

**Vol. 1  
Community  
Priorities**

**Infrastructure for a Sustainable Chesterfield  
Inlet**



**Prepared for the Government of  
Nunavut By Aarluq Consulting Inc.**

**Approved by the Hamlet Council of  
Chesterfield Inlet March 17, 2011**

# **Infrastructure for a Sustainable Chesterfield Inlet**

## **Volume One: Community Priorities**

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A report prepared for the Government of Nunavut by Aarluk Consulting Inc.

Approved by the Hamlet of Chesterfield Inlet March 17, 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 (insert community name) for their assistance in this planning.

- Harry Tootoo, Mayor of Chesterfield Inlet
- Members of Chesterfield Inlet Hamlet Council
- Lillian Simik, Acting Senior Administrative Officer
- David Kattegesiak, Community Economic Development Officer
- All those who came out and participated in the community planning session and open forum. Your commitment to your community's future is appreciated.

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## 1 Executive Summary

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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 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 of 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 Chesterfield Inlet ICISP began in the fall of 2009. The community consultation meeting was held on November 19<sup>th</sup> and 20<sup>th</sup> 2009. A draft was provided to



Council for review and approved on March 17, 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 Chesterfield Inlet are set in table format in this volume, and explored in greater depth in Volume 2 of this report.

Many of Chesterfield Inlet's sustainable infrastructure issues are shared with other communities across Nunavut. These include challenges arising from geography and

climate, a young and growing population served by already overburdened infrastructure, and a limited economy.

Chesterfield Inlet's infrastructure challenges are particularly acute in the areas of housing, water, sewage and solid waste, and infrastructure systems in the education, health care and recreational sectors.

Sustainable community infrastructure is needed now and will continue to be needed in the future to support existing economic activity, stimulate economic diversification, and enable greater participation in mainstream and traditional economic activities.

Social conditions and trends suggest both a short-term and ongoing need for investment in community education, housing, health and recreation and related infrastructure systems.

The protection and promotion of Inuit culture, language and heritage can be achieved through investment in infrastructure systems that support the traditional economy, recreational infrastructure and facilities that bring community members together to share and transmit culture, language and heritage.

## 2 Guide to the Report

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This report summarizes the findings and recommendations of a planning process conducted by the Government of Nunavut and the Hamlet of Chesterfield Inlet 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 Chesterfield Inlet, 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

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Chesterfield Inlet, or *Igluligaarjuk* in Inuktitut (meaning places with a few houses), is a small community located on the west coast of Hudson Bay in Nunavut's Kivalliq region, approximately 101 km north of Rankin Inlet and 1600 km north of Winnipeg (N63° 19' W90° 14').

Chesterfield Inlet is one of the oldest settlements in Nunavut, with a history dating back to the whalers who once wintered in the region. Named about 1749 after Philip Dormer (Stanhope), 4th Earl of Chesterfield (1694-1773) who was the Secretary of State from 1746-48. The community is located near the inlet that bears its' name, which runs from Hudson Bay to Baker Lake. The inlet on which the community sits was once used as a summer settlement for the Thule Inuit.

From the mid 1800's to the beginning of this century, whalers visited the area regularly and often over-wintered in Chesterfield Inlet. They counted on local Inuit to hunt for them and to man their whaleboats.

At Chesterfield Inlet, Inuit often gathered to seek employment or to trade goods. Until the 1950's the community was a major centre North of Churchill, Manitoba. It was the Hudson's Bay Company's main supply centre for other posts in the area. Chesterfield was also the site of the largest RCMP barracks and the largest Roman Catholic mission in the eastern arctic, as well as the medical and educational centre for the region.

The 2006 Census reported the total population of Chesterfield Inlet to be 332, of which approximately 50% were female and 50% male.

Chesterfield Inlet's population grew 2.4% between 1996 and 2001, but declined 3.8% between 2001 and 2006. Rates of growth are lower than the territorial average of 10.2%. The estimated population of Chesterfield Inlet in 2020 is 583.

Chesterfield Inlet experiences higher participation rates and identical unemployment rates as those for the territory as a whole. In the 2006 Census it was reported Chesterfield Inlet had a participation rate of 74.4% and an unemployment rate of 15.6%, while the territory had participation rate of 65.3% and an unemployment rate of 15.6%.

Residents participate in a variety of occupations, but are predominantly employed in sales and services; social science, education, government service and religious occupations; and trades, transport and equipment operators and related occupations.

With respect to educational achievement, the 2006 Census reported that among the population age 15 and over, 59.5% had no certificate, diploma or degree (including high school), while 9.5% reported the highest level of educational achievement to be high school certificate or equivalent.

4.8% of the population reported a trades or apprenticeship-related certification or diploma as their highest level of educational achievement. With respect to other post-

secondary education outcomes, 19% of residents reported a non-university diploma or certificate and 4.8% reported a university certificate, diploma or degree.



