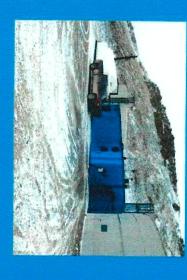
NUNAVUT WATER BOARD

Date: October 27, 2020

Exhibit No.: 1

PRESENTATION FOR THE TYPE A WATER LICENCE APPLICATION OF THE RESOLUTE BAY UTILIDOR SYSTEM

NWB PUBLIC HEARING



OCTOBER 27 & 28, 2020

PRESENTED BY:



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MUNICIPALITY OF RESOLUTE BAY

accommodate 1,500 people. 94°58′10". The relocated community, the Municipality of Resolute Bay, was designed to In the early 1970s, the settlement was moved to the present location at N 74 $^{\circ}$ 43 $^{\prime}$ 01 $^{\prime\prime}$ and W

training, the population of the Town increases to approximately 800. The current (2020) Town population is 290. During the summer, due to Military presence for

The town is divided into two distinct sections:

- The Town where water is supplied by the Utilidor system; and
- 2. The Airport area (about 7km away) where water is supplied by the Truck.

NWB has issued three (3) Water Licences for different Community Environmental Facilities

- The Water Licence of the Utilidor System #3BM-RUT1012, Type B issued on March 30, 2015 to the Department of Community Government Services of the Government of Nunavut;
- 2 The Water Licence of the Solid Waste facilities #3BM-RES 2025, Type B issued on March 30, 2020 to the Municipality of Resolute Bay; and
- 'n Government of Nunavut. The Water Licence of the Airport Sewage Lagoon #3BM-YRB 1621, Type B was issued on December 16, 2016 to the Department of Economic Development and Transportation of the

OPERATIONAL MODE OF THE UTILIDOR SYTEM

- contracted out to ATCO. of Nunavut is Responsible for the Utilidor system. Day-to-Day operation of the facilities are The Asset Management section of the Pond Inlet Infrastructure Division of the Government
- station records water extraction volume from Char Lake. The new pump station will also have a flow meter. construction and will be completed in 2021. The flow meter located at the existing pump pump station about 60m away from the existing pump station is currently under Char Lake is the potable water source and a pump station is adjacent to the lake. A new
- adjacent to the WTP. The Water Treatment Plant (WTP) is located at the Signal Hill and a 500m³ Storage Tank is
- The Water Truck is filled directly at the WTP for the distribution to the Airport facilities.
- unaltered by demands, other than fire flows. The system is controlled from the WTP. The water distribution system must have a circulation pattern that is independent of and
- Chlorine is only the reagent to disinfect water inside of the WTP prior to distribution.

OPERATIONAL MODE OF THE UTILIDOR SYSTEM

- The linear length of the Utilidor system is about 4 km.
- The Utilidor system consists of buried water and sewer lines
- The diameter of the water line is $150 \mathrm{mm}$ (6") and sewer line is $200 \mathrm{mm}$ (8").
- The water line is a recirculation process and works under about 100 psi pressure system; whereas the sewer line is completely under gravity system adding bleeding water.
- annually. The estimated bleeding water is roughly 227 liters per day or 82,855 liters
- The Utilidor system consists of 36 access vaults and 23 fire hydrants
- There is a water meter at each building to record water consumption.
- The sewer line passes through the Macerator unit where suspended solids are reduced in size prior to discharge to the sea.
- A new wastewater treatment plant (WWTP) is proposed to be built adjacent to the existing Macerator unit. This Macerator unit will be decommissioned soon after the new WWTP is commissioned.
- The future WWTP will receive Truck Sewage and the mixture of the both types of sewages will be treated at the new WWTP.
- The CBOD and TSS of the future WWTP effluent are recommended to be 25mg/L and 25mg/L respectively.



O&M MANUAL FOR THE UTILIDOR SYSTEM



- The Operation &Maintenance manual was located and submitted.
- The manual includes operation and maintenance information for major utilidor water and wastewater equipment components such as access vaults, watermains, sewer mains, and hydrants.

