



# **INUVALUIT WATER BOARD 2019 WATER AND WASTE MANAGEMENT WORKSHOP REPORT**



INUVIK, NT  
February 6 and 7, 2019

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# IWB Water and Waste Management Workshop

Inuvik, NT – February 6 – 7, 2019

Executive Summary

Acknowledgements

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## Executive Summary

The annual Inuvialuit Water Board (IWB) Water and Waste Management Workshop was held in Inuvik on February 6 and 7, 2019. The workshop was the fifth in a series of workshops hosted by the IWB since 2015. The 2019 workshop included presentations and discussions on hazardous waste management, the (IFA) Environmental Impact Screening of municipal water licences applications, the importance of the Surveillance Network Program (SNP), and concerns regarding waste and waste reduction. The workshop also highlighted the World Water Day event scheduled for March 22 in Tuktoyaktuk and information regarding Canada's Waste Reduction Week. The workshop was attended by Mayors and Hamlet staff from the Inuvialuit Settlement Region (ISR) communities of Aklavik, Paulatuk, Sachs Harbour, Tuktoyaktuk, and Ulukhaktok. Other participants included staff from the Government of the Northwest Territories (GNWT) Departments of Municipal and Community Affairs (MACA) and Environment and Natural Resources (ENR). Representatives from the (IFA) Environmental Impact Screening Committee (EISC), Gwich'in Land and Water Board (GLWB), and Inuvialuit Communication Society (ICS) also attended.

The overall objective of this and previous workshops is to assist municipal governments in providing adequate, safe and reliable water and waste services to their communities while maintaining the environmental quality of waters in the receiving environment. Specific objectives of this workshop were:

- To provide information about hazardous waste management, ultimate disposal, associated financial cost, human health and environmental risk;
- To understand the EISC project environmental screening and summary questionnaire submission processes;
- To provide awareness regarding the SNP sampling and reporting requirements; and
- To provide information regarding World Water Day, Waste Reduction Week, and other water and waste management initiatives.

In part, these objectives were advanced through interactive presentations from ENR, MACA, EISC and the IWB including:

- Handling, temporary storage, transportation and final disposal of hazardous waste including registration and licensing requirements;
- Public health, worker safety and environmental risks and financial cost associated with hazardous waste management;
- EISC environmental screening requirements for Municipal water and waste facilities and the project summary questionnaire submission process;
- Municipal Water Licence and the SNP sampling and reporting requirements;
- Initiatives to celebrate World Water Day, Waste Reduction Week, and community water/waste management experiences; and
- An overview of the IWB fillable Municipal Water Licence Operation and Maintenance (O&M) Plan templates.

Each presentation was followed by floor discussions among workshop participants.

In addition, the IWB presented and requested further updates from the responsible parties on the action items issues table initially developed during the 2015 workshop and updated during the 2016, 2017 and

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2018 workshops. All parties confirmed their continuing commitment to working as a team to address issues regarding water, sewage, hazardous and solid waste management systems in the ISR communities.

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## Acknowledgements

This workshop would not have been completed successfully without the active participation of all attendees and presenters. A sincere thank you to the Mayors and Hamlet staff from Aklavik, Paulatuk, Sachs Harbour, Tuktoyaktuk, and Ulukhaktok and the representatives from the GNWT Departments of MACA, ENR, EISC, GLWB and ICS. Meeting facilities were provided by the Inuvik Community Corporation and meeting supports by the IWB.

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## 1. Opening Prayer

Paulatuk Mayor Ray Ruben opened the workshop with a prayer.

## 2. Welcoming Comments from the Chair

The IWB Chairperson, Roger Connelly, welcomed all participants, highlighting the importance of efficient and effective water and waste management services and the ongoing challenges related to health, safety and the environment. He stressed the importance of proper handling and management of municipal solid waste, hazardous waste and sewage waste to ensure the protection of the receiving environment. The Chairperson emphasized concerns related to the over-time accumulation and ever-increasing volumes and variety of waste to be managed in municipal solid waste facilities; the segregation of wastes; increasing volumes of hazardous waste requiring temporary management and final disposal; the security of solid and liquid waste facilities; and the ultimate closure of solid waste facilities. The Chairperson acknowledged the ISR communities for their increasing efforts to maintain a clean and green environment. Finally, the Chairperson stressed the importance of the IWB and government departments working together with communities to achieve their common goals of efficient and effective municipal water and waste services and maintaining the environment for today and for future generations.

The Chairperson introduced and passed the floor to workshop facilitator Emery Paquin.

## 3. Presentations

### a) Hazardous Waste Management

**Lee Ross, Hazardous Waste Management Specialist - ENR:** Highlighted the definition, sources, type, handling, temporary storage, transportation and final disposal of hazardous waste. This presentation provided information on hazardous waste management, registration and licensing requirements. Segregation and record keeping are important parts of the hazardous waste management process. The presentation included:

- Sources of hazardous waste: (1) Household (i.e. residential); and (2) Industrial, Commercial, and Institutional (ICI) sector;
- Temporary storage requirements - proper containers, segregation, signage, labelling, record of type and quantity, maintenance checks and planning for ultimate disposal;
- Categories of household hazardous waste: (1) flammable liquids; (2) batteries; (3) paint; (4) compressed gas cylinders; (5) household chemicals; and (6) others;
- Temporary storage of household hazardous waste does not require registration and approval from ENR;
- Temporary hazardous waste storage facilities that accept ICI hazardous waste must be registered with ENR when these wastes are stored for 180 days or more; or the total aggregated quantity exceeds 5,000 kg or L (except contaminated soil 50,000 kg or L);
- Hazardous waste from the region generally ends up in Whitehorse, Yellowknife, or Hay River. Most hazardous waste would then be further segregated and shipped to recycling or disposal facilities across Canada and the United States; and
- Personal Protective Equipment (PPE) must be used while managing and/or handling of hazardous waste.

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**Gerald Enns, Senior Technical Officer, MACA:** The presentation focused on the human health and environmental risks including the financial costs associated with hazardous waste. The presentation focused on various types of hazardous waste which included asbestos, batteries (lead-acid), drums of used oil, waste fuel, glycol, heating oil tank residue, oil drums, oily debris (containers, rags, sorbents, filters), paint, hydrocarbon contaminated soil/snow/water, white goods (fridges, freezers, air conditioners, refrigerant gas), propane tanks/compressed gas cylinders, end of life vehicles. Hazardous wastes are generated from two sources: (1) household (i.e. residential); and (2) Industrial, Commercial and Institutional (ICI). The proper handling, identification, segregation, labelling, temporary storage, record keeping and planning for ultimate disposal are considered the main steps of the hazardous waste management process.

