to set sustainability infrastructure priorities.

Section 5 presents community infrastructure priorities of the community in tabular format, organized by priority. The table also identifies infrastructure projects eligible for funding under the Gas Tax Fund.

Section 6 identifies the community's existing infrastructure systems, and the main elements that make up each system. It describes the current condition and capacity of such systems and any issues identified in relation to them. Finally, this section identifies infrastructure investment that is already planned as well as recommendations for future infrastructure investment that supports community sustainability goals and is based on community priorities identified during consultations.

Volume Two of the report includes;

- A list of the documents consulted and people interviewed in the development of this plan;
- A list of participants at community meetings;
- A fuller profile of Cambridge Bay, including a discussion of demographic and socio-economic conditions, and trends that are likely to influence community infrastructure needs and investments in the future, as well as existing community vision statements and major community goals related to infrastructure.
- A comprehensive set of community infrastructure sustainability goals based on document review, interviews, and the community consultation meetings.

3 Overview of the Community

Along the shores of the Queen Maud Gulf on the southeast coast of Victoria Island, nestled beside high hills, lies Cambridge Bay, the regional center for the Kitikmeot Region at N69 07' W105 03'. The traditional name for Cambridge Bay, *Iqaluktuuttiaq*, means "one with plenty of fish", for the excellent fishing that can be found in lakes and rivers nearby.

Over the centuries, Cambridge Bay was often used as a summer gathering place for the Copper Inuit (so called by the non-Inuit because they made many of their tools and weapons from copper). The Copper Inuit were attracted to the region because of its abundance of good hunting, notably seals, caribou and arctic char. Caribou and char are local food staples to this day, and continue to provide work and income for Inuit.

The Hudson's Bay Company arrived in 1921, late by Canadian standards. The company purchased the Maud, explorer Roald Amundsen's schooner, for use as a supplies and trading ship. This little piece of Arctic history was used for years before being left to sink to the bottom of the harbour, where its hull can still be seen today.

The 2006 Census reported the total population of Cambridge Bay to be 1480, of which approximately 50.7% were female and 49.0% male.

The population of Cambridge Bay dropped by 3.0% between 1996 and 2001, but grew by 13.0% between 2001 and 2006. Based on these rates of growth the estimated population of Cambridge Bay in 2020 is 2,137. However, these forecasts do not take into account the population growth that is likely to occur in Cambridge Bay in the next five to ten years as a result of new mining projects, and the establishment of training and research facilities.

Residents participate in a variety of occupations, but are predominantly employed in sales and service occupations, business, finance and administration occupations, and trades, transport and equipment operators and related occupations. However, a high proportion of residents are still active in the traditional economy, as 62% of residents surveyed in the 2006 census reported having hunted over the past 12 months. In addition to this, 68% stated they had gone fishing and 45% stated they had gone berry picking over the same 12 months.

In the 2006 Census it was reported Cambridge Bay had a participation rate of 70.6% and an unemployment rate of 9.7%. This compares to the territorial participation rate of 65.3% and an unemployment rate of 15.6% in 2006.

With respect to educational achievement the 2006 Census reported that, among the population age 15 and over, 50.0% had no certificate, diploma or degree (including high school), while 10.8% reported the highest level of educational achievement to be high school certificate or equivalent.

4 Community Sustainability Goals and Priorities

As part of the Cambridge Bay planning workshop, community participants reviewed eight general sustainability goals developed to help guide the preparation of ICISPs. These propose that sustainable community infrastructure should:

1. Meet basic human needs.
2. Achieve a sustainable economy and self-reliance.
3. Ensure equitable access for all residents and financial sustainability.
4. Promote individual and community health and well-being.
5. Use resources efficiently.
6. Reduce waste and hazardous waste.
7. Protect and promote Inuit culture, heritage and language.
8. Protect the environment and eco-systems.

In discussing these goals, Cambridge Bay participants noted that sustainability is a traditional concept that is relevant for today and the future and should be considered in future community planning, programs and services.

5 Summary of Community Infrastructure Needs

5.1 Community Infrastructure Needs, By Time Frame

Table 1 below sets out Cambridge Bay's Integrated Community Infrastructure Sustainability Plan. It identifies infrastructure needs and priorities in the short-term (ST – within the next 5 years), medium term (MT – within 5 to 10 years) and long-term (LT – within 10 to 15 years). These priorities are based on community consultations, the current condition and capacity of existing infrastructure, and community-identified goals, priorities and needs for future infrastructure development.

Each infrastructure investment priority is linked with the sustainability goals that it supports.

Table 1. Integrated Community Infrastructure Sustainability Plan

Infrastructure System and Asset Description	Issues and Action Required (New/Replace/Renovate or Repair)	Sustainability Goals Supported by Investment				
		Environment	Economic	Social	Cultural	Other Community Goals
SHORT-TERM INFRASTRUCTURE PRIORITIES (ST)						
Hamlet Office Vol. 1, Sec. 6.1.1 Vol. 2, Sec. 5.1	Build new Hamlet office		✓			✓
	Convert existing hamlet office into wellness centre or recreation facilities	✓		✓	✓	✓
Municipal Garages and Buildings Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Build new 3-Bay parking garage for hamlet vehicles (water and sewer trucks)		✓			✓
Municipal Vehicles Vol. 1, Sec. 6.1.3 Vol. 2, Sec. 5.3	Replace municipal vehicles as required		✓			
Fire Services Vol. 1, Sec. 6.1.5 Vol. 2, Sec. 5.5	Acquire ambulance / emergency vehicle			✓		
Energy Vol. 1, Sec. 6.1.7	Establish street lighting throughout community			✓		✓
	Incorporate R2000 standard for housing to reduce energy consumption	✓	✓			

