



**MUNICIPAL WATER AND WASTE
MANAGEMENT WORKSHOP
FINAL REPORT
INUVIALUIT WATER BOARD**



INUVIK, NT
March 1 and 2, 2023

IWB Municipal Water and Waste Management Workshop

Inuvik, NT March 1 – 2, 2023

Executive Summary

Acknowledgements

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Executive Summary

The Inuvialuit Water Board (IWB) hosted a two-day workshop on municipal water and waste management in Inuvik, NWT, on March 1 and 2, 2023. The workshop was designed for the five Inuvialuit Settlement Region (ISR) communities with municipal water licences issued by the Inuvialuit Water Board, Aklavik, Tuktoyaktuk, Paulatuk, Ulukhaktok, and Sachs Harbour. The workshop was well attended by the Mayors, Senior Administrative Officers (SAOs), Hamlet Staff, and representatives from the GNWT Departments of Municipal and Community Affairs (MACA), Environment and Natural Resources (ENR), and the Inuvialuit Land Administration (ILA).

The objective of the workshop was to provide a platform for the communities and other stakeholders such as MACA, ENR, ILA to discuss and share their experiences, challenges, and best practices related to municipal water and waste management. The workshop focused on discussing the challenges faced by the ISR communities in managing municipal water and waste, particularly in terms of water and waste management facilities, funding and water licence reporting requirements. The participants shared their experiences and best practices, highlighting the need for collaboration among the communities, government agencies, and other stakeholders to address these challenges effectively.

The workshop also included presentations on various topics, including the Inuvialuit Water Board (IWB) mandate and jurisdiction, water licence reporting requirements, the water and waste services – a collective responsibility poster, Investing in Canada Infrastructure Program (ICIP) - Inuvik Regional Solid Waste Site Improvement project, household hazardous waste management, ILA private lands and community water and waste management facilities, and the 2020 IWB Workshop Issues Table, action items update. The participants had opportunities to ask questions and engage in discussions with the presenters, enabling them to gain a better understanding of the issues at hand including potential solutions.

In conclusion, the municipal water and waste management workshop organized by the IWB was a valuable platform for the ISR communities and other stakeholders to share their experiences and challenges and to identify opportunities for knowledge sharing and collaboration. The workshop participants recognized the importance of effective water and waste management in ensuring community health and well-being and emphasized the need for continued support from GNWT MACA, ENR and other stakeholders to address the unique challenges faced by remote northern communities.

Acknowledgements

The Municipal Water and Waste Management Workshop organized by the Inuvialuit Water Board (IWB) in the Inuvik Community Corporation (ICC) Hall, Inuvik, Northwest Territories (NWT) on March 1 and 2, 2023, was a great success. The workshop participants included the Mayors, Senior Administrative Officers (SAOs), and Hamlet staff from Aklavik, Paulatuk, Sachs Harbour, Tuktoyaktuk and Ulukhaktok; as well as representatives from GNWT Departments of Municipal and Community Affairs (MACA) - Yellowknife, Environment and Natural Resources (ENR) - Inuvik Region and the Inuvialuit Land Administration (ILA). The contributions of the Mayors, SAOs, and Hamlet staff were appreciated, and the insights provided by the participants and representatives from MACA, ENR, and ILA were valuable and all are to be acknowledged.

1. Opening Prayer

Mayor Ray Ruben of Paulatuk opened the workshop with a prayer.

2. Welcoming Comments from the IWB Chairperson

Richard Binder, IWB Chairperson, welcomed participants and expressed his satisfaction to be in this workshop after the two-year gap due to COVID-19. In the address, the Chairperson emphasized the importance of water and waste management in the Inuvialuit Settlement Region (ISR) communities, where clean water sources are essential for traditional ways of life and cultural practices. Water and waste management are critical issues that impact the health and well-being of our communities and stressed the need of a collective effort of all stakeholders such as GNWT ENR, MACA, Community Governments and the IWB to ensure that our water and waste management practices are environmentally responsible and culturally appropriate. The Chairperson encourage all participants to take advantage of this workshop to learn from each other to improve water and waste management practices in the ISR communities. The Chairperson acknowledged ISR communities for their increasingly visible efforts towards the improvement of their municipal water and waste management services.

Finally, the Chairperson reiterated the importance of water and waste management and the critical role that each one of us plays in protecting this precious resource. By working together, we can ensure that our water resources remain healthy and sustainable for generations to come.

3. Agenda and Objective

Mardy Semmler, IWB Executive Director, presented the workshop agenda (Appendix 1) and to highlight the objectives of the workshop. The overall objective of the workshop is to provide information to assist municipal governments in providing adequate, safe and reliable water and waste management services to their communities while ensuring the provision of these services does not have a negative impact on the receiving environment. Specific objectives of this workshop were to:

- understand the mandate and jurisdiction of the IWB;
- promote the community understanding to maintain compliance with water licence reporting requirements;
- discuss the collective “Roles and Responsibilities of the various stakeholders” for ISR community water and waste management;
- provide information regarding household hazardous waste management including waste removal by MACA from community landfills;
- provide information regarding ILA and water and waste management facilities on Inuvialuit private lands;
- provide an effective forum for sharing information, issues and concerns regarding water and waste management in the ISR communities; and
- identify actions to address or mitigate issues and concerns.