Highlights of the presentation:

- Financial cost, human health, worker safety and environmental risks are the main factors to be considered while handling and managing of hazardous waste. The extent of the associated risk and cost depends on the type and amount of hazardous waste;
- Current issues of the solid waste disposal sites: inadequate berms & cover; unsegregated stockpiles; uncontrolled access and unauthorized dumping; lack of staff or equipment; problem bears and other wildlife; storage capacity or unavailability of landfill sites; and budget constraints;
- Communicating and educating the public changes the nature of waste management practices; and
- Communities ultimately control and are responsible for the types and volumes of hazardous wastes accepted and stored at their storage facilities, whether they be household or ICI waste.

Gerald underscored a continuing need of financial and technical support for the Hamlets from MACA and ENR for the removal of hazardous waste from the community's temporary hazardous waste storage facilities.

## **b) Environmental Screening of Municipal Water Licence applications**

**Michel Lindsay, Coordinator, EISC** outlined EISC's project screening and summary questionnaire process. The presentation highlighted the three guiding principles of the Inuvialuit Final Agreement (IFA): (1) to preserve Inuvialuit cultural identity and value, (2) to enable Inuvialuit to be equal and meaningful participants in the northern and national economy and society, and (3) to protect and preserve the Arctic wildlife, environment and biological productivity. When conducting a screening, the EISC considers two questions: (1) whether a proposed development could have a significant negative environmental impact (IFA section 11(17) and 12(3)(a)); and (2) whether any development of consequence is likely to cause a negative environmental impact or could have a significant negative impact on present or future wildlife harvesting (IFA section 13(7)). A "development" includes: (1) any commercial or industrial undertaking or venture, including support and transportation facilities related to the extraction of non-renewable resources from the Beaufort Sea, other than commercial wildlife harvesting; or (2) any government project, undertaking or construction whether federal, territorial, provincial, municipal, local or by any Crown agency or corporation, except government projects within the limits of Inuvialuit communities not directly affecting wildlife resources outside those limits and except government wildlife enhancement projects.

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The presentation highlights included:

- Municipalities, including municipal water and waste management facilities, were established before the signing of the IFA;
- The IFA s.11.(36) requires that Hamlets must complete the EISC development screening process prior to IWB issuance and/or renewal of municipal water licences.
- Water and waste facilities have not previously been screened and therefore background information is lacking and must be provided for the initial screening.

### **c) The importance of the Surveillance Network Program**

**Mardy Semmler, Executive Director, IWB** presented the Municipal Water Licence SNP Sampling and Reporting Requirements. The presentation focused on community specific SNP locations, parameters, sampling frequency and reporting requirements as specified in each community's municipal water licence terms and conditions.

Highlights of the presentation included:

- Complying with the SNP helps to ensure the effluent discharge is not harmful to the receiving environment, maintains a safe food chain and serves as an early warning system to prevent harmful pollutants entering the receiving environment;
- The SNP locations, parameters, frequency, and reporting requirements are specified under the municipal water licence terms and conditions; and
- Regular sample information allows the community to monitor and track the sample results allowing the community to be aware of any discrepancies.

Mardy presented an overview of the fillable versions of the IWB Municipal Waste Disposal Facilities O&M Plan templates and distributed electronic copies (USB memory sticks) to all Senior Administrative Officers of the five ISR communities.

### **d) World Water Day and Waste Reduction Week**

**Leigh-Ann Williams-Jones, Regulatory Officer, IWB:** The presentation was divided into two parts: (1) World Water Day; and (2) Waste Reduction Week (WRW). The first focused on the importance of fresh water resources and the IWB initiative of celebrating World Water Day with community members and students. The International World Water Day is celebrated annually on March 22 and aims to highlight the importance of freshwater and the sustainable management of freshwater resources. The availability of fresh water resources greatly diminished due to rapid urbanization and anthropogenic activities that complicates the safe and adequate municipal water supply systems worldwide.

The presentation included:

- The United Nations General Assembly designated March 22 as a World Water Day;
- Each year, a theme is selected based on the water use and its impact on the available fresh water resources. Although the theme changes every year, communities are not limited to that theme;

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- In developed countries household water use varies from 25 to 65 gallon/person/day, which is about 10 times higher than in underdeveloped countries;
  - World Water Day 2019 will be celebrated in Tuktoyaktuk with the theme of “Water Protection and Pollution Prevention”;
  - This initiative will bring awareness to the community members and students on the issues related to water and waste management and how the two are interconnected. It will also encourage community members, youth, students, community organizations and governments to proactively address water quality and waste storage issues within the community:
  - Planning participants include Hamlet of Tuktoyaktuk, Mangilaluk School, Tuktoyaktuk District Education Authority, Tuktoyaktuk Hunters and Trappers Committee, Tuktoyaktuk Community Corporation, ENR, Fisheries and Oceans, Parks Canada, IWB; and
  - The IWB committed to working with another community to celebrate 2020 World Water Day.

The second presentation focussed on “Waste Reduction Week” in Canada which will be celebrated October 21 – 27, 2019. Waste reduction and recycling weeks in Canada started in the mid-1980s. In 2001, the National Waste Reduction Week Program was formalized by Recycling Council of Ontario and supported by environmental groups and governments from each of the thirteen (13) provincial and territorial jurisdictions across Canada. Globally, municipal solid waste management systems are facing challenges due to rapid urbanization, unavailability of landfill sites, and financial pressure to the municipalities.

The presentation highlighted:

- A circular economy is about using products and materials as many times as possible and promotes waste reuse and recycling;
- The main purpose of Waste Reduction Week is to celebrate our environmental efforts and achievements while encouraging new innovative ideas and solutions and at the same time helping to motivate learning and behavioral change;
- 25 billion pounds of clothes are wasted every year in North America equal an amount which is 1,080 times the size of Inuvik’s Igloo Church;
- In the past 70 years, 8.3 billion tons of plastic has been generated worldwide and only 23% of those plastics have been recovered or recycled. Globally, about 12 billion tonnes of additional plastic will end up in landfills by 2050;
- The average annual food wastage per person in Canada amounts to about 403 lbs;
- Converting waste into resources saves our planet; and
- The waste management hierarchy sets priorities for efficient utilization of the resources based on the **5Rs**: Waste **R**eduction, as the preferred option; followed by **R**euse, **R**ecycling, **R**ecovery and as a last option, **R**efuse (i.e. disposal).

Following the presentation, the IWB Chairperson asked if the other communities present would also like to hold a World Water Day in their community. Following discussion on a process to determine what community would be given the next opportunity, it was agreed that this would be determined by water licence expiry date - the next being Aklavik in November 2019. The Hamlet of Aklavik agreed to work with other contributing parties in hosting a World Water Day celebration on March 22, 2020.

