



## MUNICIPAL PUBLIC WORKS department

### ACTIVITY REPORT NOVEMBER 2020 TO FEBRUARY 2021

The primary mandate of the Municipal Public Works Department is to assist the communities to secure the infrastructure and equipment necessary for their development and to assume all related responsibilities. All of the Department's activities performed in this respect are in close co-operation with the northern villages, whose participation is essential to the success of these activities. As well, the Department provides technical assistance and delivers training to municipal staff to help them increase their level of knowledge in fields that are relevant to municipal activities and to make the northern villages more autonomous. The department is also responsible for the maintenance of all KRG infrastructure.

#### PROGRAMS

- **GENERAL: Annual conference call (all NVs)**
  - Scheduled calls were carried out to discuss needs, activities and projects to come and preparation required for all projects confirmed for 2021;

#### 1. TECHNICAL ASSISTANCE PROGRAM (SIVUNIRMUT)

- **Drinkable Water**
  - Day-to-day assistance was given by phone to operators (troubleshooting, repairs, adjustments of systems, purchase of parts, follow-up on samplings/tests, etc.);

#### Bacteriological Analysis – Colilert Sampling Results:

	2017 50 weeks	2018 50 weeks	2019 50 weeks	2020 50 weeks
Kangiqsualujuaq	100%	90%	93%	94%
Kuujuaq	92%	92%	93%	100%
Tasiujaq	72%	62%	69%	88%
Aupaluk	90%	96%	71%	66%
Kangirsuk	90%	96%	95%	100%
Quaqtaq	96%	90%	62%	78%
Kangirsujuaq	96%	98%	100%	98%
Salluit	93%	90%	95%	90%
Ivujivik	60%	60%	71%	80%
Akulivik	78%	84%	62%	82%
Puvirnituq	86%	82%	93%	90%
Inukjuak	76%	58%	71%	92%
Umiujaq	96%	94%	93%	94%
Kuujjuaraapik	94%	96%	100%	92%
<b>Average Nunavik</b>	<b>87%</b>	<b>85%</b>	<b>84%</b>	<b>89%</b>

- **Comments:**
  - Sampling results: currently at **89%**, regional objective is 85%;
  - 2 of 14 operators at 100% (Kuujjuaq and Kangirsuk)
  - 10 of 14 operators over 85%, (Kangiqsualujjuaq, Tasiujaq, Kangirsujuaq, Salluit, Puvirnituq, Inukjuak Umiujaq, and Kuujjuaraapik)
  - 4 of the 14 operators between 50% and 85% (Aupaluk, Quaqtac, Ivujivik, Akulivik): improvements are required;
  - Continued efforts are needed to maintain and improve testing performances regionally;
- NVs must resume sending water samples to the hospital to validate results;
- Physical and chemical testing of raw water and treated water:
  - Following November campaign, samples were received from 9 of 14 communities, (Tasiujaq, Quaqtac, Ivujivik, Umiujaq and Kuujjuaraapik) samples were not received;
  - Next sampling campaign to start in Feb/March 2021;
    - This test is important since it tracks any potential changes to the source water (lakes and rivers) and confirms if the existing treatment process continues to produce safe drinking water;
- Interventions made in collaboration with operators and communities regarding issues with the water infrastructure;
  - Kangirsuk: (communication equipment between pumping station and treatment plant)
    - Confirmed February return by technician for minor adjustments to position of antenna;
  - Quaqtac: (automation system and supply line)
    - Contractor completed first round of interventions for the automation system at water plant;
    - Section of supply line frozen, water currently being pumped into trucks directly from lake;
    - Issues with heat trace cable being investigated for corrective measures;
  - Inukjuak: (Raw water intake)
    - Divers hired and successfully unclogged section of intake screen;
    - Further inspection to come of intake line and well with underwater camera;
    - Consultant engaged to resolve sedimentation issue at intake well;
  - Drinking water source protection / Ministry of Environment (MELCC):
    - Study of water sources was required for communities with a population over 500 (9 NVs-Kangiqsualujjuaq, Kuujjuaq, Kangirsuk, Kangirsujuaq, Salluit, Akulivik, Puvirnituq, Inukjuak, Kuujjuaraapik);
    - Consultant received and submitted applications for financial assistance to the ministry on behalf of (4 NVs), subsequent approval letter was received;
    - Remaining (5 NVs) will continue study without receiving the financial assistance;
  - Water Plant Operators Instructor-Team Leader candidate joined MPW December 2020;
- **Rolling Stock – vehicles and heavy equipment**
  - 3 NVs visited by mechanic-instructors (Kangiqsualujjuaq, Ivujivik, Akulivik), assisting on repairs and follow-up of existing overhaul projects;
  - Assisted in tender preparation for new equipment and vehicle purchases requested by NVs;
- **Sports and Recreation Infrastructure – arenas, community centers, swimming pools.**
  - February 2020 applications (MEES)

