SACHS HARBOUR JULY 1994.

(Souches Hanham)

NORTHWEST TERRITORIES WATER BOARD

MUNICIPAL QUESTIONNAIRE FOR WATER LICENCE APPLICATION

INDIAN AND NORTHERN AFFAIRS -- CANADA M.W.T. REGION

JUL 2 9 1994

DIVISION YELLOWKNIFE, NT

Northwest Territories Water Board

Municipal Questionnaire for Water Licence Application

Contents

Section A - General

Section B - Water Supply

Section C - Water Treatment

Section D - Sewage Disposal

Section E - Solid Waste Disposal

200 C S 100

Tahlasik I Sayığı

Section F - Abandonment and Restoration Program

Section G - Water Qualtity Monitoring Program

Section H - Environmental Assessment and Screening

NOTE If space is insufficient for any of the responses on this questionnaire, please use the back of the sheet or an attachment.

		- 4		h.
		ч		,
-4	io		7	

	GENERAL	1. Date 6 79
. Applicant	HAPLET OF SACHS HARBOUR municipality or district	
	GENERAL DELIVERY, SACHS HARBOUR, A	The property of the state of th
	postal address	aldT
	X0E 020	
	mount in the second second	77 : 16 1 - 12 A - Heal (12 - 12
	() 690-4351 () 690-4802	_
	telephone number facsimile number	
. Contacts	JACKIE KUPTAWA	PETER ESAU
, Contacts	municipal contact	alternate contact
	ACTIVIS S. A. O.	MYOR
	position	position
	(403) 690 - 4351 (403) 690 - 4807, telephone number facsimile number	(403) 690 -411/ telephone number 1 (403) 640 - 4802 facsimile number
	telephone number lacsimile number	telephone number 1
		telephone number 2
. Communi	ty Status	Town
. Communi	ty Status	
		ation
	☐ Hamlet ☐ Settlement Corporation (according to most recent census results)	
5. Population	☐ Hamlet ☐ Settlement Corporation (according to most recent census results)	estimated growth rate over next 5 years
 Population Indicate the state of the state o	Hamlet	estimated growth rate over next 5 years
 Population Indicate the state of the state o	Hamlet	estimated growth rate over next 5 years
 Population Indicate the state of the state o	Hamlet	estimated growth rate over next 5 years

ne main water bodies in the area? Unknown	n with respect to the physical, biological, and
30 Jun 2 19 19 19 19 19 19 19 19 19 19 19 19 19	or cite titles, authors, cities, and dates. Completion Date
Raw WATER LAKE, Inspection som	
dinking water, bateri	dogy ONGOING
eing planned?	□ No
	eing planned? Water bodies in the area? Unknown The assummary of program details of the area? Title Raw Water Lake Impedia San dishlarg water of the area? Title Raw Water Lake Impedia San dishlarg water of the area? Title Raw Water Lake Impedia San dishlarg water of the assummary of program details of the assummary of the assummary of program details of the assummary

	requested in this questionnai Yes No	☐ Unknown				
If yes, please attach copies of reports or cite titles, authors and dates.						
Prepared by	Title	Completion Date				
d area. The drawings a	scoped state to descrip	in control statement If Assen detailed scale plan drawings of the proposed (or recipie the following:				
If no are such	studies being planned?	☐ Yes ☐ No				
	priefly describe the proposals	bas (milder) wolf species come to province (it)				
(a) raw water i (b) water treatr		ocations of the: Refer to: Sachs Harbour Northern Study, Resident Courtern Partners Ltd. In Reid Crowthern Partners Ltd. Reget No. 49092-000 Reget No. 4987 March, 1987				
(c) fuel & cher	atment facilities,	by kera the 40015				

10. Attach detailed scale plan drawing(s) of the proposed (or present) sewage treatment system. The drawing(s) must be stamped by an engineer registered in NWT and include the following:

(a) details of pond size and elevation;

