WATER QUANTITY SURVEYS

COST SHARING AGREEMENT

CANADA – NEWFOUNDLAND

ANNUAL REPORT 1998 - 1999

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Martin Goebel
Administrator for Newfoundland

Mr. W. S. Appleby
Administrator for Canada

In accordance with Article XII of the Memorandum of Agreement covering Water Quantity Surveys in the Province of Newfoundland, we submit herewith the annual report for fiscal year 1998 - 1999.

Members of the Co-ordinating Committee

H. Khan
Co-ordinator for Newfoundland
St. John's, Newfoundland

J. B. Merrick
Co-ordinator for Canada
Dartmouth, Nova Scotia

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INTRODUCTION

The year ending March 31, 1999 was the twenty fourth in which water quantity surveys in Newfoundland were conducted under a Memorandum of Agreement between the Federal and Provincial Governments.

The Agreement establishes the basis on which co-operative water quantity surveys are made. It is administered for Canada by the Director of the Atmospheric Environment Branch (AEB) of Environment Canada and for Newfoundland by the Director, Water Resources Division, Department of Environment and Labour.

A Co-ordinating Committee comprising the Manager Environmental Monitoring Division of AEB, and the Manager Surface Water Section, Newfoundland Department of Environment and Labour, reports to the Administrators. It is the responsibility of the Co-ordinating Committee to prepare annually, Schedules A and D for approval by the Administrators.

The full Memorandum of Agreement includes four schedules. The annually changing **Schedules A and D** for 1998 - 1999 are attached to this report in Appendices I and II. **Schedules B and C** are primarily administrative in nature. They are provided in previous annual water reports of this series, as well as in the publication entitled Compendium of Practices, Interpretations and Administrative Procedures for the Water Quantity Survey Agreements: dated 1985-07.

Schedule A is a list of water quantity stations operated under the terms of the Agreement and their responsibility classification as federal, federal-provincial or provincial.

Schedule D provides a summary of the 1998 - 1999 annual payment.

Changes to the network continued with the closure of the following 4 stations in 1998-99:

Responsibility Class	Station No.	Station Name
F	02YH001	Bottom Creek near Rocky Harbour
F	02ZD002	Grey River near Grey River
F/P	02YN003	Star Brook below Star Lake
F/P	02YQ004	Northwest Gander River near Gander Lake

WATER QUANTITY SURVEYS

PROVINCE OF NEWFOUNDLAND

ANTICIPATED OPERATIONAL COSTS FOR HYDROMETRIC SURVEYS - ISLAND

1998 - 1999

Budget Item	1998 - 99
Personnel - Basic Pay - 01, 02, 03 (Salaries of hydrometric technical staff including overtime)	164,285
Transportation and Communications	
Travel - 07	8,661
Transportation and Postage - 09	1,793
Telecommunications - 10, 11	3,291
Professional and Special Services	
Professional Services - 18	0
Other Services - 22	4,764
Rentals - 25	31,512
Purchased Repair and Upkeep	
Equipment Purchased and Repairs - 28	9,010
Building and Structures Repairs - 29	2,000
Utilities, Materials and Supplies	
Public Utility Services - 32	580
Purchased Materials, Supplies,	
Misc. Goods - 33, 34	31,143
Parts and Consumable Tools - 35	8,145
Other Costs - Data Processing	0
Depreciation of Vehicles (5)	17,142
Depreciation of Field Equipment and Instruments	0
TOTAL	**282,326**

WATER QUANTITY SURVEYS

PROVINCE OF NEWFOUNDLAND

ANTICIPATED OPERATIONAL COSTS FOR HYDROMETRIC SURVEYS - LABRADOR

1998 - 1999

Budget Item	1998 - 99
Personnel - Basic Pay - 01, 02, 03 (Salaries of hydrometric technical staff including overtime)	10,506
Transportation and Communications	
Travel - 07	7,935
Transportation and Postage - 09	500
Telecommunications - 10, 11	0
Professional and Special Services	
Professional Services - 18	0
Other Services - 22	300
Rentals - 25	31,929
Purchased Repair and Upkeep	
Equipment Purchased and Repairs - 28	0
Building and Structures Repairs - 29	500
Utilities, Materials and Supplies	
Public Utility Services - 32	0
Purchased Materials, Supplies,	
Misc. Goods - 33, 34	761
Parts and Consumable Tools - 35	268
Other Costs - Data Processing	0
Depreciation of Vehicles (5)	0
Depreciation of Field Equipment and Instruments	600
TOTAL	**53,299**

WATER QUANTITY SURVEYS

CALCULATION OF ANTICIPATED ANNUAL COSTS AND PAYMENTS - 1998 – 1999

HYDROMETRIC NETWORK - ISLAND

Station Category	Stations	Station Units
Federal 1	5	5.0
Federal 4	7	7.0
Federal / Provincial 3	31	31.0
Provincial 1	17	14.6
Total	**60**	**57.6**