- After being analysed amongst all provincial applications, letters received in December and January stated that requests were denied;
- Preparation and coordination in-progress for an end of season inspection and assessment tour of Eco-ice arena systems;
- Kangirsuk: (Arena demolition and construction)
  - Emergency request for funding submitted to the ministry;

## **2. ISURRUUTIIT PROGRAM 4 (2016-2021) (Ministère des Affaires Municipales et de l’Habitation– MAMH)**

### **ISURRUUTIIT PROGRAM 5 : (renewal of program)**

- Preparation work on-going for upcoming NV consultations and negotiations with Quebec government;

#### **Component 1 – Infrastructure**

##### **1.1 Drinking Water – Water Plants**

- Kuujjuaq: (New)
  - List of pending work and costs associated being prepared by consultant for finalizing project;
- Aupaluk: (Infrastructure needs)
  - Consultant working to provide estimates according to the recommendations listed in report submitted;
  - A successful bid was received and a contract is being issued to install a connection for trucks to deliver raw water directly to the treatment plant;
- Akulivik and Umiujaq (UV system upgrade):
  - Installations completed, testing and commissioning of the UV systems scheduled in Feb 2021;
- Kuujjuaraapik: (Control system upgrade)
  - Professionals hired to prepare plans and specifications;
- Technical audits (Water plants)
  - Field visits completed: (Aupaluk, Tasiuaq, Kangirsuk and Ivujivik);
  - (9) remaining communities to be inspected in 2021;
- Heating inspections (13 NVs):
  - Sourcing an engineering firm to conduct the audit inspection to produce plans and specifications for required upgrades;
- Water Reservoir Tank refits: (Tasiujaq, Kangirsuk, Ivujivik and Inukjuak)
  - Contract awarded and works to begin in June 2021;
  - Call for tenders to be launched in February for remaining villages (Aupaluk, Quaqtac and Salluit);

##### **1.2 Waste Water Systems**

- Kangirsujuaq:
  - Construction to resume during summer 2021 and is expected to be completed at 100%;
- Quaqtac:
  - Sludge measurement will be completed in summer 2021;

##### **1.3 Solid Waste Sites**

- Kuujjuaq: (Eco-center)
  - Phase I and Phase II environmental site assessment reports, geotechnical study, and preliminary concept received January and February;
- Inukjuak: (Composter (2 steps))
  - Final environmental assessment report received in January;
  - 1<sup>st</sup> step: (Purchase of major equipment)

- Tender process initiated;
- 2<sup>nd</sup> step: (construction and installation)
  - Plans and specifications and tender for selecting a contractor are in preparation;
- Others:
  - Firm selection in process for site closure and remediation (Kuujuaraapik, Kangirsuk Inukjuak), as well as for new landfill concept review in Inukjuak;
  - Inspection and auditing of landfills has been postponed due to the COVID-19 situation. Discussions underway with engineering firms for 2021;
  - Call for tender to be launched to provide (14) hazardous waste containers for (9) communities;

#### **1.4 Roads**

- General planning and coordination on-going, including postings for the hiring of civil works supervisors (foremen) for 2021 construction season;
- Kangiqsualujjuaq:
  - New development area planning on-going along with continued drainage improvements and final grade coordination for this season;
- Kangirsuk:
  - Access to the new solid waste site: (purchase and installation of cement culverts)
    - Call for tenders was launched in January 2021;
  - Bridge: (table material (wood and steel plates) purchase)
    - Call for tenders launched in February 2021;
- Salluit: (access to new cemetery site)
  - Call for tenders to purchase and install steel culverts was launched in January 2021;
- Kuujuaraapik: (existing access road improvement to new solid waste site)
- Contract was awarded to an engineering firm to study location and prepare a report with estimates;