These objectives were advanced through interactive presentations from IWB, MACA and ILA including:

- IWB mandate and jurisdictions within the framework of the Waters Act;
- Reporting responsibilities for Hamlets as specified within the municipal water licence terms and conditions;

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- The roles and responsibilities poster finalized by all stakeholders from a previous workshop “Water and Waste Services” A Collective Responsibility.
 - Presentation and discussions regarding the “Investing in Canada Infrastructure Program (ICIP) Inuvik Regional Solid Waste Site Improvement project”;
 - Handling, storage, management and disposal of Household Hazardous Waste (HHW);
 - Inuvialuit Land Administration (ILA) and water and waste management facilities for ISR communities on Inuvialuit private lands; and
 - Discussions regarding issues and concerns and recommended action items related to water and waste management facilities.

Each presentation was followed by floor discussions among the workshop participants.

4. Presentations

4.1 Inuvialuit Water Board (IWB) Presentations

Presenter: Mardy Semmler, Executive Director, IWB

Topic 1: Inuvialuit Water Board (IWB) Mandate and Jurisdiction

Introduction

The IWB’s mandate is described in the Waters Act. The objects of the Board are to provide for the conservation, development, and utilization of waters in a manner that will provide the optimum benefit for all Canadians in general and, in particular, for the residents of the portion of the Inuvialuit Settlement Region located in the Northwest Territories for which the Board is authorized to issue licences. The IWB is a quasi-judicial authority under the Waters Act s.13(1). The IWB consists of a five member "Board", including the Chairperson, and administrative “Staff” headed by an Executive Director. Two of the members of the Board are nominated by the Inuvialuit Regional Corporation (IRC) and one nominated by the federal government. All appointments to the Board are made by the GNWT Minister of ENR. The Chairperson of the Board serves as IWB’s Chief Executive Officer (CEO). The IWB's jurisdiction is limited to the use of freshwater and the disposal of waste that may come into contact with water. Apart from small bays along the coast between the Yukon border and Cape Bathurst (nearshore), the IWB's jurisdiction does not include offshore (ocean) waters.

Discussion

The presentation led to a discussion among the workshop participants which included the IWB's roles and Board member selection, term and frequency of Board meetings, term of a water licence, enforcement and inspection of a water licence, and the jurisdiction of IWB.

Key Takeaways

- The IWB plays a crucial role by issuing municipal water licences to communities to ensure they have access to potable water and can dispose of waste to a recognized disposal facility in a sustainable manner.
- The specific roles of the IWB Board include making decisions on water licence applications; setting terms and conditions for licences, including security deposits; issue or renew water licences; and administering the water licence files.
- The Board consists of five members. Board members are appointed by the GNWT Minister of ENR. The Minister appoints two members on the nomination of the IRC and one member on the

nomination of the Federal Crown and Indigenous Relations and Northern Affairs Canada (CIRNAC). The Chairperson is appointed by the GNWT Minister of ENR on the nomination of the majority of the members.

- The term of each Board Member is for three (3) years.
- Board meetings are conducted three (3) to four (4) times per year or as required.
- As per *Waters Act* s.26(2)(a), the IWB may issue a water licence for a term not exceeding 25 years. The municipal water licences for each ISR communities are issued for five (5) year terms. Therefore, the municipal water licences are to be renewed every five years.
- Water licence inspection and enforcement activities are not the responsibility of IWB. These responsibilities are held by the GNWT ENR.
- The jurisdiction of the IWB is to issue water licences for inland waters within the NWT portion of the ISR.

Topic 2: Hamlet Municipal Water Licence Reporting Responsibilities

Introduction

Mardy Semmler, IWB Executive Director, highlighted the importance of maintaining compliance regarding reporting requirements as specified in the water licence conditions. The water licence conditions require Hamlets to report on their activities to the IWB and / or ENR inspector, including the Surveillance Network Program (SNP) monitoring data, annual reports, updates of O&M plans, and spills. The presentation emphasized the importance of responsible reporting and compliance with water licence terms and conditions. By fulfilling the reporting obligations and maintaining compliance of the water licence conditions, Hamlets can contribute to the sustainable management of their water resources and minimize potential risks associated with municipal water use and waste disposal.

Discussion

The discussion highlighted the challenges that ISR Hamlets may face in fulfilling their reporting responsibilities and compliance with the water licence conditions, such as lack of technical expertise, inadequate resources, lack of work experience and awareness. During the discussion, it was noted that there are resources and support available from GNWT MACA and ENR to assist Hamlets in meeting their reporting obligations and compliance with the water licence conditions. The participants discussed the need for collaboration and cooperation between stakeholders to achieve the goal of sustainable water and waste management.

