



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT FEBRUARY 2021 TO MAY 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

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	2021 17 weeks
Kangiqsualujuaq	100%	90%	93%	94%	100%
Kuujuaq	92%	92%	93%	100%	100%
Tasiujaq	72%	62%	69%	88%	94%
Aupaluk	90%	96%	71%	66%	100%
Kangirsuk	90%	96%	95%	100%	100%
Quaqtaq	96%	90%	62%	78%	82%
Kangirsujuaq	96%	98%	100%	98%	94%
Salluit	93%	90%	95%	90%	100%
Ivujivik	60%	60%	71%	80%	71%
Akulivik	78%	84%	62%	82%	47%
Puvirnituk	86%	82%	93%	90%	76%
Inukjuak	76%	58%	71%	92%	88%
Umiujaq	96%	94%	93%	94%	88%
Kuujuaapik	94%	96%	100%	92%	100%
Average Nunavik	87%	85%	84%	89%	89%

- **Comments:**

- Sampling results:
 - Currently at **89%**, regional objective is 85%;
 - 6 of 14 operators at 100% (Kangiqsualujjuaq, Kuujjuaq, Aupaluk, Kangirsuk, Salluit, and Kuujjuaraapik)
 - 4 of 14 operators over 85%, (Tasiujaq, Kangirsujuaq, Inukjuak and Umiujaq)
 - 4 of the 14 operators between 50% and 85% (Quaqtaq, Ivujivik, Akulivik, and Puvirnituq): improvements are required;
 - Continued efforts are needed to maintain and improve testing performances regionally;
- NVs should continue sending water samples to the hospital to validate results;
- Physical and chemical testing of raw water and treated water:
 - Following the February campaign, samples were received from 8 of 14 communities, samples from (Aupaluk, Kangirsuk, Salluit, Ivujivik, Puvirnituq and Inukjuak) were not received;
 - Next sampling campaign to start in May 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)
 - Communication system (antenna) adjustments still to be completed;
 - Quaqtaq: (automation system and supply line)
 - Successfully completed work on automation system in March;
 - Supply line continues to feed the distribution plant for treatment process as designed;
 - Assisting in coordination for the heat trace cable testing and investigation in May;
 - Salluit: (frozen intake line at source)
 - KRG technicians working to resolve this and other issues;
 - Temporary set up has been established to fill trucks until warmer weather;
 - Ivujivik: (frozen supply line)
 - Flow reestablished, pipeline sustained cracks causing leaks, location for this has been identified, work is on-going to repair and is slowed by weather;
 - A direct connection for trucks to the pumping station at the source lake was installed, trucks are then manually chlorinated before delivery to the community;
 - Akulivik: (loading system repairs)
 - Coordination in process for arrival and installation;
 - Inukjuak: (Raw water intake)
 - Consultant preparing for underwater inspection and intervention to follow;
 - Drinking water source protection / Ministry of Environment (MELCC):
 - For the (4) NVs that issued their POs, the consultant has submitted the reports before the deadline (April 30);
 - Water plant maintenance Instructors:
 - A third instructor hired to increase the capacity of visiting the NVs and providing assistance and training. The new instructor will commence work in July;

- **Rolling Stock – vehicles and heavy equipment**
 - 5 NVs visited by mechanic-instructors (Kangiqsualujuaq, Aupaluk, Salluit, Ivujivik, Akulivik), assisting on repairs and follow-up of existing overhaul projects;
 - A third instructor hired to increase the capacity of visiting the NVs and providing assistance and training. The new instructor will commence work in June-July;
 - Akulivik: (new municipal mechanic and snow management)
 - Assisted the NV in hiring process for a certified mechanic from outside the region;
 - Coordinated 2 local heavy equipment operators to help deal with snow management for the NV;
 - Coordinated with K.I. to send heavy equipment operator instructor to continue snow management and general operational training on machines for local operators;
- **Sports and Recreation Infrastructure – arenas, community centers, swimming pools.**
 - Preparation and coordination in-progress for the end of season inspection and assessment tour of Eco-ice arena systems;

2. ISURRUUTIIT PROGRAM 4 (2016-2022) (Ministère des Affaires Municipales et de l'Habitation– MAMH)

General

- Amendment to the agreement to extend the program by one year with additional funding of \$20M;
- Coordination of MAMH Audit and follow-up report and corrective actions.

