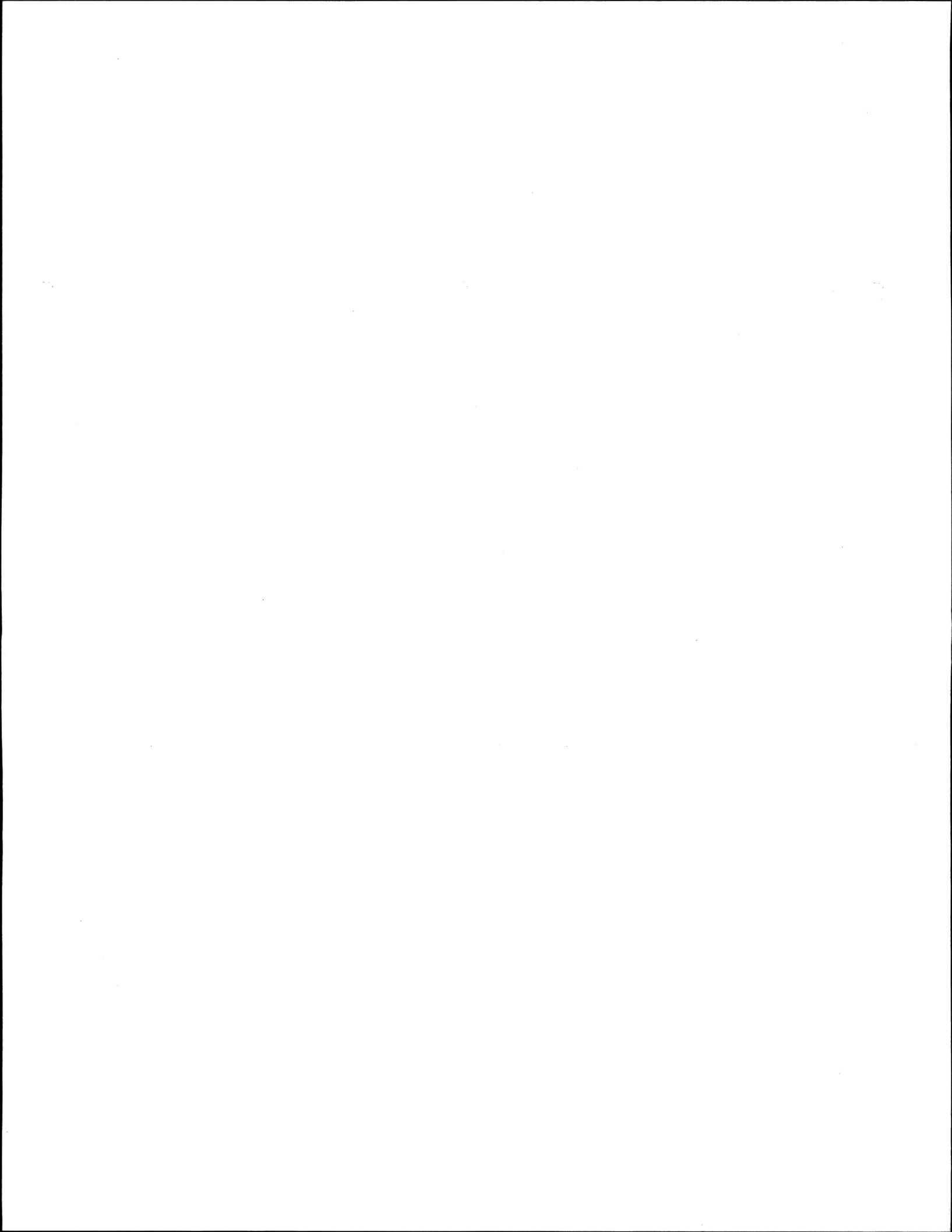


CANADA – ALBERTA
MEMORANDUM OF AGREEMENT
FOR
WATER QUANTITY SURVEYS

REPORT for FISCAL YEAR
2009 – 2010

February 2011



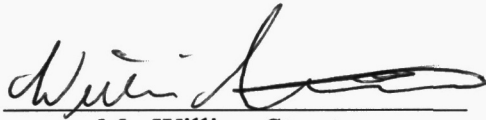
CANADA – ALBERTA
2009 – 2010 Memorandum of Agreement for Water Quantity Surveys

TO: Ms. Christine Best
Administrator for Canada

Mr. Tom Dickson
Administrator for Alberta

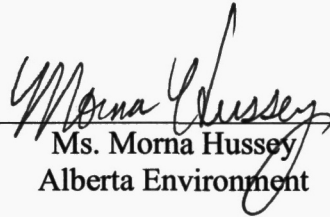
We hereby submit the annual report for the fiscal year 2009 – 2010 covering activities under the Memorandum of Agreement for Water Quantity Surveys for the Province of Alberta.

Government of Canada



Mr. William Streeton
Environment Canada

Province of Alberta



Ms. Morna Hussey
Alberta Environment

Members
Alberta Coordinating Committee

February 8 2011

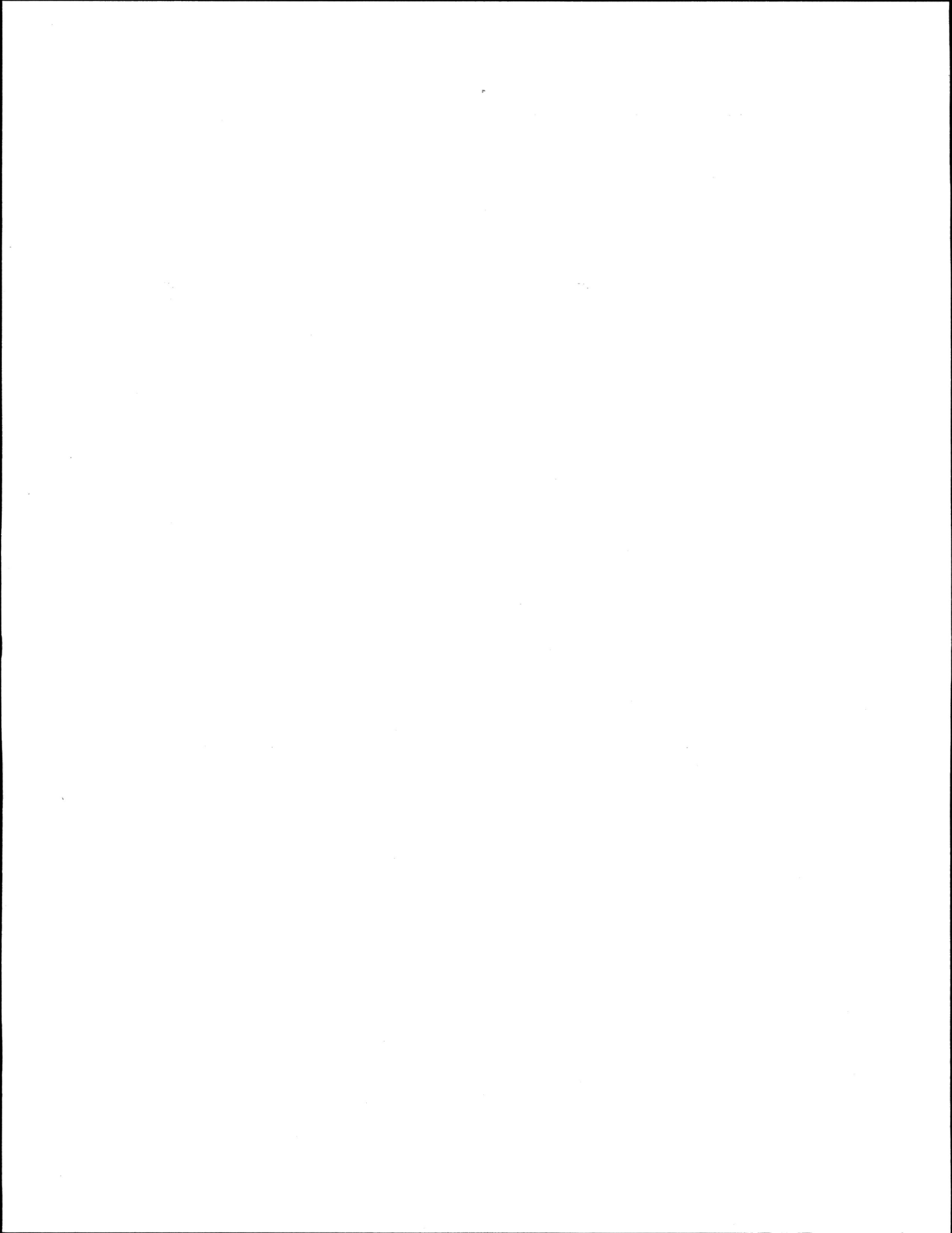
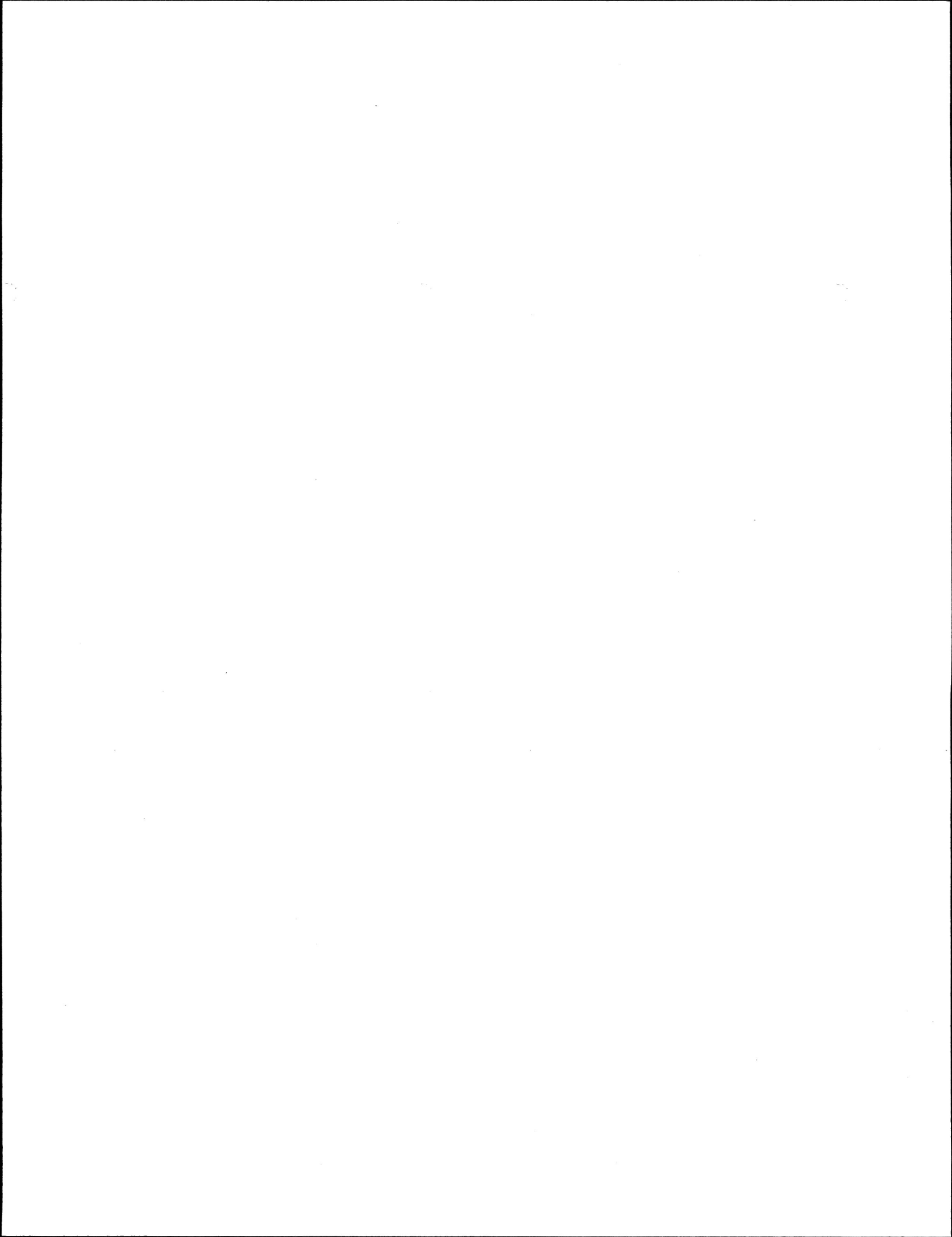