Average Cost per Station Unit = $282,326 / 57.6 = $4,901.49

Provincial Share = $4,901.49 [**(31 x .5) + 14.6**] = $4,901.49 [**30.1**] = **$147,534.84**

HYDROMETRIC NETWORK - LABRADOR

Station Category	Stations	Station Units
Federal 2	1	1.0
Federal 4	3	3.0
Provincial 1	1	0.2
Total	**5**	**4.2**

Average Cost per Station Unit = $53,299 / 4.2 = $12,690.24

Provincial Share = $12,690.24[0.2] = $2,538.05

HUMBER BASIN METEOROLOGICAL STATIONS

Station Category	Stations	Station Units
Humber Basin Meteorology	5	1.0

Cost per Station = 20% of Hydrometric station = $4,901.49 x .2 = $980.30

Provincial Share = $980.30 x 5 = $4,901.50

[Editor's note: discrepancy between the above two totals and the amounts shown on the Date Corrected as well as unsigned Schedule D arise from incorrect station units calculations in the original estimates.]

Total Provincial Share = $154,974.39

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TABLE 1
WATER QUANTITY SURVEYS
GAUGING STATION DATA FOR 1998 – 1999

No. of Stations: incl Contrib			Changes during 1998 - 1999		Stn. Designation April 1, 1998			
April 1, 1997	April 1, 1998	Change	Added	Discontinued	Fed	F/P	Prov.	Contrib.
83	79	4	0	4	16	31	18	14

TABLE 2
WATER QUANTITY SURVEYS
COMPARATIVE GAUGING STATION DATA April 1, 1975 - April 1, 1998

Federal Stations			F/P Stations			Provincial Stations			Total Stations		
Apr 1, 1975	Apr 1,1998	Change	Apr 1, 1975	Apr 1, 1998	Change	Apr 1, 1975	Apr 1, 1998	Change	Apr 1, 1975	Apr 1, 1998	Change
14	16	2	7	31	24	9	18	9	30	65	35

TABLE 3
WATER QUANTITY SURVEYS
DETAILED GAUGING STATION DATA 1998 – 1999

F-1	*F-2	F-3	F-4	Total F	FP-1	FP-2	FP-3	Total F/P	P-1	P-2	Total P	Contrib.	Total-All
5	1	0	10	16	0	0	31	31	18	0	18	14	79

TABLE 4
WATER QUANTITY SURVEYS
SUMMARY OF SCHEDULE D - 1998 - 1999 TABLE
(does not include costs for Humber River Meteorological Stations or Sediment Program)

Streamflow & Water Level		Sediment		Total
Operation	Construction	Operation	Construction	
$151,374.15	0	0	0	$151,374.15

TABLE 5
WATER QUANTITY SURVEYS
COMPARISON - SCHEDULED & ACTUAL DOLLAR COSTS FOR 1998 - 1999
(does not include costs for Humber River Meteorological Stations or Sediment Program)

Salary & Operations		Construction		Total			Amount Payment Received	Received Minus Actual
Sch. D	Actual Cost	Sch. D	Actual Cost	Sch. D	Actual Cost	Difference		
$151,374.15	$154,158.60	0	0	$151,374.15	$154,158.60	-$2,784.45	$151,374.20	-$2,784.45