Component 1 – Infrastructure

1.1 Drinking Water – Water Plants

- Kuujuaq: (New)
 - Contractor to mobilize end of May to complete deficiencies;
 - Insulation work on loading arms to be started once deficiencies are completed;
- Aupaluk: (Infrastructure needs)
 - Audit of the water infrastructure conducted, reports are under review;
 - Feasibility study of alternate raw water source is underway;
 - Mobilization for installation of direct connection of raw water to treatment plant in May;
- Akulivik and Umiujaq (UV system and other upgrades):
 - Testing and commissioning was completed successfully;
 - Work to install new carbon filter to be completed in Umiujaq;
- Puvirnituk/ Inukjuak/ Kuujuaapik:
 - Audit of the water infrastructure conducted, reports are under review;
 - (4) remaining communities (Kangiqsualujuaq, Quaqtaq, Kangirsujuaq, Salluit) to be inspected in 2021;
- Heating systems inspections (13 NVs):
 - Engineering firm contracted in April to conduct the audit inspection and produce plans and specifications for required upgrades on heating systems;
- Water Reservoir Tank refits:
 - Contract awarded and works to begin in June 2021 (Tasiujaq, Kangirsuk, Ivujivik and Inukjuak);
 - Contract awarded in April for remaining villages (Aupaluk, Quaqtaq and Salluit) work to be completed in 2021;

1.2 Waste Water Systems

- Kangirsujuaq:
 - Construction to resume during summer 2021 and is expected to be completed at 100%;

1.3 Solid Waste Sites

- Kangirsuk:
 - Mandate given to an engineering firm for final engineering work at new landfill (ex: deficiencies, final grade, final plans, operation manual, etc.) and for closure and remediation plan of existing site. Mandate to be realized summer 2021;
- Inukjuak:
 - Mandate given to an engineering firm for assessment of the design of the new landfill site and for closure plan of the existing site. Mandate to be realized summer 2021;
 - A call for tender was launched for composting equipment but received no bidders, the project is currently being reassessed;
- Kuujjuaraapik:
 - Mandate given to an engineering firm for closure and remediation plans of the two existing landfills. Mandate to be realized summer 2021;

1.4 Roads

- General planning and coordination on-going, including postings for the hiring of civil works supervisors (foremen) for 2021 construction season;
- Kangirsuk:
 - Access to the new solid waste site: (purchase and installation of box culverts)
 - Contract awarded in April 2021;
 - Environmental authorizations in progress;
- Salluit: (access to new cemetery site)
 - Environmental Authorizations in progress;
 - Design to be confirmed;
- Kuujjuaraapik: (existing access road improvement to new solid waste site)
 - Engineering work is completed;
 - Environmental authorizations in progress;
 - Revision of Cost Sharing Agreement between Kuujjuaraapik and Whapmagoostui was sent, final discussions to follow.

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Inukjuak and Kangiqsualujuaq: Construction scheduled to be completed in December 2021;
 - Puvirnituq: construction work to resume this summer and finish in 2022;
- Recreational infrastructure: (new)
 - Call for tenders for design of baseball field in Kangirsuk and playground in Inukjuak was relaunched in April, waiting for results;
- Kangirsuk (Arena demolition and construction)
 - Contract has been awarded, the construction will start in June 2021 and finish June 2022.