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## e) Community Water/Waste Management Experiences

The IWB Chairperson Roger Connelly provided information regarding a possible new IWB initiative - the making of a documentary on ISR municipal Hazardous Waste Management Practices. The proposed documentary would be developed in partnership with each Hamlet and the Inuvialuit Communication Society (ICS). Roger informed the participants that the IWB has identified this initiative as part of the IWB Communication Strategy with the aim of sharing information and expanding awareness on the handling and management of hazardous wastes within ISR communities. The documentary would serve as an awareness and educational tool for stakeholders, youth, regulators and community residents. All Hamlet participants agreed on the value of such an initiative and provided their support with the additional suggestion that the documentary not focus on hazardous waste management alone but also on the overall management of all types of waste within their communities.

## 4. Specific Discussions and Responses

**Question (Communities):** Funding is one of the constraints for hazardous waste removal from community temporary storage facilities. Who can provide funding for removal and ultimate disposal of hazardous waste from a community's temporary storage facility?

**Response (ENR):** ENR provides technical and financial support to the communities for removal and ultimate disposal of hazardous waste from community temporary storage facilities. For further information contact: Lee Ross, Hazardous Waste Management Specialist, ENR, GNWT, P.O. Box 1320, Yellowknife, NT, X1A 2L9, Ph: 867-767-9236 Ext 53187, Email: [Lee\\_ross@gov.nt.ca](mailto:Lee_ross@gov.nt.ca).

**Question (IWB):** Do the communities need to register and get approval from ENR for temporary household hazardous waste storage facilities?

**Response (ENR):** The communities can accept household hazardous waste in their temporary hazardous waste storage facility in accordance with the municipal water licence terms and conditions and there is no need to register or get approval from ENR. Once accepted into the municipal temporary hazardous waste facility, the municipality is responsible for the temporary management and ultimate disposal of the household hazardous wastes.

If communities accept asbestos generated by any source, they will need to be registered as a Storage Facility and approved by ENR. The community will have to bury the asbestos as per ENR Guidelines and GPS the location.

If the community is going to store ICI hazardous waste for more than 180 days and in volumes that require registering, they will require approval from ENR. The detailed information regarding storing and receiving ICI sector hazardous waste can be found in the "ENR Guideline for Hazardous Waste Management - Revised October 2017" available through ENR's website at: [https://www.enr.gov.nt.ca/sites/enr/files/resources/128-hazardous\\_waste-interactive\\_web\\_0.pdf](https://www.enr.gov.nt.ca/sites/enr/files/resources/128-hazardous_waste-interactive_web_0.pdf)

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**Question (IWB):** Where can we get a list of hazardous wastes that need to be registered?

**Response (ENR):** There is no need to register household hazardous waste as it is temporarily stored as per municipal water licence terms and conditions. Information regarding household hazardous waste can be found in the “ENR Household Hazardous Waste Brochure” available at: [https://www.enr.gov.nt.ca/sites/enr/files/brochures/household\\_hazardous\\_wastes.pdf](https://www.enr.gov.nt.ca/sites/enr/files/brochures/household_hazardous_wastes.pdf).

However, storage of ICI sector generated hazardous waste requires registration and approval from ENR. The list and minimum quantities of ICI hazardous waste that require registration can be found in the “ENR Guideline for Hazardous Waste Management - Revised October 2017” available through ENR’s website at: [https://www.enr.gov.nt.ca/sites/enr/files/resources/128-hazardous\\_waste-interactive\\_web\\_0.pdf](https://www.enr.gov.nt.ca/sites/enr/files/resources/128-hazardous_waste-interactive_web_0.pdf)

**Question (IWB):** One source of asbestos is from the demolition of Housing Corporation dilapidated/run down houses. Can the community accept the demolished houses containing asbestos in their temporary hazardous waste facility?

**Response (MACA):** The temporary storage and ultimate disposal of the asbestos is the responsibility of the Housing Corporation. However, municipalities can accept asbestos for disposal by burial at the community solid waste facility provided they are registered (Hamlet knowledge and permission required) but special handling and disposal procedures must be followed.

**Question (IWB):** Where can we get information regarding burning used oil?

**Response (ENR):** Used oil can be used as feedstock for a used oil furnace if the testing and other conditions in the Used Oil and Waste Fuel Management Regulations are met. The information regarding waste oil can be obtained from the “Used Oil and Waste Fuel Management Regulations Plain Language Guide” available through ENR’s website at: [http://www.enr.gov.nt.ca/sites/enr/files/guidelines/used\\_oil\\_guide.pdf](http://www.enr.gov.nt.ca/sites/enr/files/guidelines/used_oil_guide.pdf)

**Question (Communities):** Is there a need to designate an area within the community landfill for burning of paper, cardboard and untreated wood?

**Response (ENR and IWB):** Yes, each municipal water licence has a condition prohibiting the burning of unsegregated waste and designating an area for burning of paper, cardboard and untreated wood. Conditions also specify meeting the requirements of ENR’s “Guideline for the Municipal Solid Wastes Suitable for Open Burning” available through ENR’s website at: [https://www.enr.gov.nt.ca/sites/enr/files/guidelines/solid\\_wastes\\_suitable\\_open\\_burning.pdf](https://www.enr.gov.nt.ca/sites/enr/files/guidelines/solid_wastes_suitable_open_burning.pdf)

**Question (IWB):** Can communities accept non-hazardous waste generated from the ICI sector in their solid waste facilities?

**Response (ENR and MACA):** It is the Hamlet’s responsibility to determine if they want to accept non-hazardous waste generated from the ICI sector. If the Hamlet decides to accept non-hazardous waste from ICI sector, the Hamlets should apply tipping fees.

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**Question (Communities):** How can the communities determine which demolition waste is acceptable or unacceptable?

**Response (MACA and ENR):** There is an assessment process which identifies hazardous waste such as lead paint, asbestos etc. Hamlets should request the authority responsible for the demolition to provide a list of waste categories before they accept the waste into their solid waste facility. Each Hamlet has full control of their solid waste facility.

**Question (Communities):** If biomedical waste is identified at the landfill site who do we contact regarding this matter?

**Response (IWB):** If biomedical waste is found in your landfill contact the community Nursing Station or GNWT Health and Social Services (H&SS) and ENR.

**Question (Communities):** Who is responsible for managing and ultimate disposal of household heating fuel tanks?

**Response (ENR):** The Housing Corporation or homeowner is responsible for final disposal of household heating fuel tanks.

**Question (Facilitator):** Can communities bury scrap metal in their solid waste facility to reduce the cost of transportation?