## 4 Community Sustainability Goals and Priorities

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As part of the Chesterfield Inlet 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, Chesterfield Inlet participants felt that these goals adequately reflect the community's views and perspectives on sustainability for the purposes of this planning exercise. Participants confirmed that sustainability is a relevant concept for today and the future and should be considered in future planning and decision making processes.

## 5 Summary of Community Infrastructure Needs

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### *5.1 Community Infrastructure Needs, By Time Frame*

Table 1 below sets out Chesterfield Inlet'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
<b>SHORT-TERM INFRASTRUCTURE PRIORITIES (ST)</b>						
Hamlet Office Vol. 1, Sec. 6.1.1 Vol. 2, Sec. 5.1	Separate Council Chambers from the gym area			✓		
Municipal Garages Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Demolish 3-bay garage	✓	✓			
Municipal Garages Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Minor repairs to CGS/DPW warehouse	✓	✓			
Municipal Garages Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Install heating and lighting systems in warehouse	✓	✓			
Municipal Garages Vol. 1, Sec. 6.1.2 Vol. 2, Sec. 5.2	Renovate 4 Bay Garage attached to Fire Hall		✓			
Municipal Vehicles Vol. 1, Sec. 6.1.3 Vol. 2, Sec. 5.3	New pickup trucks for Hamlet use		✓			

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
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Increase diesel tank storage capacity		✓			
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Increase gasoline tank storage capacity		✓			
Traditional Economy Vol. 1, Sec. 6.2.2 Vol. 2, Sec. 5.8	Acquire pickup truck for Wildlife Officer			✓	✓	
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Acquire rock crusher	✓	✓	✓		✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Develop quarry / gravel pit to increase supply of granular material for roads, housing and other uses	✓	✓	✓		

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
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Maintain and enhance snow fence around Chesterfield Inlet	✓	✓	✓		✓
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Build new airport terminal building		✓			✓
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Build storage garage at airport		✓			
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Replace timber on lower tidal section of the dock face	✓	✓		✓	
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Install two new shoreline bollards		✓			
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Install dock jib winch		✓			

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
Elders and Youth Facilities Vol. 1, Sec. 6.3.3 Vol. 2, Sec. 5.16	Youth drop-in Centre			✓	✓	✓
Day Care Vol. 1, Sec. 6.5.2 Vol. 2, Sec. 5.19	Enhanced daycare facility with a pre-school program and playground			✓	✓	✓
Public Housing Vol. 1, Sec. 6.6.1 Vol. 2, Sec. 5.21	Complete housing needs assessment			✓	✓	✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Develop integrated solution for water supply and distribution system	✓				✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Establish secondary road to reservoir	✓				✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Replace water pump house at reservoir	✓				✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Replace cast iron tanks/pumps that remain in individual housing units.	✓		✓		



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
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Establish an ice-house (winter) or water-house (summer) providing untreated drinking water supply to Elders.	✓		✓	✓	✓
Waste Water and Sewage Disposal Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.24	Sample water quality at sewage lagoon at discharge/outflow point	✓				
Waste Water and Sewage Disposal Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.24	Establish engineered sewage treatment plant / facility	✓	✓			✓
Solid Waste Vol. 1, Sec. 6.7.3 Vol. 2, Sec. 5.25	Maintain and enhance snow fence around dump site	✓				
Solid Waste Vol. 1, Sec. 6.7.3 Vol. 2, Sec. 5.25	Improve segregation of garbage at land fill site	✓		✓		
Solid Waste Vol. 1, Sec. 6.7.3 Vol. 2, Sec. 5.25	Establish new system to deal with garbage (e.g. compression)	✓				

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
<b>MEDIUM-TERM INFRASTRUCTURE PRIORITIES</b>						
Hamlet Office Vol. 1, Sec. 6.1.1 Vol. 2, Sec. 5.1	Renovate existing hamlet office (and community complex) to use space more efficiently and create larger offices and storage, or establish new hamlet office including Council Chambers		✓	✓		✓
St. Theresa Home / Office Building Vol. 1, 5.1.1 Vol. 2, 5.1.2	Redevelop St. Theresa Home as additional community office space		✓			✓
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Explore alternative energy sources including wind turbines and technologies appropriate to northern climate conditions to reduce reliance on fossil fuels	✓	✓			✓
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Establish a new power station or move existing power facilities to a new location	✓	✓	✓		✓
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Relocate tank farm to create area for future housing development	✓	✓	✓		✓

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
Traditional Economy Vol. 1, Sec. 6.2.2 Vol. 2, Sec. 5.8	Develop fish plant to process, package, label, and market fish products using all existing fish quota		✓		✓	✓
Traditional Economy Vol. 1, Sec. 6.2.2 Vol. 2, Sec. 5.8	Establish caribou meat processing facility		✓		✓	✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Build road to Josephine Lake to assist in the development of the mine		✓			✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Acquire new loader		✓			
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Acquire new back hoe		✓			
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Resurface runway apron		✓			