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1.0 INTRODUCTION

To date twenty six reports summarizing the activities of the water quantity surveys in the Province of Alberta have been submitted to the Administrators of the Canada – Alberta Water Quantity Surveys in accordance with Article XII of the 1975 Memorandum of Agreement. The last report was submitted March 2010 for the fiscal year 2008 – 2009

In 1975, Canada and Alberta signed the Canada – Alberta Memorandum of Agreement for Water Quantity Surveys thus harmonizing the collection, processing, publication and distribution of Hydrometric data for Alberta. In the same year, similar agreements were signed with all provinces and with Indian and Northern Affairs Canada on behalf of the Territories. These agreements have provided the basis for the development of a standardized national archive of data and information on the availability and variability of surface water within Canada.

The evolution of the needs, monitoring approaches, and mandates since 1975 have created the need for the renewal of the 1975 agreements. The new Agreements have been negotiated to ensure that the parties are provided with an effective and efficient Hydrometric monitoring service that supports public health and safety, economic development and the sustainability of our natural environment.

In 2008 – 2009, discussions concluded with the parties agreeing to the terms of the new Bilateral Agreement. Canada has signed off on the Bilateral and the document is currently in the process of being signed off by Alberta. This is a correction to the information inadvertently reported in the 2008 – 2009 report, where it was noted that the Bilateral had been signed off by both parties. As with the reports dating back to the late nineties while discussions were taking place on the new Agreement, the twenty-seventh report for the fiscal year 2009 – 2010, has been prepared in accordance with the recommended changes to Schedule B of the new Agreement. Schedule B of the new Agreement describes the procedures for determining and distributing shareable costs.

The 2009 – 2010 report contains a brief summary of the year in review and highlights from the coordinator meetings held June 1, November 5, 2009, and April 15, 2010. Network status and operational costs incurred for hydrometric and specific project activities are also discussed in relation to the Schedule D Annual Payment estimates determined for 2009 – 2010. The historical cumulative summary and table of Alberta Environment payments is included in Section 3.0, while the historical network development dating back to the early 1900's is illustrated in the final section of this report.

In addition, the Appendices to this report include Schedule C, a station listing for 2009 – 2010; Schedule D, Annual Payment Details 2009 – 2010; Schedule D, Annual Payment Estimates 2009 – 2010; Schedule D, Annual Payment Estimates 2010 – 2011; Project Details 2009 – 2010.

CANADA – ALBERTA
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Appendix B, Annual Payment Details 2009 – 2010 includes tables with percentage comparisons to the estimates.

The 2009 – 2010 Alberta hydrometric program total gross expenditures were \$4,298,206. Canada's calculated share is \$1,752,082 while Alberta Environment's is \$2,546,123.

2.0 SUMMARY of OPERATIONAL CONSIDERATIONS

2.1 Year in Review

A cool spring throughout most of Alberta brought on a relatively uneventful spring run-off. In the eastern part of the province (Medicine Hat to Cold Lake) a number of creeks experienced dry or low flow conditions by early June. July extreme weather events resulted in the Peace River operations experiencing some high flows.

A Quality Assurance Program (QAP) Audit that included nine (9) Water Survey of Canada and three (3) Alberta Environment operated stations was completed. The office audit included 2007 published data while the field audit included stations from the 2009 – 2010 Schedule C. The hydrometric gauging stations visited during this audit were all found to be functioning and the deficiencies found did not compromise the quality of the hydrometric data. Overall, the quality of the office computations and documentation were acceptable. However, deficiencies in the process were found and documented, along with suggested improvements to the office process that will likely reduce the time required to compute and review the data for each site.

Partnership budget constraints and Environment Canada's shortage of experienced staff resulted in the station decommissioning and network expansion files being placed on hold for 2009 – 2010.

2.2 Coordinator Meeting Highlights

The Canada – Alberta Coordinating Committee met on June 01 2009, November 05 2009, and April 14 2010. Alberta was represented by Kendall Tupker and Morna Hussey of Alberta Environment while Canada's representatives were Russell Boals and Bill Streeton of Environment Canada. Mr. Tom Dickson, Alberta Administrator participated in the June 1, 2009 meeting.

Alberta Environment informed the committee that there are budget concerns and as a result would mean significant cutbacks to groundwater, air, surface water quality and land monitoring, however the funds outlined in Schedule D estimates have been approved.

Coordinators presented the 2009 – 2010 Schedule D estimates to the Administrators for their approval for an estimated gross expenditure of \$4,126,527. The estimated share for Canada is \$1,879,786 (includes Alberta anticipated credits of \$132,383) for program work while Alberta Environment net share is \$2,246,742. The Alberta net share includes anticipated credits (\$132,383) for operating the Federal network in the Peace Athabasca Delta, their direct costs for 2009 – 2010 hydrometric program operations support and Christina Lake operations.

No decision has been made regarding the station infrastructure built as part of the 2007 Alberta Environment expansion program. The majority of the sites have shelters but no monitoring equipment was deployed. Consideration will be given to redeploying the

monitoring equipment to other provincially funded stations if the new stations are not activated.

The Water Survey of Canada (WSC) will be proceeding with its mandate to produce standardized five minute data on the web within the next two to three years. Coordinators were informed that there are two jurisdictions within the Prairie and Northern Region that are currently on line (June 2010) and that Alberta is considering running a pilot with the Ft McMurray stations. There were discussions regarding the potential data conflicts with the WSC and Alberta Environment both producing real time flows.

Canada presented a status report on the High Data Rate transmitter conversion project. 2013 is the date set by the National Oceanic Atmospheric Administration (NOAA) where all GOES transmitters must meet the minimum standard of a transmission rate of 300 baud. Alberta has forty (40) more sites to convert as of March 2010 and should meet the NOAA deadline.

Coordinators held discussions on the 2010 – 2011 Schedule C. Seven stations were identified that Alberta Environment (AENV) will take over operations of; as well, AENV identified eleven stations for potential closure in addition to those already identified.

Coordinators were briefed on the Quality Assurance Program (QAP) Audit carried out on nine (9) Water Survey of Canada and three (3) Alberta Environment operated stations. The office audit included 2007 published data while the field audit included stations from the 2009 – 2010 Schedule C. Audit participants included staff from Water Survey of Canada Calgary and Regina; Alberta Environment and Trans Alta Utilities.

Coordinators were briefed on the human resource issues both parties encountered in 2009 – 2010 as well as future challenges. Alberta Environment, due to hiring freezes, has put the Fort Chipewyan succession plans on hold. The Peace River vacancy was filled in July while four (4) vacancies were filled at various times over the year in the Calgary operations. The WSC operations have received approval to conduct an Alberta Hydrometric based recruitment competition. They also anticipate utilizing the National recruitment competition lists for future vacancies. Both competitions are open to all Canadians with the National posting used to staff vacancies throughout the country while the Alberta process is restricted to staffing only Alberta WSC vacancies.

Coordinators were provided a short briefing on the status of the assessment of potential contamination from stilling wells that were constructed with materials containing creosote. This is a national initiative, potentially involving approximately four hundred fifty (450) sites, 50% of which may be in Alberta. A standard set of protocols and sampling schedule, for assessment only at approximately 10% of the sites, has been developed for the next three years.

Network

The Canada – Alberta Hydrometric Agreement includes three hundred and ninety eight (398) hydrometric, four (4) sediment monitoring stations operated by the Alberta Water Survey Division, and ten (10) hydrometric monitoring stations operated by Alberta Environment during 2009 – 2010. Two (2) of the Federal stations operated by Canada are located in Saskatchewan and four (4) international stations are located in Montana.

In addition to the stations operated by Canada and Alberta Environment, Water Survey Division Northwest Territories / Nunavut operated two (2) stations in northern Alberta while Water Survey Division Saskatchewan operated nine (9) stations in southeastern Alberta. Alberta Environment contributed data from thirty six (36) stations to the National Archive while Trans Alta Utilities and the City of Calgary contributed eighteen (18) and one (1) respectively for a total network size to 474 hydrometric stations.

The changes from the 2008 – 2009 Schedule C effective April 1 2009 are:

- i. Discontinued Oldman River near Waldron's Corner, FP3, 05AA023
- ii. Discontinued McGregor Travers Canal near Champion, P1, 05AC025
- iii. Addition Oldman River at Range Road 13A, FP3, 05AA035
- iv. Addition Shorncliffe Lake near Czar, 8QN P1, 05FD007
- v. Addition Fawcett River at Outlet Fawcett Lake, 12QN P1, 07BK012
- vi. Operating period change Fawcett Lake near Smith, 07BK008, P1 8HN to 12HN
- vii. Operating period change North Saskatchewan River at Highway #759, 05DE010, P1 12QN to 8QN
- viii. Sturgeon River at St Albert, 05EA002, P1 12QN to 8QN

As a result of the above changes the station unit total from 2008 - 2009 Schedule C increased from 313.050 to 313.700 units for 2009 - 2010. This station unit count was corrected for a 0.400 error found during the validation process in the preparation of this report. The Schedule D estimates were based on 313.300 station units.

A detailed listing of the stations is included in Schedule C 2009 – 2010, APPENDIX A.

3.0 COST OF OPERATION

3.1 Operations

The 2009 – 2010 gross program expenditure is \$4,298,206 where Canada's share is calculated at \$1,752,082 and Alberta Environment's share is \$2,546,123. The gross program expenditure is approximately 4% higher than the Schedule D estimates. The Provincial share for Alberta was approximately 7% above the Schedule D estimates while Canada's share was balanced.

The balanced share for Canada is somewhat misleading; as there was \$99,618 estimated for decommission activities. With no work on this file taking place, no disbursements were made. Excluding the \$99,618 from the estimates would bring Canada to 7% above

their estimated gross expenditure which is in line with that of Alberta Environment. There are a number of factors that contributed to these percentages.

The percentage expenditure above the Schedule D estimates is generally attributed to four areas; salary and O&M unit costing, capital equipment depreciation, and Life Cycle Management (LCM) for flow monitoring equipment.