Key Takeaways

- It is important for responsible reporting and compliance with water license conditions. By fulfilling the reporting obligations and compliance with the water licence conditions, Hamlets can contribute to the sustainable management of water resources and minimize potential risks associated with the municipal water use and waste disposal.
- Financial, technical, and educational support is required from GNWT MACA and ENR to ensure that Hamlets can meet their reporting responsibilities and maintain compliance of municipal water licences.
- For financial, technical, and educational support / information for municipal water and waste management, the Hamlet can contact:
 - Gerald Enns, Senior Technical Officer, Water and Sanitation – MACA, Phone: 867-767-9164 ext. 2108 Email: Gerald_enns@gov.nt.ca
 - Donald Roberts, Waste Management Advisor, Community Operations Division, MACA, Phone: 867-767-9164 ext. 21082 email: Donald_roberts@gov.nt.ca

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- Lloyd Gruben, Water Resource Officer – Inuvik Region, ENR,
Phone: 867-678-8091 ext. 53659 Email: Lloyd_gruben@gov.nt.ca
 - MACA is conducting a Municipal Solid Waste Operator Training Program from May 30 to June 22, 2023. Municipal Waste Operations staff can participate in the training program. For detailed information regarding timing, funding, and location – contact: Gerald Enns, Senior Technical Officer, Water and Sanitation – MACA, Phone: 867-767-9164 ext. 2108 Email: Gerald_enns@gov.nt.ca
 - The communities can raise their concerns regarding water and waste management policies at meetings of NWT Association of Communities (NWTAC).
 - Hamlets can develop by-laws for landfill tipping fees, bans on government constructed or private contractors to dump their waste (e.g., demolition waste) in the community landfills, etc.
 - To enforce the terms and conditions of the Municipal Water Licence, the Minister of ENR has appointed Inspectors in accordance with Section 65(1) of the *Waters Act*. The Inspectors coordinate their activities with officials of the Water Resources Division of the Department of ENR. The Inspector responsible for the Licence is located in the Department of ENR office in Inuvik.
 - To keep the IWB and members of the public informed of the Licensee's conformity to Licence Terms and Conditions, the Inspectors prepare reports which detail observations on how each requirement of the Licence has been met. These reports are forwarded to the Licensee with a covering letter indicating what action, if any, should be taken. The inspection reports and covering letters are placed in the IWB Public Register, as are any responses received from the Licensee regarding the inspection reports. Licensees must respond to all areas of concern outlined in the inspection reports.
 - It is the responsibility of the licensee to submit a municipal water licence renewal application - Schedule C (including supporting documents such as Environmental Impact Screening Committee (EISC) Decision Document, updated O&M plans, municipal questionnaire) to the IWB at minimum six (6) months prior to the expiry date of the water licence.
 - If the Hamlet is closing an existing community solid waste disposal facility and plans to open a new facility, the licensee is required to submit a Closure and Reclamation Plan for the current disposal facility, and an Operation and Maintenance (O&M) Plan for the new disposal facility including a Surveillance Network Program (SNP) location map with all Global Positioning System (GPS) coordinates. Board approval is required prior to using a new disposal facility.
 - The Hamlet is responsible for SNP sampling as per water licence conditions. The Hamlet can contact GNWT Taiga Environmental Laboratory for sampling kits, laboratory analysis, and sample collection, storage and transportation procedures:
 - Taiga Environmental Laboratory, Environment and Natural Resources
4601 - 52nd Avenue, Yellowknife, NT X1A 2L9
Laboratory Manager:1-867-767-9235 ext. 53150
Client Services:1-867-767-9235 ext. 53153
 - Information required in the annual report is specified in the Municipal Water Licence Part B: General Conditions, Item 1. The licensee must address all the reporting requirements.
 - The Hamlet is responsible for spill reporting and clean up requirements (as per Board approved Spill Contingency Plan and water licence conditions) resulting from the Hamlet's municipal water and waste operation activities. If spills occurs from others (such as NTPC, other contractors), it is their responsibility to report and clean up actions as per their Spill Contingency Plans. However, as a good citizen if a spill is noticed or observed, any individual can report to the NWT 24 Hr Spill Line or report to someone who may assist in reporting.

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- If a spill occurs from an individual home (e.g., home fuel tank), the homeowner is responsible for the clean up of the spill.

Topic 3: Municipal Water Licence – Roles and Responsibilities Poster Discussion

Introduction

The poster “Water and Waste Services - ISR Communities - a Collective Responsibility” developed and approved by all workshop stakeholders during the 2017 workshop - namely Community Governments, MACA, H&SS, ENR and IWB (Appendix 2) was presented followed by an interactive discussion.

Discussion

The participants discussed each organizations roles and responsibilities to provide reliable and sustainable water and waste services to the ISR communities. The discussion emphasized the need for collaboration and cooperation between the stakeholders to ensure effective water and waste management practices.

Key Takeaways

- Water and waste management in the ISR involves multiple stakeholders (e.g., Municipal Governments, MACA, H&SS, ENR and IWB each with distinct roles and responsibilities).
- Effective collaboration and cooperation between the stakeholders are essential to achieving sustainable management of water and waste resources in the ISR communities.