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
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Acquire new pickup truck		✓			
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Acquire new snow-blower		✓			
Airport Infrastructure Vol. 1, Sec. 6.2.4 Vol. 2, Sec. 5.10	Extend airport runway to allow larger aircraft to land and establish Chesterfield Inlet as a hub for transportation in the Kivalliq region		✓			✓
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Establish small craft harbour		✓		✓	✓
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Complete feasibility study on establishment of a deep sea port		✓			✓
Marine Infrastructure Vol. 1, Sec. 6.2.5 Vol. 2, Sec. 5.11	Move landing beach at least 300 feet west		✓	✓		✓
Commercial Facilities Vol. 1, Sec. 6.2.7 Vol. 2, Sec. 5.13	Establish a new/expanded hotel facility		✓			✓

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
Commercial Facilities Vol. 1, Sec. 6.2.7 Vol. 2, Sec. 5.13	Establish a fish processing plant		✓		✓	✓
Commercial Facilities Vol. 1, Sec. 6.2.7 Vol. 2, Sec. 5.13	Build commercial facilities that can support the mining sector		✓			✓
Heritage, Language and Arts Vol. 1, Sec. 6.3.1 Vol. 2, Sec. 5.14	Develop an Interpretive Centre to house historic information on Thule sites, whaling history etc.		✓		✓	✓
Heritage, Language and Arts Vol. 1, Sec. 6.3.1 Vol. 2, Sec. 5.14	Designate Chesterfield Inlet a National Historic Site and establish an interpretive Centre, museum, and other historic buildings and sites		✓		✓	✓
Heritage, Language and Arts Vol. 1, Sec. 6.3.1 Vol. 2, Sec. 5.14	Redevelop St. Theresa’s Hospital as an arts/heritage/culture centre and/or office facility		✓		✓	✓
Recreation Infrastructure Vol. 1, Sec. 6.3.2 Vol. 2, Sec. 5.15	Establish new recreation facilities (e.g. baseball diamonds, soccer pitch, snowmobile race course, curling rink and indoor swimming pool)			✓	✓	
Recreation Infrastructure Vol. 1, Sec. 6.3.2 Vol. 2, Sec. 5.15	Increase size of gymnasium			✓	✓	

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
Recreation Infrastructure Vol. 1, Sec. 6.3.2 Vol. 2, Sec. 5.15	Increase arena to regulation size			✓		
Elementary and High School Infrastructure Vol. 1, Sec. 6.5 Vol. 2, Sec. 5.18	Renovations to expand capacity of school and address issues with water system, bathrooms, sprinkler and mould and asbestos	✓		✓		
Adult Education Vol. 1, Sec. 6.5.3 Vol. 2, Sec. 5.20	Establish skills training centre offering diverse training in areas such as health care, handicap/disability worker training and certification, carpentry, welding, plumbing and heating, cook training, mining jobs, early childhood training, CPR and other skills training			✓	✓	✓
Adult Education Vol. 1, Sec. 6.5.3 Vol. 2, Sec. 5.20	Enhance Nunavut Arctic College infrastructure			✓	✓	✓
Health and Wellness Infrastructure Vol. 1, Sec. 6.4 Vol. 2, Sec. 5.17	Build dental facility			✓		

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
Health and Wellness Infrastructure Vol. 1, Sec. 6.4 Vol. 2, Sec. 5.17	Establish assisted living centre			✓	✓	✓
Public Housing Vol. 1, Sec. 6.6.1 Vol. 2, Sec. 5.21	Renovate existing housing units			✓		✓
Public Housing Vol. 1, Sec. 6.6.1 Vol. 2, Sec. 5.21	Increase available new housing units (multi-family and single family dwellings)			✓		✓
Staff Housing Vol. 1, Sec. 6.6.2 Vol. 2, Sec. 5.22	Increase staff housing stock			✓		
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Relocate reservoir	✓		✓		✓
Solid Waste Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.25	Expand dump	✓				✓

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
Solid Waste Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.25	Introduce recycling programs and improved waste management practices e.g. for waste oil, metals, vehicles, hazardous waste etc.	✓		✓		✓
Solid Waste Vol. 1, Sec. 6.7.2 Vol. 2, Sec. 5.25	Acquire new garbage truck	✓	✓			
<b>LONG-TERM INFRASTRUCTURE PRIORITIES</b>						
Power/Energy System Infrastructure Vol. 1, Sec. 6.2.1 Vol. 2, Sec. 5.7	Establish power transmission line from Manitoba		✓			✓
Road Maintenance Vehicles and Equipment Vol. 1, Sec. 6.2.3 Vol. 2, Sec. 5.9	Build road from Chesterfield Inlet to Rankin Inlet		✓			✓
Commercial Facilities Vol. 1, Sec. 6.2.7 Vol. 2, Sec. 5.13	Establish a boat manufacturing facility		✓			✓



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
Recreation Infrastructure Vol. 1, Sec. 6.3.2 Vol. 2, Sec. 5.15	New community centre encompassing a daycare, playground, gymnasium, recreation office, drop-in centre, and workout facility			✓	✓	✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Establish water treatment at the lake site rather than at reservoir	✓				✓
Water Vol. 1, Sec. 6.7.1 Vol. 2, Sec. 5.23	Establish a water/sewer utilidor	✓	✓	✓		✓