**Response (MACA):** Burying bulky scrap metal in the solid waste site occupies space and shortens the facility life. It is not recommended to bury bulky scrap metal. Scrap metals should be stored separately for ultimate removal for recycling.

**Question (IWB):** Can Hamlets insist that oil drums are steam cleaned prior to disposal?

**Response (MACA):** Steam cleaning oil drums is not required for shipping out. All oil drums should be emptied, vented to remove flammable vapor and any sludge residue removed.

**Question (Communities and IWB):** What do we do with the sludge from cleaning oil drums?

**Response (MACA):** Sludge from the oil drum cleaning process is considered an oily debris and should be placed in a sealed tight container for final disposal.

**Question (Facilitator):** Most of the paints in Canada are water based or latex paints. Are these paints considered hazardous waste like oil-based paints?

**Response (MACA):** Water based, or latex paints, are not considered hazardous waste like oil-based paint.

**Question (IWB):** Should water-based, or latex paint, containers be emptied before disposal?

**Response (MACA):** The best disposal method is to use paint for its intended purpose. Unwanted water based, or latex paints, should be allowed to dry to a solid state inside the container. It is

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then not practical or necessary to empty the container before bringing it to the solid waste facility site.

**Question (Communities):** Is there funding available from ENR or MACA for removing white goods from landfill sites?

**Response (MACA):** ENR may be able to provide funding through the “Waste Reduction and Recycling Initiative Fund”. This can be used for the removal of white goods from landfill sites. For detailed information visit ENR’s website at: <https://www.enr.gov.nt.ca/en/services/apply-waste-reduction-and-recycling-initiative-funding>.

**Question (IWB):** For storing fridges at the temporary storage facility, is it a good idea to cut into pieces or keep it as single unit?

**Response (MACA):** The best way to store a fridge at the temporary storage facility is to keep the fridge in a stand-up position as a single unit.

**Question (IWB):** Should we close the caps of gas cylinders for storage at the temporary storage facility?

**Response (MACA):** It is good practice to close the caps of the empty gas cylinders, provided that all gases are vented out before storing at the temporary storage facility.

**Question (IWB):** Is there a list of the material that should be removed from end of life vehicles before accepting at the landfill site?

**Response (Communities):** There is no such list available, however all the materials considered hazardous should be removed before accepting at the landfill site.

**Question (Communities):** Is there funding available for upgrading solid waste disposal facility infrastructure?

**Response (MACA):** For the next 10 years, funding is available for upgrading solid waste disposal facility infrastructure through the “Investing in Canada Infrastructure Program”. There are timelines for applications - the first being March 1, 2019. For further information, application deadline and procedures, the main contact is: Kim Herle, Manager - Community Infrastructure and Planning, MACA, Inuvik Region, GNWT, P.O. Box 1740, Inuvik, NT X0E 0T0 Ph: 867-777-7213, Email: [Kim\\_Herle@gov.nt.ca](mailto:Kim_Herle@gov.nt.ca)

**Question (GLWB):** In the case of accepting ICI hazardous waste into the temporary hazardous waste storage facility, should the Hamlet register each type of ICI hazardous waste every time they accept ICI hazardous waste?

**Response (ENR):** If the waste is going to be stored for longer than 180 days, a one-time registration as a Receiver of Hazardous Waste for the temporary storage facility is required. There is no need to register each type of hazardous waste from ICI sector every time. For further information contact: Lee Ross, Hazardous Waste Management Specialist – GNWT ENR, P.O. Box 1320, Yellowknife, NT X1A 2L9 Ph: 867-767-9236 Ext 53187 Email: [Lee\\_ross@gov.nt.ca](mailto:Lee_ross@gov.nt.ca)

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MACA has recommended municipalities do not accept ICI sector hazardous waste into their Solid Waste Disposal Facilities.

**Question (Communities):** Is there a fee for the registration of the temporary hazardous waste facility as a receiver of the hazardous waste generated from ICI sector?

**Response (ENR):** The registration is free.

**Question (IWB):** How long does it take for the EISC preliminary screening of municipal water and waste disposal facilities when they prepare for renewal of a municipal water licence?

**Response (EISC):** Hamlets should submit a Project Summary Questionnaire online to the EISC website at least six (6) months before the expiry of a water licence. Municipalities should submit in advance of this time to accommodate the IWB water licensing process. The IWB recommends submission of renewal applications at least six (6) months prior to expiry date. For further information regarding the EISC process and requirements contact: Michel Lindsay, Coordinator, EISC - Joint Secretariat, Inuvialuit Settlement Region, Inuvialuit Corporate Centre, Suite 204 - 107 Mackenzie Road, P.O. Box 2120, Inuvik, NWT X0E 0T0 Telephone: (867) 777-2828 Fax: (867) 777-2610 Email: [mlindsay@eisc.jointsec.nt.ca](mailto:mlindsay@eisc.jointsec.nt.ca)

**Question (IWB):** Is there a need for the submission of a Project Summary Questionnaire to the EISC during every renewal of the municipal water licence or would a one-time screening meet the EISC requirement?

**Response (EISC):** Hamlets should submit the Project Summary Questionnaire to the EISC as part of every renewal of the municipal water licence. Any changes to water/waste facilities since the last water licence approval should be fully detailed.

**Question (Facilitator):** Who do communities contact to get information regarding “Waste Reduction Week” project?

**Response (IWB):** For further information regarding “Waste Reduction Week” contact: Leigh-Ann Williams-Jones, Regulatory Officer, Inuvialuit Water Board, Telephone: (867) 678-8607, Email: [Williams-jonesla@inuvwb.ca](mailto:Williams-jonesla@inuvwb.ca).

**Question (Communities):** Who will benefit from the ISR solid and Hazardous Waste Management documentary scheduled to be made by the IWB and ICS during the 2019 upcoming summer?

**Response (IWB):** The ISR hazardous waste management documentary will be of benefit to hamlet councils and staff, educators, school children, I stakeholders and community residents in general. The focus of this documentary is to educate all parties through shared experiences, concerns and initiatives.

**Question (Facilitator):** The Hamlet of the Ulukhaktok and Tuktoyaktuk have successfully implemented banning of the single use plastic bags from their communities. Do you think this model is useful to other ISR communities?

**Response (Communities):** The banning of the single use plastic bags became successful with the cooperation of all community members and their understanding of the financial and

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environmental consequences that may result from landfilling the single use plastics. This model could be useful for other Hamlets in the ISR for banning of single use plastic bags.

**Question (Communities):** Is it a good idea to salvage plastics and other recyclable materials (e.g. cans, milk containers, etc.) from landfill sites?

**Response (ENR):** The main concern is the health and safety of the public and the people salvaging. They may encounter bears who are also scavenging. Therefore, salvaging from the landfill is not recommended when problem bears are in the area.