TYPE A WATER LICENCE APPLICATION OF THE MUNICIPALITY OF RESOLUTE BAY UTILITOR SYTEM

STATUS OF THE EXISTING WATER LICENCE:

EXISTING WATER LICENCE # 3BM-RUT 1012

LICENSEE: COMMUNITY GOVERNMENT SERVICES OF THE GOVERNMENT OF NUNAVUT

TYPE: TYPE B

DATE OF ISSUSE: MARCH 30, 2015

DATE OF EXPIRE: MARCH 29, 2020

DURATION: 5 YRS

WATER PERMIT VOLUME: 126,020 CUBIC METERS

STATUS OF THE PROPOSED WATER LICENCE

PROPOSED WATER LICENCE # 3AM-RUT----

LICENSEE: COMMUNITY GOVERNMENT SERVICES OF THE GOVERNMENT OF NUNAVUT

PROPOSED TYPE: TYPE A

PROPOSED DURATION: 20 YEARS

PROPOSED WATER PERMIT VOLUME: SEE CONSUMPTION TABLE FOR 2020-2047

COMPONENTS OF THE UTILIDOR SYTEM

- . 4KM OF BURIED WATER AND SEWER LINES
- 23 FIRE HYDRANTS
- 3. 36 ACCESS VAULTS
- 4. A PUMP STATION AT CHAR LAKE
- A 500 m³ WATER STORAGE TANK AT SIGNAL HILL
- 6. A WATER TREATMENT PLANT AT SIGNAL HILL
- MACERATOR UNIT (WITH NO FLOW METER)
- A 150 MM (6") DIAMETER WATER INTKE LINE FROM CHAR LAKE TO THE PUMP STATION
- A 150 MM (6") DIAMETER WATER INTAKE LINE FROM PUMP STATION TO SIGNAL HILL WTP
- A 200 MM (8") DIAMETER OUTFALL LINE FROM MACERATOR UNIT TO SEA
- THE ORIGINAL UTILIDOR SYSTEM WAS BUILT IN 1978 AND UPGRADED IN 2014