In preparation of the estimates, station unit calculation, one twelve month normal access stage station (12HN) was inadvertently omitted from the summation. This error (0.400 units) was corrected and included in the calculations for this report. The omitted units were from the P1 designation but effect the unit cost calculations.

The salary disbursements for 2009 – 2010 impacted all three areas of Schedule D calculations; Direct Operations, Indirect Operations, and Projects. The unit cost calculation for salary is approximately 5% above the Schedule D estimates. The human resource shortages resulted in an increase over the Schedule D estimated overtime disbursements in both the Direct and Indirect calculations; however this was offset in the Direct Operations by not having incurred salaries for the employee shortages. The primary factor for the increased salaries can be attributed to the human resource contract settlement for technical staff. The Schedule D estimates included an appropriate estimated increase in annual staff disbursements however; no allowance was included in the estimates for the retroactive settlement that was part of the contractual agreement.

The Direct Operations O&M unit costs are approximately 3% higher than the Schedule D estimates. The factors that contributed to this are; the under estimated public utilities and communications accounts, increase in travel expenditure (direct impact from the significant staff turnover rates), and the increase in gauge reader land lease fees.

The unit O&M cost was reduced somewhat by transferring the expenditures for the purchase of GOES High Data Rate transmitters to the LCM section. The transfer of disbursements between Direct, Indirect, and Projects, has no overall effect with respect to where they are placed with the exception of LCM (civil works /construction) projects as all costing is based on the partnership unit share. The GOES HDR purchase was placed in the LCM section for continuity with previous reports.

Capital equipment depreciation was another contributing factor to the Direct Operations unit costing. Service vehicles are purchased with capital funding and these costs are recovered with straight line depreciation over an eighty four (84) month time frame. Historically on average two and one half ($2^{1/2}$) vehicles a year replace depreciated units and these new purchases are included in the depreciation table. Canada had access to additional funds and took the opportunity to purchase five (5) units and bring the field fleet to current industry standards. The impact of this purchase was an increase to the depreciation line by approximately 13% above the Schedule D estimates.

Project expenditures are 6% above the Schedule D estimates with the percentages being directly impacted by the non-activity on the decommission file noted earlier in this section and discussed in more detail in Project section 3.2.

Alberta Environment net share of the program expenditures is \$2,409,487 which is approximately 7.0% or \$162,745 higher than the Schedule D estimates of \$2,246,742.

The Alberta Environment net share includes total credits (\$136,636) for operating the Federal network in the Peace Athabasca Delta (\$121,864), their direct costs incurred for 2009 – 2010 hydrometric program operations (\$3,976) and Christina Lake operations (\$10,797).

Details of the 2009 – 2010 expenditures are included in Appendix B; Table 3.1.1 summarizes these expenditures; and Table 3.1.2 is the Alberta Environment quarterly payment listing. Appendix B has been expanded from previous year's reports to include tables with a comparison to the actual versus the Schedule D estimates.

CANADA – ALBERTA
2009 – 2010 Memorandum of Agreement for Water Quantity Surveys

Table 3.1.1

Schedule D

Contributions By Parties
Canada - Alberta Agreement on Hydrometric Monitoring
Fiscal Year 2009 - 2010

<u>TYPE OF EXPENDITURE</u>	<u>Stations</u>	<u>Expenditure</u>	<u>SHARE</u>	
			<u>FEDERAL</u>	<u>PROVINCIAL</u>
Direct Operations				
Hydrometric Network Operated by WSC	398	\$2,975,043	\$1,189,586	\$1,785,457
Hydrometric Equipment Depreciation		\$141,626	\$56,630	\$84,996
Full Program Sediment Stations	4	\$30,177	\$5,029	\$25,147
Sediment Equipment Depreciation		\$0	\$0	\$0
Sub Total		\$3,146,846	\$1,251,245	\$1,895,600
Indirect Operations				
Hydrometric Network Operated by WSC	398	\$489,024	\$195,539	\$293,486
Full Program Sediment Stations	4	\$4,960	\$827	\$4,134
Sub Total		\$493,985	\$196,366	\$297,619
Projects				
Life Cycle Management	73	\$623,940	\$282,305	\$341,635
Cableway Upgrades	9	\$33,435	\$22,167	\$11,269
Station Decommissioning				
Network Expansion				
Sub Total		\$657,375	\$304,471	\$352,904
TOTAL		\$4,298,206	\$1,752,082	\$2,546,123

ALBERTA GROSS SHARE: \$2,546,123

ALBERTA CREDITS:

a) Direct Operation cost (PAD)	
Hydrometric stations	(\$100,589)
Hydrometric Depreciation	(\$4,740)
b) Indirect Operation cost (PAD)	(\$16,534)
c) Direct Costs Water Sciences $((\$5,000 \times (123.950 + .750)) / 313.700)$	(\$1,988)
d) Direct Costs Monitoring $((\$5000 \times 123.950 + .750)) / 313.700)$	(\$1,988)
d) Christina Lake January - December	(\$10,797)
TOTAL	(\$136,636)

ALBERTA NET SHARE: Alberta Gross Share - ALBERTA CREDIT \$2,409,487

Schedule D payment received by Canada 2009 - 2010 **\$2,246,742**

BALANCE (\$162,745)

Table 3.1.2
 Alberta Environment Payments

2009 - 2010 Invoice Details				
Client	Invoice			
	Number	Date	Service	Total
Alberta Environment	80520687	July 8 2009	1st Quarter billing	\$561,700.00
Alberta Environment	80520934	November 5 2009	2nd Quarter billing	\$561,700.00
Alberta Environment	80521005	January 13 2010	3rd Quarter billing	\$561,700.00
Alberta Environment	80521074	March 5 2010	4th Quarter billing	\$561,642.00
				\$2,246,742.00

3.2 Projects

The project section of Table 3.1.1 includes 2 components of the Life Cycle Management (LCM) line total (\$623,940). One component relates to civil works to gauging stations (i.e. construction and maintenance including salaries totaling \$441,546) while the second component of this line relates to gauging station instruments and flow monitoring equipment purchased as part of the LCM for field related equipment (totaling (\$182,394). The cableway line total (\$33,435) in Table 3.1.1 relates to cableway civil works including but not limited to components, infrastructure and design. All projects include a salary component.

3.2.1 Life Cycle Management

Seventy three (73) Life Cycle Management projects were completed during 2009 – 2010. The completed projects represent approximately 60% of the planned project list.

The major focus of the project list was addressing Occupational Safety and Health issues and bringing a number of stations to current labour and electrical standards. Station work included, installing nineteen (19) fall arrest systems; twenty one (21) ground fault interrupter breakers (GFI); addressing a serious erosion and sink hole issue in the area of one (1) gauging station; rodent infestation at two stations (2) and miscellaneous intake and heat tape issues at a number of other stations. The Peace River area received the largest portion of the fall arrest and GFI installations.

The LCM project expenditure (gauging station civil works as noted above) is \$441,546 which is approximately 17.4% more than the estimated. Canada's share is 36.5% while Alberta's is approximately 5.9%. The total expenditure (\$441,546) includes the salary component minus the salaries expended on cableway projects. Alberta's percentage difference is, for the most part salary related as noted above in section 3.1.1 while Canada's difference from estimate is due in part to salary and project priority adjustments.

The second component of the LCM total expenditure in Table 3.1.1 includes purchases (\$155,359) for gauging station data loggers, High Data Rate (HDR) transmitters and monitoring flow trackers that are included as shared, as well, Canada purchased a Hornet (\$27,035) to be used on bank operated cableway.

The data logger and HDR portion (\$72,378) of the gauging station instrumentation was included in the unit Direct Operations O&M estimates with the \$82,981 balance (\$155,359 - \$72,378) being the flow tracker expenditures. The flow trackers were purchased when an opportunity to access additional funds became available late in the fiscal year.

Additional details on the LCM construction projects are included in Appendix E, 2009 – 2010 Projects.

3.2.2 Cableways

Nine (9) cableway projects were included in this activity. Two major Federal projects, North Saskatchewan at Whirl Pool Point and the St. Mary River at the International Boundary were for the most part pushed back to 2010 – 2011. There was limited work on the planning end as well as the pre-purchase of components. Two Federal Provincial (FP) Bank Operated Cableways (BOC) were re-scheduled to 2010 – 2011 and replaced with pre-purchase of material for the Clear River above Bear Canyon BOC which will also move forward in 2010 - 2011.

These delays resulted in cableway project expenditures being well under the Schedule D estimates.

Additional details on the cableway projects are included in Appendix E, 2009 – 2010 Projects.

3.2.3 Decommission

As with 2008 – 2009, Alberta Environment did not receive budget funds for decommission activities in 2009 – 2010. Canada allocated \$99,618 however they were unable to make any progress on this file.

At the end of 2007 – 2008 there were an estimated fifty four (54) sites remaining to be decommissioned. Once the resource issues are sorted out, the project will continue and a full accounting with respective partner shares will be provided at that time. Table 3.2.3 is a project summary table as of 2009 – 2010 and included with the report to ensure a tracking process once the file returns to active mode.

Table 3.2.3
 Decommission Project Summary
 2009 – 2010

<u>FISCAL YEAR</u>	<u>PROJECTS</u>	<u>SHARE</u>		<u>TOTAL</u>
		<u>FEDERAL</u>	<u>PROVINCIAL</u>	
2004 - 2005		\$11,835	\$14,202	\$26,037
2005 - 2006	89	\$87,062	\$15,211	\$102,273
2006 - 2007	126	\$98,651	\$28,000	\$126,651
2007 - 2008	23	\$155,664	\$84,100	\$239,764
2008 - 2009	0	\$0	\$0	\$0
2009 - 2010	0	\$0	\$0	\$0
TOTAL	238	\$353,212	\$141,513	\$494,725

3.3 Provincial Variance

Table 3.3.1 includes the Alberta Environment historical summary of annual over and under payments for their financial share of the hydrometric monitoring program. Ending fiscal year 2009 – 2010 Alberta Environment is carrying a deficit of \$100,725.