SUMMARY OF ACTUAL ANNUAL COSTS AND PAYMENTS
1975-76 TO 1998-99

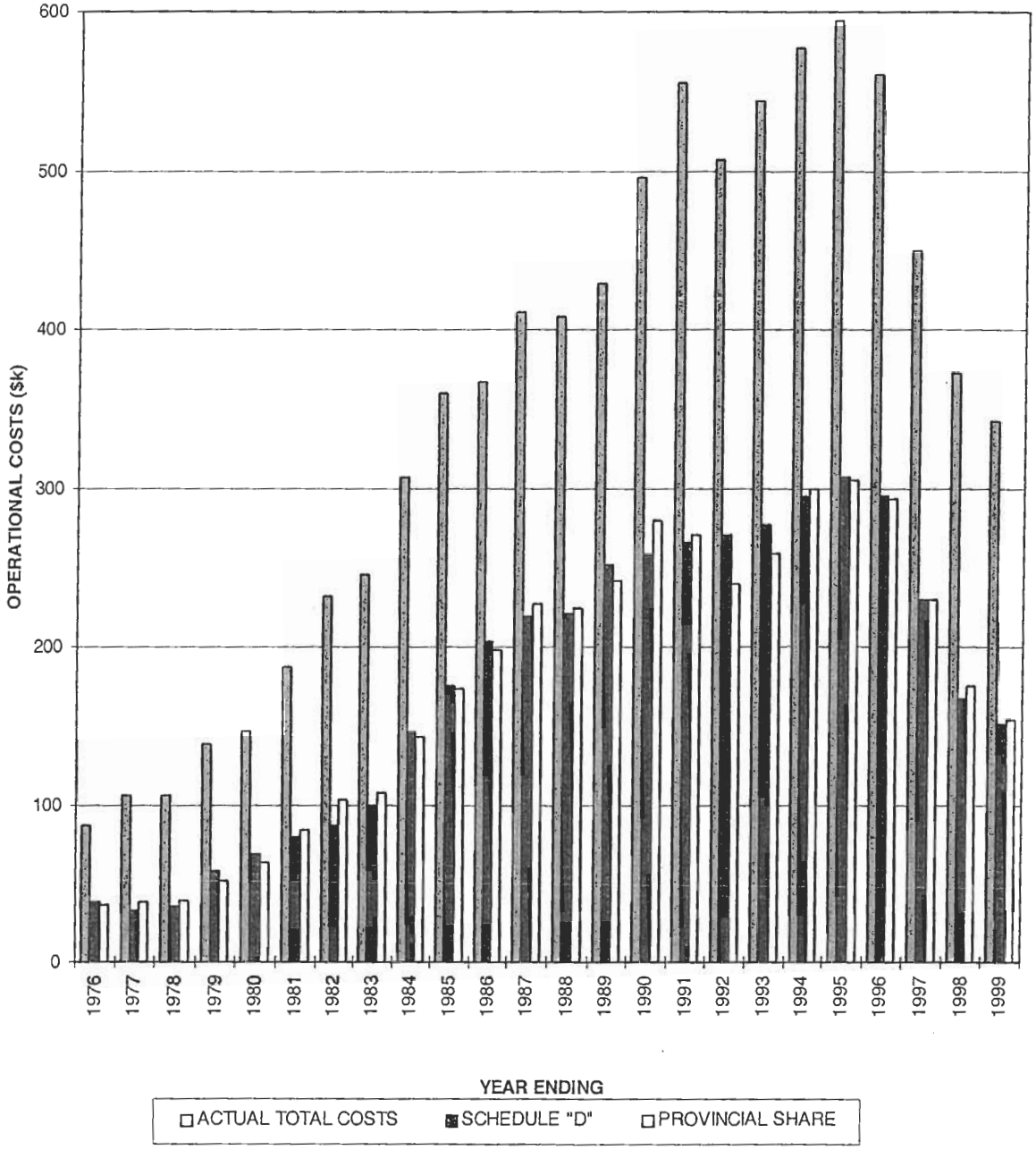
	SCHEDULE "D" PAYMENTS BY PROVINCE				ACTUAL PROVINCIAL SHARE				PROVINCIAL +CREDIT
YEAR	HYDROMET	SEDIMENT	CONSTR'N	TOTAL	HYDROMET	SEDIMENT	CONSTR'N	TOTAL	-DEBIT
1975-76	37,800	0	3,600	41,400	36,238	0	2,177	38,415	2,985
1976-77	32,340	0	12,000	44,340	37,840	0	1,573	39,413	4,927
1977-78	35,520	0	24,480	60,000	38,700	0	13,963	52,663	7,337
1978-79	56,775	1,400	11,825	70,000	51,371	679	26,000	78,050	-8,050
1979-80	68,338	933	25,729	95,000	62,256	896	22,476	85,628	9,372
1980-81	78,639	1,475	6,000	86,114	83,518	1,064	7,703	92,285	-6,171
1981-82	83,523	3,750	14,000	101,273	100,726	3,114	16,560	120,400	-19,127
1982-83	96,542	3,744	55,000	155,286	102,735	5,886	47,224	155,845	-559
1983-84	141,457	4,470	38,000	183,927	136,917	6,906	37,864	181,687	2,240
1984-85	168,244	7,350	52,000	227,594	168,247	5,295	48,662	222,204	5,390
1985-86	195,563	7,650	36,787	240,000	191,580	6,324	39,203	237,107	2,893
1986-87	211,706	6,975	34,641	253,322	222,843	4,413	35,136	262,392	-9,070
1987-88	213,634	6,975	42,000	262,609	220,934	3,597	47,957	272,488	-9,879
1988-89	245,221	6,300	15,000	266,521	237,249	4,683	16,148	258,080	8,441
1989-90	253,392	5,173	30,000	288,565	274,004	5,571	21,264	300,839	-12,274
1990-91	260,691	5,925	0	266,616	266,058	4,809	2,532	273,399	-6,783
1991-92	264,591	6,450	0	271,041	234,222	5,649	0	239,871	31,170
1992-93	273,482	3,825	0	277,307	254,430	4,713	0	259,143	18,164
1993-94	270,983	3,700	21,000	295,683	276,163	3,505	20,496	300,164	-4,481
1994-95	295,500	3,200	0	298,700	288,835	3,220	0	292,055	6,645
1995-96	294,040	1,375	0	295,415	292,860	1,180	0	294,040	1,375
1996-97	229,643	0	0	229,643	229,643	0	0	229,643	0
1997-98	167,169	0	0	167,169	175,042			175,042	-7,873
1998-99	151,374	0	0	151,374	154,159	0	0	154,159	-2,785
	** Adjustment			-24,677	0	0	0	0	-24,677
								Net total	**-10,790**

NOTES. A positive net total indicates funds owed to the Province.