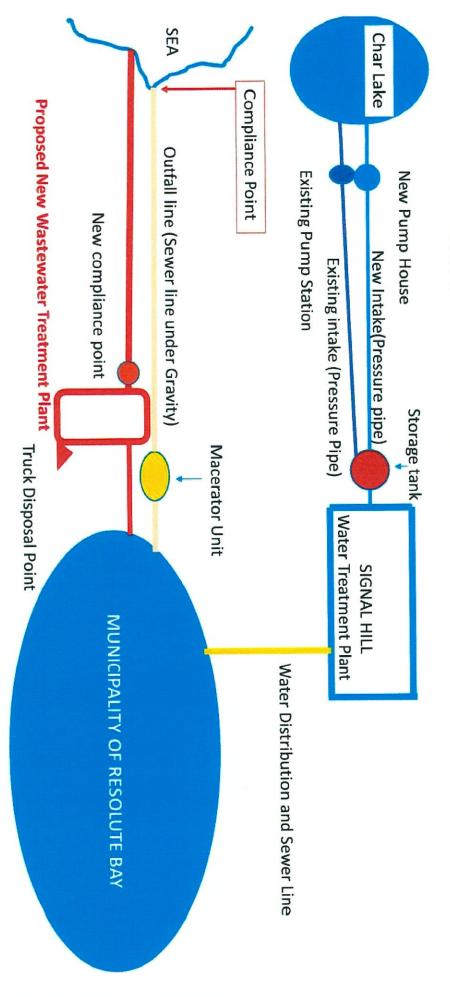


COMPONENTS OF THE FUTURE UTILIDOR SYSTEM

STATUS

- THE MAIN BURIED WATER AND SEWER LINES (Main Utilidor System): UPGRADED in 2014
- VAULTS: UPGRADED in 2014
- FIRE HYDRANTS: UPGRADED in 2014
- AN INTKE FROM THE CHAR LAKE TO NEW PUMP STATION: UNDER CONSTRUCTION 2020/2021
- 5. FISH SCREEN WILL BE PROVIDED AT THE END OF THE INTAKE: 2020-2021
- 5. A NEW PUMP STATION AT SIGNAL HILL: UNDER CONSTRUCTION: 2020/2021
- A STANDARD FLOW METER WILL BE INSTALLED AT THE NEW PUMP STATION :2020-2021
- INTAKE FROM NEW PUMP STATION TO SIGNAL HILL WATER TREATMENT PLANT: CONSTRUCTED
- A STORAGE TANK AT SIGNAL HILL: CONSTRUCTED
- Rehabilitation of the Existing Water Treatment Plant: Under construction in 2020-2021
- A NEW WASTEWATER TREATMENT PLANT. FUTURE CONSTRUCTION (Anticipated 2024)
- A NEW OUTFALL FROM WAYTP TO THE SEA: FUTURE CONSTRUCTION (Anticipated 2024)
- A COLLECTION POINT AT WAVTP TO RECEIVE TRUCK SEWAGE: FUTURE CONSTRUCTION (Anticipated 2024)
- THE OLD PUMP STATION, MACERATOR UNIT, OUTFALL LINE AND OLD WAVTP BUILDING: FUTURE DECOMMISSIONING (Anticipated 2024)

THE UTILIDOR SYSTEM OF THE MUNICIPALITY OF RESOLUTE BAY



HISTORICAL WATER EXTRACTION VOLUME

Year	Trucking to Utilidor System (liters) Airport Facilities (liters)	Trucking to Airport Facilities (liters)	Total Extraction (liters)
2019	191,355,032	5,454,865	197,809,897
2018	152,062,035	5,139,821	157,201,856
2017	127,669,936	5,351, 523	123,121, 459
2016	326,439,020	5,351,523	331,790, 543
2015	424,262,506	4,210,285	428,472,791
2014	110,202,314	4,749,032	114,951,346

Daily extraction exceeds 300 cubic meters per day. Therefore, the type of the new Water Permit Volume in Water Licence annually = 126,020 cubic metres = 126,020,000 liters. Licence is recommended as TYPE A.

FLOW RATE INFORMATION FOR CHAR LAKE & SIGNAL HILL

- The design flow rate from the water source to the new pump station at Char Lake is 720 L/m.
- There are 3 submersible pumps, each with its own intake pipe and a capacity of 360 L/m.
- Each intake has a fish screen with a 0.090" (~2.3mm) wire width.
- The Char Lake pump station flow meter will have a range of 0 to 900 L/m.
- The design flow rate from the Char Lake pump station to the Signal Hill WTP is 720 L/m.
- The gravity sewage flow rate from the Macerator unit to the sea is estimated at 280 L/m.

TURBIDITY AND DISINFECTION

- We are aware of the new turbidity rules approved by the CPHO on May 13, 2020
- With filtration, normal operations will occur as long as the treated water turbidity remains less than or equal to 1
- should be no issues with meeting turbidity limits as long as filters are functioning properly particles and Giardia) and 2nd stage 1 micron cartridge filters (which will remove smaller particles and Crypto), there With dual filtration at the WTP plant, which includes 1st stage multimedia filters (which will remove larger turbidity
- 3-Log (99.9%) inactivation of pathogens in achieved with a 2-log credit with filtration and an addition 1-log credit for Calcium Hypochlorite disinfection.

QUANTITY OF WATER REQUESTED

Annual water extraction from Char Lake has been calculated from 2020 to 2047.

236,137	216,528	188,192	160,502	m ₃	Annual Consumption
236,136,750	216,527,835	188,192,040	160,502,363	Liters	Annual Consumption
7.5	6.9	6.0	5.1	L/s	Community Wide Demand
647	593	516	440	m³/day	Community Wide Demand
646,950	593,227	515,595	439,733	L/day	Community Wide Demand
40%	39%	38%	35%	%	Bleedwater as % of total water extracted
259,200	232,320	193,920	155,520	L/day	Bleedwater
4.5	4.2	3.7	3.3	L/s	Total Consumption (based on max day factor 2.75)
387,750	360,907	321,675	284,213	L/day	Total Consumption (based on max day factor 2.75)
141,000	131,239	116,973	103,350	L/day	Total Consumption
52,000	48,396	43,248	38,100	L/day	Airport Consumption (based on approx 140L/c/d)
89,000	82,843	73,724	65,250	L/day	Community Consumption
243.9	239	232	225	L/capita/day	Community Per Capita Consumption
365	346	318	290	Persons	Population
2047	2040	2030	2020	Year	