Table 3.3.1
Historical Provincial Variance
**CUMULATIVE PROVINCIAL OVER OR UNDERPAYMENT
OF AGREEMENT OPERATION COSTS**

Year	Share	Annual Payment	Overpayment (Underpayment)	Cumulative (under) / over	% of Annual Payment
1975-76	197,852	197,400	(452)	(452)	(0.23)
1976-77	231,000	231,000	-	(452)	-
1977-78	247,430	240,000	(7,430)	(7,882)	(3.10)
1978-79	267,055	260,000	(7,055)	(14,937)	(2.71)
1979-80	353,768	370,000	16,232	1,295	4.39
1980-81	423,906	390,000	(33,906)	(32,611)	(8.69)
1981-82	556,741	568,240	11,499	(21,112)	2.02
1982-83	747,352	747,352	-	(21,112)	-
1983-84	812,593	796,033	(16,560)	(37,672)	(2.08)
1984-85	935,664	933,500	(2,164)	(39,836)	(0.23)
1985-86	917,865	927,000	9,135	(30,701)	0.99
1986-87	962,413	962,700	287	(30,414)	0.03
1987-88	819,624	830,579	10,955	(19,459)	1.32
1988-89	868,131	856,000	(12,131)	(31,590)	(1.42)
1989-90	922,430	920,000	(2,430)	(34,020)	(0.26)
1990-91	1,002,759	1,008,350	5,591	(28,429)	0.55
1991-92	957,200	995,600	38,400	9,971	3.86
1992-93	1,030,991	1,062,600	31,609	41,580	2.97
*1993-94	-	(30,149)	(30,149)	11,431	-
1993-94	1,050,459	1,048,000	(2,459)	8,972	(0.23)
1994-95	956,377	964,400	8,023	16,995	0.83
1995-96	887,014	964,400	69,181	86,176	7.17
1996-97	925,700	940,000	30,202	116,378	3.21
**1997-98	971,691	940,000	(31,691)	116,378	(3.37)
**1998-99	950,484	940,000	(10,484)	116,378	(1.12)
**1999-00	943,647	943,943	296	116,378	0.03
2000-01	1,167,191	1,148,934	(18,257)	98,121	(1.59)
2001-02	1,174,758	1,181,417	6,659	104,780	0.56
2002-03	1,234,433	1,235,101	668	105,448	0.05
2003-04	1,870,602	1,862,243	(8,359)	97,089	(0.45)
2004-05	2,529,997	2,411,348	(118,649)	(21,560)	(4.92)
2005-06	2,598,177	2,772,776	174,599	153,039	6.30
***2006-07	2,336,605	2,408,435	71,830	71,830	2.98
2007-08	2,372,758	2,301,429	(71,329)	501	(3.10)
2008-09	2,208,454	2,269,973	61,519	62,020	2.71
2009-10	2,409,487	2,246,742	(162,745)	(100,725)	(7.24)

*Credit to Alberta for overpayment in 1992-93

**Letter of Agreement 0 Variance

*** credit balance 2005 - 06 zeroed in Schedule D calculations

4.0 HISTORICAL NETWORK DEVELOPMENT

The Canada – Alberta Hydrometric Agreement was signed in 1975 – 1976 when four hundred and twenty three (423) hydrometric stations were assigned a designation and it was agreed the Water Survey of Canada would operate three hundred and eighty three (383) in a partnership with Alberta Environment. During the thirty five years of partnership cooperation in the Canada - Alberta Agreement, very significant changes to the Alberta network were made which can be summarized as; 285 stations established, 271 stations discontinued, and 223 stations re-designated.

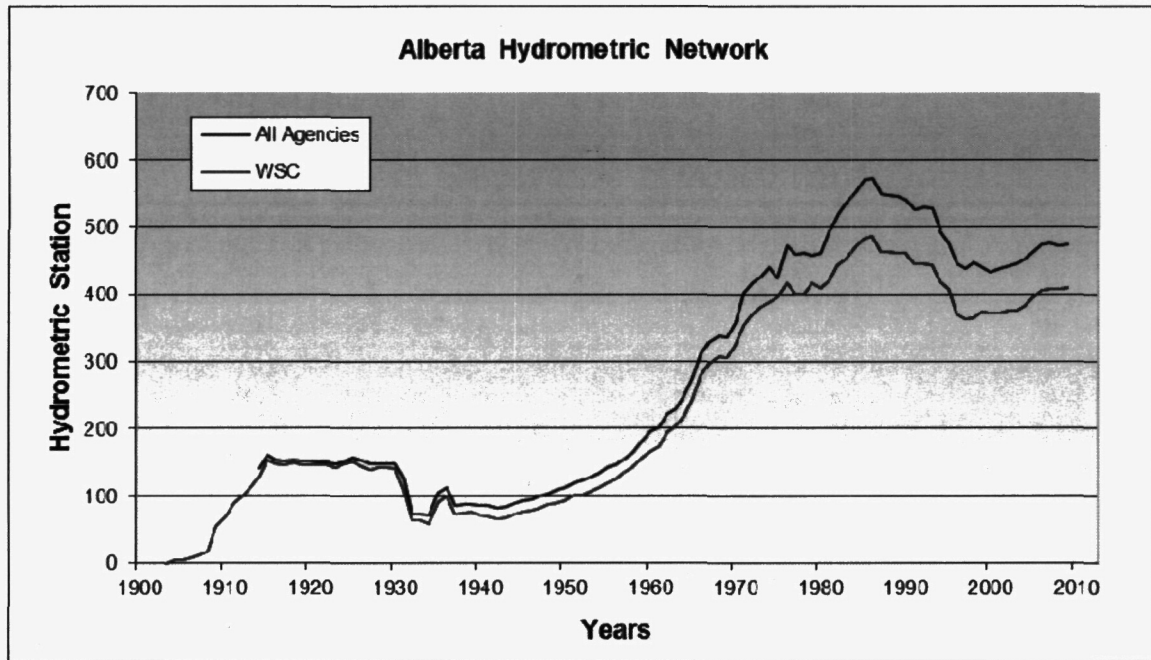
The history of the size of the hydrometric network in Alberta, which includes hydrometric stations operated by Water Survey of Canada (Alberta, Saskatchewan and Northwest Territories – Nunavut), Alberta Environment, Trans Alta Utilities and the City of Calgary, is illustrated in Figure 4.1.

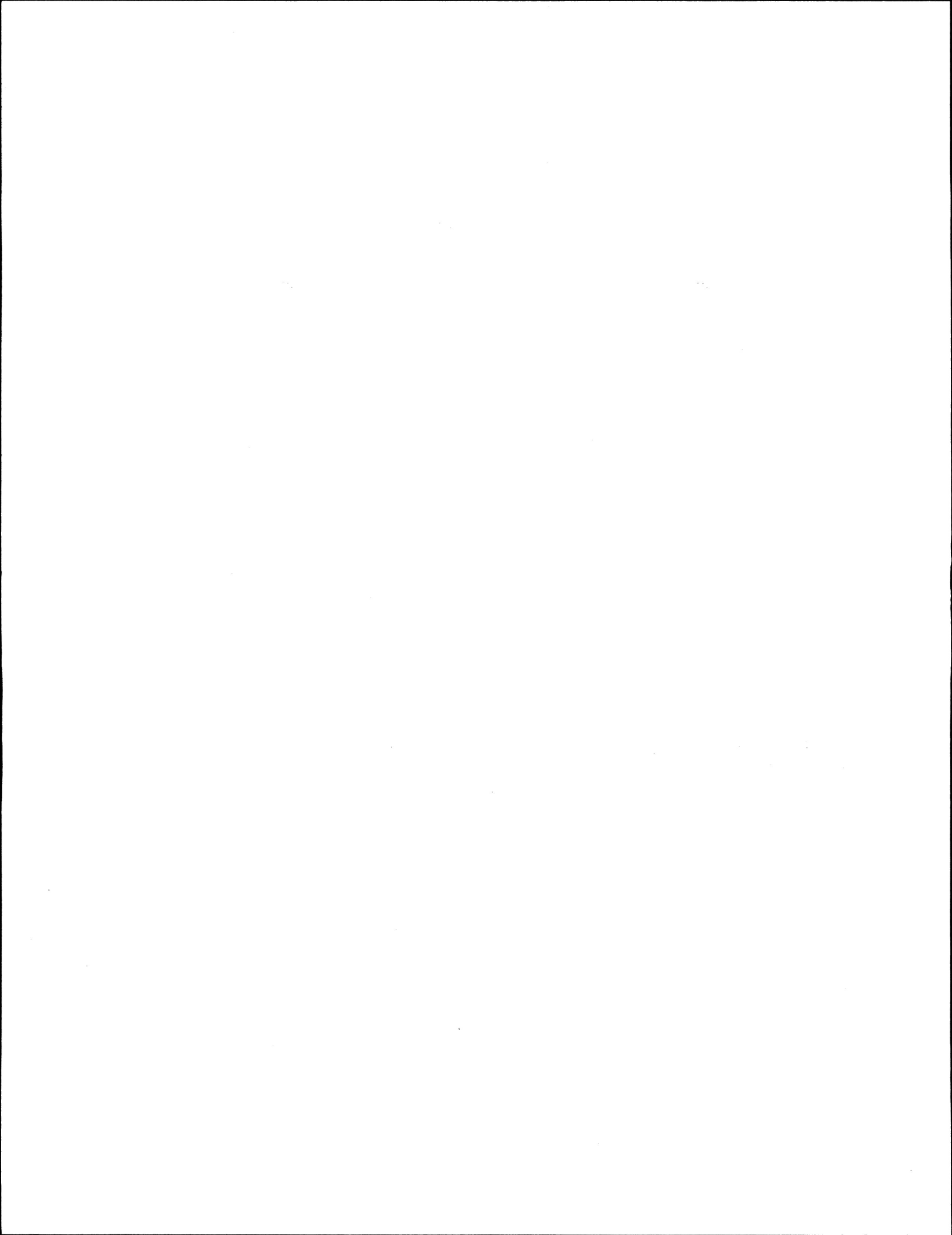
In terms of the current era, it can be seen that the hydrometric network increased rapidly from the mid 1950's until the signing of the agreement in 1975. The stations operated in the hydrometric agreement steadily rose from 1975 to a peak of 573 in 1986 – 1987. After this point in time, resource support, first by Alberta and then by the Federal Government, resulted in a reduction of the number of stations operated in the agreement. Particularly large numbers of stations were discontinued in 1990 – 1991 (17), 1993 – 1994 (26) and 1995 – 1996 (39), until the network bottomed out in 2000 at 432 stations. During the five year period from 1992 to 1997 the station designation changes almost doubled with 92 occurring in the period 1996 to 1997.

Since 2000 the partner's stabilization of resource bases combined with the introduction of operational efficiencies has allowed for some growth in the network. The 2009 – 2010 network size currently includes 474 stations. The most significant changes have occurred since 2003 – 2004 with the introduction of Alberta's capital investment plan being included in their "Water for Life Strategy".

The Alberta "Water for Life Strategy" was on a path for considerable additions to the network however, the impacts from the 2008 – 2009 global recession effected funding and as a result the network expansion was placed on hold and the provincial network reduced in size as noted in the Coordinator discussions section regarding the potential for station re-distributions.