** Credit surplus in account toward costs of modernization

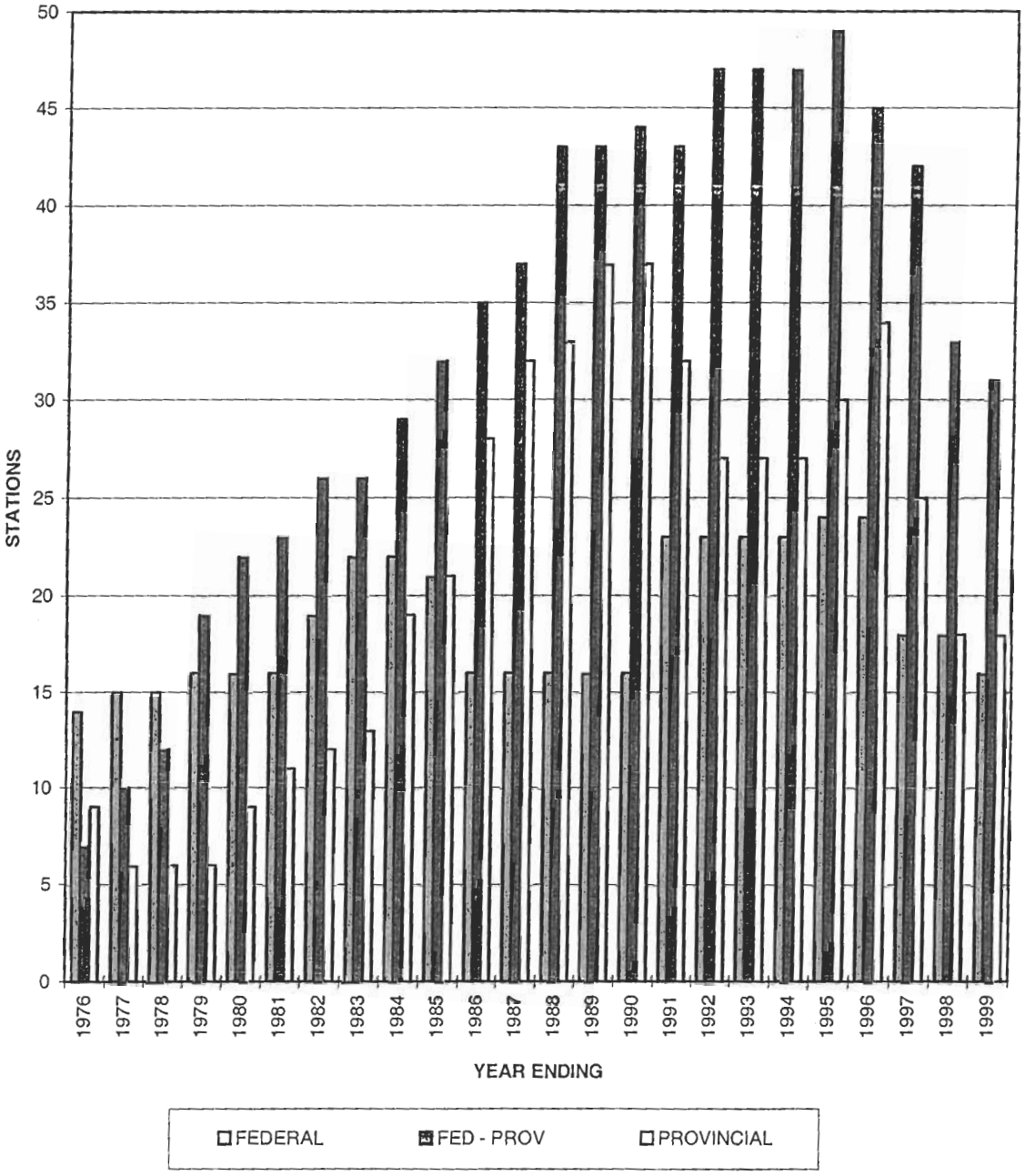
WATER QUANTITY SURVEYS
NEWFOUNDLAND & LABRADOR

OPERATIONAL COSTS



WATER QUANTITY SURVEYS
NEWFOUNDLAND and LABRADOR

NUMBER OF STATIONS



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APPENDIX I

SCHEDULE A

WATER QUANTITY SURVEY STATIONS

SCHEDULE "A"
RESPONSIBILITY CLASSIFICATION NEWFOUNDLAND AND 1998-99

FEDERAL 1 FEDERAL DEPARTMENTAL PROGRAMS (5)