## 6 Community Infrastructure Profile

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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
Community Hall, Office and Gymnasium	1986	2026	16	<ul style="list-style-type: none"> <li>• Hamlet office is located in the community complex, is in fair condition but needs major renovations including to the design/organization of existing office space.</li> <li>• Hamlet Council Chambers are co-located with the community gym and noise from the gym disrupts meetings in the Chamber</li> <li>• Community complex boiler room floor soaked with fuel oil and may have contaminated joist work. Boilers were installed in 1985 and are considered to be very old</li> <li>• Fire safety and air ventilation systems are not functional</li> <li>• Very little storage space in Hamlet office – again, redesign and reconfiguration could potentially address this issue</li> </ul>
St. Theresa Home / Office Building	1940s			<ul style="list-style-type: none"> <li>• Building is structurally sound but there are concerns about health and safety because of the presence of asbestos.</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Separation of Council Chambers from the gym area. (short term)</li> <li>• Renovation of existing hamlet office (and community complex) to use space more efficiently and create larger offices and storage, or new hamlet office including Council Chambers. (medium term)</li> <li>• Redevelop St. Theresa Home as additional community office space (medium term)</li> </ul>			

### 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
3 Bay Garage	1965	2005	(-5)	
Maintenance Garage	1989	2029	19	<ul style="list-style-type: none"> <li>In fair to good condition but experiences problems with water runoff in the spring time (i.e. water runs through the building)</li> </ul>
Warehouse	1965	2005	(-5)	<ul style="list-style-type: none"> <li>Warehouse is attached to maintenance garage but has no heating system. Should be rewired with new lighting and a heating system. Potentially could be adapted to other uses</li> </ul>
Trades Warehouse (DPW)	1980	2020	10	<ul style="list-style-type: none"> <li>In good condition but needs minor repairs (garage doors)</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>Potential construction by CIDC of 60X80 foot building to store heavy equipment and vehicles.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Demolish 3-bay garage (short term)</li> <li>Minor repairs to CGS/DPW warehouse (short term)</li> <li>Install heating and lighting systems in warehouse (short term)</li> <li>Renovate parking garage (medium term)</li> </ul>			

### 6.1.3 Municipal Vehicles

**Table 4. Municipal Vehicles**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
2004 Ford F-150 Pick-up	2008	2015	5	
1997 Ford - F150 SC XL	1997	2004	(-6)	
Ford F150 4X4	2001	2008	(-2)	
2004 Ford F-150	2004	2011	1	
2003 Ford F150 Supercab	2004	2011	1	
<b>Infrastructure Priorities and Planned Investments</b>		<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>		
<b>Recommendations</b>		<ul style="list-style-type: none"> <li>New pickup trucks for Hamlet use (short term)</li> </ul>		

**6.1.4 Law Enforcement / RCMP**

**Table 5. Law Enforcement**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
RCMP Detachment				
RCMP Staff Housing (TBD)				
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>				

**6.1.5 Fire Services**

**Table 6. Fire Services**

<b>Asset</b>	<b>Acquired (Year)</b>	<b>Projected Useful Life (Year)</b>	<b>Years of Remaining Life</b>	<b>Issues</b>
Fire Hall	1993	2033	23	
Sterling Aceterra Fire Truck	2007	2027	17	
1984 IHC Fire Truck	1984	2004	(-6)	<ul style="list-style-type: none"> <li>Decommissioned</li> </ul>
4 Bay Garage & Fire hall	1987	2027	17	<ul style="list-style-type: none"> <li>4-Bay Garage is very old and had a fire in 1980s, at which time all the wiring was replaced. This building needs major renovation (e.g. heating systems) or replacement. It is used for parking vehicles in the winter time.</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Renovate 4 Bay Garage attached to Fire Hall (medium term)</li> </ul>			

**6.1.6 Search and Rescue**

**Table 7. Search and Rescue**

Asset	Acquired	Projected Useful Life	Remaining Life	Issues
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• None identified</li> </ul>			



## 6.2 Economic Infrastructure

### 6.2.1 Power/Energy System Infrastructure

Table 8. Energy Infrastructure

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
QEC Power Plant	1975	2015	5	<ul style="list-style-type: none"> <li>In poor condition: too small and poorly constructed;</li> <li>Identified as a priority by QEC</li> </ul>
300 kW Generator	1993	2011	1	
200 kW Generator	2002	2059	49	
360 kW Generator	1985	2017	7	
Diesel Tanks (5)				<ul style="list-style-type: none"> <li>Capacity to meet short term needs</li> </ul>
Gasoline Tanks (4)				<ul style="list-style-type: none"> <li>Capacity in 5 to 10 years</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>The CED Plan calls for review of options for power generation (i.e. alternatives to reliance on fossil fuels) and to identify benefits and costs of each.</li> </ul>			