Topic 4: Household Hazardous Waste (HHW) Management

Introduction

The IWB Executive Director presented a Household Hazardous Waste (HHW) Management brochure previously developed by GNWT ENR. The presentation stressed how HHW management including segregation is an important process for the ISR communities. HHW includes items such as batteries, cleaning products, pesticides and fluorescent light bulbs, which can pose a risk to human health and the environment if not disposed of properly. The waste disposal facility and / or community garage in the ISR communities play a vital role in managing and segregating HHW. The site is designed to ensure that HHW waste is stored properly and only temporarily until final removal and disposal can be completed. HHW is to be transported to an approved hazardous waste disposal facility for safe and effective disposal. The success of a HHW management program depends on the cooperation of community members who need to be aware of which household items are considered hazardous and how to properly store the HHW for final removal and disposal.

Discussions

During the presentation, several important points were discussed, including the importance of educating community members about HHW management and segregation. There is a need for ongoing education to ensure that community members are aware of the risks associated with HHW and how to properly dispose of HHW. Education can take many forms and include workshops, informational brochures and public awareness campaigns. Discussions highlighted the unique challenges faced by communities in the ISR, where access to transportation and specialized hazardous waste management services can be limited. As a result, community members must be especially vigilant about properly segregating HHW at the source to ensure that it can be safely transported and disposed of. The

discussions also focused on the hazardous wastes generated by the Industrial, Commercial and Institutional (ICI) activities.

Key Takeaways

- HHW management and segregation is an important process in the ISR communities, where items such as batteries, cleaning products and pesticides can pose a risk to human health and the environment if not disposed of properly.
- The waste disposal facilities / community garages in the ISR communities play an important role for managing and segregating HHW but the success of the program depends on the cooperation of community members who must be aware of which items are considered HHW and how to properly manage and segregate prior to final disposal.
- Ongoing education is important to ensuring that community members are aware of the risks associated with HHW and how to properly segregate and store HHW.
- As per municipal water licence conditions: *“The Licensee shall not accept any hazardous wastes generated by the Industrial, Commercial, Institutional (ICI) sector unless the Licensee is registered as a “Receiver” of Hazardous Waste with the Department of ENR and acceptable types and procedures are detailed in the Hazardous Waste Management Plan”, and “The Licensee shall, to the satisfaction of the Inspector, segregate and store all hazardous waste in the designated Temporary Hazardous Waste Containment Area”.*
- According to the “GNWT Guideline for Hazardous Waste Management, October 2017, Page 7” - The ICI sectors are categorized as:
 - **Industrial:** Resource development activities, construction, fabrication, light and heavy manufacturing;
 - **Commercial:** Retail stores, mechanical shops, property managers, service and repair businesses, etc.; and
 - **Institutional:** Federal, Territorial, Municipal government departments and agencies, non-profit agencies.

4.2 Municipal and Community Affairs (MACA) Presentation

Presenter: Gerald Enns, Senior Technical Officer, Water and Sanitation

Topic: Investing in Canada Infrastructure Program (ICIP) - Inuvik Regional Solid Waste Site Improvement project.

Introduction

The presenter provided a brief introduction regarding “ICIP Inuvik Regional Solid Waste Site Improvement Project” undertaken by GNWT MACA. ICIP is a federal program that aims to support infrastructure projects across Canada. The “Inuvik Regional Solid Waste Site Improvement Project” is one of the projects funded through this program. The project aims to improve the waste management systems in the Inuvik Region and to create space for solid waste sites by eliminating stockpiles from the existing landfills. This project is a collaborative effort between the federal and territorial governments, as well as the local communities.

Discussion

During the presentation, there was a discussion on the importance of proper waste management in the region especially considering the environmental and health risks associated with improper waste disposal. The project was seen as a positive step towards improving the situation and ensuring available

landfill space by transporting stockpiles from existing landfills and consequently increasing landfill life. There were questions raised regarding the funding for the project and whether it would be sufficient to remove all stockpiles from the landfills. The presenter clarified that the funding was allocated based on a detailed assessment of the project's requirements.

Key Takeaways

- The ICIP is a federal program that supports infrastructure projects across Canada, including the Inuvik Regional Solid Waste Site Improvement Project. In the Inuvik Region this project includes Sachs Harbour, Ulukhaktok, Paulatuk, Inuvik and Tsiigehtchic. The Hamlet of Tuktoyaktuk was not included because the existing landfill site is scheduled to close in the near future.
- The focus of the project is to remove historical hazardous waste stockpiles from the landfills.
- The available project funding for this year is \$2.5 million. The project will be carefully assessed and funding is expected to be sufficient to complete the necessary stockpile removal.
- Hamlets can independently apply under ICIP for the improvement of landfill infrastructure such as landfill fencing. MACA will assist the communities with the application process. Interested communities may contact: Gerald Enns, Senior Technical Officer, Water and Sanitation – Municipal and Community Affaires (MACA), Phone: 867-767-9164 ext. 2108 Email: Gerald_enns@gov.nt.ca.
- MACA signed a contract with KBL Environmental for the assessment and removal of the stockpiles from the landfills.
- Due to the costs involved, a metal crusher is not on the option at this time. A stockpile inventory will be prepared and then the removal option will be selected.
- Once the community landfills are full, the closure liability falls to MACA, therefore the aim of this project is to increase landfill life.