STA. NO.	STATION NAME	ESTAB.	D.A	RECORD	REMARKS
02ZB001	Isle aux Morts River below Highway Bridge	1962	205	Q R C	DCP TYP LRTAP A B E
02YS006	Northwest River at Terra Nova National Park	1994	663	Q R C	DCP LGR A
02ZK001	Rocky River near Colinet	1948	285	Q R C	DCP TYP WQ A B E
02YS003	Southwest Brook at Terra Nova National Park	1967	36.7	Q R C	A B E(CARRIER)
02YL001	Upper Humber River near Reidville	1928	2110	Q R C	LGR TYP A B E

[5 Island, *0 Labrador*]

FEDERAL 2 INTERPROVINCIAL WATERS (1)

STA. NO.	STATION NAME	ESTAB.	D.A.	RECORD	REMARKS
02XA003	*Little Mecatina River above lac Fourmont*	*1979*	*4540*	*Q R C*	*LGR DCP RMT A*

[0 Island, *1 Lab*]

FEDERAL 4 NATIONAL WATER QUANTITY INVENTORY (10)

STA. NO.	STATION NAME	ESTAB	D.A	RECORD	REMARKS
03QC002	*Alexis River near Port Hope Simpson*	*1978*	*2310*	*Q R C*	*LGR DCP RMT MET A*
02ZF001	Bay du Nord River at Big Falls	1950	1170	Q R C	LGR A B E
03QC001	*Eagle River above Falls*	*1966*	*10900*	*Q R C*	*LGR RMT WQ TYP A*
02YQ001	Gander River at Big Chute	1949	4400	Q R C	LGR TYP A B E
02YJ001	Harrys River below Highway Bridge	1968	640	Q R C	DCP WQ LRTAP A B C E
02YL003	Humber River at Humber Village Bridge	1982	7860	Q R C	LGR REG A C
02YG001	Main River at Paradise Pool	1986	627	Q R C	LGR RMT A E
02YD002	Northeast Brook near Roddickton	1980	200	Q R C	M A B
02YC001	Torrent River at Bristol's Pool	1959	624	Q R C	WQ LGR A B E
03NF001	*Ugjoktok River below Harp Lake*	*1979*	*7570*	*Q R C*	*RMT LGR A*

[7 Island, *3 Labrador*]

FEDERAL-PROVINCIAL 3 REGIONAL WATER QUANTITY INVENTORY (31)

STA. NO.	STATION NAME	ESTAB	D.A	RECORD	REMARKS
02YA002	Bartletts River near St. Anthony	1986	33.6	Q R C	A B
02ZH002	Come-by-Chance River near Goobies	1961	43.3	Q R C	A B
02ZE004	Conne River at Outlet of Conne Pond	1988	99.5	Q R C	DCP M A
02YO011	Exploits River below Noel Pauls Brook	1985	6300	Q R C	LGR REG A E
02ZG001	Garnish River near Garnish	1958	205	Q R C	LRTAP A B
02ZC002	Grandy Brook below Top Pond Brook	1982	230	Q R C	LGR RMT LRTAP A E
02YO008	Great Rattling Brook above Tote River Confluence	1984	823	Q R C	LGR A E
02YE001	Greavett Brook above Portland Creek Pond	1983	95.7	Q R C	LGR A E
02ZA002	Highlands River at TCH	1982	72.0	Q R C	M A B E
02YR003	Indian Bay Brook near Northeast Arm	1981	554	Q R C	A B E
02YK002	Lewasseechjeech Brook at Little Grand Lake	1952	470	Q R C	LGR DCP RMT A E
02YN002	Lloyds River below King George IV Lake	1980	469	Q R C	LGR RMT A
02YR001	Middle Brook near Gambo	1959	267	Q R C	A B E
02ZK002	Northeast River near Placentia	1979	89.6	Q R C	A B
02YO006	Peters River near Botwood	1981	177	Q R C	A B
02ZH001	Pipers Hole River at Mothers Brook	1952	764	Q R C	WQ LRTAP A B
02ZG004	Rattler Brook near Boat Harbour	1981	42.7	Q R C	A B
02YL005	Rattler Brook near McIvers	1985	17.0	Q R C	A B
02YQ005	Salmon River near Glenwood	1987	80.8	Q R C	LGR A E
02ZG003	Salmonier River near Lamaline	1980	115	Q R C	LGR A E
02ZM009	Seal Cove Brook near Cappahayden	1979	53.6	Q R C	A B
02YK005	Sheffield Brook near TCH	1972	391	Q R C	DCP A B E
02ZJ003	Shoal Harbour River near Clarenceville	1985	106	Q R C	A B
02ZM016	South River near Holywood	1983	17.3	Q R C	A B
02ZJ001	Southern Bay River near Southern Bay	1976	67.4	Q R C	LGR A
02YO012	Southwest Brook at Lewisporte	1989	47.7	Q R C	LGR A
02YM003	South West Brook near Baie Verte	1980	93.2	Q R C	A B
02YS005	Terra Nova River at Glovertown	1985	2000	Q R C	LGR A E
02YL008	Upper Humber River above Black Brook	1988	471	Q R C	RMT LGR MET A E
02ZM018	Virginia River at Pleasantville	1984	10.7	Q R C	LGR A
02ZM008	Waterford River at Kilbride	1974	52.7	Q R C	LGR A