#### **Component 2 – Buildings and other fixed structures**

- Municipal Garages:
  - Puvirnituk, Inukjuak, Kangiqsualujjuaq: (new construction)
    - Construction scheduled to be completed in December 2021;
  - Tasiujaq: (renovation on existing and new construction)
    - Work on the project is completed and new building was delivered to the NV, December 2020;
- Recreational infrastructure: (new playground infrastructure)
  - Call for tenders relaunching July 2021 (Kangiqsualujjuaq, Tasiujaq and Puvirnituk);
- Aupaluk, Kangirsujuaq and Umiujaq: equipment received and will be installed in 2021;

#### **Component 3 – Rolling Stock – vehicles and heavy equipment**

- Call for tender launched for overhaul project: Kangiqsualujjuaq loader

### **3. PAVING PROGRAM (MTQ)**

- Official proposal sent to MTQ in February;

### **4. PIVALLIUTIIT 3 and 4 (Secrétariat aux affaires autochtones, aboriginal affairs, SAA)**

- Kangirsujuaq: Community center (heating system)
  - Call for tenders to replace the heating system was launched in January 2021;
- Ivujivik: Community Center (renovation)
  - Deficiencies to be corrected June 2021 to close project;

- Kangirsuk: Community center (renovation)
  - Call for tenders launched mid- February;

## **5. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS**

- Police stations (KRPF) – (construction): Puvirnituk and Inukjuak
  - Plans and specifications at 60%;
  - Call for tenders to be launched April 2021 for construction in summer 2021 and into winter 2022;
- Nunavik Parks Infrastructures (Renewable Resources Department)
  - Kuujjuaq: Interpretation center
    - Discussions to resume over the winter to confirm program and design;
    - Construction in 2022;
  - Kangirsujuaq: Pingualuit Interpretation Center (renovation)
    - Coordination of an inspection visit on-going and subsequent report and estimate for renovation work required to be submitted by consultant;
    - Renovation work planned for summer 2022;
- Childcare centers
  - Salluit: Tasiursivik (renovation)
    - Call for tenders to be launched March 2021;
  - Coordination of inspection tour with consultants including health report and to confirm scope of work (renovations)
    - Kuujjuaq (Tumiapiit): February 2021
    - Tasiujaq (Qulliapik): May 2021
    - Puvirnituk (Sarliataurvik): May 2021
- Hunter Support Program
  - Tasiujaq: Community freezer (new 2019)
    - Main envelope to be monitored in spring to confirm correction of deficiencies;
  - Kuujjuaq, Kangirsujuaq, Inukjuak: (new freezers)
    - Each building has been delivered, completed and handed over to NVs;
  - Quaqaq: Community freezer
    - Discussions to continue in confirming project (new or renovation);
  - Umiujaq: Community freezer (new)
    - Tender launching February 2021;
  - Puvirnituk: Family House (renovation)
    - Tender launched end of January 2021;
  - Puvirnituk: Community center (renovation)
    - Project was on hold due to COVID-19. Construction to resume this season and shall be completed by December 2021;

## **6. KRG BUILDING MAINTENANCE**

- Daily maintenance:
  - addressing heating issues for KRG tenants and infrastructure on-going;
- Preventative maintenance inspections:
  - Working to prepare new preventive maintenance tours are on-going;
- KRG Infrastructure work in the region:
  - Preparation for works on-going for summer 2021;
- Kuujjuaq: Head office (improvements and upgrades)
  - Improvement works in various departments, including the main entry and common area, as well as upgrades to the main conference room initiated;



## MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

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### **Director**

- Administration and management of the department

### **Administrative Technician**

### **Assistant Director – Infrastructure division**

- Administration and management of the Infrastructure division

### **Project Manager Civil Engineering**

- Civil projects (roads, bridge, drainage, paving)

### **Project Manager Civil Works and Infrastructure**

- Wastewater systems & buildings

### **Project Manager Administration**

- General management of accounting and administrative aspects of files & managing financial programs

### **Water Plant Instructor / Team Leader**

### **Project Manager Roads**

- Road/paving projects and Rolling Stock

### **Project Manager Infrastructures**

- Water Plant maintenance construction & renovation
- Drinking water quality follow-up

### **Project Manager Engineering**

- Dumpsite projects (new and refit)

### **Water Plant Maintenance Instructors (Nunavik rotation)**

- Assistance and on-the-job training to municipal operators on operations

### **Mechanics Instructors (Nunavik rotation)**

- Assistance/on-the-job training to municipal mechanics

### **Project Manager Engineering**

- Water plants upgrades and technical assistance

### **Project Manager Infrastructure**

- Building projects and civil works

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