4.3 Inuvialuit Land Administration (ILA) Presentation

Presenter: Charles Klengenberg, Director - ILA

Topic: Inuvialuit Land Administration (ILA) – Water and Waste Management Disposal

Introduction

The presenter provided a brief introduction of ILA. ILA is the division of the Inuvialuit Regional Corporation (IRC) responsible for managing and administering Inuvialuit-owned (private) lands in the ISR. Municipal boundary maps including locations of water and waste management facilities of Paulatuk, Sachs Harbour, Tuktoyaktuk and Ulukhaktok were then presented.

Discussion

There were discussions regarding gravel extraction by Inuvialuit beneficiaries and a mineral exploration project near the NWT / Nunavut border adjacent to the ISR. ILA's land management responsibilities include issuing land use permits, conducting land inspections and managing land applications and leases. ILA works with community members and organizations to develop land use plans and management strategies that balance economic development with environmental conservation. ILA also works closely with IRC to ensure Inuvialuit rights and interests are protected and upheld in all land management decisions.

Key Takeaways

- ILA is responsible for managing and administering private lands in the ISR.
- ILA works closely with IRC and other government agencies to ensure effective management and conservation of the region's natural resources.
- ILA's land management responsibilities include issuing land use permits, conducting land inspections and managing land applications and leases.
- ILA works with community members and organizations to develop management plans that promote sustainable use and conservation of natural resources.
- ILA is committed to ensuring that Inuvialuit rights and interests are protected and upheld in all management decisions.
- Community water and waste management facilities are owned by the Municipal Governments.
- Inuvialuit beneficiaries are allowed up to 50 cubic yards / yr (38 m³ / yr) of royalty free borrow material annually (i.e., sand and gravel) from Inuvialuit sources. Costs involved with the removal, hauling and use of the gravel are not covered by ILA and is the responsibility of the Inuvialuit beneficiary.
- Within the framework of the Inuvialuit Final Agreement (IFA), ILA is considering developing borrow material extraction "Rules of Procedures" for Inuvialuit beneficiaries.
- Upgrades of water and waste management facilities or any other issues regarding these facilities are not the responsibility of ILA. If communities have issues or concerns, they may send correspondence to ILA regarding the issues / upgrades and ILA will forward the issues to GNWT MACA and / or ENR.
- Regarding the potential mineral exploration and development project on the Nunavut side near the NWT boundary, it is the responsibility of the developer to consult with the potential impacted community in the ISR.
- ILA is not responsible for the closing of landfill sites in the ISR, it is the responsibility of MACA.
- Land within Aklavik Municipal boundaries is not under the jurisdiction of ILA as it is Gwich'in private lands.

5. IWB Workshop Issues Table - Follow-up Action Items

Each year, during the IWB workshop, community and other participants raise issues and concerns regarding the provision of municipal water and waste management services. The parties present agree on actions to address the concerns raised. Follow-up discussion on the action items during the 2023 workshop resulted in the identified actions as attached in Appendix 3.

6. Workshop Evaluation

An evaluation form was distributed to participants following the workshop. The evaluation form was completed by 88% of the participants. At the conclusion of the workshop, participants, including the Hamlets, ENR and MACA expressed their satisfaction with the workshop content, materials and time provided for questions and discussions, and the objectives achieved. The workshop was rated "excellent" and "very good" by 77% and 23% of the total respondents respectively (Appendix 4).

7. Conclusion

The Municipal Water and Waste Management Workshop organized by the Inuvialuit Water Board (IWB) for the five (5) Inuvialuit Settlement Region (ISR) communities was a great success. The workshop brought together the Mayors, SAOs, and Hamlet Staff of the community governments, along with representatives from GNWT MACA, ENR, and ILA (Appendix 5), to discuss and share their experiences, challenges, and best practices related to municipal water and waste management.

Throughout the two days, the participants engaged in productive discussions and knowledge sharing, highlighting the importance of effective municipal water and waste management systems to ensure public health, environmental protection and community well-being. The workshop provided an opportunity for the communities to learn from each others experiences and to identify areas where collaboration and knowledge sharing could be enhanced.

Overall, the workshop was a valuable platform for the ISR communities and other stakeholders to share their experiences, challenges, and best practices related to municipal water and waste management. The discussions and knowledge sharing that took place during this workshop will lead to enhanced collaboration and cooperation among the communities and stakeholders in addressing their common challenges and ensuring safe and sustainable municipal water and waste management practices in the ISR communities.

8. Closing Remarks

Mardy Semmler, IWB Executive Director, expressed gratitude to all participants for their contributions to this workshop. She acknowledged the hard work and dedication of the Mayors, SAOs, and Hamlet staff in ensuring effective municipal water and waste management in their respective communities. The Executive Director also thanked the representatives from GNWT MACA, ENR, and ILA for their participation and support for this workshop. Finally, the Executive Director declared the end of the two-day 2023 IWB Water and Waste Management Workshop.

