



Northwest Territories Water Board  
Box 1500  
2<sup>nd</sup> Floor Goga Cho Building  
Yellowknife, NT X1A 2R3

COPY	
BOARD.	1
G.W.	1
E.A.	1
W. RES.	0216
FF--	1531

Dear Sir or Madam:

**RE: 3421 SACHS HARBOR WATER TREATMENT PLANT UPGRADES  
APPLICATION TO AMMEND WATER LICENSE # N7L3-1531**

Further to my letter of 02 February 2004, I would like to formally apply for an amendment to the Hamlet of Sachs Harbor's current Water License # N7L3-1531. This application is being made on behalf of the Hamlet and that following construction, the license will continue to be in the name of the Hamlet of Sachs Harbor.

In support of this application I am forwarding to you eight (8) copies of the Contract Documents and Drawings for this project. In addition I have prepared and completed the Schedule III form as per the NWT Waters Regulations.

As Project Officer for the GNWT on this project I will be responsible for ensuring that the project's requirements are met. Part of these requirements will be to ensure that the necessary permitting is in place.

In general, the project involves the construction of a new water treatment facility in Sachs Harbor. Water (MOT) Lake will continue to be the raw water source. However, the existing truckfill station will be removed and a new water treatment plant will be constructed.

The proposed treatment technology utilizes cartridge filtration followed by disinfection by chlorine. We believe that this system will meet the proposed new guidelines related to filtration of surface water. The Department of Health and Social Services (HSS) and the Inuvik Regional Health and Social Services Authority have approved the use of cartridge filtration for this project and I have enclosed copies of their letters of authorization.

In addition to applying for this amendment, a Land Use Permit will be applied for from the Inuvialuit Land Administration. In addition, the Department of Fisheries and Oceans will be forwarded a set of the contract documents and drawings in order to obtain their permission for the installation of the fuel storage required to heat the facility.

Previous reports and recommendations in regard to this project were presented to Council in Sachs Harbor in mid December 2003.

I look forward to hearing from you further in regard to this. I can be contacted by telephone at 867 777 7254 or via email at john\_bulmer@gov.nt.ca.

Yours truly,

John Bulmer, P. Eng.  
Senior Project Officer

- c. S. Conway Hamlet of Sachs Harbor
- I. Zinoviev GNWT - MACA - IN
- B. Boon Earth Tech Canada



SCHEDULE III  
(Subsection 6(1))

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE OR RENEWAL OF LICENCE

	<p><b>APPLICATION / LICENCE NO.</b> (amendment or renewal only)</p> <p>N7 - 3 - 1531 (Hamlet of Sachs Harbor)</p>
<p><b>1. NAME AND MAILING ADDRESS OF APPLICANT</b></p> <p>Department of Public Works and Services Government of the Northwest Territories Bag Service # 01 Inuvik NT X0E 0T0</p> <p>Telephone: 867 777 7254 FAX: 867 777 7109</p> <p><b>NOTE: APPLICATION BEING MADE ON BEHALF OF THE HAMLET OF SACHS HARBOR</b></p>	<p><b>2. ADDRESS OF HEAD OFFICE IN CANADA, IF INCORPORATED</b></p> <p>NOT APPLICABLE</p> <p>TELEPHONE: _____ FAX: _____</p>
<p><b>3. LOCATION OF UNDERTAKING</b> (describe and attach a map, indicating watercourses and location of any proposed waste deposits)</p> <p>See attached plans and specifications for detailed location. Work to be conducted adjacent to Water Lake (sometimes referred to as MOT Lake) approximately 2 km northwest of the Sachs Harbor community site.</p> <p>UTM: 421255 mE and 7990060 mN</p> <p>LATITUDE: _____ LONGITUDE: _____</p>	
<p><b>4. DESCRIPTION OF UNDERTAKING</b> (describe and attach plans)</p> <p>See attached plans and specifications for detailed work requirements.</p> <p>This project involves the supply of a new water treatment facility to Sachs Harbor, utilizing a new filtration method. In general, the work will consist of the following main components:</p> <ul style="list-style-type: none"> <li>- demolish existing water treatment facility</li> <li>- extend existing intake further inland</li> <li>- construct new truck turnaround</li> <li>- construct and install new water treatment facility</li> <li>- removal old 45 gallon oil drums from Water Lake</li> </ul>	
<p><b>5. TYPE OF UNDERTAKING</b></p> <p>1. INDUSTRIAL _____ 4. POWER _____ 6. CONSERVATION _____</p> <p>2. MINING AND MILLING _____ 5. AGRICULTURE _____ 7. RECREATION _____</p> <p>3. MUNICIPAL <u>XXXXX</u></p> <p>8. MISCELLANEOUS (describe) _____</p>	