**Question (Communities):** Is the IWB involved with the demolition of old houses?

**Response (IWB):** No, the IWB is not involved in the demolition of houses within communities unless the activities undertaken by the parties involved require a water licence.

**Question (Communities):** Should we collect effluent samples all the way to the ocean?

**Response (IWB and Facilitator):** Effluent from waste facilities should be sampled as per the conditions of the municipal water licence and, dependent upon individual geographical circumstances, may include sampling requirements prior to entering the ocean. Tuktoyaktuk, Paulatuk and Ulukhaktok have such a requirement. Samples should also be collected from same location each time.

**Question (Community):** Where do we get sampling bottles?

**Response (IWB and ENR):** Sample bottles can be obtained from ENR Taiga Laboratory. For sample bottles and sampling procedures, contact ENR Taiga Laboratory:  
Bruce Stuart, Laboratory Manager, Taiga Environmental Laboratory, ENR GNWT, P.O. Box 1320, Yellowknife, NT X1A 2L9 Ph: 867-767-9235 Ext: 53150 Email: [Bruce\\_Stuart@gov.nt.ca](mailto:Bruce_Stuart@gov.nt.ca).

## 5. IWB February 2018 Workshop - Follow-up Action Items

During the February 2015 workshop, community and other participants raised issues and concerns regarding the provision of municipal water and waste management services. Discussions on these and additional topics during and following the 2016, 2017 and 2018 workshops resulted in agreed-upon actions to address the issues raised. Follow-up discussion on the action items during the 2019 workshop update resulted in the identified actions as attached in Annex 2.

## 6. Conclusion

At the conclusion of the workshop, all participants, including the Hamlets, MACA, ENR, EISC, GLWB, and ICS, expressed their satisfaction with the workshop contents, materials and time provided for questions and discussions, and the objectives achieved. All the participants expressed their enthusiasm for continuing to work as a "team" for the safe, efficient and effective management of community water and waste services.

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The IWB thanked all presenters and expressed appreciation for the high level of interaction by all participants throughout the workshop. The IWB Chairperson also acknowledged the broad range of initiatives undertaken by all communities over recent years to improve water and waste services within their community.

Given the high level of participation and support for these annual workshops, the IWB confirmed that it would be pleased to host another Municipal Water and Waste Workshop in February 2020.

A workshop report will be provided to all participants within the next few weeks.

Interactions and discussions throughout the workshop resulted in suggested topics to be presented during the next IWB workshop:

- Landfarming of petroleum hydrocarbon contaminated soil at community solid waste facilities;
- Enforcement of water licence terms and conditions and potential consequences of non-compliance - such as fines etc; and
- Management of waste resulting from demolition of old private and public housing units.

## **7. Closing Prayer**

Ulukhaktok Hamlet Councillor Annie Goose closed the workshop with a prayer.

## Annex 1: Invitation Letter and Workshop Agenda

January 8, 2019

Distribution List  
Workshop Participants

**Re: Municipal Water and Waste Management Workshop  
Inuvik, February 6 – 7, 2019**

The Inuvialuit Water Board (IWB) is pleased to attach the final agenda for the Municipal Water and Waste Management Workshop to be held in Inuvik on February 6 and 7, 2019 in the Inuvik Community Corporation boardroom (opposite the Inuvialuit Corporate Centre). Detailed information on each agenda item will be provided either before or at the workshop. The agenda includes all items suggested by communities and participating government departments and will focus on the following topics:

### **1. Hazardous Waste Management and Removal**

The temporary management and ultimate disposal of hazardous waste is an issue of increasing environmental and financial concern in most communities. Representatives from MACA and ENR will provide a detailed outline of the different types of hazardous wastes in our communities, how they should be temporarily stored and ultimately disposed, the costs involved, safety requirements and what approvals are required. An update on community hazardous and large waste removal projects completed during 2017 and 2018 will also be provided.

The IWB will present a new hazardous waste initiative to the communities for their consideration.

The IWB will also make a short presentation on "Waste Reduction Week".

### **2. Environmental Impact Screening Committee (EISC) Guidelines**

There has been ongoing discussion on whether or not municipal water and waste management activities are subject to environmental screening under the Inuvialuit Final Agreement. The EISC will present and clarify the screening requirements for municipal water licence applications.

### **3. Surveillance Network Program.**

Every water licence identifies key locations at the water intake, solid waste and liquid waste facilities where ongoing sampling is required. This testing provides confirmation that these facilities are operating in a manner that ensures water supplied into communities is safe for human consumption and wastes stored in or released from communities are not harmful to the environment. These tests are also an early warning system that provides municipalities with advance notice where there is a sudden or gradual increase in contamination at either their water or waste facilities.

### **4. World Water Day (Tuktoyaktuk, March 22, 2019)**

March 22 was recognized as World Water Day (WWD) by the United Nations in 1993. It recognizes the importance of maintaining the world's freshwater resources and the increasing challenges faced throughout the world in providing adequate freshwater to meet a growing human population. WWD

events are held throughout the world every year. A world Water Day event will be held in Tuktoyaktuk on March 22, 2019.

**5. Follow-up action items from the February 2018 workshop.**

During the 2018 workshop an update on the issues and concerns from prior workshops regarding the provision of municipal water and waste services was provided to community and government participants. Discussion on these topics resulted in agreement on further action items and commitments that would be undertaken by one or more of the participating organizations. Following some additional interaction after the workshop, this list was finalized and provided to all participants. The IWB looks forward to discussing the progress that has been made to address the collective list of action items and how this progress will improve the provision of municipal water and waste services in our communities.

Thank you, in advance, for your participation at this upcoming workshop. The IWB looks forward to our collective discussions and deliberations on these issues of significant importance to the wellbeing of our communities and surrounding environment.