Appendix 1: Workshop Agenda



**Inuvialuit Water Board
Water and Waste Management Workshop - Inuvik, NT
Inuvik Community Corporation Boardroom
March 1 – 2, 2023**

Day 1 – March 1, 2023

8:30 – 9:00 am	<i>Arrival, Registration and Coffee</i>
9:00 – 9:30 am	Welcome and Introductions – Chairperson Richard Binder <ul style="list-style-type: none">• Opening Prayer• Round Table Introductions• Welcoming Remarks• Objectives of Workshop and Agenda Review
9:30 – 10:30 am	Inuvialuit Water Board Mandate and Fact Sheet Discussion and Questions – Mardy Semmler
10:30 – 10:45 am	<i>Refreshments</i>
10:45 – 12:00 pm	Hamlet Municipal Water Licence Reporting Responsibilities – <ol style="list-style-type: none">1. To IWB2. To ENR Discussion and Questions – Mardy Semmler
12:00– 1:15 pm	<i>Lunch – on own</i>
1:15 – 2:00 pm	Hamlet Municipal Water Licence Reporting Responsibilities – <ol style="list-style-type: none">1. To IWB2. To ENR Discussion and Questions – Mardy Semmler
2:00 – 2:45 pm	Municipal Water Licence – Roles and Responsibilities Poster Discussion - All
2:45 – 3:00 pm	<i>Refreshments</i>
3:00 – 4:45 pm	Temporary Hazardous Waste Management and Segregation at Solid Waste Disposal Sites – Discussion and Questions - Mardy Semmler

Day 2 – March 2, 2023

8:30 – 9:00 am	<i>Arrival and Coffee</i>
9:00 – 10:00 am	Inuvialuit Land Administration – Water and Waste Management and Disposal discussion – Charles Klengenberg – ILA Director
10:00 – 10:15 am	<i>Refreshments</i>
10:15 – 11:00 am	2020 IWB Workshop Issues Table – Action Items Update - all
11:00 – 12:00 pm	<i>Closing Remarks and Closing Prayer</i>

Appendix 2: Water and Waste Services – A Collective Responsibility

WATER AND WASTE SERVICES

INUVIALUIT SETTLEMENT REGION COMMUNITIES

A COLLECTIVE RESPONSIBILITY



COMMUNITY GOVERNMENTS

- Provide safe drinking water to residents
- Provide for the collection and disposal of liquid and solid wastes
- Provide for the operation and maintenance of a community water treatment plant and liquid and solid waste disposal facilities
- Provide temporary storage and final disposal of hazardous wastes
- Ensure safe working conditions for employees and contractors
- Ensure compliance with Water Licence and *Public Health Act*



All photos taken by: Peggy Jay

GNWT DEPARTMENT OF MUNICIPAL AND COMMUNITY AFFAIRS

- Provides operational and capital funding to community governments to deliver community services
- Works with community governments to ensure the provision of safe, efficient and effective drinking water and waste disposal services by:
 - Providing training, certification and support through the School of Community Government
 - Providing technical and engineering support
 - Providing support with preparation of water licenses and compliance with water licenses
 - Providing assistance with the preparation of community capital plans



GNWT DEPARTMENT OF HEALTH AND SOCIAL SERVICES

- Ensures community drinking water meets Canadian Drinking Water Guidelines
- Ensures water plant operators are certified at the level of their water plant classification
- Supports water plant operators and monitors water testing system reports
- Performs annual inspections of community liquid and solid waste disposal facilities

GNWT DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

- Promotes the protection of water in the NWT
- Promotes community capacity building and self-reliance with respect to sampling and monitoring
- Supports community governments in the coordinated transportation and disposal of hazardous wastes
- Supports and co-ordinates the provision of community based recycling programs
- Provides technical and scientific advice to water boards on responsible management of water and wastes
- Provides support through chemical analysis of drinking water and wastewater (Taiga Lab)
- Inspects community water and waste facilities and enforces the terms and conditions of Water Licences

INUVIALUIT WATERBOARD

- Issues Water Licences and sets terms and conditions for water use and waste disposal
- Maintains Public Register of all water licences and associated documentation
- Posts information, guides and templates relating to municipal water use and waste disposal
- Supports increased community capacity in water and waste management
- Promotes increased awareness of safe water use and effective waste management
- Monitors and promotes compliance with water licences



Appendix 3: IWB Municipal Water and Waste Management Workshop Issues Update (2023)

	Issue	Options and/or Standards
1	Facility security – dumping outside designated areas / after hours	<ul style="list-style-type: none"> Local Council / Staff reluctant to restrict ‘after hours’ access; Condition of all MWL – Part B, Item 9 – gate control; Need for ongoing Public Awareness / Education; Need to shut down SWDF, especially during bear season; Bear Aware education – promote “no bear watching” at the dump. Dumpster located outside facility for after hours dumping recommended. Have multiple dumpsters for different sources (cardboard, lumber, domestic) Does / Don’t Lists to hand out to contractors.
2	Windblown debris	<ul style="list-style-type: none"> Banning of single use plastic bags; Buy-in from businesses (no single use plastic bags) Proper fencing requirements; Promote reusable bags for shopping. Use cardboard boxes, reduces cardboard to dumps Cardboard turned into logs for reuse (machine) Composting, etc. Further education and public awareness.
3	Burning of garbage	<ul style="list-style-type: none"> Conditions allow for burning of cardboard, untreated wood and paper only; MACA has approved “Guidelines for Open Burning”; Burn within a pit and / or burn box; and Environmental Protection Act developing updated Air Quality Regulations – in progress. Incinerators are options, but costly; Scheduled burn times and notifications to Fire Chief;
4	Unauthorized and inappropriate dumping within the Solid Waste Disposal Facility (SWDF) by outside contractors doing work and / or construction projects in the community	<ul style="list-style-type: none"> Suggested resolution provided to MACA in 2016; Discussed at Interdepartmental Technical Committee (ITC); Ongoing discussions between MACA and INF – need for work with NWTHC; Contract – need to include hold back funds in agreements and provided to Hamlet if contractor dumps illegally – should be used for waste management; NWTAC passed Resolution by Motion in 2018; and Municipalities need to draft Tipping By-Laws and Fees – Aklavik has approved by-laws. Gerald to update later on
5	Ongoing Municipal Operations Training Requirements	<ul style="list-style-type: none"> MACA develops an annual School of Community Government (SCG) training calendar and distributes to Hamlets; Hands on training to be incorporated into all training

