



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT SEPTEMBER TO NOVEMBER 2022

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 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)

- Drinking 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:

	2018	2019	2020	2021	2022
	50 weeks	50 weeks	50 weeks	50 weeks	44 weeks
Kangiqualujuaq	90%	93%	94%	95%	91%
Kuujuaq	92%	93%	100%	98%	100%
Tasiujaq	62%	69%	88%	81%	91%
Aupaluk	96%	71%	66%	79%	95%
Kangirsuk	96%	95%	100%	84%	98%
Quaqtaq	90%	62%	78%	65%	95%
Kangijsujuaq	98%	100%	98%	93%	93%
Salluit	90%	95%	90%	91%	75%
Ivujivik	60%	71%	80%	63%	100%
Akulivik	84%	62%	82%	49%	84%
Puvirnituq	82%	93%	90%	77%	75%
Inukjuak	58%	71%	92%	86%	75%
Umiujaq	94%	93%	94%	79%	86%
Kuujuarapik	96%	100%	92%	98%	100%
Average Nunavik	85%	84%	89%	81%	90%

- **Comments:**

- Sampling results:
 - Currently at 90%, the regional objective is 85%: While the average is slightly above target, there's room to improve testing performances regionally and in particular in the 3 villages that are below 85%;
 - 9 of 14 operators at 90% and above (Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Aupaluk, Kangirsuk, Quaqtac, Kangiqsujuaq, Ivujivik, and Kuujjuarapik)
 - 1 of 14 operators between 85% and 90%, (Umiujaq)
 - 4 of the 14 operators between 50% and 85% (Salluit, Akulivik, Puvirnituc, and Inukjuak)
- Physical and chemical testing of raw water and treated water:
 - For the Third sampling campaign, samples were received from 10 of 14 communities. They include: Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Aupaluk, Quaqtac, Salluit, Akulivik, Inukjuak, Umiujaq and Kuujjuarapik. 4 NVs have not sent the samples or have not provided us with the shipping details, including: , Kangirsuk, Kangiqsujuaq, Ivujivik, and Puvirnituc.

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;

- Water Treatment Plant Operator Training:

- Two training programs were organized by the department in Kuujjuaq and Kuujjuaraapik:
 - Kuujjuaq from November 1st to 3rd with participation of operators from Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Kangirsuk and Salluit
 - Kuujjuaraapik from November 8th to 10th with participation of operators from Kangiqsujuaq, Salluit, Ivujivik, Akulivik, Puvirnituc and Kuujjuaraapik
- Interventions made in collaboration with operators and communities regarding issues with the water infrastructure:
 - **Aupaluk:**
 - Replacement of the chlorination system,
 - Winterization of the raw water supply system,
 - **Kangirsuk:**
 - Satellite communication system purchased by MPW at the raw water pumping station to re-establish communication between the plant and the pumping station. installed. Radio communication is also re-established and the raw water pumping station is online.
 - Troubleshooting of frozen pipeline ongoing,
 - **Ivujivik:**
 - Water from lake continues to be pumped into truck and chlorine added directly which requires a continuous notice to boil advisory until new supply line is completed.

All NVs except Kuujjuaq have been visited by KRG technicians at least once during this period.

All NVs with raw water pumping stations and pipelines are reminded to maintain continuous flow throughout the winter. There is this misconception that Heat Trace Cables can prevent freezing and/or be used to thaw a frozen pipeline which is not true. Flow and heating of the water in intake and recirculation lines should be maintained at any cost. Please ensure pumping stations always have adequate fuel and accessible at all times.

- **Wastewater:**
 - Salluit:
 - The burst discharge valve was replaced by MPW employees with the help of the NV,
 - Further electrical repairs to be done next summer.
- **Rolling Stock – vehicles and heavy equipment**
 - 4 NVs visited by mechanic-instructor (Akulivik, Ivujivik, Inukjuak and Kangirsuk), assisting on repairs and follow-up of preventative maintenance.
 - A second heavy equipment mechanic instructor joined our team in October.