Sincerely,

Roger Connelly  
Chairperson

Attachments

## Distribution List

### Participants – Community Representatives

#### Hamlet of Paulatuk

Mayor Ray Ruben  
SAO John Holland  
Municipal Operations staff

#### Hamlet of Ulukhaktok

Mayor Laverna Klengenberg  
SAO Peter Enitinilo  
Municipal Operations staff

#### Hamlet of Tuktoyaktuk

Mayor Mervin Gruben  
a/SAO Katrina Cockney  
Municipal Operations staff

#### Hamlet of Sachs Harbour

Mayor Floyd Lennie  
SAO Stephen Wylie  
Municipal Operations staff

#### Hamlet of Aklavik

Mayor Andrew Charlie  
SAO Fred Behrens  
Municipal Operations staff

### Participants – GNWT/Others

ENR – Norman Snowshoe, Regional Superintendent – Inuvik Region  
ENR – Lloyd Gruben, Water Resources Officer – Inuvik Region  
ENR – Alicia McRae, Regional Environment Assessment Coordinator – Inuvik Region  
ENR – Jeanne Arsenault, Pollution Control Specialist – Yellowknife  
ENR – Bruce Stuart, Manager – Taiga Environmental Laboratory – Yellowknife  
ENR – Lee Ross, Hazardous Waste Management Specialist - Yellowknife  
MACA – Olivia Lee, Manager of Infrastructure and Project Management - Yellowknife  
MACA – Gerald Enns, Senior Technical Officer – Yellowknife  
MACA – Kim Herle, Community Works Advisor – Inuvik Region  
MACA – Kelly McLeod – Community Works Advisor – Inuvik Region  
MACA – Crystal Lennie, Water and Waste Management Training Coordinator – Inuvik  
H & SS – Shawn Hardy, Environmental Health Officer – Inuvik Region  
GLWB – Leonard DeBastien, Executive Director – GLWB  
GLWB – AlecSandra MacDonald, Regulatory Specialist – GLWB  
NWTAC – Sara Brown – Chief Executive Officer  
EISC – Michel Lindsey, Coordinator  
EISC – David Livingstone, Chair  
Facilitator – Emery Paquin

**Municipal Water and Waste Management Workshop**  
***Inuvik Community Corporation Boardroom - Inuvik, NT***  
**February 6 - 7, 2019**

**Day 1 – February 6, 2019**

8:30 – 9:00 am *Arrival, Registration and Coffee*

9:00 – 9:30 am Welcome and Introductions – Chairperson Roger Connelly /  
Facilitator Emery Paquin

- Opening Prayer
- Round Table Introductions
- Welcoming Remarks
- Objectives of Workshop and Agenda Review

9:30 – 10:30 am MACA – ISR Hazardous Waste Management – Gerald Enns  
Hydrocarbon Contaminated Soil Treatment Facilities Guidelines  
Discussion and Questions

10:30 – 10:45 am *Refreshments*

10:45 – 12:00 pm ENR - Hazardous Waste Management - Licensing Requirements  
– Lee Ross  
Discussion and Questions

11:45 – 1:15 pm *Lunch – on own*

1:15 – 2:00 pm Waste Reduction Week (October 21 – 27, 2019) – LA Williams-Jones  
Hazardous Waste Management – Community Videos - Intro and Support

2:00 – 2:45 pm Community Initiatives – Mayors and/or designates

2:45 – 3:00 pm *Refreshments*

3:00 – 3:45 pm EISC – EISC Guidelines – Michel Lindsey

3:45 – 4:45 pm Surveillance Network Program & Reporting Requirements –  
Mardy Semmler

**Day 2 – February 7, 2019**

8:30 – 9:00 am *Arrival and Coffee*

9:00 – 10:00 am World Water Day – March 22 (annual event) – Leigh-Ann Williams-Jones

10:00 – 10:10 am *Refreshments*

10:10 – 11:00 am 2018 IWB Workshop Issues Table – Action Items Update

11:00 – 12:00 pm *Closing Remarks and Closing Prayer*

## Annex 2: IWB Municipal Water and Waste Management Workshop Issues - Update (2019)

	Issue	Options and/or Standards
1	Facility security – dumping outside designated areas/after hours	<ul style="list-style-type: none"> <li>• Local Council/Staff reluctant to restrict ‘after hours’ access;</li> <li>• Condition of all MWL – Part B, Item 9;</li> <li>• Need for ongoing Public Awareness/Education;</li> <li>• Need to shut down SWDF, especially during bear season;</li> <li>• Bear Aware education – promote “no bear watching” at the landfill.</li> </ul>
2	Windblown debris	<ul style="list-style-type: none"> <li>• Banning of single use bags;</li> <li>• Proper fencing requirements; and</li> <li>• Promote reusable bags for shopping.</li> </ul>
3	Burning of garbage	<ul style="list-style-type: none"> <li>• Conditions allow for burning of cardboard, untreated wood and paper only;</li> <li>• MACA has approved Guidelines for open burning;</li> <li>• Burn within a pit and/or burn box; and</li> <li>• Environmental Protection Act developing updated Air Quality Regulations – in progress.</li> </ul>
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"> <li>• Suggested resolution provided to MACA in 2016;</li> <li>• Discussed at Interdepartmental Technical Committee (ITC);</li> <li>• Ongoing discussions between MACA and INF – need for work with NWTAC;</li> <li>• NWTAC passed Resolution by Motion in 2018; and</li> <li>• Municipalities to draft Tipping By-Laws and Fees.</li> </ul>
5	Ongoing Municipal Operations Training Requirements	<ul style="list-style-type: none"> <li>• MACA develops an annual School of Community Government (SCG) training calendar and distributes to Hamlets;</li> <li>• Hands on training to be incorporated into all training programs;</li> <li>• Wherever possible, training should be provided on a regional basis; and</li> <li>• MACA Training Coordinator provided update.</li> </ul>
6	Time sensitive sample management	<ul style="list-style-type: none"> <li>• E. Coli alert testing in each community;</li> <li>• Sampling training provided through SCG; and</li> <li>• Need for increased communications between TAIGA and Communities.</li> </ul>
7	Clearly identified contacts at Board and GNWT departments	<ul style="list-style-type: none"> <li>• Contact lists updated annually and included in the annual workshop report (appendix).</li> </ul>
8	Age of facilities makes compliance with new standards difficult	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
9	Difficulty in meeting changing licence terms and conditions	<ul style="list-style-type: none"> <li>• IWB has Standard Municipal Water Licence Terms and Conditions;</li> <li>• IWB revised the Standard T &amp; C’s from technical terminology to layman terms;</li> <li>• National Wastewater Systems Effluent Regulations (NWSER) – Update – not much have been completed on these regulations; but</li> <li>• 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).</li> </ul>

10	Competing priorities for community personnel by Government and/or their contractors	<ul style="list-style-type: none"> <li>• Better coordination between Inspectors and Municipal Staff prior to visiting the community;</li> <li>• Groundwater Monitoring Wells (GMW) installed in each ISR community between 2016 and 2018 through a MACA contract;</li> <li>• GMW to monitor environmental liabilities associated with solid waste sites; and</li> <li>• 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.</li> </ul>
11	Regional coordination of waste removal from communities	<ul style="list-style-type: none"> <li>• All communities actively involved in removing hazardous waste;</li> </ul>
12	Identify new sources of funding when they become available	<ul style="list-style-type: none"> <li>• New funding – Federal initiative – MACA is NWT Contact;</li> <li>• “Investing in Canada Infrastructure Program” funding available for three categories: Solid Waste Sites, Road Upgrade and Energy Efficiencies; and</li> <li>• March 1 deadline – Kim Herle – MACA Inuvik main contact;</li> <li>• Next round of applications will be March 1, 2020; and</li> <li>• ENR – Waste Reduction Initiative Funding.</li> </ul>
13	EISC	<ul style="list-style-type: none"> <li>• Hamlets will have to complete EISC process prior to IWB issuing water licence renewal.</li> </ul>