Vol. 2, Sec. 5.7	Retrofit existing piping system to allow heat recovery from power plant to buildings	✓	✓			
	Link power plant heat recovery to fire hall, new and existing garages and other facilities	✓	✓			
Traditional Economy	Establish soapstone and carving stone quarry			✓	✓	✓
Vol. 1, Sec. 6.2.1	Build new community freezer			✓	✓	✓
Vol. 2, Sec. 5.8						
Road Maintenance Vehicles and Equipment	Purchase new loader		✓			✓
Vol. 1, Sec. 6.2.2	Purchase new dump Truck		✓			✓
Vol. 2, Sec. 5.9						
Airport	Install snow fencing on road to airport					
Vol. 1, Sec. 6.2.3		✓	✓			✓
Vol. 2, Sec. 5.10						
Marine	Extend dock facility 50 feet to allow access to greater depth harbour					
Vol. 1, Sec. 6.2.4			✓			
Vol. 2, Sec. 5.11						
Communications	Establish 911 system		✓	✓		✓
Vol. 1, Sec. 6.2.5	Increase internet connectivity bandwidth		✓	✓		
Vol. 2, Sec. 5.12						
Commercial Facilities	Increase commercial storage space to support economic activity including in mining and other sectors		✓			✓
Vol. 1, Sec. 6.2.6	Support establishment of Canadian High Arctic Research Station		✓	✓	✓	✓
Vol. 2, Sec. 5.13						
Culture, Heritage, Language	Enlarge Visitor / Tourism Center		✓		✓	✓

and Arts Vol. 1, Sec. 6.3.1 Vol. 2, Sec. 5.14	Renovate building adjacent to Elders Centre to allow for cold storage space for skins etc. for sewing		✓	✓	✓	✓
Recreation Facilities Vol. 1, Sec. 6.3.2 Vol. 2, Sec. 5.15	Expand community Hall			✓	✓	✓
	Upgrade/replace swimming pool			✓	✓	✓
	Renovate/repair basketball pad (i.e. increase to full court size and add fencing)			✓		
	Establish new/upgraded playground at school			✓		✓
	Install concrete floor in arena			✓		✓
	Acquire new ice-maker			✓		✓
	Sports equipment upgrades			✓		✓
Elders and Youth Facilities Vol. 1, Sec. 6.3.3 Vol. 2, Sec. 5.16	Renovate Elders Centre			✓	✓	✓
Health and Wellness Facilities Vol. 1, Sec. 6.4 Vol. 2, Sec. 5.17	Renovate an existing building to serve as a morgue			✓	✓	
Schools Vol. 1, Sec. 6.5.1 Vol. 2, Sec. 5.18	Minor renovations to Kullik Ilihakvik school (e.g. gym floor; increased storage space; outdoor recreational area)			✓		✓
Day Care Vol. 1, Sec. 6.5.2 Vol. 2, Sec. 5.19	Expand day care facility		✓	✓	✓	✓

Adult Education Vol. 1, Sec. 6.5.3 Vol. 2, Sec. 5.20	Build new Mines Training Centre		✓			✓
Public Housing Vol. 1, Sec. 6.6.1 Vol. 2, Sec. 5.21	Introduce homeownership programs		✓	✓		✓
	Design bachelor and single housing units with more functionality (e.g. laundry and storage)		✓	✓		
	Build two new apartment buildings			✓		
Water System Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Install new water tank (200K litre)	✓				✓
	Install new/additional tank at Heat Station #1	✓				✓
	Build new pumphouse and install new boiler	✓				
Waste Water and Sewage Disposal Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.24	Increase capacity at sewage lagoon and redirect flow away from solid waste site	✓				✓
Solid Waste Vol. 1, Sec. 6.7.3 Vol. 2, Sec. 5.25	Establish solid and metal waste site management plan and provide associated training	✓				✓
	Establish recycling depot at landfill site	✓				✓
MEDIUM-TERM INFRASTRUCTURE PRIORITIES						
Municipal Garages and Buildings Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Build 3-Bay maintenance garage		✓			✓

Municipal Vehicles Vol. 1, Sec. 6.1.3 Vol. 2, Sec. 5.3	Replace municipal vehicles as required		✓			
Fire Services Vol. 1, Sec. 6.1.5 Vol. 2, Sec. 5.5	Acquire new fire truck			✓		✓
	Build new Fire Hall or enlarge and renovate existing Fire Hall			✓		
Search and Rescue Vol. 1, Sec. 6.1.6 Vol. 2, Sec. 5.6	Establish Search and Rescue building to store snowmobiles, boats, ATVs and equipment		✓	✓		
Energy Vol. 1, Sec. 6.1.7 Vol. 2, Sec. 5.7	Relocate tank farm away from community	✓		✓		✓
	Increase fuel storage capacity for diesel, gasoline and Jet A1		✓			
Traditional Economy Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.8	Establish facility to shear musk ox wool, process leather		✓		✓	✓
	Build new facility to house HTO office				✓	✓
	Build access bridges to Mount Pelly area		✓		✓	✓
	Invest in infrastructure that supports commercial opportunities for making a living on the land		✓		✓	✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.2 Vol. 2, Sec. 5.9	Establish public transportation system		✓	✓		✓
Airport Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.10	Relocate airport maintenance building	✓	✓			✓
	Increase length of runway to allow larger jets to land		✓			
	Build new airport terminal building		✓			