SCHEDULE III - continued

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE OR RENEWAL OF LICENCE

<b>6. WATER USE</b>	
To obtain water	<u>XXXX</u> Flood Control _____
To cross a watercourse	_____ To divert water _____
To modify the bed or bank of a watercourse	_____ To alter the flow of, or store, water _____
Other (describe) _____	
<b>7. QUANTITY OF WATER INVOLVED</b> (litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source)	
5 500 cubic meters of water will be used annually by the community. This quantity does not reflect a change from their current usage.	
<b>8. WASTE DEPOSITED</b> (quantity, quality, treatment and disposal)	
NONE. To prevent freeze ups, some raw water pumped is returned to the lake to ensure that all water lines remain empty.	
<b>9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING</b> (give name, mailing address and location; attach list if necessary)	
Hamlet of Sachs Harbor (user) General Delivery Sachs Harbor, NT X0E 0Z0	
Inuvialuit Land Administration (Land Use Permittor) Box 290 Tuktoyaktuk, NT X0E 1C0	
<b>10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION</b>	
There are no adverse environmental impacts anticipated through the construction of this facility. A 1 000 litre fuel storage tank is included as part of the facility. This tank will comply with all relevant codes and legislation.	
There will be improvements to the current water body as old and rusted 45 gallon barrels will be removed and there will be improvements made to the drainage off the site.	
<b>11. CONTRACTOR AND SUBCONTRACTORS</b> (names, addresses and functions)	
Weitzel's Construction Ltd. Box 2260 71 Industrial Road Inuvik, NT X0E 0T0	

SCHEDULE III - continued


APPLICATION FOR LICENCE, AMENDMENT OF LICENCE OR RENEWAL OF LICENCE

**12. STUDIES UNDERTAKEN TO DATE** (attach list if necessary)

April 2003	Review of Community Water Management and Water System Infrastructure Water and Sanitation Division, Department of Public Works and Services Government of the Northwest Territories
September 2003	Preliminary Engineering Report      Earth Tech Canada
February 2004	Final Design Report                      Earth Tech Canada
February 2004	Pilot Study on using Cartridge Filtration in Sachs Harbor Water and Sanitation Division, Department of Public Works and Services Government of the Northwest Territories

**13. PROPOSED TIME SCHEDULE**

START 15 August 2004 (on site)      COMPLETION DATE 30 September 2004 (off site)

<u>John Bulmer, P. Eng.</u>	<u>Senior Project Officer</u>		<u>26 May 2004</u>
NAME(print)	TITLE(print)	SIGNATURE	DATE