## Annex 3: Workshop Participants

Municipalities	Community	Phone	Email
Billy Storr, Councillor	Aklavik	867-678-0611	
Fred Behrens, SAO	Aklavik	867-978-2351	saoaklavik@permafrost.com
Dean Arey, Hamlet Staff	Aklavik	587-978-2351	
Ray Ruben, Mayor	Paulatuk	867-580-3531	hopaulatuk@gmail.com
John Holland, SAO	Paulatuk	867-580-3531	sao@paulatuk.ca
Bobby Ruben, Hamlet Staff	Paulatuk	867-580-3034	Bc12jcar02@hotmail.com
Floyd Lennie, Mayor	Sachs Harbour	867-690-3008	
Kyle Wolki, Councillor	Sachs Harbour	867-608-0207	Kwolki.18@gmail.com
Norman Anikina, Councillor	Sachs Harbour	867-690-4351	
Annie Goose, Councillor	Ulukhatok	867-396-3073	agoose@inuvaluit.com
William Joss (Bummer), Hamlet Staff	Ulukhaktok	867-787-1535	Assetmanagement.ul@northwestel.net
Shawn Stuckey, SAO	Tuktoyaktuk	867-977-2286	sao@tuktoyaktuk.ca
Davy Krengnektak, Hamlet Staff	Tuktoyaktuk	867-678-0396	tukforeman@northwestel.net
Government of the NWT	Department		
Lloyd Gruben, Water Resources Officer – Inuvik Region	ENR	867-678-6676	lloyd_gruben@gov.nt.ca
Alicia McRae, Regional Environmental Assessment Coordinator	ENR	867-678-6653	alicia_mcr@gov.nt.ca
Lila Voudrach, Manager – Wildlife and Environment	ENR	867-678-6680	Lila_voudrach@gov.nt.ca
Jeanne Arseneault, Pollution Control Specialist – Yellowknife	ENR	867-767-9234 Ext 53116	Jeanne_arseneault@gov.nt.ca
Lee Ross, Hazardous Waste Management Specialist - Yellowknife	ENR	867-767-9236 Ext 53187	Lee_ross@gov.nt.ca
Gerald Enns, Senior Technical Officer – Yellowknife	MACA	867-767-9169 Ext 21080	gerald_enns@gov.nt.ca
Kim Herle, Manager Community Infrastructure – Inuvik Region	MACA	867-777-7213	Kim_herle@gov.nt.ca
Crystal Lennie, Water and Waste Management Training Coordinator – Inuvik Region	MACA	867-777-7415	Crystal_Lennie@gov.nt.ca
Environmental Impact Screening Committee			
David Livingstone, Chair	EISC	867- 446-2932	Livinstone21@hotmail.com
Michel Lindsey, Coordinator	EISC	867-678-0033	eisc@jointsec.nt.ca
Gwich'in Land and Water Board			
AlecSandra MacDonald, Regulatory Specialist	GLWB	867-777-2304	amacdonald@glwb.com
Inuvialuit Communication Society			
Dez Loreen, Manager	ICS	867-620-0120	ics@northwestel.net
David Stewart	ICS	604-355-8005	icsdavio@northwestel.net
Inuvialuit Water Board			
Roger Connelly, Chairperson	IWB	867-620-0751	rconnelly@northwestel.net
Mardy Semmler, Executive Director	IWB	867-678-8609	semmlerm@inuvwb.ca
Bijaya Adhikari, Science and Regulatory Coordinator	IWB	867-678-8610	adhikarib@inuvwb.ca
Leigh-Ann Williams-Jones, Regulatory Officer	IWB	867-678-8607	Williams-jonesla@inuvwb.ca
Facilitator			
Emery Paquin	Facilitator	867-873-4314	emerypaquin@outlook.com

## Annex 4: Municipal Water and Waste Management Roles and Responsibilities Contact List – Municipal and GNWT Departments

Municipal	
<p><b>Hamlet of Paulatuk</b> Mayor Ray Ruben P.O. Box 98 Paulatuk, NT X0E 1N0 SAO: John Holland Ph: 867-580-3531 Email: sao@paulatuk.ca</p>	<p><b>Hamlet of Aklavik</b> Mayor Andrew Charlie P.O. Box 88 Aklavik, NT X0E 0A0 SAO: Fred Behrens Ph: 867-978-2351 Email: saoaklavik@permafrost.com</p>
<p><b>Hamlet of Ulukhaktok</b> Mayor Laverna Klengenber P.O. Box 157 Ulukhaktok, NT X0E 0S0 SAO: Peter Enitilo Ph: 867-396-8000 Email: sao_ulu@northwestel.net</p>	<p><b>Hamlet of Tuktoyaktuk</b> Mayor Mervin Gruben P.O. Box 120 Tuktoyaktuk, NT X0E 1C0 SAO: Shawn Stuckey Ph: 867-977-2286 Email: sao@tuktoyaktuk.ca</p>
<p><b>Hamlet of Sachs Harbour</b> Mayor Floyd Lennie P.O. Box 90 Sachs Harbour, NT X0E 0Z0 SAO: Stephen Wylie Ph: 867-690-4351 Email: hamlet_ceo@northwestel.net</p>	
GNWT - Department of Health and Social Services	
<p><b>Shawn Hardy</b> Environmental Health Officer Department of Health and Social Services P.O. Box 1980 Inuvik, NT X0E 0T0 Ph: 867-777-4840 Email: Shawn_Hardy@gov.nt.ca</p>	
GNWT - Environment and Natural Resources	
<p><b>Lila Voudrach</b> Manager Wildlife and Environment Inuvik Regional Office Environment and Natural Resources Government of the NWT P.O. Box 2749 Inuvik, NT X0E 0T0 Ph: 867-678-6680 Email: Lila_voudrach@gov.nt.ca</p>	<p><b>Alicia McRae</b> Regional Environmental Assessment Coordinator Inuvik Regional Office Environment and Natural Resources Government of the NWT P.O. Box 2749 Inuvik, NT X0E 0T0 Ph: 867-678-6653 Email: alicia_mcrae@gov.nt.ca</p>
<p><b>Lloyd Gruben</b> Water Resources Officer Inuvik Regional Office Environment and Natural Resources Government of the NWT P.O. Box 2749 Inuvik, NT X0E 0T0 Ph: 867-678-6676 Email: Lloyd_Gruben@gov.nt.ca</p>	<p><b>Bruce Stuart</b> Laboratory Manager Taiga Environmental Laboratory Environment and Natural Resources Government of the NWT P.O. Box 1320 Yellowknife, NT X1A 2L9 Ph: 867-767-9235 Ext: 53150 Email: <a href="mailto:Bruce_Stuart@gov.nt.ca">Bruce_Stuart@gov.nt.ca</a></p>