[31 Island, *0 Labrador*]

PROVINCIAL 1 PROVINCIAL DEPARTMENTAL PROGRAM (18)

STA. NO.	STATION NAME	ESTAB.	D.A.	RECORD	REMARKS
02ZL005	Big Brook at Lead Cove	1985	11.2	Q R C	A B
03OE010	*Big Pond Brook below Big Pond*	*1993*	*71.4*	*Q R C*	*RMT LGR A*
02YK008	Boot Brook at Trans-Canada Highway	1985	20.4	Q R C	A B
02YF002	Cat Arm Reservoir near Spillway	1994		H R C	RMT DCP LGR A
02YL011	Copper Pond Brook near Corner Brook Lake	1994	12.9	Q R C	LGR A
02YL009	Corner Brook Lake at lake Outlet	1990		H R C	REG DCP MET
02YL007	Deer Lake at Deer Lake	1987		H R C	TMK M C
02YK010	Grand Lake East of Grand Lake Brook	1988		H R C	DCP RMT MET M A
02YM004	Indian Brook Diversion above Birchy Lake	1990		Q R C	LGR DCP MET A E
02ZM020	Leary Brook at Prince Philip Drive	1985	17.8	Q R C	LGR A
02ZK003	Little Barachois River near Placentia	1983	37.2	Q R C	A B
02ZK004	Little Salmonier River near North Harbour	1983	104	Q R C	A B
02ZM006	Northeast Pond River at Northeast Pond	1953	3.63	Q R C	A B
02ZM022	Raymond Brk at Outlet of Bay Bulls Big Pond	1988		Q R C	REG A B
02ZJ002	Salmon Cove River near Champneys	1983	73.6	Q R C	A B
02ZL004	Shearstown Brook at Shearstown	1983	28.9	Q R C	A B
02YL004	South Brook at Pasadena	1983	58.5	Q R C	LGR A C E
02ZN002	St. Shotts River near Trepassey	1985	15.5	Q R C	LGR DCP A

[17Island, *1 Labrador*]

CONTRIBUTED STATIONS (14)

STA. NO.	STATION NAME	ESTAB.	D.A.	AGENCY	REMARKS
03OA001	*Ashuanipi River at Menihek Rapids*	*1952*	*19000*	*IOCCL*	*REG RMT*
03OC006	*Atikonak River at Gabbro Lake*	*1973*	*21400*	*CFLCO*	*REG73 RMT*
03OD006	*Atikonak River at Ossakmanuan Control*	*1977*		*CFLCO*	*REG64 RMT*
03OD005	*Churchill River at Churchill Falls Pwrhouse*	*1972*	*69200*	*CFLCO*	*REG71 RMT*
02YL002	Corner Brook at Watsons Brook Powerhouse	1959	127	DLPCL	REG
02YO001	Exploits River at Grand Falls	1914	8390	AB-PR	REG
02YK006	Hinds Brook at Hinds Brook Powerhouse	1981	651	N&LHY	REG81
02YK001	Humber River at Grand Lake Outlet	1898	5020	DLPCL	REG
02ZM003	Mobile River at Mobile First Pond	1962	112	NLPCL	REG
02ZM001	Petty Harbour River at Second Pond	1962	134	NLPCL	REG
02ZM002	Pierres Brook at Gull Pond	1962	117	NLPCL	REG
02YO003	Rattling Brook at Rattling Brook Pwrhouse	1962	378	NLPCL	REG
02ZE003	Salmon River at Bay D'Espoir Powerhouse	1967	5910	N&LHY	REG67
02YO004	Sandy Brook at Sandy Brook Powerhouse	1964	508	NLPCL	REG

[10 Island, *4 Labrador*]

HUMBER RIVER DATA COLLECTION NETWORK

Real Time Instrumentation To Be Operated and Maintained By Water Survey of Canada In Accordance With Memorandum of Understanding.

	Station	Response Time
1.	Burgeo Road near Buchans Access	48 Hrs.*
2.	Grand Lake at Southwest End	48 Hrs.
3.	Grand Lake on Glover Island	48 Hrs.*
4.	Upper Humber River above Black Brook	48 Hrs.
5.	Corner Brook Lake at Lake Outlet	48 Hrs.*
6.	Sandy Lake at Howley Road	48 Hrs.*
7.	Indian Brook Diversion to Birchy Lake	48 Hrs.
8.	Lewassechjeech Brook at Little Grand Lake	48 Hrs.
9.	Sheffield Brook near T.C.H.	48 Hrs.
10	Humber River at Humber Village Bridge	48 Hrs.
11	Upper Humber River near Reidville	48 Hrs.
12	Deer Lake near Generating Station	48 Hrs.
13	Aides Lake	48 Hrs*
14	Hinds Lake	48 Hrs*

* precipitation guage

Station 8-12 are not equipped with meteorological sensors but are included in this list of "Response Time Repair" due to the significance of the data in supporting the "Humber River Basin Data Collection Network".