	Upgrade and pave Airport Road		✓			✓
Marine	Expand harbour/dock facilities to accommodate increased demand		✓			
Vol. 1, Sec. 6.2.4	Extend dock / base for float planes		✓			✓
Vol. 2, Sec. 5.11	Improve fuel handling facilities for marine transportation (e.g. purchase lightering vessels to transport supplies and equipment from larger ships including oil tankers)		✓			
Commercial Facilities	Additions to access roads to increase and expand tourism opportunities		✓			✓
Vol. 1, Sec. 6.2.6	Build new meat and fish processing plant		✓		✓	✓
Vol. 2, Sec. 5.13						
Culture, Heritage, Language and Arts	Establish cultural training facility		✓		✓	✓
Vol. 1, Sec. 6.3.1						
Vol. 2, Sec. 5.14						
Recreation Facilities	Multi-purpose recreational complex (with swimming pool, fitness room, climbing wall, bowling alley, racquet sports, and program space)			✓	✓	✓
Vol. 1, Sec. 6.3.2						
Vol. 2, Sec. 5.15	Upgrade/renovate toddler play area			✓		
	Establish new area for ball games			✓		
	Establish ball diamond			✓		
	Establish gun range			✓		
Health and Wellness Facilities	Renovate existing hostel boarding home as facility to house people on medical visits			✓		
Vol. 1, Sec. 6.4	Build new wellness centre (potentially tied with multi-purpose recreation complex)			✓		✓
Vol. 2, Sec. 5.17				✓		✓
	Establish men's and youth crisis shelters			✓		✓

	Build regional addictions treatment centre and establish “on the land” drug and alcohol treatment program		✓	✓		✓
Adult Education	Centralize and expand NAC campus facility			✓		✓
Vol. 1, Sec. 6.5.3	Establish cultural training/education facility and/or Elders teaching centre			✓	✓	✓
Vol. 2, Sec. 5.20						
Public Housing	Improve Elders access to housing through walkways and ramps (especially in multiplexes)			✓		
Vol. 1, Sec. 6.6.1	Reallocate GN staff housing where this is not used			✓		
Vol. 2, Sec. 5.21				✓		
		Increase availability of short term/temporary accommodations for visitors (e.g. from Mines Training Centre, CHARs etc.)		✓	✓	
Staff Housing	Renovate or replace existing hamlet staff housing			✓		✓
Vol. 1, Sec. 6.6.2	Increase staff housing for GN staff and teachers			✓		✓
Vol. 2, Sec. 5.22						
Water System	Establish new/supplementary pump house and truck fill station close to Heat Station #2	✓				
Vol. 1, Sec. 6.7.1	Replace water trucks	✓				✓
Vol. 2, Sec. 5.23						
Waste Water and Sewage Disposal	Replace sewage trucks	✓				
Vol. 1, Sec. 6.7.2						
Vol. 2, Sec. 5.24						
Solid Waste	Establish gasification plant at landfill site as alternative to current incineration	✓				
Vol. 1, Sec. 6.7.3						
Vol. 2, Sec. 5.25						

LONG-TERM INFRASTRUCTURE PRIORITIES						
Hamlet Office Vol. 1, Sec. 6.1.1 Vol. 2, Sec. 5.1	Build new facilities providing office space for government and private enterprise		✓	✓		✓
Law Enforcement Vol. 1, Sec. 6.1.4 Vol. 2, Sec. 5.4	Build court facility			✓		
	Establish a land-based corrections facility			✓	✓	
Energy Vol. 1, Sec. 6.1.7 Vol. 2, Sec. 5.7	Utilize gasification plant at dump site as renewable energy source and tie to local electricity grid	✓	✓			
	Explore / experiment with wind generation as technology improves and becomes more robust for arctic environment	✓	✓			✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.2 Vol. 2, Sec. 5.9	Pursue implementation of Bathurst Inlet Port and Road Project (BIPAR project) (dock, 18 large fuel storage tanks, road to Contwoto Lake, airstrip and camps)		✓			✓
	Build bridge to Jack's Point		✓		✓	✓
Airport Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.10	Pave runway		✓			
Health and Wellness Facilities Vol. 1, Sec. 6.4 Vol. 2, Sec. 5.17	Establish homeless shelter			✓		
	Enlarge group home			✓		
	Establish Elders nursing/care home			✓		✓
Schools	Build new middle school			✓		✓

Vol. 1, Sec. 6.5.1 Vol. 2, Sec. 5.18	Integrate education facilities including day care, elementary school, high school			✓		✓
Day Care Vol. 1, Sec. 6.5.2 Vol. 2, Sec. 5.19	Integrate education facilities including day care, elementary school, high school			✓		
Public Housing Vol. 1, Sec. 6.6.1 Vol. 2, Sec. 5.21	Increase energy efficiency of public housing stock	✓				
Solid Waste Vol. 1, Sec. 6.7.3 Vol. 2, Sec. 5.25	Build new combined wastewater / solid waste facility using new technologies	✓				✓

6 Community Infrastructure Profile

This part of the report provides a concise overview of infrastructure systems and elements currently in place in the community. For each system, it describes:

- The current condition and capacity of each system
- Any issues identified with the system
- Investments that are already planned
- Recommendations for sustainable infrastructure investment based on community-identified priorities

For the purposes of this part, community infrastructure systems are organized under the following broad categories:

- Public Services Infrastructure
- Economic Infrastructure
- Cultural Infrastructure
- Health and Wellness Infrastructure
- Education Infrastructure
- Housing Infrastructure
- Environmental Infrastructure