- (b) precise details of all retaining structures (dimensions, materials of construction, etc.);
- (c) details of the drainage basin, and existing and proposed drainage modifications;
- (d) details of all decant, siphon mechanisms etc, including sewage treatment facilities;
- (e) details regarding direction and route followed by wastewater flow from the area;
- (f) indications of the distance to nearby major watercourses, and fish bearing waters;
- (g) location and construction of liners;
- (h) leachate and groundwater collection systems; and
- (i) control structures.
- 11. Attach detailed scale plan drawings of the proposed (or present) solid waste disposal area. The drawings must include the following:
 - (a) precise details of all retaining structures (dimensions, materials of construction, etc.);
 - (b) details of the drainage basin, and existing and proposed drainage modifications;
 - (c) details regarding direction and route followed by wastewater flow from the area;
 - (d) indications of the distance to nearby major watercourses, and fish bearing waters;
 - (e) all sources of seepage presently encountered in the vicinity of these areas;
 - (f) the volume of each seepage flow (m3/day); and
 - (g) the direction of each flow.
- 12. Attach the present or proposed contingency plan which will be used for each portion of the waste control system in the event it fails to operate properly.
- 13. Attach the present or proposed spill contingency plan which will be employed in case a spill of hazardous materials occurs. Describe course of action, mitigative methods and equipment available for use.

NOTE: Individual detailed large scale drawings of all facilities (dam, decant system, ditch, dike, water treatment plant, etc) constructed or proposed <u>must</u> be attached. Specific details with regard to the methods of construction, materials used, etc. are required.

Section B

WATER SUPPLY

1. Volume of water use

	System of distribution	Estimate Number of people on each system	of averag	mated ge water _/c/d)	Total water use	e (L/d)
	piped	CAM. FOR 19	φy (χ40)=	11880	//880	(I/d)
*	other	- A	lacility. Al	egunde toler e	et to vicelo of the	(I\q)
		1 m ³ =	= Water Usage	• Total:	//880 (m³/d)	(L/d)
	er usage (m ³ /d)		= Water Usage	: <u>4343,</u>	(m³/y)	
3. Type of	source 🗵 Lake	☐ River ☐ Other	cribe the effe	n or usage, use		
I. Name of	raw water source and Out Lake Primary Source	l alternative, if any		No Name	lake	-
. Usual br	eak-up & freeze-up m	onths. June		October recze-up	-	

6. Please provide short description	ons for the following				Section
- freshwater intake facilit	y DIE MAKE	= don From	7 SHORE		
Small	bled that contains	antonatio Chlori	ne injector o	nd truck	Billian
- operating capacity of th	(850) 38	41.	0	_ h	ose.
- intake screen size. <u>W</u>	Newour	10.00		_	
7. Type of water storage facility Reservoir Other		1	None		
8. What is the capacity of the w9. What is the rate of withdrawl	0.5 N	reded			
10. Is water drawn from the sou	intermittently of continuous	s holded.			
If it is drawn intermitten	tly, during what month	(s) is it drawn? _ 🥸	reeded.	Water usag	
For what time period is	it drawn (days/weeks/m	onths)?	X	mout many	
11. What is the rate of flow of	source (if river) or size	(if lake)? \sim ha			
12. At the intended rate of water	er usage, describe the e	ffects on the river or	lake from which	h water wil	l be drawn.
No significant	1	1.6.6.1.1.1.1	intended	1 4	vater usago
	Serial State (Sec.)		Name of the		
	73GS 7.1 94-0698	Strain Jetino	om qu-scoot) &	qualent la	S. Usu

(a) Wate	er supply facility
If ur	nsatisfactory, explain.
	because the expects of the treatment facility. 1000 Limin
(b) Stor	rage facility Satisfactory Unsatisfactory
If u	nsatisfactory, explain. N/A
i, czernica liegram	Describe to detail the faction of wester resimont (i.e. backwash, storculation, seminormous a commission resemble to the commission of the miss resemblacion of the commission
(c) Dist	tribution system 🖾 Satisfactory Unsatisfactory
If u	nsatisfactory, explain
gjike ji H istoria	-D anish D conf o in traject on production of a little to the second conference of the second co
Are there	any changes planned in the water supply system? No
If yes,	please attach a copy of the plan, or describe changes.
Light	M Stage of Variation of add that density and the 1990 to