EXPLANATION OF SYMBOLS & ABBREVIATIONS

TYPE OF RECORD

H	- water level data
Q	- flow data

TYPE OF GAUGE

M	- manual gauge
R	- automatic recording gauge

OPERATION SCHEDULE

C	- continuous record
M	- miscellaneous record
S	- seasonal record

REMARKS

DCP	- data collection platform
LRTAP	- samples collected for acid precipitation monitoring
MET	- data available from meteorological sensors
REG	- regulated flow
REG78	- regulated flow since 1978
RMT	- remote station accessed by aircraft
TMK	- telephone interrogated Telemark
TYP	- typical stream; data used to produce statement on runoff conditions.
WQ	- samples collected for water quality national overview network
LGR	- data recorded by digital data logger
A	- Building
B	- Well
C	- Power and / or Telephone
E	- Cableway
M	- Manometer

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A	- Building
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APPENDIX II

SCHEDULE D

SUMMARY OF ANNUAL PAYMENT

SCHEDULE D

This schedule provides a summary of the annual payment. The details of the calculations for operation and construction are available and have been jointly reviewed by the officers of each party.

98 - 99

ANNUAL PAYMENT FOR ~~1997-98~~ TO BE PAID TO THE RECEIVER GENERAL FOR CANADA BY THE PROVINCE OF NEWFOUNDLAND

	Operation	Construction	Total
a) Streamflow and water level installations: **Island**	$149,521.5		$149,521.48
b) Streamflow and water level installations: **Labrador**	$1,852.7		$1,852.67
c) Sediment installations			$0.00
d) Humber met Stations	$4,807.8		$4,807.76
e) Miscellaneous Credit			-$20,000.00
f) Capital Share Modernization Payment			-$12,000.00
Total Annual Payment			$124,181.91

M. G. Goebel
Director, Water Resources Management Division
Department of Environment and Labour

Administrator for Province

W. S. Appleby
Director
Atmospheric Environment Branch

Administrator for Canada

SCHEDULE D

This schedule provides a summary of the annual payments. The details for operation and construction are available and have been jointly reviewed by the officers of each party.

ANNUAL PAYMENT FOR 1998-1999 TO BE PAID TO THE RECEIVER GENERAL FOR CANADA BY THE PROVINCE OF NEWFOUNDLAND

	Operation	**Construction**	**Total**
a) Streamflow and Water level installation: **Island**	$149,521.48		$149,521.48
b) Streamflow and Water level installations: **Labrador**	$1,852.67		$1,852.67
c) Sediment Installations			$0.00
d) Humber met Stations	$4,807.76		$4,807.76
e) Miscellaneous Credit			-$20,000.00
f) Capital Share Modernization Payment 1 of x			-$12,000.00
Total Annual Payment			$124,181.91

M .G. Goebel
Director, Water Resources Management Division
Department of Environment and Labour

Administrator for Province

W. S Appleby
Director
Atmospheric Environment Branch

Administrator for Canada

APPENDIX III

MINUTES OF COORDINATING COMMITTEE MEETING

CANADA-NEWFOUNDLAND
AGREEMENT ON WATER QUANTITY SURVEYS

ANNUAL CO-ORDINATORS MEETING

ST. JOHN'S, NEWFOUNDLAND
10:00 A.M., MAY 4, 1998

Minutes

The co-ordinating committee for the Canada-Newfoundland & Labrador Cost Sharing Agreement on Water Quantity Surveys, met on May 4, 1998 at the Provincial Department of Environment and Labour, Water Resources Division, 4th floor, West Block, Confederation Building, in St. John's, Newfoundland. In attendance were the following:

M. Goebel	Prov. Water Resources Div.	St. John's
H. Khan	Prov. Water Resources Div.	St. John's
J. Merrick	AEB Environmental Monitoring	Bedford
B. Brimley	AEB Environmental Monitoring	Bedford
C. Baker	AEB Environmental Monitoring	St. John's
K. Rollings	Prov. Water Resources Div.	St. John's

The following is an overview of discussions and decisions.

1. **Introductory Remarks**

John presented an overview of staff changes within AEB during the past year and outlined the present structure.
John Merrick - Manager of Environmental Monitoring
Bill Brimley - Hydrologist, with the water program
There is no downsizing or cutbacks in the hydrometric program on the horizon, with the budget relatively safe.

Bill was welcomed to the team and he gave a brief history of his previous hydrology related activities. His professional qualifications in the Engineering / Hydrology field will be a positive influence on the water program.