Component 3 – Rolling Stock – vehicles and heavy equipment

- Call for tenders launched and contracts awarded for the purchases of:
- (7) Water trucks: Kangiqsualujjuaq, Kuujjuaq (2), Kangirsuk, Salluit, Ivujivik, Puvirnituk
- (4) Sewage trucks: Kuujjuaq, Quaqtaq, Ivujivik, Puvirnituk
- (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq
- (3) Gravel dump trucks: Kuujjuaq, Aupaluk, Puvirnituk
- (3) Loaders: Kangiqsualujjuaq, Kangirsuk, Quaqtaq, Puvirnituk
- (1) Grader: Akulivik

3. PAVING PROGRAM (MTQ)

- Official proposal sent to MTQ in May;

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

- Kangirsujuaq: Community center (heating system)
 - Contract was awarded in April and work to be completed in 2021;
- Ivujivik: Community Center (renovation)
 - Deficienciesto be corrected August 2021 to close project;
- Kangirsuk: Community center (renovation)
 - The project is on hold until additional funding is secured;
- Salluit: Arena (renovation)
 - Waiting for a proposal from consultant to start the design phase of the project;
 - Final budget remains to be secured in order to proceed;
- Puvirnituk: Arena (renovation)
 - Initial assessment of the scope of work to be performed on-site in June ;
- Kuujjuaraapik: St-Edmunds Church (renovation)
 - Consultant currently working on plans and specifications;
- Kangiqsualujjuaq: Community workshop (construction)
 - Consultant to submit proposal for the design phase of the project;

5. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

- Police stations (NPS) – (construction): Puvirnituk and Inukjuak
 - Plans and specifications at 60%;
 - Call for tenders to be launched June 2021 for construction in fall 2021 and into summer 2022;
- Nunavik Parks Infrastructures (Renewable Resources Department)
 - Kangirsujuaq: Pingualuit Interpretation Center (renovation)
 - Coordination on-going for an inspection visit by a consultant in order to prepare estimates;
 - Renovation work planned for summer 2022;
- Childcare centers
 - Salluit: Tasiursivik (renovation)
 - Contract awarded in April and expected to be completed in 2021;
 - Kuujjuaq: Iqitauvik (renovation)
 - Deficiencies to be corrected June 2021 to close project;
 - Kuujjuaq: Tumiapiit (mold remediation)
 - Center closed early March for urgent work to mitigate mold issue in crawlspace;
 - Work was successfully completed and the center reopened end of April;

- Coordination of inspection tour with consultants including health report and to confirm scope of work (renovations)
 - Kuujjuaq (Tumiapiit): February 2021- completed and report received;
 - Aupaluk (Sukliateet): April 2021-completed
 - Tasiujaq (Qulliapiik): July 2021
 - Puvirnituq (Sarliataurvik): July 2021
- Aupaluk (Sukliateet) mechanical room renovation:
 - Public tender to be launched in May 2021;
- Hunter Support Program (RRLPD)
 - Tasiujaq: Community freezer (new 2019)
 - Follow up on envelope deficiencies with contractor;
 - Quaqtaq: Community freezer
 - New construction for 2022;
 - Umiujaq: Community freezer (new)
 - Contract was awarded in April and will be completed for August 2021;
- Puvirnituq: Family House (NV renovation project)
 - Following a call for tender, a contract awarded and project is to be completed by December 2021;
- Puvirnituq: Community center (NV renovation project)
 - 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:
 - Work to address staff housing and infrastructure heating issues 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;
 - Courthouse and two (2) multiplex apartment buildings heating systems renovation
 - Plans and specifications being prepared by consultant;
- Kuujjuaq: Head office (improvements and upgrades)
 - Plans and specifications being prepared by consultant;



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Vacant

Vacant

Director

- Administration and management of the department

Administrative Technician

Assistant Director – Infrastructure division

- Administration and management of the Infrastructure division

Project Manager Infrastructures

- Building projects and civil works

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 Water infrastructure

- 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

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

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Project Manager Architecture/Construction

- Architecture maintenance projects
- New architecture projects coordination

Vacant

Project Manager Mechanical/Construction

- Mechanical maintenance projects
- New mechanical projects coordination

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Building Maintenance Technicians (Kuujuuaq)

- Maintenance of KRG buildings (police stations, airport terminal and garage, office building, staff housing) and Childcare centers
- 2 vacant positions

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NV Building Maintenance Technicians (Nunavik rotation)

- Maintenance of KRG buildings (police stations, airport terminals and garages, office buildings, staff housing) and Childcare centers
- Assistance/on-the-job training to municipal building technicians for NV recreational buildings (water plants, arenas, community centers, swimming pools), etc.