QUANTITY OF WATER REQUESTED

- Total extracted water accounts for use within the community, the airport, and bleedwater.
- Annual consumption for 2020 is calculated at 160,502 m³ up to 236,137 m³ in 2047 with population increases, per capita consumptions increases and increased bleedwater usage.
- community Char Lake's replenishment capacity is sufficient up to about 2040 to supply water for the
- It is recommended that additional technologies be investigated (such as mechanical lifting freezing since Char Lake cannot sustain supply in this fashion past 2040. systems, heat tracing, etc.) to replace the bleedwater system to prevent water from

VERIFICATION OF CONSUMPTION

- CGS is requesting water measurement confirmation from Char Lake.
- a Lake, a flow totalizing flowmeter is the desired technology. For the purposes of measuring water quantity being withdrawn on a consistent basis from
- A turbine flow meter is a widely used technology for totalizing the amount of water that flows through the pipe.
- house does not seem to provide options for the installation of a flow totalizer. The service conditions and the congestion that exists in the existing Char Lake pump
- Ideally, there would be a straight run of pipe at least 1m long that would permit the installation of a flow totalizer (flanges and unions).
- The flow totalizer itself is 0.58m in length
- This is not available in the Char Lake building.
- From Char Lake, a dedicated 150mm (6") line is utilized to connect to Signal Hill WTP
- withdrawal water that is from Char Lake. enters the Signal Hill WTP. There will be no other flow measured on the line, only the It is proposed that the flow totalizer be installed on the inlet from Char Lake just as the pipe
- prior to the NWB hearing on October 27, 2020 to verify consumption. subsequent installation in October 2020. The goal is to collect at least a week of flow data EXP has prepared flow meter specifications and are currently arranging delivery and

PLANS FOR THE CHAR LAKE PUMPHOUSE

- Both an Environmental Management Plan (EMP) and Decommissioning & Remediation Plan have been submitted.
- The EMP assists with implementing measures to protect the environment and minimize environmental impacts during construction at both the Char Lake Pumphouse and Signal Hill WTP sites.
- The EMP outlines requirements and procedures to minimize surface water and fish habitat impacts by controlling erosion and drainage with sedimentation control.
- Pollution controls and procedures are also implemented to reduce dust and particulate matter.
- decommissioning It also spells out procedures for management of hazardous materials during
- Spill response procedures are also outlined for spills on land, snow and
- And finally, it describes in detail the reporting requirements of any spill that may occur.

PLANS FOR THE CHAR LAKE PUMPHOUSE

- Additional details are provided in the decommissioning and remediation plan and the spill contingency plan discussed later.
- The decommissioning plan assists with implementing specific work procedures and measures to protect human health and minimize environmental impacts during decommissioning of the Char Lake Pumphouse
- Due to the proximity of the pumphouse to Char Lake, control measures must be implemented to prevent movement of contaminants into the water caused by disturbing the soils and structure dismantling
- washing using a vacuum truck, and the metal must be disposed at the community metal land field. The above-ground fuel tank must be safely removed, cleaned and
- Hazardous materials such as lead-based paints, mercury-containing florescent light tubes and PCB-containing light fixture ballasts must be securely removed and disposed to recycling facilities.

CHAR LAKE PUMPHOUSE DESIGN & CONSTRUCTION

- of the new facility involves the following activities: The scope for the new pump house and remediation of the site
- site works including access and a power line;
- provision of a new building including electrical and mechanical systems;
- provision of new intakes into Char Lake; a new transmission watermain interconnecting the pump house with the water treatment plant; and
- remediation of petroleum contamination of the existing site and management of the contaminated soil.
- The design flow rate from the water source to the new pump station at Char Lake is 720 L/m.
- facility and meets the required criteria The site selected is approximately 60 m east of the existing