6.1 Public Services Infrastructure

6.1.1 Hamlet Office

Table 2. Hamlet Office

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Hamlet Office 16 Omingmak Rd.	1987	2027	17 years	<ul style="list-style-type: none"> In poor condition with issues related to plumbing, sprinkler, high moisture/mould and some shifting which may create structural problems in the future. Adequate capacity for existing staff, but offers no room for growth or expansion. Repairs to major systems are reported to be costly (e.g. \$400K for sprinkler).
Helen Maksagak Centre (Ehoktok)	N/A			<ul style="list-style-type: none"> None, in good condition.
GN Building	N/A			<ul style="list-style-type: none"> None, in good condition.
Inukshuk Enterprises Building	N/A			<ul style="list-style-type: none"> None, in good condition.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> New Hamlet Office was identified as priority 1 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process; No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Build new Hamlet office (short term) Convert existing hamlet office into wellness centre or recreation facilities (short term) Build new facilities providing office space for government and private enterprise (long term) 			

6.1.2 Municipal Garages and Buildings

Table 3. Municipal Garages and Buildings

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Garage – 2 Bay 27 Omingmak Rd.	1970	2010	0 years	<ul style="list-style-type: none"> In very poor condition
Garage – 3 Bay (new) Mitik Rd.	1993	2033	23 years	<ul style="list-style-type: none"> In fair to good condition
Garage – 3 Bay (old) 3 Kamotik Rd	1970	2010	0 years	<ul style="list-style-type: none"> In poor condition
Government of Nunavut 9 Bay Garage	1960	2000	(-10) years	<ul style="list-style-type: none"> In poor condition
GN Renewable Resources Warehouse				
GN Silver Garage (1 bay)	2007	2047	37 years	<ul style="list-style-type: none"> In poor condition
Women's Cabin	2003	2043	33 years	
Infrastructure Priorities and Planned Investments				<ul style="list-style-type: none"> New 3-Bay Parking Garage was identified as priority 3 of 12 and 3-Bay Maintenance Garage as priority 4 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process; No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.
Recommendations				<ul style="list-style-type: none"> Build new 3-Bay parking garage for hamlet vehicles (water and sewer trucks) (short term) Build 3-Bay maintenance garage (medium term)

6.1.3 Municipal Vehicles

Table 4. Municipal Vehicles

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Yamaha - Bravo Snowmachine	2006	2013	3 years	
Yamaha - Bravo Snowmachine	1997	2004	(-6) years	
Ford Ranger 1/2 ton	1996	2003	(-7) years	
Ford F350	1997	2004	(-6) years	
1996 Ford Ranger 1/2 ton	2001	2008	(-2) years	
1994 Ford Handi Van (12 passengers - Elders)	2002	2009	(-1) years	
1997 Ford Ranger Pick up	2003	2010	0 years	
2005 Ford F150 - CARS	2006	2013	3 years	
Ford F150 - ASAO Admin/W&S	2006	2013	3 years	
Ford F150 – Wellness	2006	2013	3 years	
2006 Ford F250 SRW - Manager Municipal Services	2006	2013	3 years	
Ford Explorer XLT - SAO	2007	2014	4 years	
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Replace municipal vehicles as required (medium term) Replace municipal vehicles as required (short term) 			

6.1.4 Law Enforcement / RCMP

Table 5. Law Enforcement

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Law Centre	N/A			<ul style="list-style-type: none"> None, in good condition.
RCMP Detachment	1990			<ul style="list-style-type: none"> None, in good condition; 5 jail cells which will be retrofitted in 2010 to meet standards.
Staff Housing – 8 Units	Various old/newer			<ul style="list-style-type: none"> N/A
Ford Pick Ups (2)	2008			<ul style="list-style-type: none"> None, in good condition.
Chevy Pick Up (1)	2008			<ul style="list-style-type: none"> None, in good condition.
Quads (2)				<ul style="list-style-type: none"> 2 to be replaced 2010/11
Snowmobiles (2)				<ul style="list-style-type: none"> 1 to be replaced 2010/11
Boat				<ul style="list-style-type: none"> Not operational
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Build court facility (long term) Establish a land-based corrections facility (long term) 			

6.1.5 Fire Services

Table 6. Fire Services

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Fire Hall (attached to 3 bay garage)	1980s	2020	10 years	<ul style="list-style-type: none"> None, in fair condition and of adequate capacity.
International 1800 Fire Truck	1980	2000	(-10) years	<ul style="list-style-type: none"> In fair condition and used as back-up. Hamlet would like to retire the 1980 Fire Truck, obtain a new truck and use the 2000 as a back-up.
Ford 30 Cube Van Rescue Truck	1997	2017	7 years	<ul style="list-style-type: none"> None, in good condition and used for transportation and as an ambulance when required.
Chevy Fire Pumper Truck	2000	2020	10 years	<ul style="list-style-type: none"> None, in good to excellent condition.
Track Machine	N/A			<ul style="list-style-type: none"> None, used for emergency purposes
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> New Fire Truck was identified as priority 11 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Acquire new fire truck (medium term) Build new Fire Hall or enlarge and renovate existing Fire Hall (medium term) Establish 911 Service (short term) Acquire ambulance / emergency vehicle (short term) 			

6.1.6 Search and Rescue

Table 7. Search and Rescue

Asset	Acquired	Projected Useful Life	Remaining Life	Issues
Argo (GN)	N/A			
Infrastructure Priorities and Planned Investments		<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 		
Recommendations		<ul style="list-style-type: none"> Establish Search and Rescue building to store snowmobiles, boats, ATVs and equipment (medium term) 		