<b>Recommendations</b>	<ul style="list-style-type: none"><li>• Increase diesel tank storage capacity (short term)</li><li>• Increase gasoline tank storage capacity (short term)</li><li>• Explore alternative energy sources including wind turbines and technologies appropriate to northern climate conditions to reduce reliance on fossil fuels (medium term)</li><li>• Establish a new power station or move existing power facilities to a new location (medium term)</li><li>• Relocate tank farm to create area for future housing development (medium term)</li><li>• Establish power transmission line from Manitoba (long term)</li></ul>
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### 6.2.2 Traditional Economy

**Table 9. Traditional Economy**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Community Freezer	1980	2020	10	
Community Freezer	2008/09			
HTO Boat				<ul style="list-style-type: none"> <li>Has not been operational for many years.</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>The CED Plan calls for development of a new federally certified fish plant that can process, package, label, and market fish products using all existing fish quota as well as a caribou meat processing facility (following completion of feasibility studies).</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Acquire pickup truck for Wildlife Officer (short term)</li> <li>Develop fish plant to process, package, label, and market fish products using all existing fish quota (medium term)</li> <li>Establish caribou meat processing facility (medium term)</li> </ul>			

**6.2.3 Transportation - Road Maintenance Vehicles and Equipment**

**Table 10. Road Maintenance Vehicles and Equipment**

<b>Asset</b>	<b>Acquired (Year)</b>	<b>Projected Useful Life (Year)</b>	<b>Years of Remaining Life</b>	<b>Issues</b>
Caterpillar Front End Loader 950F	1992	2010	0	
Caterpillar Grader 140G	1994	2012	2	<ul style="list-style-type: none"> <li>Grader may have an engine problem that needs to be resolved.</li> </ul>
Caterpillar D6H	1996	2014	4	
CAT Wheel Loader 950H	2007	2025	15	
2003 International - Dump Truck SF625	2003	2010	0	
Granular Supply				<ul style="list-style-type: none"> <li>Local gravel supply is problematic. Hamlet has a moderate amount of gravel that was crushed last a time crusher was in the community. This is earmarked for roads only. There is a limited supply of gravel available for pads for new housing units.</li> </ul>

<p><b>Infrastructure Priorities and Planned Investments</b></p>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• Hamlet Council identified investment in the Granular Program as priority 8 of 10, a back hoe as priority 7 of 10, renovating the parking garage as priority 6 of 10 and snow fencing as priority 1 of 10 in the 2008 NCIAC biennial planning process. For more details refer to section 5.9.2 in Volume 2.</li> <li>• The CED Plan identifies the following goals in relation to roads:             <ul style="list-style-type: none"> <li>• Develop quarry zones and a gravel pit site in order to better maintain and manage municipal boundary roads, airport runway, community dock, housing pads, new building developments, dump site/sewage lagoon, and new potential road routes for expansion etc.</li> <li>• Purchase a rock crusher.</li> <li>• Develop a road from Chesterfield Inlet to Rankin Inlet.</li> <li>• Build road to Josephine Lake to assist in the development of the mine.</li> <li>• Maintain and enhance snow fence around Chesterfield Inlet.</li> </ul> </li> </ul>
<p><b>Recommendations</b></p>	<ul style="list-style-type: none"> <li>• Acquire rock crusher (short term)</li> <li>• Develop quarry / gravel pit to increase supply of granular material for roads, housing and other uses (short term)</li> <li>• Maintain and enhance snow fence around Chesterfield Inlet (short term)</li> <li>• Build road to Josephine Lake to assist in the development of the mine (medium term)</li> <li>• Acquire new loader (medium term)</li> <li>• Acquire new back hoe (medium term)</li> <li>• Build road from Chesterfield Inlet to Rankin Inlet (long term)</li> </ul>

### 6.2.4 Transportation – Airport Infrastructure

**Table 11. Airport**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Airport Runway	1991, overlay in 2007	2017	7	
Airport Terminal	1982			
Grader	2009			
Truck - Runway (pickup/other)	2000			<ul style="list-style-type: none"> <li>Airport requires a garage to store vehicles. This would in turn take pressure off the hamlet which currently stores airport vehicles (i.e. 2 pickups, snow blower and grader).</li> </ul>
Snow-blower - Self-Propelled	1991			
Packer - Wobbly Wheel	1980			
Packer - Wobbly Wheel	2001			
Airside Electrical				
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>Priorities identified in the Nunavut Transportation Strategy:                             <ul style="list-style-type: none"> <li>Terminal requires replacement / rehabilitation at expected cost of \$1.5 million (short term)</li> <li>Apron requires resurfacing at expected cost of \$1.5 million (short-medium term)</li> </ul> </li> <li>CED Plan calls for extension of airport runway by 500+ feet so that larger aircraft can land and Chesterfield Inlet can be used as a hub for transportation in the Kivalliq region.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010</li> </ul>			

<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Build new airport terminal building (short term)</li> <li>• Build storage garage at airport (short term)</li> <li>• Resurface runway apron (medium term)</li> <li>• Acquire new pickup truck (medium term)</li> <li>• Acquire new snow-blower (medium term)</li> <li>• Extend airport runway by 500+ feet so that larger aircraft can land and Chesterfield Inlet can be used as a hub for transportation in the Kivalliq region (medium term)</li> </ul>
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### 6.2.5 Transportation – Marine