Figure 4.1
Historical Hydrometric Development





APPENDIX A

Schedule C

2009 – 2010

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX A – Schedule C 2009 – 2010

Legend

<u>Station Unit</u>	<u>Classification</u>	<u>Symbol</u>	<u>Station Unit Factor</u>
Normal Access		N	
Remote Access		R	
Flow Station		Q	
Water Level Station		H	
Number of months of operation		Numeric	
	12QN		1.00
	12QR		1.80
	8QN		0.75
	8QR		1.50
	12HN		0.40
	12HR		1.10
	8HN		0.25
	8HR		0.95
<u>Designation and Operating Responsibilities</u>			
Federal Station		F	
Provincial Station		P	
Federal - Provincial Station		FP	
Contributed Alberta Environment		C-AENV	
Contributed Trans Alta Utilities		C-TAU	
Contributed City of Calgary		C-CITY	
Water Survey Division Alberta		WSCAB	
Water Survey Division Saskatchewan		WSCSK	
Alberta Environment		AENV	
Trans Alta Utilities		TAU	
City of Calgary		CITY	
Located in Saskatchewan operated by WSCAB		Station Name with *	
Located in Montana		Station Name with#	
Northwest Territories / Nunavut		NT/NU	
Note: The station units for stations operated by Yellowknife and Saskatchewan are not counted in the station unit summaries			

Schedule C Summary of Station Units

Water Survey Division Operated Units

	<u>Hydrometric</u>	<u>Sediment</u>	<u>Total</u>
Federal	123.425	0.525	123.950
Provincial	186.375	2.625	189.000
Commercial	0.750		0.750
Total	310.550	3.150	313.700

Alberta Environment Operated Units

	<u>Hydrometric</u>	<u>Sediment</u>	<u>Total</u>
Federal	10.500	0.000	10.500
Provincial	19.300	0.000	19.300
Commercial	0.400	0.000	0.400
Total	30.200	0.000	30.200

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1.0 Operated by Calgary WSC

1.1 Hydrometric Units

1.1.1 Federal Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12QN	24	1.00	24.00
12QR	1	1.80	1.80
8QN	36	0.75	27.00
8QR	1	1.50	1.50
12HN	6	0.40	2.40
12HR	0	1.10	0.00
8HN	0	0.25	0.00
8HR	0	0.95	0.00
Total	68		56.70

1.1.2 Federal - Provincial Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12QN	34	1.00	34.00
12QR	1	1.80	1.80
8QN	105	0.75	78.75
8QR	11	1.50	16.50
12HN	3	0.40	1.20
12HR	0	1.10	0.00
8HN	1	0.25	0.25
8HR	1	0.95	0.95
Total	156		133.45

1.1.3 Provincial Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12QN	30	1.00	30.00
12QR	0	1.80	0.00
8QN	99	0.75	74.25
8QR	2	1.50	3.00
12HN	8	0.40	3.20
12HR	0	1.10	0.00
8HN	33	0.25	8.25
8HR	1	0.95	0.95
Total	173		119.65

1.2 Sediment Units

	<u>Fed.</u>	<u>Prov.</u>
1 Federal - Provincial	0.525	0.525
2 Provincial @ 1.05		2.100
Total	0.525	2.625

1.3 Commercial Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
8QN	1	0.75	0.75
Total	1		0.75

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2.0 Operated by Alberta Environment

2.1 Hydrometric Units

2.1.1 Federal Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12HR	7	1.10	7.70
12HN	0	0.40	0.00
8QR	1	1.50	1.50
Total	8		9.20

2.1.2 Federal Provincial Hydrometric Units

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12HR	1	1.10	1.10
8QR	1	1.50	1.50
Total	2		2.60

2.1.3 Provincial Hydrometric Units (contributed stations)

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
12QN	1	1.00	1.00
12QR	0	1.80	0.00
8QN	17	0.75	12.75
8QR	0	1.50	0.00
12HN	3	0.40	1.20
12HR	1	1.10	1.10
8HN	13	0.25	3.25
8HR	0	0.95	0.00
Total	35		19.30

2.2 Commercial Hydrometric Units (contributed stations)

<u>Classification</u>	<u>Stations</u>	<u>Factor</u>	<u>Units</u>
8QN	1	0.40	0.40
Total	1		0.40

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Federal Departmental Programs (F1)

Site Identification			Responsibility			Operational Approach				Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
OPERATED BY - WATER SURVEY OF CANADA, ALBERTA DISTRICT															
BIRCH RIVER BELOW ALICE CREEK	07KE001	SW 35-107-19-4	F1	WSC, Alta.	8QR	1.5	Remote	MAROCT					Yes		
BOW RIVER AT BANFF	05BB001	SE 35-25-12-W5	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BOW RIVER AT LAKE LOUISE	05BA001	NE 28-28-16-W5	F1	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
MISTAYA RIVER NEAR SASKATCHEWAN CROSSING	05DA007	SW 06-34-19-W5	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					No		
NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT	05DA009	SW 14-35-18-W5	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
PEKISKO CREEK NEAR LONGVIEW	05BL023	SW 34-17-02-W5	F1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
PIPESTONE RIVER NEAR LAKE LOUISE	05BA002	SW 34-28-16-W5	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
SILVERHORN CREEK NEAR THE MOUTH	05DA010	SE 02-33-19 W5	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					No		
ST. MARY RIVER AT HIGHWAY NO. 501	05AE043	SW 01-02-25-W4	F1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WATERTON LAKE AT WATERTON PARK	05AD025	NW 23-01-30-W4	F1	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
WATERTON RIVER NEAR WATERTON PARK	05AD003	NE 08-02-29-W4	F1	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
Stations Total	11					10.150									
OPERATED BY - ALBERTA ENVIRONMENT															
EMBARRAS RIVER BREAKTHROUGH TO MAMAWI LAKE	07KF015		F1	AENV	8QR	1.5	Remote	MAROCT		6			Yes		
LAKE ATHABASCA AT FORT CHIPEWYAN	07MD001	SEC. 9-112-7-4	F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
LAKE CLAIRE NEAR OUTLET TO PRAIRIE RIVER	07KF002	58 38 00 - 111 41 50	F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
MAMAWI LAKE CHANNEL AT OLD DOG CAMP	07KF003		F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
PEACE RIVER BELOW CHENAL DES QUATRE FOURCHES	07KC005	SE 34-114-10-W4	F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
RIVIERE DES ROCHERS ABOVE SLAVE RIVER	07NA001		F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
RIVIERE DES ROCHERS EAST OF LITTLE RAPIDS	07NA007		F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
RIVIERE DES ROCHERS WEST OF LITTLE RAPIDS	07NA008		F1	AENV	12HR	1.1	Remote	ANNUAL		10			Yes		
Stations Total	8					9.200									

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Federal Interprovincial Waters (F2)

Site Identification			Responsibility					Operational Approach				Output Products			
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY	05FE004	SW 12-45-01-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BEAVER RIVER AT COLD LAKE RESERVE	06AD006	NE 10-62-02-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BOUNTIFUL COULEE INFLOW NEAR CRANFORD	05AG026	NE 36-9-18-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
BOW RIVER AT CALGARY	05BH004	NE 15-24-01-W5	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BOW RIVER DEVELOPMENT DRAIN D NEAR VAUXHALL	05BN008	SW 30-14-15-4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
BOW RIVER NEAR THE MOUTH	05BN012	NW 33-12-12-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BOXELDER CREEK AT HARGRAVE'S RANCH	05AH050	NE 23-12-30-W3	F2	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
BOXELDER CREEK NEAR WALSH	05AH001	SE 02-12-30-W3	F2	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
CANADIAN ST. MARY CANAL NEAR SPRING COULEE	05AE026	NW 33-4-23-W4	F2	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
COLD LAKE AT COLD LAKE	06AF002	NW 24-63-02-W4	F2	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
COLD RIVER AT OUTLET OF COLD LAKE	06AF001	NE 27-64-26-W3	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
CROWFOOT CREEK NEAR CLUNY	05BM008	SE 06-22-20-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
EASTERN IRRIGATION DISTRICT MAIN BRANCH CANAL NEAR HEADGATE	05BM020	NW 36-20-19-4	F2	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
EXPANSE COULEE NEAR THE MOUTH	05AG003	NE 11-12-16-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
GLENIFFER RESERVOIR NEAR DICKSON	05CB006	SE 33-35-02-W5	F2	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
HIGHWOOD DIVERSION CANAL NEAR HEADGATES	05BL025	NE 25-18-30-W4	F2	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
LETHBRIDGE NORTHERN IRRIGATION DISTRICT CANAL ABOVE OLDMAN FLUME	05AB019	SE 34-8-27-W4	F2	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
LITTLE BOW CANAL AT HIGH RIVER	05BL015	NE 6-19-28-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
LITTLE BOW RIVER AT CARMANGAY	05AC003	SW 32-13-23-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
LITTLE BOW RIVER BELOW TRAVERS DAM	05AC012	NE 33-13-20-W4	F2	WSC, Alta.	8QN	0.75	Normal	APROCT					No		
LITTLE BOW RIVER NEAR THE MOUTH	05AC023	NW 11-11-19-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
MAGRATH IRRIGATION DISTRICT CANAL NEAR SPRING COULEE	05AE021	SE 05-05-23-W4	F2	WSC, Alta.	8QN	0.75	Normal	APROCT					No		
MATZHIWIN CREEK BELOW WARE COULEE	05CJ012	SE 35-21-14-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
MOUNTAIN VIEW IRRIGATION DISTRICT CANAL	05AD017	NW 4-2-28-W4	F2	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
NEW WEST COULEE NEAR THE MOUTH	05BN006	NE 34-14-16-W4	F2	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
NORTH SASKATCHEWAN RIVER NEAR DEER CREEK	05EF001	SW 27-52-25-W3	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
OLDMAN RIVER NEAR LETHBRIDGE	05AD007	NW 01-09-22-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
ONETREE CREEK NEAR PATRICIA	05CJ006	SW 36-20-13-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		

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Federal Interprovincial Waters (F2)

Site Identification			Responsibility			Operational Approach					Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
PEACE RIVER AT PEACE POINT	07KC001	SE 35-116-15-W4	F2	Yellowknife	12QR	0	Remote	ANNUAL							
PIYAMI DRAIN NEAR PICTURE BUTTE	05AD037	SE 22-10-21-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
POTHOLE CREEK AT RUSSELL'S RANCH	05AE016	NE 18-07-21-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYNOV					Yes		
RED DEER RIVER AT RED DEER	05CC002	SE 20-38-27-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
RED DEER RIVER NEAR BINDLOSS	05CK004	NW 25-22-3-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
ROSEBUD RIVER AT REDLAND	05CE005	NE 10-27-22-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
ROSS CREEK AT HIGHWAY 41	05AH052	SE 19-12-04-W4	F2	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
SEVEN PERSONS CREEK AT MEDICINE HAT	05AH005	SW 30-12-05-W4 59 52 20 111 35	F2	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
SLAVE RIVER AT FITZGERALD	07NB001	00	F2	Yellowknife	12QR	0	Remote	ANNUAL							
SOUTH SASKATCHEWAN RIVER AT MEDICINE HAT	05AJ001	NW 31-12-05-W4	F2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
ST. MARY RESERVOIR NEAR SPRING COULEE	05AE025	NW 01-05-24-W4	F2	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
TWELVE MILE CREEK NEAR CECIL	05BN002	NE 02-14-13-W4	F2	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
UNITED IRRIGATION DISTRICT CANAL NEAR HILL SPRING	05AD013	NW 18-3-27-W4	F2	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
WATERTON RESERVOIR	05AD026	SE 27-04-28-W4	F2	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
Stations Total	42					31.600									

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Federal International Waters (F3)