6.1.7 Power/Energy System Infrastructure

Table 8. Energy Infrastructure

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
QEC Power Plant	1967; addition in 1970	2007	(-3)	<ul style="list-style-type: none"> None, in good condition. Would like to relocate the tank farm to an area outside the town that would be established as an industrial zone. Repair or retrofitting of infrastructure is required to allow for some heat recovery with redirection to community garages located nearby. Existing diesel engines may be readily adapted to such use but the piping likely would need to be retrofitted.
1100 kW Generator	2010			
550 kW Generator	2007	2044	34 years	
720 kW Generator	1992	2012	2 years	
875 kW Generator	1988	2005	(-5) years	
Diesel Tanks (7) (4,955,524 L)				<ul style="list-style-type: none"> Based on current rates of sales / consumption, existing capacity will be completely utilized by the year 2010 – 11.
Gasoline Tanks (2) (962,315 L)				<ul style="list-style-type: none"> Based on current rates of sales / consumption, existing capacity will be completely utilized by the year 2010 – 11.
Jet A-1 Tanks (6) (3,578,351 L)				<ul style="list-style-type: none"> Based on current rates of sales / consumption, existing capacity will be completely utilized by the year 2014 – 15.

Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • Tank Farm Relocation Study was identified as priority 12 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process. • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.
Recommendations	<ul style="list-style-type: none"> • Establish street lighting throughout community (short term) • Incorporate R2000 standard for housing to reduce energy consumption (short term) • Increase fuel storage capacity – diesel, gasoline and Jet A1(short term) • Retrofit existing piping system to allow heat recovery from power plant to buildings (short term) • Link power plant heat recovery to fire hall, new and existing garages and other facilities (short term) • Relocate tank farm away from community (medium term) • Utilize gasification plant at dump site as renewable energy source and tie to local electricity grid (long term) • Explore / experiment with wind generation as technology improves and becomes more robust for arctic environment (long term)

6.2 Economic Infrastructure

6.2.1 Traditional Economy

Table 9. Traditional Economy

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Area Wildlife Office/Garage				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Establish soapstone and carving stone quarry (short term) • Build new community freezer (short term) • Establish facility to shear musk ox wool, process leather (medium term) • Build new facility to house HTO office (medium term) • Build access bridges to Mount Pelly area (medium term) • Infrastructure investment that supports commercial opportunities for making a living on the land (medium term) 			

6.2.2 Transportation - Road Maintenance Vehicles and Equipment

Table 10. Road Maintenance Vehicles and Equipment

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Bailey Bridge	1962 (?)			<ul style="list-style-type: none"> Being replaced with the old Pagnirtung bridge. Existing bridge will be relocated to another site.
Treadway Bridge				
Sioux Steamer 200GTT	1989	2007	(-3) years	<ul style="list-style-type: none"> None, in fair condition.
1998 Cat - 416C Backhoe	2003	2021	11 years	<ul style="list-style-type: none"> None, in fair condition.
2001 HICO HT01-H 5-man w/rear deck rubber track	2006	2024	14 years	<ul style="list-style-type: none"> None, in fair to good condition.
CAT 930G Loader	2007	2025	15 years	<ul style="list-style-type: none"> None, in good condition.
Chevy Stake Truck	1986	1993	(-17) years	<ul style="list-style-type: none"> In poor condition and used to clean-up.
Autocar GMC Dump Truck	1994	2001	(-9) years	<ul style="list-style-type: none"> None, in good condition.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> Replacement bridge project was identified as priority 2 of 3 by EDT in 2010; Road Maintenance Equipment (Grader, Dozer) was identified as priority 7 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process; No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			

Recommendations	<ul style="list-style-type: none"> • Purchase new loader (short term) • Purchase new dump Truck (short term) • Establish public transportation system (medium term) • Pursue implementation of Bathurst Inlet Port and Road Project (BIPAR project) (dock, 18 large fuel storage tanks, road to Contwoto Lake, airstrip and camps) (long term) • Build bridge to Jack's Point (long term)
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6.2.3 Transportation – Airport Infrastructure

Table 11. Airport

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Airport Terminal Building (552 sq.m.)	1993	N/A		<ul style="list-style-type: none"> • None, in good condition.
Maintenance Building	1959/1985			<ul style="list-style-type: none"> • In good condition. • Needs to be relocated as it is in the way of approach in 2015.
Power House/Elect Shop				
Airport Runway (70,104 m ²)	1988	2008	(-2) years	<ul style="list-style-type: none"> • In poor condition. • Needs additional 500' and need to address shoulders-safety issue. Dust suppressant will be applied in 2010. Dust down suppressant shipped for 2010 application (EK-35 dust suppressant). Paving in 2014/15. New stockpile and major overlay available.
Taxiway/Apron (13,230 m ²)	1988	N/A		<ul style="list-style-type: none"> • In poor condition.
Runway Lighting and FEC,	1993	2010	0 years	<ul style="list-style-type: none"> • None, in adequate condition.