**Table 12. Marine Transportation**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Dock (public)	1994-95			<ul style="list-style-type: none"> <li>• Marine infrastructure considered inadequate to meet community needs.</li> <li>• Difficult to access during low tide.</li> </ul>
Marine Dock				
Community Crane				

<p><b>Infrastructure Priorities and Planned Investments</b></p>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• Priorities Identified in the Nunavut Transportation Strategy:             <ul style="list-style-type: none"> <li>• Timber replacement to some of the lower tidal section of the dock face required.</li> <li>• Two new shoreline bollards to secure the stern line of the resupply Tanker</li> <li>• Dock jib winch</li> <li>• Move landing beach 300' west</li> </ul> </li> <li>• The CED Plan calls for development of a new harbour and dock to deal with larger boats, ships, barges and existing local fishing boats.</li> <li>• No priorities were identified by Council for NCIAC in 2010/2008. For more details refer to section 5.11.4 in Volume 2.</li> </ul>
<p><b>Recommendations</b></p>	<ul style="list-style-type: none"> <li>• Replace timber on lower tidal section of the dock face (short term)</li> <li>• Install two new shoreline bollards (short term)</li> <li>• Install dock jib winch (short term)</li> <li>• Establish small craft harbour (medium term)</li> <li>• Feasibility study on establishment of a deep sea port (medium term)</li> <li>• Move landing beach at least 300 feet west (medium term)</li> </ul>



## 6.2.6 Communications

**Table 13. Communications**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Telephone Service				
Radio Station				
Post Office				
Internet - Qiniq				
Satellite Television				
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>None identified</li> </ul>			

### 6.2.7 Commercial Facilities

**Table 14. Commercial Facilities**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Co-op				
Northern Store				
CIDC Store				
Co-op Hotel				<ul style="list-style-type: none"> <li>• Too small to accommodate the number of visitors to the community</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>				<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>• The CED Plan calls for:                             <ul style="list-style-type: none"> <li>• Extraction and processing of minerals in Chesterfield Inlet.</li> <li>• Work with Chesterfield Inlet Development Corporation on concept of manufacturing boats.</li> </ul> </li> </ul>
<b>Recommendations</b>				<ul style="list-style-type: none"> <li>• Establish a new/expanded hotel facility (medium term)</li> <li>• Establish a fish processing plant (medium term)</li> <li>• Build commercial facilities that can support the mining sector (medium term)</li> <li>• Establish a boat manufacturing facility (long term)</li> </ul>

### 6.3 Cultural Infrastructure

#### 6.3.1 Heritage, Language and Arts

**Table 15. Heritage, Language and Arts**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>The CED Plan calls for Interpretive Centre, museum and other historic buildings following designation of Chesterfield Inlet as a National Historic Site.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Develop an Interpretive Centre to house historic information on Thule sites, whaling history etc. (medium term)</li> <li>Designate Chesterfield Inlet a National Historic Site and establish an interpretive Centre, museum, and other historic buildings and sites (medium term)</li> <li>Redevelop St. Theresa’s Hospital as an arts/heritage/culture centre and/or office facility (medium term)</li> </ul>			

### 6.3.2 Recreation Facilities

**Table 16. Recreation Facilities**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Arena, (Noah Novak)	1992	2032	22	
Community Hall, Office and Gymnasium	1986	2026	16	<ul style="list-style-type: none"> <li>This building has the same problems as reported for the Hamlet Office.</li> </ul>
Olympia ST-75 Ice Resurfacer	1987	2005	(-5)	
Sports Field	1999	2009	(-1)	
Playground	1996	2006	(-4)	
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>Hamlet Council identified investment in the community hall/office complex as priority 4 of 10 and the Noah Novak arena as priority 5 of 10 in the 2008 NCIAC biennial planning process. For more details refer to section 5.15.4 in Volume 2.</li> <li>The CED Plan calls for:                         <ul style="list-style-type: none"> <li>Development of recreational facilities that meet the needs of the community.</li> <li>Youth Drop in Centre (with a coordinator and structured programming).</li> <li>Baseball diamonds, soccer pitch, snowmobile race course, curling rink and if viable and indoor swimming pool.</li> <li>Community centre where all community activities can be held and encompassing a daycare, playground, gymnasium, recreation office, drop-in centre, workout facility, etc.</li> <li>Repair of existing recreation facilities including baseball diamonds, and create new facilities like a field that could be used by the community for different sporting activities</li> </ul> </li> </ul>			

<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Establish new recreation facilities (e.g. baseball diamonds, soccer pitch, snowmobile race course, curling rink and indoor swimming pool) (medium term)</li> <li>• Increase size of gymnasium (medium term)</li> <li>• Increase arena to regulation size (medium term)</li> <li>• New community centre encompassing a daycare, playground, gymnasium, recreation office, drop-in centre, and workout facility (long term)</li> </ul>
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### 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
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Youth drop-in Centre (short term)</li> </ul>			

