

# WATER REPORT

## WATER CONSUMPTION AND SYSTEM MAINTENANCE

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BY  
RICK GAULTON  
NARWHAL ARCTIC SERVICES  
A DIVISION OF ATCO FRONTEC SERVICES LTD.

Date: March 31, 2001  
Water Register: N4L3-1561

## **INTRODUCTION**

The Resolute Bay Arctic Airports water lease # N4L3-1561 system in brief is as follows.

Water supply is from Strip Lake; the intake facility is located east of the runway. The original feed water pipe which ran in an underground and above ground utilidor, froze and broke February 29, 1996. Since that date water has been hauled from Strip Lake by truck to each user. The total Resolute Airport system and Narwhal's commercial water delivery uses approximately 3,000L to 4,000L liters of water daily. This further reduction in water requirements since 1996 is due to several factors, less people on site and customers purchasing their water from the Hamlet as opposed to the Airport (Under license N4L3-1561). At peak demand, the water usage under License N4L3-1561 serviced about 16 people, however the average in 2000 was 10 people.

Sewage effluent is collected via vacuum truck from the storage tanks, which are regularly pumped out and hauled to the sewage waste disposal site, located adjacent to the old base dump (no longer in service).

In compliance with the General Conditions Part B of the Water Use and Waste Disposal License, following is the **2000 Annual Report**.

- a) The monthly and annual quantities of water used (litres)  
See Chart 4
- b) In 2000 there were no sewage solids removed from any sewage disposal facilities for disposal.
- c) The pump for filling the water truck was broken in July and replaced in August once it arrived on site. During this down time water was purchased from the Hamlet of Resolute Bay's water system.
- d) Surveillance Network Program
  - 1561-1 Strip Lake Wet Well
  - 1561-2 Central Heating Plant, (no longer in service)
  - 1561-3 Sewage discharge from final discharge pipe.  
(No longer in service)
  - 1561-4 Inlet to Resolute Lake
- e) In the summer of 2000 there were some minor repairs made to the sewage lagoon due to erosion. There is no major work anticipated for 2001.
- f) There were no studies requested by the Board in 2000, nor am I aware of any future studies in the planning for 2001.
- g) I am not aware of any unauthorized discharges that took place in 2000.
- h) There was no updates or revisions to the sewage and solid waste Operation and Maintenance Plans during 2000.
- i) Up to November 1, 2000 the board did not request any details on water use or waste disposal.

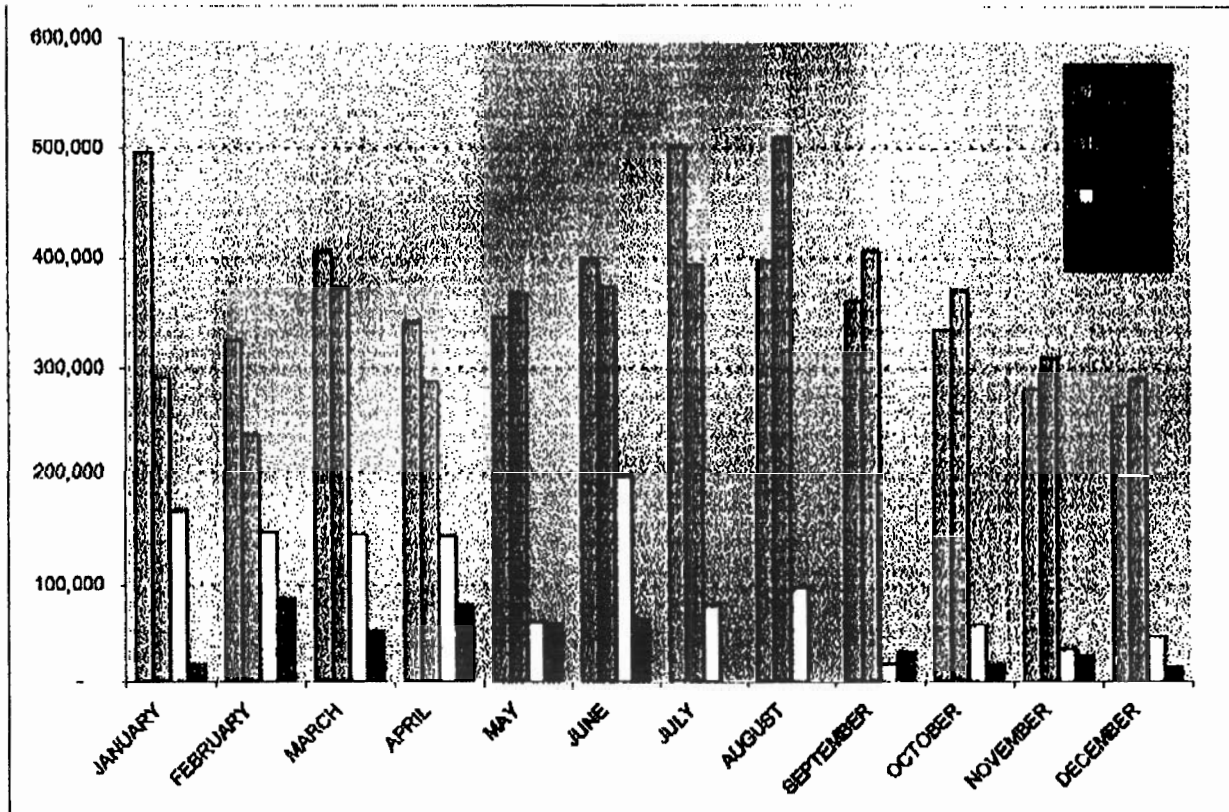
CHART 1					
1997 WATER REPORT					
WATER LICENSE N4L3-1561					
	NARWHAL WATER CONSUMPTION *	WATER TRUCKED TO BUILDING # 48	WATER TRUCKED FROM CHAR LAKE TO BLDG # 48	TOTAL MONTHLY CONSUMPTION *	TOTAL WASTE DISCHARGE *
JANUARY	60,215	436,319		496,534	397,227
FEBRUARY	64,678	289,788		324,476	259,581
MARCH	86,779	319,544		406,323	324,259
APRIL	83,567	257,108		340,663	272,530
MAY	80,510	285,729		346,239	279,991
JUNE	112,435	286,293		398,728	318,992
JULY	125,890	375,484		501,374	401,089
AUGUST	105,703	292,471		398,174	318,539
SEPTEMBER	77,204	282,793		359,997	287,908
OCTOBER	60,704	273,780		334,484	287,571
NOVEMBER	47,178	227,874	6,360	281,402	226,122
DECEMBER	58,165	208,024	1,100	265,289	212,231
TOTAL WATER	963,018	3,492,198	7,460	4,462,683	3,562,130