<p><b>Jeanne Arsenault</b>  Pollution Control Specialist  Water Resources Division  Environment and Natural Resources  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9234 Ext: 53116  Email: Jeanne_Arsenault@gov.nt.ca</p>	<p><b>Lee Ross</b>  Hazardous Waste Management Specialist  Environment and Natural Resources  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9236 Ext 53187  Email: Lee_ross@gov.nt.ca</p>
<b>GNWT - Municipal and Community Affairs</b>	
<p><b>Olivia Lee</b>  Manager of Infrastructure and Project Management  Municipal and Community Affairs  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9164 Ext: 21074  Email: Olivia_Lee@gov.nt.ca</p>	<p><b>Kim Herle</b>  Manager – Community Infrastructure and Planning  Municipal and Community Affairs – Inuvik Region  Government of the NWT  P.O. Box 1740  Inuvik, NT X0E 0T0  Ph: 867-777-7213  Email: Kim_Herle@gov.nt.ca</p>
<p><b>Gerald Enns</b>  Senior Technical Officer – Water &amp; Sanitation  Municipal and Community Affairs  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9164 Ext: 21080  Email: Gerald_Enns@gov.nt.ca</p>	<p><b>Justin Hazenberg</b>  Engineering Team Lead – Water and Sanitation  Municipal and Community Affairs  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9164 Ext: 21078  Email: Justin_Hazenberg@gov.nt.ca</p>
<p><b>Jaime Goddard</b>  Senior Technical Officer – Water and Sanitation  Municipal and Community Affairs  Government of the NWT  P.O. Box 1320  Yellowknife, NT X1A 2L9  Ph: 867-767-9164 Ext: 21079  Email: Jaime_Goddard@gov.nt.ca</p>	<p><b>Crystal Lennie</b>  Water and Waste Management Training Coordinator  Municipal and Community Affairs – Inuvik Region  Government of the NWT  P.O. Box 1740  Inuvik, NT X0E 0T0  Ph: 867-777-7415  Email: Crystal_Lennie@gov.nt.ca</p>

## Annex 5: February 2019 Workshop - Evaluation Summary

An evaluation form was distributed to participants during the workshop.

The evaluation form was completed by the 46% of the total participants. In overall, respondents expressed their satisfaction with the materials, time provided for questions and discussions, and objective achieved. The workshop was rated excellent and very good by 46% and 45% respondents respectively and rest 9% rated as good. Comments and suggestions provided by the respondents can be summarized as:

- Overall, all the topics were interesting and useful;
- Suggested to include presentation regarding enforcement of water licence terms and conditions and potential consequences of non-compliance issues such as fines etc.; and
- Participation of housing corporation is suggested.

**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?	100%	0%	Good material to take home and presenters did well (25%)
2	Within the time available, was the meeting run effectively?	92%	0%	Two full days may be good (8%)
3	Could the agenda have been improved? If so, how?	16%	84%	Need more time for community concerns (8%)
				It was good (84%)
				Suggestions to include presentations regarding enforcement of water licence terms and conditions and potential consequences of non-compliance issues such as fines etc. (8%)
4	Were the presentations/discussions relative and useful to your responsibilities?	76%	0%	Yes, useful about reporting requirements and discussions (8%)
				Yes, for the technical staff (8%)
				Presentation regarding hazardous waste management was very good (8%)
5	Was there adequate time provided for participants' questions and responses?	100%	0%	
6	Were questions from the floor answered satisfactorily?	100%	0%	
7	What topics or aspects of the workshop did you find most interesting or useful?	-	-	All topics (51%)
				EISC presentation (25%)
				Sampling from Solid Waste and Lagoon (8%)
				SNP sampling and EISC presentations (8%)
				Waste Reduction/Hazardous Waste/ EISC process presentations (8%)
8	Were the objectives of the workshop achieved?	92%	0%	Preferred simple and clear presentation instead of detailed (8%)

9	Were you clear on future actions and commitments from the workshop?	84%	-	Somewhat (8%)
				Enforcement and legal aspects required to be included (8%)
10	Any suggestions on how the workshop might have been improved?	-	-	No suggestions and it was good (76%)
				Suggested to invite Housing Corporation next year (8%)
				Suggested to provide on site lunch (8%)
				Keep it simple (8%)
11	Were the physical arrangements of the workshop adequate (meeting facility, sound system, transportation, accommodation, support, etc.)?	84%	0%	The space was little tight to accommodate all the participants (16%)
12	Would you attend another Inuvialuit Water Board workshop on community water and waste management?	100%	0%	
<b>Overall rating</b>				
13	On a scale of 1 to 10, how would you rate this workshop (1 being poor and 10 being excellent)	<b>% of total respondents</b>		
	1-2 (Poor)	0%		
	3-6 (Good)	9%		
	7-8 (Very Good)	45%		
	9-10 (Excellent)	46%		

## Annex 6: Evaluation Form

**EVALUATION FORM  
MUNICIPAL WATER AND WASTE MANAGEMENT WORKSHOP  
FEBRUARY 6 AND 7, 2019  
INUUVIK, NWT**

Please take a few minutes to fill out and return this form **by February 15, 2019**.

1. Were the materials provided adequate to prepare you for the discussions?
2. Within the time available, was the meeting run effectively?
3. Could the agenda have been improved? If so, how?
4. Were the presentations/discussions relative and useful to your responsibilities?
5. Was there adequate time provided for participants' questions and responses?
6. Were questions from the floor answered satisfactorily?
7. What topics or aspects of the workshop did you find most interesting or useful?
8. Were the objectives of the workshop achieved?
9. Were you clear on future actions and commitments from the workshop?
10. Any suggestions on how the workshop might have been improved?
11. Were the physical arrangements of the workshop adequate (meeting facility, sound system, transportation, accommodation, support, etc.)?
12. Would you attend another Inuvialuit Water Board workshop on community water and waste management?
13. On a scale of 1 to 10, how would you rate this workshop (1 being poor and 10 being excellent)?

Thank you.

Completed evaluation forms may be returned to:

Mardy Semmler  
Executive Director, Inuvialuit Water Board  
Email: semmlerm@inuvwb.ca  
Fax: (867) 678-2943