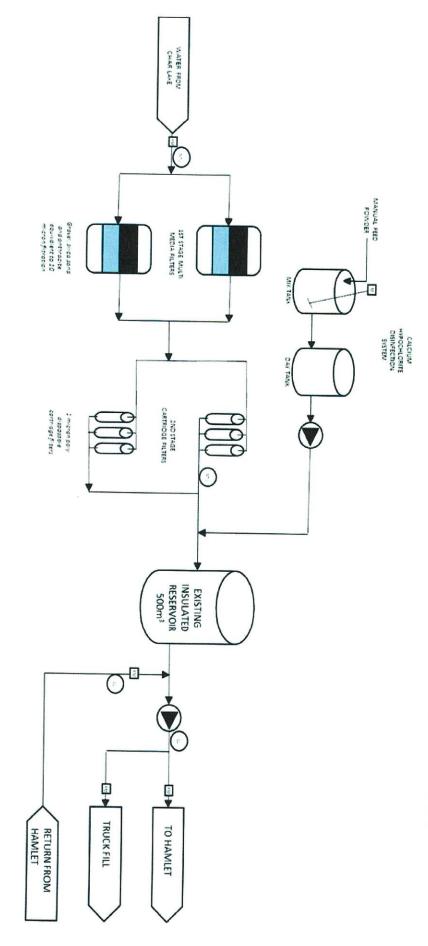
CHAR LAKE PUMPHOUSE DESIGN & CONSTRUCTION





• A significant amount of work has been completed during the 2020 construction season at the Char Lake site that includes installation of silt fencing around the work site, excavation for the new pump house, concrete pours for foundations and pads, a new pumphouse building was constructed, boiler, glycol pipes and pumps were installed, bedding materials imported, and gravel bedding material was placed in Char Lake (with a turbidity curtain in place to prevent particulate matter from entering the raw water supply) for the new intakes to be placed during the 2021 construction season.

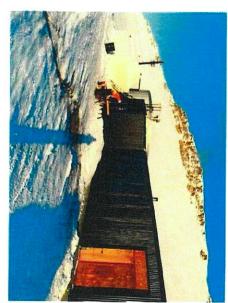
- The recommended water treatment process includes multiple filtration steps and disinfection with Calcium Hypochlorite.
- The filtration will provide for the suitable protection for microorganism removal and any small amounts of TSS that may get picked up by the Char Lake pumps
- The chlorine addition will protect against viruses and microorganisms from the water source and provide protection for any cross contamination that may occur in the distribution system.
- The first stage filters are to be a duplex backwashable media filter
- A media filter typically removes particles down to a 7 to 10 micron size which is suitable for larger turbidity particles and Giardia Cysts.
- The secondary proposed filters will be disposable polymer-based filters that will filter down to nominal 1 micron size which is suitable from further removal of smaller particles and Cryptosporidium.
- The disinfection method to be employed will be Calcium Hypochlorite.
- period in a mix tank This will be delivered to site in a dry format and prepared for a 24-hour



- requirements for water treatment as outlined by the Canadian **Drinking Water Guidelines** The upgrade to the WTP on Signal Hill examines the
- inclusion of filtration equipment. This includes the upgrade of disinfection equipment and the
- operating life were considered. Capital costs as well as operational needs for a 30-year
- area, laboratory area and maintenance area. equipment, new circulation pumps, washroom facilities, storage but will incorporate filtration equipment, new disinfection The upgraded water treatment plant will be in the same building

- The unused reservoir tank will be removed, and the building will be expanded in an easterly direction.
- A significant amount of work has been completed during the 2020 construction season at the Signal Hill site that includes site grading, concrete demolition work, building addition work including concrete, walls, roof and cladding, and obsolete equipment and materials were removed.





QUALITY ASSURANCE / QUALITY CONTROL

- The QA/QC program is used to maintain standards in the monitoring programs for the wastewater treatment and disposal, water supply and treatment, and solid waste disposal described in the respective O&M manuals.
- The program describes QA and QC processes and procedures applied during field activities to accurately reflect the attributes of the water, wastewater, and leachate being tested.
- Field QC addresses cross contamination as a common source of error in sampling procedures, sample handling, and storage and shipping.
- Field QC samples may include field blanks labelled as such to trace sources of artificially introduced contamination, or blind duplicates not labelled as such to ensure analytical precision.
- Laboratory QC is applied by laboratories after the samples have been received from the field to enable the laboratory produce accurate and reproducable results on an ongoing basis.
- The samples are collected in laboratory-supplied bottles and jars and analyzed at a laboratory certified by the Canadian Association for Laboratory Accreditation (CALA)
- All analytical reports are to include QA/QC reports. This Hamlet has been using the services of the accredited lab in Ottawa named Caduceon Environmental Laboratories.