CHART 2					
1998 WATER REPORT					
WATER LICENSE N4L3-1561					
	NARWHAL WATER CONSUMPTION *	WATER TRUCKED TO BUILDING # 48	WATER TRUCKED FROM CHAR LAKE TO BLDG # 48	TOTAL MONTHLY CONSUMPTION *	TOTAL WASTE DISCHARGE *
JANUARY	54,778	224,074	12,630	291,482	233,348
FEBRUARY	59,436	177,589		237,025	189,820
MARCH	139,515	219,113	13,182	371,790	297,432
APRIL	109,568	178,381		287,949	230,351
MAY	151,712	215,842		367,554	294,043
JUNE	168,280	207,531		373,791	299,033
JULY	140,540	305,700		446,240	314,994
AUGUST	192,000	318,905		508,905	407,124
SEPTEMBER	98,717	310,110		408,827	326,462
OCTOBER	51,231	308,775	10,100	370,106	298,085
NOVEMBER	69,775	239,177		308,952	247,182
DECEMBER	68,737	220,841		290,578	232,462
TOTAL WATER	1,301,268	2,871,107	36,092	4,208,467	3,348,774

CHART 3					
1999 WATER REPORT					
WATER LICENSE N4L3-1561					
	NARWHAL WATER CONSUMPTION *	WATER TRUCKED TO BUILDING # 48	WATER TRUCKED FROM CHAR LAKE TO BLDG # 48	TOTAL MONTHLY CONSUMPTION *	TOTAL WASTE DISCHARGE *
JANUARY	111,974	63,947		185,921	132,737
FEBRUARY	124,489	23,120		147,609	118,087
MARCH	130,770	14,240		145,010	116,008
APRIL	118,980	28,405		143,385	114,992
MAY	49,419	11,520		60,939	48,751
JUNE	162,526	34,998		197,524	158,019
JULY	59,265	29,300		79,565	63,652
AUGUST	76,727	20,300		97,027	77,622
SEPTEMBER	18,620			18,620	14,898
OCTOBER	57,878			57,878	48,141
NOVEMBER	31,780			31,780	25,424
DECEMBER	44,340			44,340	35,472
TOTAL WATER	951,848	297,521	-	1,189,378	951,801

**CHART 4  
2000 WATER REPORT  
WATER LICENSE NALS-1661**

	NARWHAL WATER CONSUMPTION *	WATER TRUCKED TO BUILDING # 48	WATER TRUCKED FROM CHAR LAKE TO BLDG # 48	TOTAL MONTHLY CONSUMPTION *	TOTAL WASTE DISCHARGE *
JANUARY	18,840			18,840	15,072
FEBRUARY	87,615			87,615	70,082
MARCH	50,995			50,995	40,798
APRIL	78,865			78,865	63,092
MAY	58,907			58,907	47,126
JUNE	62,665			62,665	50,132
JULY	-			-	-
AUGUST	-			-	-
SEPTEMBER	29,030			29,030	23,224
OCTOBER	17,700			17,700	14,180
NOVEMBER	26,302			26,302	20,242
DECEMBER	14,328			14,328	11,462
<b>TOTAL WATER</b>	<b>444,247</b>	<b>-</b>	<b>-</b>	<b>444,247</b>	<b>365,398</b>





**NARWHAL ARCTIC SERVICES**

**A DIVISION OF ATCO FRONTEC SERVICES LIMITED**

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**CC:**

**Date** October 4, 2001

**Number of pages including cover sheet** 6

**FROM:** Rick Gaulton  
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**REMARKS:** ☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please Comment

Good Morning;

Attached is the annual water report for 2000 under permit N4L3-1561.

I apologize for the late submission and if you have any questions or concerns please get in touch with me at the above numbers.

Thanks,