NVs are reminded to better communicate the status of their fleet for proper overhaul planning when required. With the ongoing disruptions of the supply chain and the impossibility of purchasing new service trucks, the responsibility of the municipalities in proper maintenance and management of the existing fleet is substantially more critical.

It is important to bear in mind that most overhauls cost above the thresholds required by the law to be procured through call for tenders thus it is imperative to allow for proper time and have detailed scope for such call for tenders.

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

Component 1 – Infrastructure

1.1 Drinking Water – Water Plants

- Kuujjuaq: (New)
 - Last stage i.e. dismantling of the equipment in the old plant in progress;
- Aupaluk, Salluit and Akulivik: (Infrastructure needs)
 - Feasibility study and concept recommendations received from the consultant for required additional storage capacity/treatment systems; engineering and construction works will be done in IP5

1.2 Waste Water Systems

- Umiujaq:
 - Application was submitted to the ministry of environment to lower the water level in one lagoon to provide dry environment in the other to install the membranes and based on the received response works are planned for summer 2023;

1.3 Solid Waste Sites

- Inukjuak:
 - Design review of new landfill and preparation of site closure and remediation plan of existing site on-going, construction to start with IP5;

1.4 Roads

- Kangirsuk: (access to new dump site)
- Repairs on the temporary access road to the new dumpsite and its fence;
- Salluit: (access to new cemetery site)

- Project suspended on request of the NV to relocate the cemetery site.
- Puvirnituk (Borrow pit access road -Partially funded by TECQ):
 - Permit applications and design work completed, construction work planned for next summer;
- Kuujjuarapik:
 - Preparation of drawings and specifications to launch the call for tenders to construct the new portion of the access road to the new dumpsite in collaboration with the Cree Nation Government ongoing. The CFT is expected to be launched in January,

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Puvirnituk: (new construction)
 - Work continuing and planned for completion in 2022;
 - Kangirsuk (Arena demolition and new construction)
 - The commissioning of the Eco-Ice system is pending internet connection of the building by other departments

Component 3 – Rolling Stock – vehicles and heavy equipment

From the last year's purchase:

- Delivery of four (4) remaining Water trucks: Kuujjuaq (1), Kangirsuk, Ivujivik, and Puvirnituk completed on the last ship;
- (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq are unfortunately delayed and will be delivered next year;
- (4) Loaders for: Kangiqsualujjuaq, Kangirsuk, Quaqtac, and Puvirnituk were delivered on the last boat;

Negotiations have finalized with MAMH for the new phase of the program (IP5). A delegation from MAMH visited KRG late September and it is expected that the agreement will be signed before the end of the year.

3. PAVING PROGRAM (Ministere Transport du Québec)

- Paving program will be integrated into the IP program, however, the two ministries have requested two comprehensive studies on the status of the road infrastructure and proper paving and finishing methods to be conducted before any work can be conducted. MPW will start the process of those studies as soon as IP5 becomes operational and expects to finish them in two (2) years time.

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

Program has been closed and all unused funds transferred to the next phase.

- Ivujivik: Community Center (renovation)
 - Correction of deficiencies was done by the contractor and waiting for the Architect's report;
- Kuujjuarapik: St-Edmunds Church (reconstruction)
 - A second call for tender was launched and the two bids received were deemed not legally conforming to the call for tender requirements. The Northern Village would like to return to tender for a third time. Internal discussions as to when it could be planned are ongoing.

MPW notes that the unchanged amounts of the program as proposed by the ministry for the next phase are not reflective of the reality of construction costs and is collaborating with the DGO to demand upgrading of the amounts to account for inflation.