Site Identification			Responsibility		Operational Approach						Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
BARE CREEK RESERVOIR NEAR ELKWATER	11AB094	NE 31-05-03-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
BEAR CREEK NEAR INTERNATIONAL BOUNDARY	11AA028	NE 12-01-10-W4	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
CRESSDAY RESERVOIR NEAR CRESSDAY GREASEWOOD RESERVOIR NEAR ELKWATER	11AB097	SE 30-03-02-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
JAYDOT RESERVOIR NEAR JAYDOT	11AB098	SW 01-03-01-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
LAKE SHERBURNE #	05AE036	SE 35-36-15WP	F3	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
MASSY RESERVOIR NEAR ELKWATER	11AB104	SE 17-06-03 W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
MICHEL RESERVOIR NEAR ELKWATER	11AB091	SE 05-07-03-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
MIDDLE CREEK NEAR THE SASKATCHEWAN BOUNDARY	11AB009	SE 34-05-01-W4	F3	WSC, Sask.	8QN	0	Normal	MAROCT							
MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY #	11AA031	NW 07-37-10EP	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MILK RIVER AT MILK RIVER	11AA005	NE 21-02-16-W4	F3	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
MILK RIVER AT WESTERN CROSSING OF INTERNATIONAL BOUNDARY	11AA025	NE 01-01-20-W4	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MINERS COULEE NEAR INTERNATIONAL BOUNDARY	11AA029	SW 10-01-11-W4	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
MITCHELL RESERVOIR NEAR ELKWATER	11AB099	NW 16-06-01-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
NORTH FORK MILK RIVER ABOVE ST. MARY CANAL #	11AA032	NE 16-37-11WP	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY	11AA001	NE 11-01-23-W4	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
REESOR RESERVOIR NEAR ELKWATER	11AB090	SE 20-08-01-W4	F3	WSC, Sask.	8HN	0	Normal	MAROCT							
ST. MARY CANAL AT ST. MARY CROSSING #	05AE029	SW 19-37-13WP	F3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
ST. MARY RIVER AT INTERNATIONAL BOUNDARY	05AE027	SW 05-01-25-W4	F3	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
Stations Total	19					7.650									

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Federal National Water Quantity Inventory (F4)

Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
OPERATED BY - WATER SURVEY OF CANADA, ALBERTA DISTRICT															
ATHABASCA RIVER BELOW MCMURRAY	07DA001	NW 05-90-09-W4	F4	WSC, Alta.	12QR	1.80	Remote	ANNUAL					Yes		
ATHABASCA RIVER NEAR JASPER	07AA002	NW 27-45-01-W6	F4	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
MARMOT CREEK MAIN STEM NEAR SEEBE	05BF016	NE 11-23-09-W5	F4	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
MIETTE RIVER NEAR JASPER	07AA001	NW 08-45-01-W6	F4	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
PEACE RIVER AT PEACE RIVER	07HA001	NW 31-83-21-W5	F4	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
PRAIRIE BLOOD COULEE NEAR LETHBRIDGE	05AD035	NW 17-07-22-W4	F4	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WABASCA RIVER AT HIGHWAY NO. 88	07JD002	NW 22-102-09-W5	F4	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
Stations Total	7					7.300									

Commercial Revenue (C)

Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
OPERATED BY - WATER SURVEY OF CANADA, ALBERTA DISTRICT															
DEEP VALLEY CREEK NEAR VALLEYVIEW	07GF008	SW 09-63-25-W5	F4	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
Stations Total	1					0.750									

Federal – Provincial Agreements (FP1)

Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
OPERATED BY - WATER SURVEY OF CANADA, ALBERTA DISTRICT															
BEAVER RIVER ABOVE SYNCRUDE	07DA018	NE 32-91-10-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
CLEARWATER RIVER AT DRAPER	07CD001	SE 06-89-08-W4	FP1	WSC, Alta.	12QR	1.80	Remote	ANNUAL					Yes		
FIREBAG RIVER NEAR THE MOUTH	07DC001	NW 36-99-08-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
HANGINGSTONE RIVER AT FORT MCMURRAY	07CD004	NW 10-89-09-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
MACKAY RIVER NEAR FORT MACKAY	07DB001	SE 03-95-11-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
MUSKEG RIVER NEAR FORT MACKAY	07DA008	NE 29-94-10-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
RICHARDSON RIVER NEAR THE MOUTH	07DD002	NE 10-108-8-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
STEEP BANK RIVER NEAR FORT MCMURRAY	07DA006	SW 29-92-09-W4	FP1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
WESTERN IRRIGATION DISTRICT CANAL NEAR HEADGATES	05BM015	SE 13-24-1-W5	FP1	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
Stations Total	9					13.050									
OPERATED BY - ALBERTA ENVIRONMENT															
ATHABASCA RIVER NEAR OLD FORT	07DD011	58 22 28 11 31 18	FP1	AENV	12HR	1.10	Remote	ANNUAL			10		Yes		
EMBARAS RIVER BELOW DIVERGENCE	07DD003		FP1	AENV	8QR	1.50	Remote	MAROCT			6		Yes		
Stations Total	2					2.600									

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Federal – Provincial River Basin Management (FP2)

Site Identification			Responsibility		Operational Approach					Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
ATHABASCA RIVER AT HINTON	07AD002	NE 23-51-25-W5	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BELLY RIVER NEAR MOUNTAIN VIEW	05AD005	NE 05-02-28-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
BOW RIVER BELOW BASSANO DAM	05BM004	SW 02-21-19-W4	FP2	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
BOW RIVER BELOW CARSELAND DAM	05BM002	NW 33-21-25-W4	FP2	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
ETHEL LAKE NEAR COLD LAKE	06AC004	SE 23-64-03-W4	FP2	WSC, Alta.	12HN	0.4	Normal	ANNUAL					Yes		
HAY RIVER NEAR MEANDER RIVER	07OB003	NW 11-117-22-W5	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
HIGHWOOD RIVER NEAR THE MOUTH	05BL024	NE 16-21-28-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
KAKWA RIVER AT HIGHWAY NO. 40	07GB003	SE 05-63-04-W6	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LEE CREEK AT CARDSTON	05AE002	NW 10-03-25-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
LUTOSE CREEK NEAR STEEN RIVER	07OB006	SW 07-120-19-W5	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
MARIE LAKE NEAR COLD LAKE	06AC005	SW 06-65-02-W4	FP2	WSC, Alta.	8HN	0.25	Normal	MAROCT					No		
MCLEOD RIVER NEAR ROSEVEAR	07AG007	NW 28-54-15-W5	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
NORTH SASKATCHEWAN RIVER AT EDMONTON	05DF001	NW 33-52-24-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
OLDMAN RIVER NEAR BROCKET	05AA024	SE 14-07-29-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
PEMBINA RIVER AT JARVIE	07BC002	NE 15-63-27-W4	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
ROLPH CREEK NEAR KIMBALL	05AE005	NE 16-02-24-W4	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
SMOKY RIVER ABOVE HELLS CREEK	07GA001	NE 19-57-08-W6	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SMOKY RIVER AT WATINO	07GJ001	SE 34-77-24-W5	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
STEEN RIVER NEAR STEEN RIVER	07OB004	NE 4-122-19-5	FP2	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SWAN RIVER NEAR KINUSO	07BJ001	NE 11-73-10-W5	FP2	WSC, Alta.	12QN	1	Normal	ANNUAL					Yes		
Stations Total		20													16.650

Federal – Provincial Regional Water Quantity Inventory (FP3)

Site Identification			Responsibility		Operational Approach					Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
ALKALI CREEK NEAR THE MOUTH	05CK005	SW 28-22-04-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
AMISK RIVER AT HIGHWAY NO. 36	06AA002	SE 26-63-14-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
ATIMOSWE CREEK NEAR ELK POINT	05ED002	NW 36-56-07-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BATTLE RIVER NEAR PONOKA	05FA001	NE 31-42-25-W4	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
BEAVER RIVER NEAR GOODRIDGE	06AA001	NE 12-63-10-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BERRY CREEK NEAR ROSE LYNN	05CH008	NW 21-28-11-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BIGKNIFE CREEK NEAR GADSBY	05FC002	NW 11-41-17-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BLINDMAN RIVER NEAR BLUFFTON	05CC008	NE 31-43-02-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BLOCK CREEK NEAR LEEDALE	05CC010	SE 35-41-05-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BOYER RIVER NEAR PADDLE PRAIRIE	07JF004	SW 05-103-22-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BRAZEAU RIVER BELOW CARDINAL RIVER	05DD007	NW 16-45-18-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
BROWN CREEK AT FORESTRY ROAD	05DD004	NW 02-44-17-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
BUCHANAN CREEK NEAR MANNING	07HC002	NW 16-91-22-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BUFFALO CREEK AT HIGHWAY NO. 41	05FE002	SW 31-46-06-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BULLPOUND CREEK NEAR WATTS	05CG004	NW 16-31-15-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		

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Federal – Provincial Regional Water Quantity Inventory (FP3)

Site Identification			Responsibility		Operational Approach					Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
CADOTTE RIVER AT OUTLET CADOTTE LAKE	07HB001	SE 27-86-16-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
CASTLE RIVER AT RANGER STATION	05AA028	SE 21-05-03-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
CATARACT CREEK NEAR FORESTRY ROAD	05BL022	SW 26-15-05-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
CHINCHAGA RIVER NEAR HIGH LEVEL	07OC001	NW 31-110-02-W6	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
CHRISTINA RIVER NEAR CHARD	07CE002	NW 09-79-06-W4	FP3	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
CHRISTMAS CREEK NEAR BLUE RIDGE	07AH002	SE 31-60-09-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
CLEAR RIVER NEAR BEAR CANYON	07FD009	SW 28-84-11-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
CLEARWATER RIVER NEAR DOVERCOURT	05DB006	SW 07-38-06-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
COYOTE CREEK NEAR CHERHILL	07BB014	NW 27-56-05-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
CROWSNEST RIVER AT FRANK CUTBANK RIVER NEAR GRANDE PRAIRIE	05AA008	SE 36-07-04-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
DAPP CREEK AT HIGHWAY NO. 44	07GB001	SE 10-64-07-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
DRIFTWOOD RIVER NEAR THE MOUTH	07BC006	NW 28-61-26-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
DRYWOOD CREEK NEAR THE MOUTH	07BK007	NW 22-72-02-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
ELBOW RIVER AT BRAGG CREEK	05AD010	SE 14-04-29-W4	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
EUREKA RIVER NEAR WORSLEY	05BJ004	NE 12-23-05-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
FISH CREEK ABOVE LITTLE FISH LAKE	07FD013	SW 13-86-08-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
FISH CREEK NEAR PRIDDIS	05CG006	SW 16-28-16-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
FLAT CREEK NEAR BOYLE	05BK001	NE 22-22-03-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
FREEMAN RIVER NEAR FORT ASSINIBOINE	07CA003	SE 02-65-20-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
GRANDE PRAIRIE CREEK NEAR SEXSMITH	07AH001	NE 13-62-07-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
GROS VENTRE CREEK NEAR DUNMORE	07GE003	SW 6-74-06-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
HEART RIVER NEAR NAMP	05AH037	SE 08-11-04-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
HIGHWOOD RIVER AT DIEBEL'S RANCH	07HA003	NW 30-81-20-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
HINES CREEK ABOVE GERRY LAKE	05BL019	NW 4-17-04-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
HOUSE RIVER AT HIGHWAY NO. 63	07FD011	NE 32-84-02-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
IOSEGUN RIVER NEAR LITTLE SMOKY	07CB002	NW 05-77-14-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
IRON CREEK NEAR HARDISTY	07GG003	NW 29-66-21-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
JAMES RIVER NEAR SUNDRE	05FB002	NE 13-43-10-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
JUMPINGPOUND CREEK NEAR COX HILL	05CA002	SW 20-34-05-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
KEG RIVER AT HIGHWAY NO. 35	05BH013	NE 32-23-07-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
LAC LA BICHE AT LAC LA BICHE	07HF002	SW 12-101-23-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LAFOND CREEK NEAR RED EARTH CREEK	07CA004	NW 06-67-13-W4	FP3	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
LESSER SLAVE LAKE AT SLAVE LAKE	07JC001	NW17-93-07-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LESSER SLAVE RIVER AT SLAVE LAKE	07BJ006	SE 12-73-06-W5	FP3	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
LITTLE BERLAND RIVER AT HIGHWAY NO. 40	07BK001	SE 07-73-05-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
	07AC008	SE 21-54-02-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		