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
ODALs etc.				
Access Road	N/A			<ul style="list-style-type: none"> In poor condition. Requires upgrading in 2016.
Truck – Runway	1998	2016/2024	6/14 years	
Truck - Runway	2000	2018	8 years	
Truck – dump/plow S/A	1994	2012	2 years	
Truck – dump/plow T/A	1974	2007	(-3) years	
Truck – tanker	1974	N/A		
Wheel Loader	1991	2009	(-1) years	
Motor Grader	1991	2014	4 years	
Crawler Tractor	1973	N/A		
Snowblower – mounted	1993	2013	3 years	
Packer – Wobbly Wheel	1984	N/A		
Packer – Wobbly Wheel	2000	2025	15 years	
Plow – one way	1993	N/A		
Plow – one way	1991	N/A		
Marker – Dye Markers	1993	N/A		
Hopper / Spreader	1993	2016	6 years	
Screening Plant	1980	N/A		
Snow bucket	1991	2017	7 years	

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Forks	1996	N/A		
Special	1981	N/A		
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • New airport and runway expansion was identified as priority 1 of 3 by ED&T in 2010. • Snow Fencing on Road to Airport was identified as priority 10 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process; • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Install snow fencing on road to airport (short term) • Relocate airport maintenance building (medium term) • Increase length of runway to allow larger jets to land (medium term) • Build new airport terminal building (medium term) • Upgrade and pave Airport Road (medium term) • Pave runway (long term) 			

6.2.4 Transportation – Marine

Table 12. Marine Transportation

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Floating Dock (15m x 5.7m x 1.1m)	1962			
Public / Community Dock (42m x 9m x 7m)				
Fixed Dock (federal / CG)	1978	2008	(-2) years	
Community crane				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • New harbour development plan was identified as priority 3 of 3 by ED&T in 2010. • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Extend dock facility 50 feet to allow access to greater depth harbour (short term) • Expand harbour/dock facilities to accommodate increased demand (medium term) • Extend dock / base for float planes (medium term) • Improve fuel handling facilities for marine transportation (e.g. purchase lightering vessels to transport supplies and equipment from larger ships including oil tankers) (medium term) 			

6.2.5 Communications

Table 13. Communications

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
None identified				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Establish 911 system (short term) • Increase bandwidth (short term) 			

6.2.6 Commercial Facilities

Table 14. Commercial Facilities

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
None identified				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Additions to access roads to increase and expand tourism opportunities (medium term) • Build new meat and fish processing plant (medium term) • Increase commercial storage space to support economic activity including in mining and other sectors (short term) • Support establishment of Canadian High Arctic Research Station (short term) 			

6.3 Cultural Infrastructure

6.3.1 Culture, Heritage, Language and Arts

Table 15. Culture, Heritage, Language and Arts

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Arctic Coast Tourist Centre				<ul style="list-style-type: none"> None, in fair condition.
May Hakongak Community Library and Cultural Centre				<ul style="list-style-type: none"> None, in excellent condition.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Establish cultural training facility (medium term) Enlarge Visitor / Tourism Center (short term) Renovate building adjacent to Elders Centre to allow for cold storage space for skins etc. for sewing (short term) 			

6.3.2 Recreation Facilities

Table 16. Recreation Facilities

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Community Hall	1987, renovated in 2000s for storage	2027	17 years	<ul style="list-style-type: none"> In fair condition. Insufficient for current community size / needs.
Gym / Weight Room				<ul style="list-style-type: none"> In fair condition, but within building that is in poor condition. Insufficient size to meet community demand /need.
Swimming Pool	1997	2037	27 years	<ul style="list-style-type: none"> In poor condition, but very well-used. Pool liner is ruptured and mould is present in the building. Major renovations or replacement are required.
Basketball Pad	2005	2023	13 years	<ul style="list-style-type: none"> None, in good condition.
Arena / Curling Rink				<ul style="list-style-type: none"> In poor condition and has mould and mechanical issues. Major renovations are required.
Baseball diamond				<ul style="list-style-type: none"> In good condition. O+M is very high due to fuel costs
Olympia Zamboni	1997			

Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • Arena/Hamlet Office New/Reno/Upgrade was identified as priority 2 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process. • Community Hall Expansion was identified as priority 6 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process. • Swimming Pool (renovations or new) was identified as priority 8 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process. • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.
Recommendations	<ul style="list-style-type: none"> • Expand community Hall (short term) • Multi-purpose recreational complex (with swimming pool, fitness room, climbing wall, bowling alley, racquet sports, and program space) (medium term) • Upgrade/replace swimming pool (short term) • Renovate/repair basketball pad (i.e. increase to full court size and add fencing) (short term) • Establish new/upgraded playground at school (short term) • Install concrete floor in arena (short term) • Acquire new ice-maker (short term) • Sports equipment upgrades (short term) • Upgrade/renovate toddler play area (medium term) • Establish new area for bal games (medium term) • Establish ball diamond (medium term) • Establish gun range (medium term)

6.3.3 Elders and Youth Facilities

Table 17. Elders and Youth Facilities

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Youth Centre 9 A&B Kingmik Rd.	1980	2020	10 years	<ul style="list-style-type: none"> None, in good condition and well used.
Elders Centre 2 Omingmak Rd.	1975	2015	5 years	<ul style="list-style-type: none"> None, in fair condition and very well used.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Renovate Elders Centre (short term) 			

6.4 Health and Wellness Infrastructure

Table 18. Health and Wellness Facilities

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Crisis Shelter 3 Okalik	1972	2012	2 years	<ul style="list-style-type: none"> None, in fair to good condition.
Cambridge Bay Wellness Centre (old Health Centre)	Circa 1980s			<ul style="list-style-type: none"> In poor condition and old.
Old Wellness Centre	1960			<ul style="list-style-type: none"> Fairly large space only used for storage. Requires renovations and repairs to be operational. Could potentially be adapted for morgue which is using the 2-Bay Garage provided by Hamlet.
Kitikmeot Health Centre	2005			<ul style="list-style-type: none"> None, in excellent condition.
Nursing Residence	Circa 1980s			
Group Home	N/A			<ul style="list-style-type: none"> None, in fair condition.
Hostel / Boarding Home	N/A			<ul style="list-style-type: none"> In fair condition; Not in use but has been discussed as a potential boarding facility e.g. for use by NAC students, possibly when the Mine Training Centre is established.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			