		<p>programs;</p> <ul style="list-style-type: none"> • Wherever possible, training should be provided on a regional basis; and • MACA Training Coordinator updates required. • Mardy to follow up with Crystal • MACA Learn on website brings you to SCG
6	Time sensitive sample management	<ul style="list-style-type: none"> • E. Coli alert testing being completed in each community; • Sampling Protocol training provided through SCG; and • Need for increased communications between TAIGA and Communities. • Communities need to contact TAIGA when samples are shipped for testing so the samples are completed in a timely manner; • Take photos of shipping documents and send to TAIGA; • H & SS also sends samples to TAIGA annually (potable water only)
7	Clearly identified contacts at Board and GNWT departments	<ul style="list-style-type: none"> • Contact lists updated annually and included in the annual workshop report (appendix).
8	Age of facilities makes compliance with new standards difficult	<ul style="list-style-type: none"> • All Operation and Maintenance Plans; Spill Contingency Plans; Hazardous Waste Management Plans must be updated annually and provided with the Annual Report to the Board – especially contact information – which is usually only part that needs updating due to staff turnover, etc.
9	Difficulty in meeting changing licence terms and conditions	<ul style="list-style-type: none"> • IWB has Standard Municipal Water Licence Terms and Conditions; • IWB revised the Standard T & C's from technical terminology to layman terms; • National Wastewater Systems Effluent Regulations (NWSER) – Update – not much has been completed on these regulations; but • CSA is currently managing the development and review of “Standards for Planning, Design, Operation and Maintenance of Wastewater Treatment in Northern Communities using Lagoon and Wetland Systems” (MACA and ENR part of working group)
10	Competing priorities for community personnel by Government and / or their contractors	<ul style="list-style-type: none"> • Better coordination between Inspectors and Municipal Staff prior to visiting the community; • Groundwater Monitoring Wells (GMW) installed in each ISR community between 2016 and 2018 through a MACA contract; • GMW to monitor environmental liabilities associated with solid waste sites; and • MACA has hired a contractor (Dillon Consulting) to sample the wells on an annual basis for the next five years and includes training opportunities for members of the communities.

11	Regional coordination of waste removal from communities	<ul style="list-style-type: none"> • All communities actively involved in removing hazardous waste;
12	Identify new sources of funding when they become available	<ul style="list-style-type: none"> • New funding – Federal initiative – MACA is NWT Contact; • ENR – Waste Reduction Initiative Funding. – get a hold of LEE;
13	EISC	<ul style="list-style-type: none"> • Hamlets will have to complete EISC process prior to IWB issuing water licence renewal. • On line Pre screening process – 7 day screening – questionnaire (26 questions)

Appendix 4: March 2023 Workshop - Evaluation Summary

An evaluation form was distributed to participants during the workshop.

The evaluation form was completed by 88% of the total participants. Overall, respondents expressed their satisfaction with the materials, time provided for questions and discussions, and objectives achieved. The workshop was rated “excellent” and “very good” by 77% and 23% respondents respectively. Comments and suggestions provided by the respondents are summarized below.

Comments:

- Overall, all the topics were interesting and useful.
- Distribution of workshop agenda and presentations in advance could be helpful to understand the subject matter.
- Physical address of the workshop venue not provided in the workshop agenda.
- Structural gaps in questions and answers.

Suggestions for future IWB Water and Waste Management Workshop:

- Invite presenters from GNWT MACA, ENR and H&SS to provide information about the availability of technical, financial and educational / training support for operation / management of municipal water and waste facilities.
- Invite a presenter from Town of Inuvik to provide information about their water and water management systems.