CANADA – ALBERTA

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Federal – Provincial Regional Water Quantity Inventory (FP3)

Site Identification			Responsibility			Operational Approach				Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
LITTLE PADDLE RIVER NEAR MAYERTHORPE	07BB005	SE 31-57-08-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LITTLE RED DEER RIVER NEAR WATER VALLEY	05CB002	NW 29-29-05-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LITTLE SMOKY RIVER AT LITTLE SMOKY	07GG002	SE 25-66-22-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
LOGAN RIVER NEAR THE MOUTH	07CA012	NE 26-71-12-W4	FP3	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
LOVETT RIVER NEAR THE MOUTH	07BA003	NW 26-46-19-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					No		
MACKAY CREEK AT WALSH	05AH002	NW 26-11-01-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
MANYBERRIES CREEK AT BRODIN'S FARM	05AF010	NE 03-05-06-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
MASKWA CREEK NO. 1 ABOVE BEARHILLS LAKE	05FA014	SW 18-44-25-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
MCLEOD RIVER ABOVE EMBARRAS RIVER	07AF002	SE 07-52-18-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
MEDICINE RIVER NEAR ECKVILLE	05CC007	SE 03-39-03-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
MONTAGNEUSE RIVER NEAR HINES CREEK	07FD012	SW 22-85-05-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
MUSKEG RIVER NEAR GRANDE CACHE	07GA002	SW 15-57-06-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
NORDEGG RIVER AT SUNCHILD ROAD	05DD009	SW 27-44-11-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
NORTH RAM RIVER AT FORESTRY ROAD	05DC011	SE 19-38-14-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
NOTIKEWIN RIVER AT MANNING	07HC001	SW 27-91-23-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
OLDMAN RIVER AT RANGE ROAD 13A	05AA035	SW 16-09-01-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
OWL RIVER BELOW PICHE RIVER	07CA013	SW 36-69-13-W4	FP3	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
PADDLE RIVER NEAR ANSELMO	07BB011	NW 24-56-10-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
PEACE RIVER AT DUNVEGAN BRIDGE	07FD003	SE07-80-04-W6	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
PEAVINE CREEK NEAR FALHER	07GH004	NW 31-76-21-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
PEIGAN CREEK NEAR PAKOWKI ROAD	05AH041	NW 19-07-07-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
PINCHER CREEK AT PINCHER CREEK	05AA004	SW 23-06-30-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
PINE CREEK NEAR GRASSLAND	07CA005	SE 26-67-19-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
PIPESTONE CREEK NEAR WETASKIWIN	05FA012	SE 08-47-23-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
PONTON RIVER ABOVE BOYER RIVER	07JF003	NW 15-109-14-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
PRAIRIE CREEK BELOW LICK CREEK	05DB005	SE 12-38-10-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
RACEHORSE CREEK NEAR THE MOUTH	05AA027	SE 24-10-04-W5	FP3	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
RAT CREEK NEAR CYNTHIA	07BA002	SW 13-48-11-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
RAVEN RIVER NEAR RAVEN	05CB004	SW 14-36-04-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
RAY CREEK NEAR INNISFAIL	05CE010	SW 13-35-26-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
RED DEER RIVER BELOW BURNT TIMBER CREEK	05CA009	NE 11-31-08-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
REDEARTH CREEK NEAR RED EARTH CREEK	07JC002	NW 17-87-08-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
REDWATER RIVER NEAR THE MOUTH	05EC005	SW 01-57-21-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
RENWICK CREEK NEAR THREE HILLS	05CE011	NE 05-32-24-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
RIBSTONE CREEK NEAR EDGERTON	05FD001	NW 35-43-04-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
ROSE CREEK NEAR ALDER FLATS	05DE007	NW 31-45-07-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		

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Site Identification			Responsibility			Operational Approach			Output Products						
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
SADDLE RIVER NEAR WOKING	07FD006	NE 4-77-5-6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SAGE CREEK AT Q RANCH NEAR WILDHORSE	11AA026	NW 09-02-02-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SAKWATAMAU RIVER NEAR WHITECOURT	07AH003	SE 19-60-12-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SAM LAKE TRIBUTARY NEAR SCHULER	05AH047	NE 07-14-02-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
SAND RIVER NEAR THE MOUTH	06AB001	NW 20-63-08-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SAULTEAUX RIVER NEAR SPURFIELD	07BK005	SE 21-71-02-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
SAWRIDGE CREEK NEAR SLAVE LAKE	07BK009	NE 25-72-06-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SHEEP RIVER AT BLACK DIAMOND	05BL014	NE 08-20-02-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
SIMONETTE RIVER NEAR GOODWIN	07GF001	NE 11-71-02-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SNAKE CREEK NEAR VULCAN	05AC030	SW 36-17-22-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
SOUSA CREEK NEAR HIGH LEVEL	07OA001	SE 31-110-03-W6	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
STONY CREEK NEAR TAWATINAW	07BE004	NW 24-61-24-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
STRAWBERRY CREEK NEAR THE MOUTH	05DF004	SE 15-50-01-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
STRETTON CREEK NEAR MARWAYNE	05EE005	SE 35-51-03-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
SUNDANCE CREEK NEAR BICKERDIKE	07AF010	NW 11-53-19-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
SWAN RIVER NEAR SWAN HILLS	07BJ003	NW 16-67-10-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
TEEPÉE CREEK NEAR LA CRETE	07JD004	SE 28-105-14-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
THREEHILLS CREEK BELOW RAY CREEK	05CE018	SW 18-35-25-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
THREEPOINT CREEK NEAR MILLARVILLE	05BL013	NW 07-21-02-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
TOMAHAWK CREEK NEAR TOMAHAWK	05DE009	NW 13-51-06-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
TRAP CREEK NEAR LONGVIEW	05BL027	NW 36-17-04-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
VERMILION RIVER AT VEGREVILLE	05EE009	NW 17-52-14-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
VERMILION RIVER TRIBUTARY NEAR BRUCE	05EE006	SW 07-50-14-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WABASH CREEK NEAR PIBROCH	07BC007	NW 25-60-27-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WAIPAROUS CREEK NEAR THE MOUTH	05BG006	NW 06-27-06-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WANDERING RIVER NEAR WANDERING RIVER	07CA006	SW0 6-72-16-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WAPITI RIVER NEAR GRANDE PRAIRIE	07GE001	SW 23-70-06-W6	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WASKAHIGAN RIVER NEAR THE MOUTH	07GG001	SE 35-66-22-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WASKASOO CREEK AT RED DEER	05CC011	NE 16-38-27-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WEST ARROWWOOD CREEK NEAR ARROWWOOD	05BM014	SW 11-21-24-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
WEST ARROWWOOD CREEK NEAR ENSIGN	05BM018	SW 14-18-25-W4	FP3	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
WEST PRAIRIE RIVER NEAR HIGH PRAIRIE	07BF002	SE 35-74-17-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WEST WHITEMUD CREEK NEAR IRETON	05DF007	SE 14-49-26-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
WHITEMUD RIVER NEAR DIXONVILLE	07HA005	SW 06-87-23-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WILDHAY RIVER NEAR HINTON	07AC001	NW 29-52-27-W5	FP3	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
WILLOW CREEK AT SECONDARY 532	05AB040	SE 09-15-03-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		

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Federal – Provincial Regional Water Quantity Inventory (FP3)

Site Identification			Responsibility			Operational Approach					Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
WILLOW RIVER NEAR WABASCA	07JA003	SE 12-80-26-W4	FP3	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
WOLF CREEK AT HIGHWAY NO. 16A	07AG003	NE 22-53-16-W5	FP3	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WOLF LAKE AT OUTLET	06AB004	NW 16-66-07-W4	FP3	WSC, Alta.	8HR	0.95	Remote	MAROCT							
WOLF RIVER AT OUTLET OF WOLF LAKE	06AB002	NE 16-66-07-W4	FP3	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
Stations Total	127					103.750									

Provincial Departmental Programs (P1)

Site Identification			Responsibility			Operational Approach					Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
ALBERTA POWER LIMITED COOLING POND OUTLET	05CG007	NW 29-28-13-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
ATHABASCA RIVER AT ATHABASCA	07BE001	SE 20-66-22-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
ATHABASCA RIVER NEAR WINDFALL	07AE001	NE20-60-14-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
ATIM CREEK AT CENTURY RD	05EA012	SW 23-53-27-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BABETTE CREEK NEAR COLINTON	07CA008	SE 27-65-21-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BAPTISTE LAKE NEAR ATHABASCA	07BE002	SW 26-66-24-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					No		
BAPTISTE RIVER NEAR THE MOUTH	05DC012	NW 34-42-08-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					No		
BATTLE RIVER AT DUHAMEL	05FA011	SE 10-46-21-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BATTLE RIVER AT HIGHWAY 872	05FC008	NE 32-39-10-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BATTLE RIVER NEAR FORESTBURG	05FC001	NW 35-41-17-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BEAR RIVER NEAR VALHALLA CENTRE	07GE007	NW 07-74-09-W6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BEARBERRY CREEK NEAR SUNDRE	05CA011	NW 06-33-5-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BEAVER CREEK NEAR BROCKET	05AB013	NW 07-08-28-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BEAVERLODGE RIVER NEAR BEAVERLODGE	07GD001	SE 34-71-10-W6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BEAVERTAIL CREEK NEAR HYTHE	07GD002	SE 17-73-11-W6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BELLY RIVER NEAR GLENWOOD	05AD041	SE 06-05-26-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
BELLY RIVER NEAR MOON RIVER ROAD	05AD934	SE 13-09-24-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BELLY-ST. MARY DIVERSION CANAL	05AD021	SE 34-04-27-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BERLAND RIVER NEAR THE MOUTH	07AC007	SW 18-58-20-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BERRY CREEK NEAR THE MOUTH	05CH007	SW 10-22-12-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BERRY CREEK RESERVOIR NEAR SUNNYNOOK	05CH014	NE 29-26-12-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
BERRY CREEK RESERVOIR OUTLET	05CH011	NW 21-26-12-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BLACKMUD CREEK NEAR ELLERSLIE	05DF003	SE 19-51-24-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BLINDMAN RIVER NEAR BLACKFALDS	05CC001	NW 14-39-27-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
BLOOD INDIAN CREEK NEAR CABIN LAKE	05CK007	NE 31-24-09-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BLOOD INDIAN CREEK NEAR THE MOUTH	05CK001	SE 16-23-08-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BOW RIVER DEVELOPMENT CANAL BELOW HEADGATES	05BM021	SE 32-21-25-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BOW RIVER NEAR COCHRANE	05BH005	SW 35-25-04-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
BOYER RIVER NEAR FORT VERMILION	07JF002	SE 09-109-14-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
BUFFALO LAKE NEAR ERSKINE	05CD005	NW 19-40-20-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
BULLSHEAD CREEK AT BLACK AND WHITE TRAIL	05AH053	NE 17-11-05-W4M	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		