### 6.4 Health and Wellness Infrastructure

**Table 18. Health and Wellness Facilities**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Kajuqjuk Health Centre	1991			
Naja Isabelle Home	2004			
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>• The CED Plan calls for:                             <ul style="list-style-type: none"> <li>• Dental facility to service the community and the region</li> <li>• Centre for doctors, specialists, and minor surgeries</li> <li>• Maintenance and enhancement of the Naja Isabelle home for the handicapped</li> <li>• Assisted living centre (4 – 6 bedrooms)</li> </ul> </li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Build dental facility (medium term)</li> <li>• Establish assisted living centre (medium term)</li> </ul>			

## 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
Vic Sammurtok School	1988			<ul style="list-style-type: none"> <li>Poor condition- problems in the water system and bathroom facilities, sprinkler, and possibly the presence of mould and asbestos.</li> <li>There is inadequate space in which to store school records.</li> <li>Vandalism is a problem at the school. Incidents of vandalism are not often addressed with timely repair and maintenance, encouraging a cycle of further vandalism and ongoing damage to school property</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Renovations to expand capacity of school and address issues with water system, bathrooms, sprinkler and mould and asbestos (short term)</li> </ul>			

6.5.2 Day Care

Table 20. Day Care

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>• The CED Plan calls for:                             <ul style="list-style-type: none"> <li>• Enhanced daycare facility with a pre-school program and playground.</li> </ul> </li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Enhanced daycare facility with a pre-school program and playground. (short term)</li> </ul>			



### 6.5.3 Adult Education

**Table 21. Adult Education**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Adult Education Centre	1990s			
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> <li>• The CED Plan calls for:                             <ul style="list-style-type: none"> <li>• Skills training centre that can offer training in areas such as health care aide, handicap and disability worker training and certification, carpentry, welding, plumbing and heating, cook training, mining jobs, early childhood training, CPR and other skills training.</li> <li>• Enhanced Nunavut Arctic College infrastructure and programming (need more than just seminars or courses on upgrading of skills).</li> </ul> </li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Establish skills training centre offering diverse training in areas such as health care, handicap/disability worker training and certification, carpentry, welding, plumbing and heating, cook training, mining jobs, early childhood training, CPR and other skills training (medium term)</li> <li>• Enhance Nunavut Arctic College infrastructure (medium term)</li> </ul>			

## 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
48 Single Family Units				<ul style="list-style-type: none"> <li>Housing is considered to be in short supply and demand exceeds available supply.</li> <li>All the units are in need of repair</li> <li>All houses are serviced by individual water and sewage tanks. There are concerns about the condition of some water tanks that are cast iron as they leach rust and metals into drinking water, causing discoloration.</li> </ul>
16 Duplex Units				
11 Multi Family units				
2 Leased Units				
Warehouse / Office	1986			

<p><b>Infrastructure Priorities and Planned Investments</b></p>	<ul style="list-style-type: none"> <li>• Planned investments identified in the GN capital estimates and NHC Capital Projections are discussed in Volume 2, Section 5.21.3</li> <li>• No priorities were identified by Council for NCIAC in 2010/ 2008/2006.</li> <li>• The CED Plan calls for:             <ul style="list-style-type: none"> <li>• Completion of a housing needs assessment</li> <li>• Development of a three-plex in partnership with Chesterfield Inlet Development Corp.</li> <li>• Maintenance of existing public and private housing units, including government units (staff housing) through local contractors</li> <li>• New housing</li> <li>• Upgrades to existing housing units</li> </ul> </li> </ul>
<p><b>Recommendations</b></p>	<ul style="list-style-type: none"> <li>• Complete housing needs assessment (short term)</li> <li>• Increase available new housing units (multi-family and single family dwellings) (medium term)</li> <li>• Renovate existing housing units (medium term)</li> </ul>

### 6.6.2 Staff Housing

**Table 23. Staff Housing**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Staff Residence - Blue	1980	2020	10	<ul style="list-style-type: none"> <li>Hamlet needs to increase and improve staff housing in order to be able to attract quality employees (e.g. need to hire a mechanic from outside)</li> </ul>
5 GN staff housing units				
<b>Infrastructure Priorities and Planned Investments</b>		<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>No priorities were identified by Council for NCIAC in 2006, 2008 or 2010.</li> </ul>		
<b>Recommendations</b>		<ul style="list-style-type: none"> <li>Increase staff housing stock (medium term)</li> </ul>		