Section C

WATER TREATMENT

1. Indicate the quality of the raw water prior to treatm	ent & distribution.		R THEW (E)
Describe. No Canadian Drinking Water ?	@Gindelines exc	ursions Note	d in file.
now water medium-hard is To			V
2. Indicate the capacity of the treatment facility.	looo L/mir	<u>n</u>	
3. Type of water treatment facility.			
☐ Filtration & Chlorination ☐ Other		only	□ None
 Describe in detail the method of water treatment (if and provide the results of the most recent bacterio 	logical and chemical an	alysis. Attach	h a diagram if possible.
Musing station in Sachs has most nece	mt (ractenological +	chemical or	nalysis. Also, Trinon
Health, hunrik Regional Maspital would have those		1	
Mater is pumped from lake screen approved brief. No tradeworking, to. Have there been any problems or health and environment	Dige whenown, B no Frathront offer the conmental concerns with	hould be of nan chloine the water trea	a standard DFO antimatic injection atment facilities?
□ No			
Yes, describe			
ot with I Plane crash (handled as a spill) in	ATT lake in (Atton 1999	oller nam M
but Offal overflow towards DOD			
undes - 1			

re there any changes planned in the	e water treatment facilities?	☐ Yes
If yes, please attach a copy of th	ne plan or indicate changes.	racadose L.I. ysamne 31
gas March cast		
20	- To 31 - viilisel hemisoti ogsw	In this the capadity of the re-
eyah Cook yell	the sewage while is the treatment facilities of wastewater. China range of wastewater. China point. Ass.	

Section D

SEWAGE DISPOSAL

1.	Indicate the level of treatment the sewage will be receiving:
	□ primary □ secondary □ tertiary
	Pre-treatment (if applicable): screening maceration
	Lagoons (if applicable): anaerobic aerobic facultative 160m x 160
2.	Indicate the capacity of the sewage treatment facility. $\frac{10,000}{\text{m}^3}$
3.	Indicate the retention time of the sewage while in the treatment facility. 300 days
4.	Indicate the estimated rate of discharge of wastewaterL/sec
5.	Indicate the location of the discharge point. NEW LAGOON 15 1.5 km NONTHWEST OF AES STE
6.	Will the discharge be: Seasonal continuous
	If the discharge is seasonal, during what month(s) is it done? My pak my flow May and Ju. What is the duration of the discharge (days/weeks/months)?
7.	Comment on the general condition of the: (a) Sewage collection system Satisfactory
	(b) Discharge control system N/A
	(c) Dams, diversion dykes, berms N/A
8.	Have there been any problems or health and environmental concerns with the sewage disposal facilities? No Yes, describe. The wind blows in the direction of the pumpont drate which can be a health publish. If the pumpont drate
	blown up on shore which is also aesthetically unpleasing.

. The average depth of	the wastewater lagoon is 1.0 m.
0. What is the design fi	reeboard? there is no derign.
1. Is there any harvesti	ng of fish or shell fish in the waters where waste is discharged?
☐ Yes ☒ No	
If yes, please ind	icate species harvested, and estimate amounts.
	of Electron soft to the man first year and the second like year and the
2. Will the municipality	y be using a honey bag pit? Yes 🛱 No
If yes, describe its	s:
Location	- Alaw Solid Waste Disposal Site
Drainage	-
Operation & Mai	ntenance

,	
If yes, please des	scribe.
	If yes, please indicate species inavested, and estimate amounts.
	Note C Fuel Strage onla, 1 50,000 L, 1991. NTCL Fuel Bange Spill, 10,000 L, 1987.
	operating problems with the lagoon? X Yes No

Unteroun	there any contest of companied or industrial solid waste being the character of the additions or beachaste mechanism. If you nice describe the companies of the character of th
The discosil and the	

Section E

SOLID WASTE DISPOSAL

1. Indicate the capacity of t	he disposal area. <u>\</u>	wherem 1	13				
2. The <u>average</u> depth of the	solid waste disposa	l site is	5 m. ba	um Herrot	mding Si	te.	
 Are there any sources of affect the quality of the experience. 	commercial or indus	trial solid was roduced?	te being dep	osited in the	e municip	al system whi	
4. Briefly describe how the	solid waste will be	picked up & o	delivered to	the disposa	l area.	Dump tris	k.
5. Is the solid waste site fe6. Will the municipality be			□ No				
If yes, describe its:							
Location	- SE GREGATE	S ALEA	BEHWD	BULKY	DETAL	ANEA.	
Drainage	- no noticeab	le drawage	Amengh .	site.			
Operation & Maint	enance -						