SPILL CONTINGENCY PLAN

- The SCP is used to address the proper responses to the anticipated types of spills that may occur during the routine operation and maintenance activities of the Hamlet's facilities associated with wastewater treatment and disposal, water supply and treatment, and solid waste disposal.
- The SCP presents potential contaminants and spill scenarios, existing preventative measures, and response organization.
- The SCP action plan includes potential impacts from and procedures for containing chemical spills such as sodium hypochlorite used to treat the water, and petroleum spills such as diesel fuel used to power equipment.
- The SCP provides contact information in case of spill, spill kit locations and spill reporting procedures.
- The SCP also includes the standard spill kit requirements.

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- wastewater treatment have been raised by stakeholders. A number of technical issues and concerns regarding the current and future
- technical memo that reviews the 2012 and 2020 WWTP designs building, a technical memo addressing ammonia for the new WWTP and a recommended fecal coliform limits, a O&M plan for the existing macerator As such, EXP have prepared and submitted a technical memo addressing
- of data collected from 2016 to 2020, which included 18 results. The calculated Fecal Coliform values were determined based on linear regression
- value was determined to be 157,929 cfu/100mL. For flows greater than 600 Lcd and TSS of 80 mg/L, the calculated Fecal Coliform
- Coliform value was determined to be 183,167 cfu/100mL. For flows between 150 Lcd and 600 Lcd and TSS of 80 mg/L, the calculated Fecal

- the heater is exposed an exposed heating element, including thermostat, the fan is completely blocked off with insulation. EXP had previously noted that the building macerator unit is open flow, and that
- that this is a hazard (explosion to operators) as there is a ventilation issue There is not much smell at all (flow is diluted), but it was noted to Bhabesh Roy
- As such, health and safety risks from these hazards should be mitigated
- electrical equipment is not explosion proof; and does not have any hazardous mandoor (entry/exit) flush to exterior grade; vent is not operational and closed; The identified issues associated with the building are: not ventilated; has one
- heating, lighting, fan, plugs, and disconnects with explosion proof units include things such as acquisition of a gas detector and replacement of the options until the new WWTP is constructed and commissioned. These may entering the macerator building. It may also be useful to investigate short-term EXP have recommended a number of procedures that should be followed when

- the Hamlet of Resolute Bay) in the future likely to become a parameter of concern throughout Nunavut (and specifically The current trends in wastewater regulations indicate that effluent ammonia is
- ammonia discharge objective Resolute Bay that would require biological nitrification to meet an effluent There are currently no regulations currently in place in Nunavut or the Hamlet of
- However, it is anticipated that there will be future regulatory changes for the far north that could include new guidance on ammonia.
- accordance with EXP's updated pre-design report (2020). Bay will be well served by installing a biological-mechanical treatment system in With the uncertainty of the future regulatory changes, the Hamlet of Resolute
- meet the current WSER performance standards in effect throughout Canada The proposed process technology could be designed for ammonia removal to

- There were a number of key design factors that remained very similar or unchanged between the 2012 and 2020 designs completed by EXP.
- The most significant difference was the process technology with the intent to better balance the treatment performance requirements with the economic challenges.
- This will result in a more cost competitive system that is still capable of providing a high-quality effluent.



ECCC RECOMMENDED WASTEWATER EFFLUENT COMPLIANCY

- Average Carbonaceous Biochemical Oxygen Demand (CBOD) should be less than or equal to 25mg/L.
- than or equal to 25mg/L. Average concentration of suspended solids should be less
- Average Concentration of the Total residual chlorine should be less than or equal to 0.02mg/L.
- than 1.25mg/L expressed as Nitrogen (N), at 15°C +/- 1°C Maximum concentration of un-ionized ammonia should be less
- Be non-accurately lethal effluent.

PARTICIPANTS FOR THE PUBLIC HEARING

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