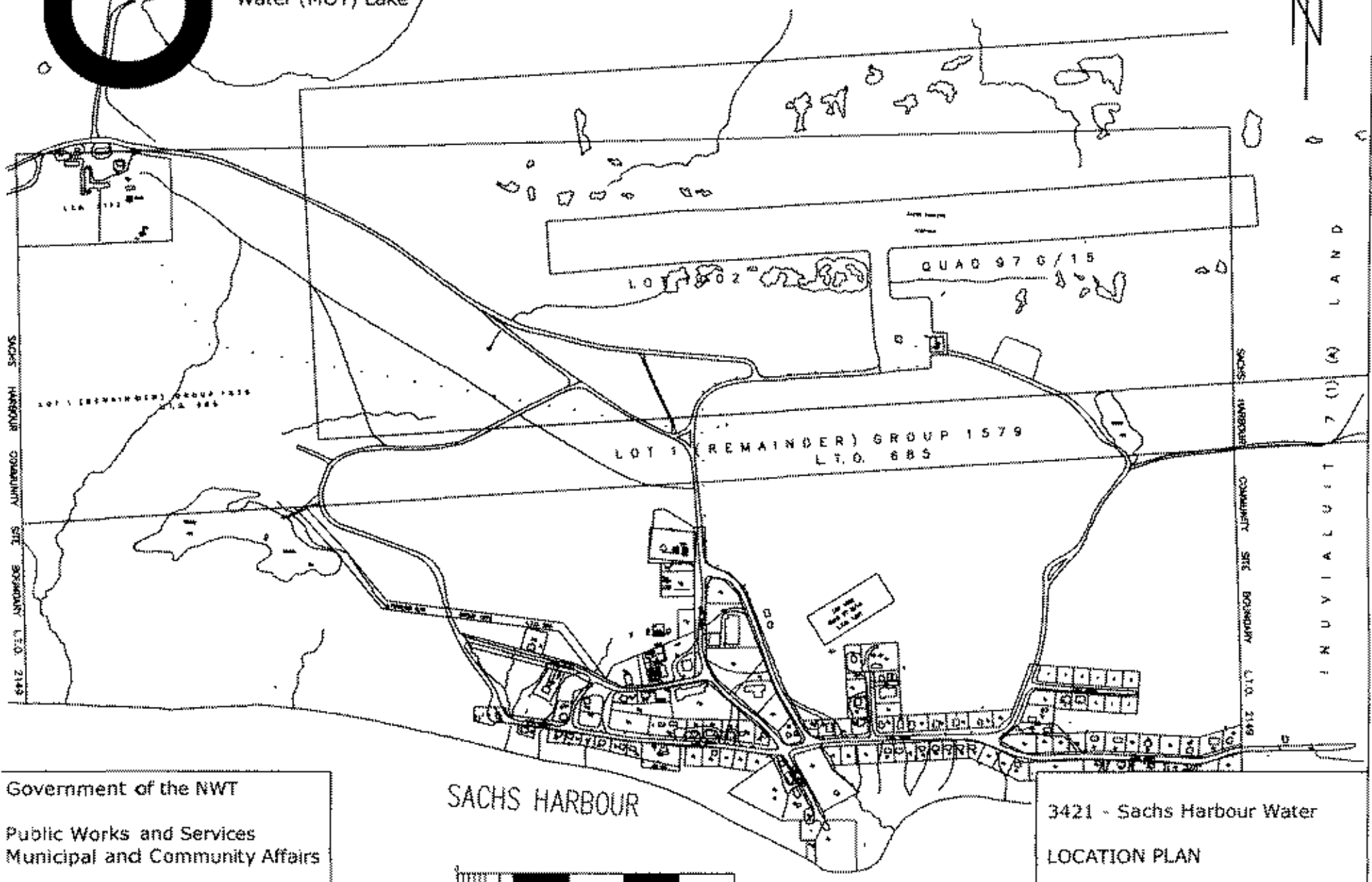
**FOR OFFICE USE ONLY**

APPLICATION FEE	AMOUNT \$ _____	RECEIPT NO. _____
WATER USE DEPOSIT	AMOUNT \$ _____	RECEIPT NO. _____

# PROJECT SITE



Water (MOT) Lake



Government of the NWT  
Public Works and Services  
Municipal and Community Affairs  
Hamlet of Sachs Harbour

3421 - Sachs Harbour Water  
LOCATION PLAN  
18 MAY 2004 | DWG: 3421-01

Proposed Turnaround

Existing Turnaround (to remain)

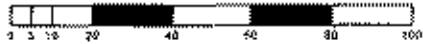
Proposed Truckfill Station

Existing Truckfill Station

Water (MOT) Lake

Existing Access Road (not to be disturbed)  
Length = 230 m

Existing Buried Power Line (not to be disturbed)



Government of the NWT  
Public Works and Services  
Municipal and Community Affairs  
Hamlet of Sachs Harbor



3421 - Sachs Harbor Water  
Site Plan

18 MAY 2004 | DWG. 3421-02

Total Area = 2 250 s.m. (0.225 ha)