Martin indicated that there was a provincial commitment to the water program and views the three year planning strategy or Business Plan by the Provincial Government, providing a clear agenda, resulting in stability and maintaining the status quo. When asked about the provincial relationship with other national water administrators, Martin indicated that 90% of their planning and general operational strategy relating to the administration of the provincial agreement is in conjunction with the EC office in St. John's.

Executive changes:
Martin Goebel - Director, Water Resources Management Division
Leslie Gratton - DM
Ann-Marie Hann - ADM
Note: Update....
Deputy Minister Leslie Gratton has been assigned to a senior committee dealing with the Churchill River power development. She has been replaced by the ADM, Ann Marie Hann. The position of ADM of Environment is now assigned to Ken Dominie who had been the Director of Pollution Prevention. These assignments start May 11 and are effective to December 1998 or later.

Martin is the Administrator for the Province for the Canada-Newfoundland & Labrador Agreement.

2. Review of Balance of Payments

The Summary of Annual Cost and Payments were reviewed showing a credit to the province, for 1996-97, of $24,677. This net total, since 1975, was credited to the Province in the digital instrumentation of 3 Provincial stations as part of the national program of network modernization and the elimination of mercury manometers from the environment.

3. Review of 1997-98

Staffing changes in the water program was significant during the past year. Two staff members from the Corner Brook office have moved to New Brunswick and Nova Scotia. Paul Noseworthy, hydrometric supervisor, assumed new supervisory duties in Fredericton and Bill Mullins, hydrometric technologist, relocated to Bedford. The office in Corner Brook is now staffed by Mr. Brent Ruth. (A staff change from 4 in 1995) St. John's has a staff of 2 technologists and 1 area manager.

The St. John's office co-located with the rest of Environment Canada and is now at
6 Bruce Street
Donovans Industrial Park
Mount Pearl, NF
A1E 4W5

Modernization: During the year, 19 stations were modernized with digital data loggers with emphases on replacing mercury manometers. There are only 4 manometers left in the network. Plans are to have the entire hydrometric network modernized by the end of 1998 with approximately 80-90% reporting in real time. Most of the instrumentation was purchased during the last fiscal year stemming from a strong Business Case outlining the necessity of upgrading to digital data in order to maintain the present network and venture into commercial activity.

4. Review of Schedule "A" for 1998-99

Hydrometric: The number of stations in the network for 1997-98 was 69. This number will drop to 65 for 1998-99. A revised Schedule was presented. Grey River will be deleted from the schedule as a Federal station since it will be partially funded by NF & Lab Hydro., hence, treated as a commercial station. It was, however, decided to operate the station year round in the interest of maintaining the long term data base. This will cost approximately 1 hour flying time ($1000)

In April 1997, a letter was sent to data users, informing them of the decision to close 20 stations due to budget restraints. Several letters of concern were received detailing the impact this would have on their operation, however, they had no funds to contribute for their continued operation. The stations were closed with data published for 1997 up until the instruments were removed.

5. Climate Network

Ken Rollings joined the meeting.

In the interest of new members of the committee Ken gave an overview of the program and distributed background information on the Network. Please refer to detailed minutes prepared by Ken.

6. Commercial Activity

Mining activity in Voisey's Bay, potential hydro development on the island and in Labrador, requirement for minimum flows to maintain habitat and other miscellaneous projects have resulted in considerable commercial activity. Currently there are 11 rivers monitored under contract. Newfoundland & Labrador Hydro. (3), Voiseys Bay Nickel (6), Kamistastin Hydro (1), Heritage Canada (1). With the ongoing environmental assessment requirements at Voisey's Bay another 3 sites are anticipated for 1998. Assessment of the Upper and Lower Churchill River power developments is projected to result in another 5 stations.

Revenue for 1997 was used to purchase field instrumentation and office computers for modernization of the network. A copy of Revenue Generating Contracts was distributed.

7. Major Maintenance for 1998-99

Priority will be given to safety requirements in upgrading cableways for 1998. The Cableway at Lewasseechjeech Brook is scheduled for repairs with the replacement of the fiber core cable with a steel core cable along with new anchorage's. Major maintenance will be at a minimum this year due to other projects such as modernization and new contract stations.

8. Operational Cost Estimates

The operational cost estimates for 1997-98 and 1998-99 were reviewed and agreed upon by both parties. The actual amount spent for 1997-98 was within $3,950 of the estimated total of $343,986. In addition to this operational cost, the federal government purchased $235,000 worth of instrumentation and office computers for use in modernizing the Newfoundland & Labrador network. Haseen suggested that the Schedule D be revised to properly reflect the 2 prepayment credits of $20,000 and $12,000. 20K was applied to the operational cost and 12K was applied towards the provincal share of modernization. Concern was raised about potential budgeting problems if prepayments substantially increased. Haseen assured that the present prepayment amount would be the maximum.
A revised Schedule D will be submitted.

9. Other

There was no representative at the meeting from ECB, Water Quality. Environmental Monitoring continues to support the Water Quality Sampling Program by sampling selected stations on regular station visits. Three stations are visited monthly.