Recommendations	<ul style="list-style-type: none">• Renovate an existing building to serve as a morgue (short term)• Renovate existing hostel boarding home as facility to house people on medical visits (medium term)• Build new wellness centre (potentially tied with multi-purpose recreation complex) (medium term)• Establish men’s and youth crisis shelters (medium term)• Build regional addictions treatment centre and establish “on the land” drug and alcohol treatment program (medium term)• Establish homeless shelter (long term)• Enlarge group home (long term)• Establish Elders nursing/care home (long term)
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6.5 Education Infrastructure

6.5.1 Elementary / High School

Table 19. Schools

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Junior High Annex (Clc #3)				
Kiiliniik High School (New)	2001			<ul style="list-style-type: none"> • None, in excellent condition; • At 66% capacity (200/302).
Kullik Ilihakvik	1993, renovated 2000			<ul style="list-style-type: none"> • None, in good condition; • At 65% capacity (192/303).
School Bus				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process, • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Minor renovations to Kullik Ilihakvik school (e.g. gym floor; increased storage space; outdoor recreational area) (short term) • Build new middle school (long term) • Integrate education facilities including day care, elementary school, high school (long term) 			

6.5.2 Day Care

Table 20. Day Care

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Daycare	1995	2035	25 years	<ul style="list-style-type: none"> • None, in fair to good condition. • Currently of adequate capacity, but not for growth. • Waiting list of approximately 10 children including infants.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Expand day care facility (short term) • Integrate education facilities including day care, elementary school, high school (long term) 			

6.5.3 Adult Education

Table 21. Adult Education

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Nunavut Arctic College (Main Building)	circa 1990			<ul style="list-style-type: none"> In poor condition.
NAC -Community Learning Centre	Circa 1995			<ul style="list-style-type: none"> None, in good condition.
NAC Annex (Grey Building)	Circa 1995			<ul style="list-style-type: none"> N/A
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; NAC has committed funds from 2010-15 for Kitikmeot Campus/Mine Training Centre. 			
Recommendations	<ul style="list-style-type: none"> Build new Mines Training Centre (short term) Centralize and expand NAC campus facility (medium term) Establish cultural training/education facility and/or Elders teaching centre (medium term) 			

6.6 Housing Infrastructure

6.6.1 Public Housing

Table 22. Public Housing

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
85 Single Family Housing Units	79 Pre-1990 6 Post-1990			<ul style="list-style-type: none"> Condition rating: 86 (79 units rated) Condition rating: 91 (6 units rated)
36 Duplex	24 Pre-1990 12 Post-1990			<ul style="list-style-type: none"> Condition rating: 89 (24 units rated) Condition rating: 93 (12 units rated)
71 Multi-Family Units	46 Pre-1990 25 Post-1990			<ul style="list-style-type: none"> Condition rating: 89 (46 units rated) Condition rating: 89 (20 units rated)
4 Not Identified				
18 NHC Leased Units				
1 Office				
1 Warehouse				
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. NHC Capital Projection (AHI) has 12 units planned from 2010-2011: 7 Single Family and 1 Five-plex. NHC has committed 2798K (1699k GN Main and 1099 CMHC) from 2009-2014 for M&I Retrofit. 			

Recommendations	<ul style="list-style-type: none">• Introduce homeownership programs (short term)• Design bachelor and single housing units with more functionality (e.g. laundry and storage) (short term)• Improve Elders access to housing through walkways and ramps (especially in multiplexes) (medium term)• Build two new apartment buildings (short term)• Reallocate GN staff housing where this is not used (medium term)• Increase availability of temporary accommodations for visitors (e.g. from Mines Training Centre, CHARS etc.) (medium term)• Increase energy efficiency of public housing stock (long term)
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6.6.2 Staff Housing

Table 23. Staff Housing

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Arctic College Residence				
Hamlet Residential Duplex #1 22 Ominmak Rd	1995	2035	25 years	<ul style="list-style-type: none"> Used as staff house / by basketball court.
Hamlet Residential Duplex #2 11 Kangok Rd	1970	2010	0 years	<ul style="list-style-type: none"> In good condition. Used as Youth Centre.
Hamlet Residential Duplex #3				<ul style="list-style-type: none"> In fair condition. Used as radio station / house.
Staff House SAO 6 Okalik Street	1972	2012	2 years	<ul style="list-style-type: none"> In poor condition.
Staff House (Spare) 39 Tuktu Street	1972	2012	2 years	<ul style="list-style-type: none"> None, in fair condition.
Residential Duplex 15 Mitik Rd.	1970s			<ul style="list-style-type: none"> In poor condition.
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> Renovate or replace existing hamlet staff housing (medium term) Increase staff housing for GN staff and teachers (medium term) 			

6.7 Environmental Infrastructure

6.7.1 Water

Table 24. Water System

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Water Plant 1 Kamotik Rd.	1982	2012	2 years	<ul style="list-style-type: none"> In poor condition. Water Storage Tank is considered under capacity and in poor condition.
Remote Pumphouse & Boiler Room (truck fill station at Water Lake)	1986	2016	6 years	<ul style="list-style-type: none"> In poor condition.
Water Pipeline	2006	2036	26 years	<ul style="list-style-type: none"> In poor condition. Requires upgrade.
Heat Station (north)				
Heat Station (south)				
2005 Sterling CHAMT45 Water Truck	2006	2013	3 years	<ul style="list-style-type: none"> In poor condition.
Sterling M8500 Water Truck	2003	2010	0 years	<ul style="list-style-type: none"> In poor condition.
Sterling Acterra Water Truck	2008	2015	5 years	<ul style="list-style-type: none"> None, in excellent condition.
Sterling Acterra Water Truck	2009	2016	6 years	<ul style="list-style-type: none"> None, in excellent condition.

Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none">• Re-epoxy existing Water Tank was identified as priority 5 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process;• Replace Water Tank (200,000 Litre) was identified as priority 9 of 12 by the Hamlet Council in 2010 through the biennial NCIAC planning process;• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.
Recommendations	<ul style="list-style-type: none">• Install new water tank (200K litre) (short term)• Install new/additional tank at Heat Station #1 (short term)• Build new pumphouse and install new boiler (short term)• Establish new/supplementary pump house and truck fill station close to Heat Station #2 (medium term)• Replace water trucks (medium term)

6.7.2 Waste Water and Sewage Disposal

Table 25. Waste Water and Sewage Disposal

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Sewage lagoon	1978	2008	(-2) years	<ul style="list-style-type: none"> Meets current needs, but is close to capacity, and is not operating to standard i.e. there are flows through the adjacent dump site to the bay. Modifications planned include the addition of a new cell, incorporating some dams to control flow, and fencing is also planned. Tender has been issued by CGS to bring the sewage lagoon to standards, and \$3 million is reflected in the capital plan.
2009 Sterling Acterra Vacuum Truck	2009			
2008 Sterling Acterra Vacuum Truck	2008			
2006 Sterling Acterra Vacuum Truck	2006			
2004 Sterling Acterra Vacuum Truck	2004			
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process; CGS has committed \$750,000 (Gas Tax Fund) from 2009-2010 for Sewage Lagoon. 			
Recommendations	<ul style="list-style-type: none"> Increase capacity at sewage lagoon and redirect flow away from solid waste site (short term) Replace sewage trucks (medium term) 			

6.7.3 Solid Waste Disposal

Table 26. Solid Waste

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Solid Waste Management Facilities				<ul style="list-style-type: none"> • Solid waste site is at capacity. • Garbage is incinerated and there is no segregation with the exception of metals, which are maintained at a separate site close to the main dump. • Hamlet has undertaken a pilot project to ship metal waste by sea can. In 2009 six sea cans were shipped with metal, but this hardly made a dent in the waste at the site, which has been extensive since the dismantling of the old school and the dumping of waste at the site. • Hamlet is exploring options for a gasification project.
2004 Sterling L7501 Garbage Truck	2007	2014	4 years	
Infrastructure Priorities and Planned Investments	<ul style="list-style-type: none"> • No priorities were identified by the Hamlet Council in 2010 through the biennial NCIAC planning process. • No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds. 			
Recommendations	<ul style="list-style-type: none"> • Establish solid and metal waste site management plan and provide associated training (short term) • Establish recycling depot at landfill site (short term) • Establish gasification plant at landfill site as alternative to current incineration (medium term) • Build new combined wastewater / solid waste facility using new technologies (long term) 			

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7.2 Acronyms

Table 27. Acronyms

AHI	Affordable Housing Initiative
CEDP	Community Economic Development Plan
CGS	Department of Community and Government Services, GN
EDT	Department of Economic Development and Transportation
GN	Government of Nunavut
GTF	Gas Tax Fund
HSS	Department of Health and Social Services
ICISP	Integrated Community Infrastructure Sustainability Plan
MFU	Multi-family unit
MTO	Municipal Training Organization
NAM	Nunavut Association of Municipalities
NCIAC	Nunavut Community Infrastructure Advisory Committee
NHT	Nunavut Housing Trust
NPC	Nunavut Power Corporation
SAO	Senior Administrative Officer
SFU	Single family unit

7.3 Key Definitions and Terms

Table 28. Key Definitions and Terms

Cultural Sustainability	A community's capacity to develop, retain and protect its culture and identity, and transmit that culture to future generations.
Economic Sustainability	The capacity of a community to maintain a stable and diversified economy that has minimal negative impacts on the environment and uses appropriate technologies and renewable resources where possible.
Environmental Sustainability	The capacity of a natural environment to meet human needs while remaining balanced and healthy, without damage to air, land, water or wildlife.
Social Sustainability	The ability of the community, individuals and families to ensure the basic needs of all residents with respect to food, shelter and safety are met, that there are opportunities for community and personal development, and that there is social equity in the community.
Goal	A broad statement that describes some aspect of the future the community hopes to achieve.
Sustainability goals	Goals that will preserve and enhance the culture, the society, the economy and the environment of a community, at a cost that the community can afford over time.
Infrastructure	The facilities, systems and equipment that provide public services and support private sector economic activity, including network infrastructure (e.g., roads, bridges, water and wastewater systems), buildings, machinery and equipment.
Infrastructure System	A set of linked infrastructure elements that collectively make up a "system". For example, a reservoir, pipes, a water truck, a purification plant, and a pumping station are all parts of a water infrastructure system.
Planning	The process of developing a long-term vision of what a community will be like in the future, and determining what specific steps and resources it will need to achieve that vision.