Table 1: Summary of responses provided by the participants on evaluation questionnaire

SN	Evaluation Questionnaire	Responses		
		Yes (% of respondents)	No (% of respondents)	Comments (% of respondents)
1	Were the materials provided adequate to prepare you for the discussions?	93%	0%	Not responded (7%)
				14% of the total respondents commented that providing workshop agenda and presentations a few days before of workshop date may be helpful
2	Within the time available, was the meeting run effectively?	100%	0%	14% of the total respondents recommended allocate more time for questions and discussions.
3	Could the agenda have been improved? If so, how?	100%	0%	21% of the respondents suggested to invite presenters from GNWT MACA, ENR and H&SS to provide information about their support to the community government regarding technical, financial and educational / training aspects for management of municipal water and waste management systems.
				7% of the total respondents suggested to include physical address of the workshop venue in the agenda.
4	Were the presentations/discussions relative and useful to your	100%	0%	Most of the respondents commented “Very Useful”.

	responsibilities?			
5	Was there adequate time provided for participants' questions and responses?	79%	0%	21% of the respondents suggested to allocate more time for questions and discussions.
6	Were questions from the floor answered satisfactorily?	79%	0%	7% of the total respondents didn't respond this question. 7% of the respondents commented – no sufficient time allocation for questions and answers. 7% of the respondents commented – structural gaps in question and answer.
7	What topics or aspects of the workshop did you find most interesting or useful?	-	-	All topics (36%)
				ILA topic (7%)
				Solid waste landfill, hazardous waste and annual reporting (57%)
8	Were the objectives of the workshop achieved?	86%	0%	14% of the total respondents commented to provide more information about site specific SNP sampling and more discussions
9	Were you clear on future actions and commitments from the workshop?	72%	-	14% of the total respondents didn't provide response to the question. 14% of the total respondents indicated some & continuous improvements.
10	Any suggestions on how the workshop might have been improved?	-	-	No suggestions and it was good (36%)
				One respondent (7%) indicated first time participation in this workshop, and no suggestions
				57% of the total respondents suggested the following for future IWB workshop agenda: <ul style="list-style-type: none"> • More time allocation for questions & discussions for the topics like outstanding issues associated with the water licence terms and conditions, direct responsibilities of the community government for the spills within the framework of the water licence. • More information about funding agencies for municipal governments to manage their water and waste facilities. • More information about funding availability for hamlet water and waste operational staffs. • Its better to have question and answer session at the end of each presentation. • Suggested to invite some one from Town of Inuvik to present their water and waste management systems.
11	Were the physical arrangements of the workshop adequate	100%	0%	-

	(meeting facility, sound system, transportation, accommodation, support, etc.)?			
12	Would you attend another Inuvialuit Water Board workshop on community water and waste management?	100%	0%	-
Overall rating				
13	On a scale of 1 to 10, how would you rate this workshop (1 being poor and 10 being excellent)	% of total respondents		
	1-2 (Poor)	0%		
	3-6 (Good)	0%		
	7-8 (Very Good)	23%		
	9-10 (Excellent)	77%		

Appendix 5: Workshop Participants

Municipalities	Community	Phone	Email
Eugene Pascal, Mayor	Aklavik	867-678-2351	Eugene-pascal@hotmail.com
Tom Ng, SAO	Aklavik	867-978-2351	saoaklavik@permafrost.com
Ray Ruben, Mayor	Paulatuk	867-788-0002	Mayor@Paulatuk.ca
Aron Ruben, SAO	Paulatuk	867-788-0024	sao@paulatuk.ca
Bobby Ruben, Hamlet Staff	Paulatuk	867-788-0157	Ruben_bobby06@hotmail.com
Kyle Wolki, Mayor	Sachs Harbour	867-688-0207	Kwolki18@gmail.com
Betty Haogak, SAO	Sachs Harbour	867-698-4351	hamletsao@sachsharbour.ca
Darrin Nasogaluak, Hamlet Staff	Sachs Harbour	867-786-0157	dvnasogaluak@gmail.com
Tom Harvey, Hamlet Staff	Ulukhaktok	867-787-0094	Tomharvey11@hotmail.com
Vincent Alonak, Hamlet Staff	Ulukhaktok	867-787-0285	valonak@yahoo.ca
Lucy Kuptana, SAO	Tuktoyaktuk	867-977-2286	sao@tuktoyaktuk.ca
Davy Krengnektak, Hamlet Staff	Tuktoyaktuk	867-977-2286	foreman@tuktoyaktuk.ca
Government of the NWT	Department		
Lloyd Gruben, Water Resources Officer – Inuvik Region	ENR	867-678-8091 ext. 53659	lloyd_gruben@gov.nt.ca
Alicia McRae, Regional Environmental Assessment Coordinator	ENR	867-620-0770	alicia_mcrac@gov.nt.ca
Gerald Enns, Senior Technical Officer - Yellowknife	MACA	867-767-9164 ext 21080	Geral_enns@gov.nt.ca
Donald Roberts, Waste Management Advisor – Yellowknife	MACA	867-767-9164 Ext 21082	donald_roberts@gov.nt.ca
Inuvialuit Land Administration			
Charles Klengenber, Director	ILA	867-777-7009	cklengenber@inuvialuit.com
Inuvialuit Water Board			
Richard Binder, Chairperson	IWB	867-678-5128	richardbindersr@gmail.com
Mardy Semmler, Executive Director	IWB	867-678-8609	semmlerm@inuvwb.ca
Bijaya Adhikari, Science and Regulatory Coordinator	IWB	867-678-8610	adhikarib@inuvwb.ca
Delores Harley, Office Administrator	IWB	867-678-2942	admin@inuvwb.ca