5. FUEL EXCISE TAX PROGRAM (TECQ) PROGRAM - 4

- Water infrastructure upgrades of Kangiqsualujjuaq, Kangirsuk, Puvirnituk and Inukjuak:
 - Works initiated and ongoing to do the upgrades required urgently, including but not limited to hiring commercial divers to inspect and clean up intake screens in the lake/rivers where required;
- Tasiujaq Arena renovation:
 - The first phase of the project is almost complete and pending completion paperwork;
- Ivujivik Raw Water Pipeline: (Reconstruction)
 - Communication cable material purchased and delivered to the NV.
 - Call for tender documents revised for purchasing heat trace cable and hiring a contractor to do the installation works to be relaunched before the end of the year.
- Road works in Kangiqsualujjuaq, Kuujjuaq, Kangirsuk and Quaqtaq:
 - Gravel purchased and road and drainage works conducted in several locations in collaboration with the NVs

6. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

- Firehalls (Civil Security)
 - Kangiqsujuaq: renovation works completed pending inspection by the professionals,
 - Puvirnituk and Inukjuak: renovation works are delayed by the contractor and are expected to be completed next year,
 - Tasiujaq, Aupaluk and Kangirsuk (Renovations): preparation of plans and specifications ongoing for the Call for Tenders to be launched in January next year. Construction works are planned for 2023.
- Childcare centers:
 - Salluit: Tasiursivik (renovation)
 - Defect rectification works completed, pending completion paperwork.

7. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues on-going with half staff and slow down in the supply chain to obtain the required materials.
 - MPW is facing major budget obstacles to clear the backlog of maintenance of the buildings.
- KRG Infrastructure work in the region:
 - Works on-going;
- Kuujjuaq: Head office (improvements and upgrades)
 - Despite the higher than budgeted amount, the contract was awarded to the contractor. The work will start in the new year.
- Kuujjuaq: Major work completed on some of staff housing units and others have been started.



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

Phone: 1-877-964-2961 · Fax: (819) 964-0306

Hossein Shafeghati	hshafeghati@krg.ca extension 2322	Director - Administration and management of the department
Cindy Koneak *	extension 2355	Administrative Technician

INFRASTRUCTURE DIVISION

Vacant		Assistant Director – Infrastructure division - Administration and management of the Infrastructure division and Technical Assistance Program
Project Managers		
Alain Tourigny	atourigny@krg.ca extension 2362	Building projects and civil works
Alfred Tsui	atsui@krg.ca extension 2354	Water and wastewater infrastructure- Ungava Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Amar Djedid	adjedid@krg.ca extension 2430	Civil projects (roads, bridge, drainage, paving)
Iheoma Nkwoji	inkwoji@krg.ca extension 2380	Water and wastewater infrastructure- Hudson Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Jessica Courte**	jcourte@krg.ca extension 2267	Building projects and civil works
Mikiyas Gurara**	mgurara@krg.ca extension 2231	Civil works and drinking water quality management
Khalid Safi*	ksafi@krg.ca extension 2259	Building projects and civil works
Christian Dostie*	cdostie@krg.ca extension 2430	Road/paving projects and Rolling Stock

Technical Assistance Program

Heavy Equipment Mechanic Instructors		
Eric Ouellette	eouellette@krg.ca	Mechanics Instructors (Nunavik rotation)
Matthew Murray**	mmurray@krg.ca	Assistance/on-the-job training to municipal mechanics
Vacant	1 instructor position	
Water Plant Maintenance Instructors		
Ernest Baas (Temporary Position)	ebaas@krg.ca Extension 2377	Assistance and on-the-job training to municipal operators Water Plant Instructor / Team Leader - Kuujuaq
François Corbeil *		
Frank Stevens	fstevens@krg.ca	Rotation – Quaqtaq, Kangiqsujuaq, Salluit and Ivujivik
Michael Menness	mmenness@krg.ca	Rotation – Akulivik, Puvirmituq, Inukjuak, Umiujaq and Kuujuaaraapik
Patrick Desteredjian	pdesteredjian@krg.ca	Rotation – Kangiqsualujuaq, Aupaluk, Tasiujaq and Kangirsuk

*: Temporarily out of office

** : New team member