## 6.7 Environmental Infrastructure

### 6.7.1 Water

**Table 24. Water System**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Pump-house - Fill Station	1989	2019	9	<ul style="list-style-type: none"> <li>Needs to be replaced (major electrical problems)</li> <li>Chlorination system is old and inadequate, and is improperly co-located with electrical systems.</li> </ul>
Mobile Pump at First Lake	2006	2021	11	
Pump-house Generator Room				
Reservoir				<ul style="list-style-type: none"> <li>There are concerns within the community about the quality of water at the source lake and in the reservoir.</li> </ul>
2001 Sterling Water Truck	2002	2009	(-1)	
2006 Freightliner - MM1060645 Tremcor Tanks	2006	2013	3	
1988 Ford Water Truck	1988	1995	(-15)	
1995 Ford F800 Water Truck	1996	2003	(-7)	
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds</li> <li>Hamlet Council identified investment in the water/sewer utilidor as priority 9 of 10, and a secondary road the reservoir as priority 3 of 10 in the 2008 NCIAC biennial planning process. For more details refer to section 5.23.4 in Volume 2.</li> <li>The CED Plan identifies a water treatment plant needs assessment.</li> </ul>			

<b>Recommendations</b>	<ul style="list-style-type: none"><li>• Develop integrated solution for water supply and distribution system (short term)</li><li>• Establish secondary road to reservoir (short term)</li><li>• Replace water pump house at reservoir (short term)</li><li>• Replace cast iron tanks/pumps that remain in individual housing units. (short term)</li><li>• Establish an ice-house (winter) or water-house (summer) providing untreated drinking water supply to Elders. (short term)</li><li>• Relocate reservoir (medium term)</li><li>• Establish water treatment at the lake site rather than at reservoir (long term)</li><li>• Establish a water/sewer utilidor (long term)</li></ul>
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### 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
2002 Sterling 8500 - Sewage Truck	2003	2010	0	
2007 Sterling Aceterra Sewage Truck	2007	2014	4	
1995 Ford F800 Sewage Truck	1996	2003	(-7)	
Snow Fence	2001	2021	11	
Sewage lagoon				<ul style="list-style-type: none"> <li>Water sampling by INAC is done within the wetlands rather than at the discharge/outflow point. As a result the Hamlet may not be in compliance with its NWB license.</li> <li>A tender has been issued for a new sewage lagoon. This calls for a certain type and size of gravel that is not available in the community.</li> </ul>
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>Planned investments identified in the GN capital estimates are discussed in Volume 2, Section 5.24.3</li> <li>Hamlet Council identified investment in the drainage around the sewage lagoon as priority 10 of 10 in the 2008 NCIAC biennial planning process. For more details refer to section 5.24.4 in Volume 2.</li> <li>The CED Plan identifies the need to: Maintain and expand sewage lagoon when and where required.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>Sample water quality at sewage lagoon at discharge/outflow point (short term)</li> <li>Establish engineered sewage treatment plant / facility (short term)</li> <li>Establish a water/sewer utilidor (long term)</li> </ul>			

### 6.7.3 Solid Waste Disposal

**Table 26. Solid Waste**

Asset	Acquired (Year)	Projected Useful Life (Year)	Years of Remaining Life	Issues
Landfill Site				<ul style="list-style-type: none"> <li>• There is significant burning of garbage at the land fill, which brings debris into the community when it is a wind (as there often is).</li> <li>• Fencing around dump site is inadequate</li> <li>• No segregation of garbage at the land fill site, with the exception of old vehicles and heavy equipment, which are disposed of in a separate but adjacent area.</li> </ul>
2002 Chevrolet - Garbage Truck	2002			
1995 Ford F350 - Garbage Truck	1995			
<b>Infrastructure Priorities and Planned Investments</b>	<ul style="list-style-type: none"> <li>• No planned investments identified in GN Capital Plan Estimates, Gas Tax Fund, Municipal Rural Infrastructure Fund, Building Canada Fund, or other funds.</li> <li>• No priorities were identified by Council for NCIAC in 2010/2008. For more details refer to section 5.25.4 in Volume 2.</li> <li>• The CED Plan identifies the need to maintain and expand dump when and where required.</li> </ul>			
<b>Recommendations</b>	<ul style="list-style-type: none"> <li>• Maintain and enhance snow fence around dump site (short term)</li> <li>• Improve segregation of garbage at land fill site (short term)</li> <li>• Establish new system to deal with garbage (e.g. compression) (short term)</li> <li>• Introduce recycling programs and improved waste management practices e.g. for waste oil, metals, vehicles, hazardous waste etc. (medium term)</li> <li>• Acquire new garbage truck (medium term)</li> <li>• Expand dump (medium term)</li> </ul>			



## 7 Appendices

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## 7.2 Acronyms

**Table 27. Acronyms**

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

### 7.3 Key Definitions and Terms

**Table 28. Key Definitions and Terms**

<b>Cultural Sustainability</b>	A community's capacity to develop, retain and protect its culture and identity, and transmit that culture to future generations.
<b>Economic Sustainability</b>	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.
<b>Environmental Sustainability</b>	The capacity of a natural environment to meet human needs while remaining balanced and healthy, without damage to air, land, water or wildlife.
<b>Social Sustainability</b>	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.
<b>Goal</b>	A broad statement that describes some aspect of the future the community hopes to achieve.
<b>Sustainability goals</b>	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.
<b>Infrastructure</b>	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.
<b>Infrastructure System</b>	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.
<b>Planning</b>	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.