If yes, describ		hazardous waste di			
Location		Unknown	34	-560 %	10, 107
Structure					
Operation	& Maintenance -				
8. Are there any		ercial wastes enterin	g the solid waste	disposal system?	
If yes, de				methods for these wa	
to decrease t	ne amount of runo ne source(s) in qu	off water entering the estion and attach all	ese areas? Indicate pertinent details	the volume of water of proposed diversio	which may enter thes
to decrease t	ne amount of runo ne source(s) in qui	off water entering the estion and attach all ource	ese areas? Indicate pertinent details	the volume of water of proposed diversio Volume (m ³ /day)	at methods will be use which may enter thes ns.
to decrease t	ne amount of runo ne source(s) in qui	off water entering the estion and attach all	ese areas? Indicate pertinent details	the volume of water of proposed diversio Volume (m ³ /day)	which may enter thes
to decrease t	ne amount of runo ne source(s) in qui	off water entering the estion and attach all ource	ese areas? Indicate pertinent details	the volume of water of proposed diversio Volume (m ³ /day)	which may enter thes
to decrease the areas from the	ne amount of runo ne source(s) in qui So No Not	off water entering the estion and attach all ource	ese areas? Indicate pertinent details Humph the	the volume of water of proposed diversion volume (m³/day)	which may enter thes
to decrease the areas from the	ne amount of runo ne source(s) in qui So No Not	off water entering the estion and attach all ource	ese areas? Indicate pertinent details Humph the	the volume of water of proposed diversion volume (m³/day)	which may enter thes

☐ No ☐ Yes, describe.				
	1.1. 14.	u L i	N - 11 - L=	
Wind them	delois scattering o	n the Tundia.	Alotrotus.	Annet contra
			- apriemalni	
e any changes planned	in the solid waste dispo	scal system?		
c any changes planned	in the solid waste dispo	sai system:		
💢 Yes 🖾 No				
for the lower than	and if possible attach	a copy of the pla	in there are	Surgar other of
If yes, please describe	and, if possible, attach			
If yes, please describe	and, if possible, attach			
If yes, please describe				
If yes, please describe				
If yes, please describe	fence around A	ne perimoter	this years	She site.
If yes, please describe	fence around A	ne phinoter	this years	She site.
If yes, please describe	fence around A	ne perimoter	this years	She site.
If yes, please describe	fence around A	ne phinoter	this years	She site.
If yes, please describe	fence around A	ne phinoter	this years	She site.

ection F

ABANDONMENT AND RESTORATION PROGRAM

	N/A
	t whill from dd bolid worte disposal sinte. Abandoned 3 years ago.
	d solid water site is being abandoned and retired.
. Do you have	re an abandonment and restoration plan? If yes, please attach a copy of the plan.

	cribe the methodology that is presently used to sample. DVAND broughout grab brocking
	rater quality bampling per importion.
E	invironmental Health (Neving Station) broteriology testing of drinking water
Recognized	d laboratory performing analysis of samples.
	YELLOW KNIFE LATER CAB
	name
	BILL COEDY
	contact name
	P.O. BUX 1500, YK., NT.,
	postal address
	postal address XIA 2R3
	postal address XIA 2R3 postal address
	postal address XIA 2R3 postal address () 920 - 8192
	postal address XIA 2R3 postal address () 920 - 8192 telephone number
	postal address XIA 2R3 postal address () 920 - 8192

ection H.

ENVIRONMENTAL ASSESSMENT AND SCREENING

Has this project ever to	By whom/when	review, including previous owners?
waterbodies for contain Yes No No 4. Are there any environ	inment or disposal of waste? NA mental studies ongoing or planned	ent of Fisheries and Oceans for using any fish bearing
☐ Yes ☐ No ☐ If yes, list:	Unknown.	
Prepared by	Title	Completion Date
Note: M	ACA, luwile, does not has	ve any design specifications for