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Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
BULLSHEAD RESERVOIR NEAR ELKWATER	05AH057	NW 29-8-4-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
CALLING LAKE AT RANGER STATION	07CB001	SW 17-72-21-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
CAMROSE CREEK NEAR CAMROSE	05FA025	NW 11-47-20-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
CARROT CREEK NEAR THE MOUTH	05EA011	NE 36-53-26-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
CASTLE RIVER NEAR BEAVER MINES	05AA022	NW 24-06-02-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
CAVAN LAKE DIVERSION NEAR DUNMORE	05AH044	NW 10-11-04-W4	P1	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
CAVAN LAKE NEAR DUNMORE	05AH048	NE 30-11-3-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
CHAIN LAKES RESERVOIR NEAR NANTON	05AB037	NE 27-14-02-W5	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
CHIP LAKE NEAR NORTHVILLE	07BB008	SW 03-54-10-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
CLEARWATER RIVER ABOVE CHRISTINA RIVER	07CD005	NW 29-88-06-W4	P1	WSC, Alta.	8QR	1.50	Remote	MAROCT					Yes		
COAL LAKE RESERVOIR NEAR WETASKIWIN	05FA016	SE 35-46-23-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					No		
CYPRESS VIEW RESERVOIR NEAR ELKWATER	05AH054	SE 12-10-2-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
DICKSON DAM TUNNEL OUTLET	05CB007	SE 04-36-02-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
EAST MCALPINE CREEK NEAR ELKWATER LAKE	05AH043	NE 03-10-02-W4	P1	WSC, Alta.	8QN	0.75	Normal	FEBOCT					Yes		
EAST PRAIRIE RIVER NEAR ENILDA	07BF001	NE 14-74-16-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
ELBOW RIVER AT SARCEE BRIDGE	05BJ010	SE 35-23-02-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
ELBOW RIVER BELOW GLENMORE DAM	05BJ001	SW 04-24-01-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
ELKWATER LAKE AT ELKWATER	05AH025	NW 24-08-03-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
EMBARRAS RIVER NEAR WEALD	07AF014	NE 01-51-20-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
FALLEN TIMBER CREEK NEAR SUNDRE	05CA012	SW 09-32-05-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
FAWCETT LAKE NEAR SMITH	07BK008	SE 15-73-01-W4	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
FAWCETT RV OUTLET FAWCETT LAKE	07BK012	SE 15-73-01-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					New		
FORSTER RESERVOIR NEAR CESSFORD	05CH013	SW 28-23-13-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
GHOST RIVER ABOVE WAIPAROUS CREEK	05BG010	NW 33-26-07-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
GOLD CREEK NEAR FRANK	05AA030	SW 31-07-03-W5	P1	WSC, Alta.	8QN	0.75	Normal	APRNOV					Yes		
GREGG RIVER NEAR THE MOUTH	07AF015	SW 30-49-23-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
GREGOIRE LAKE NEAR FORT MCMURRAY	07CE001	SW 07-86-08-W4	P1	WSC, Alta.	8HR	0.95	Remote	MAROCT					Yes		
GROAT CREEK NEAR WHITECOURT	07AG008	NE 22-58-13-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
GULL LAKE AT ASPEN BEACH	05CC006	NE 21-40-28-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
HAYNES CREEK NEAR HAYNES	05CD006	SW 11-39-24-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
HIGHWOOD RIVER BELOW LITTLE BOW CANAL	05BL004	NE 06-19-28-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
HILDA LAKE NEAR COLD LAKE	06AC003	NE 08-64-03-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
ISLE LAKE AT EUREKA BEACH	05EA008	NE 32-53-05-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					No		
JACKFISH CREEK NEAR LA COREY	06AC001	NE 09-63-05-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
JACKPINE CREEK AT HIGHWAY NO. 88	07JD003	NE 09-106-11-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
JUMPINGPOUND CREEK AT TOWNSHIP ROAD 252	05BH015		P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
KENNEDY COULEE NEAR ACADIA VALLEY	05CK006	SW 05-25-02-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		

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Site Identification			Responsibility		Operational Approach				Output Products						
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
KETTLES CREEK AT PINCHER CREEK	05AA033	NE23-6-30-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
KILLARNEY LAKE TRIBUTARY NEAR CHAUVIN	05GA010	SW 31-41-01-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
KLESKUN HILLS MAIN DRAIN NEAR GRANDE PRAIRIE	07GE002	NE 12-72-4-6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
KNEEHILLS CREEK NEAR DRUMHELLER	05CE002	NW 12-29-22-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LAC LA NONNE AT LAC LA NONNE	07BB007	NE 07-57-02-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
LAC STE. ANNE AT ALBERTA BEACH	05EA006	SE 22-54-03-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
LASTHILL CREEK NEAR ECKVILLE	05CC013	NE 14-39-04-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
LILY CREEK NEAR SLAVE LAKE	07BG004	NW 14-74-06-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
LITTLE RED DEER RIVER NEAR THE MOUTH	05CB001	SW 30-35-01-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
LITTLE SMOKY RIVER NEAR GUY	07GH002	NE 33-74-21-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
LLOYD CREEK NEAR BLUFFTON	05CC009	NE 25-43-02-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
LOMOND LATERAL NEAR HEADGATE	05AC017	SW 34-14-20-W4	P1	WSC, Alta.	8QN	0.75	Normal	APROCT					Yes		
LOON RIVER NEAR THE MOUTH	07JC003	SE 20-93-07-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
MACKAY CREEK RESERVOIR NEAR ELKWATER	05AH056	SW 7-9-1-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
MCALPINE CREEK RESERVOIR NEAR ELKWATER	05AH055	NE 2-9-2-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
MCLEOD RIVER NEAR CADOMIN	07AF013	SE 30-47-22-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MCLEOD RIVER NEAR WHITECOURT	07AG004	SE 15-58-13-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MEADOW CREEK NEAR THE MOUTH	05AB029	NW 32-11-27-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MICHICHI CREEK AT DRUMHELLER	05CE020	NW 11-29-20-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MILK RIVER RIDGE RESERVOIR	05AF030	SW 14-05-20-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
MILL CREEK NEAR THE MOUTH	05AA011	SW 18-06-01-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MONITOR CREEK NEAR CONSORT	05GA011	NW 35-33-06-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MONITOR CREEK NEAR MONITOR	05GA003	SW 06-35-04-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MOORE LAKE NEAR COLD LAKE	06AC002	NE 32-63-04-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					No		
MOOSEHILLS CREEK NEAR ELK POINT	05ED003	SE 23-57-06-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
MOSQUITO CREEK NEAR THE MOUTH	05AC031	SE 18-15-26-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
MURIEL LAKE NEAR GURNEYVILLE	06AC007	SW 31-59-05-W4	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
NORTH SASKATCHEWAN RIVER AT HWY. 759	05DE010	SE 14-50-06-5M	P1	WSC, Alta.	8QN	0.75	Normal	ANNUAL					Yes		
NORTH SASKATCHEWAN RIVER NEAR LODGEPOLE	05DE006	SW 14-47-09-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
NORTH SASKATCHEWAN RIVER NEAR ROCKY MOUNTAIN HOUSE	05DC001	NE 21-39-07-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
NOSE CREEK ABOVE AIRDRIE	05BH014	SE 14-27-1-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
OLDMAN RESERVOIR NEAR PINCHER CREEK	05AA032	NW 25-07-30-W4	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
OLDMAN RIVER NEAR THE MOUTH	05AG006	SW 24-11-14-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
PADDLE RIVER AT BARRHEAD	07BB006	SW 21-59-03-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		

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Site Identification			Responsibility			Station Units	Operational Approach			Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type		Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive
PADDLE RIVER NEAR ROCHFORD BRIDGE	07BB004	SW 06-57-07-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PAINT EARTH CREEK NEAR HALKIRK	05FC004	NE 30-39-15-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
PARFLESH CREEK NEAR CHANCELLOR	05BM007	SW 35-23-21-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
PARLBY CREEK AT ALIX	05CD007	SE 02-40-23-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PEACE RIVER ABOVE SMOKY RIVER CONFLUENCE	07FD901	NW 36-82-23-W5	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL				Yes		
PEACE RIVER AT FORT VERMILION	07HF001	SW 24-108-13-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
PEACE RIVER NEAR CARCAJOU	07HD001	NW 03-101-19-W5	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL				Yes		
PEACE RIVER NEAR ELK ISLAND PARK	07FD934	SW 10-80-26-W5	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL				Yes		
PEMBINA RIVER BELOW PADDY CREEK	07BA001	NE 12-48-10-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT				Yes		
PEMBINA RIVER NEAR ENTWISTLE	07BB002	SW 29-53-07-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
PIGEON LAKE AT PROVINCIAL PARK	05FA013	NE 22-46-01-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT				Yes		
PINCHER CREEK AT FRONT RANGE ROAD	05AA034	SE 21-4-1-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PINE COULEE DIVERSION CANAL BELOW HEADGATES	05AB042	SW 32-13-28-4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PINE COULEE OUTFLOW BELOW RESERVOIR	05AB045	NW 27-13-28-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PINE COULEE RESERVOIR NEAR STAVELY	05AB044	SW 34-13-28-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT				Yes		
PINTO CREEK NEAR GRANDE PRAIRIE	07GC002	SW 36-67-10-W6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
PONY CREEK NEAR CHARD	07CE003	SW 22-79-06-W4	P1	WSC, Alta.	8QR	1.50	Remote	MAROCT				Yes		
PORTER CREEK ABOVE BAPTISTE LAKE	07BE003	SW 21-66-24-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
PRAIRIE CREEK NEAR ROCKY MOUNTAIN HOUSE	05DB002	NW 15-38-07-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
RAM RIVER NEAR THE MOUTH	05DC006	SE 19-39-10-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
RED DEER RIVER ABOVE PANTHER RIVER	05CA004	NE 18-31-10-W5	P1	WSC, Alta.	8QN	0.75	Normal	APROCT				Yes		
RED DEER RIVER AT DRUMHELLER	05CE001	SW 11-29-20-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
REDWILLOW RIVER NEAR RIO GRANDE	07GD004	NW 24-70-12-W6	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
ROSEBUD RIVER BELOW CARSTAIRS CREEK	05CE006	NW 22-28-27-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
RUSH LAKE DRAIN NEAR NEW DAYTON	05AF031	NW 36-05-17-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
SALT CREEK NEAR GROUARD	07BF009	SW 28-76-14-5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				No		
SHEEP RIVER AT OKOTOKS	05BL012	SE 29-20-29-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
SHORNCLIFFE LAKE NEAR CZAR	05FD007		P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
SOUNDING CREEK NEAR CHINOOK	05GA012	SE 09-30-07-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
SOUNDING CREEK NEAR OYEN	05GA008	SE 15-30-04-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
SOUTH HEART RESERVOIR NEAR MCLENNAN	07BF008	SE 20-77-17-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT				Yes		
SOUTH HEART RIVER NEAR BIG PRAIRIE SETTLEMENT	07BF905	SW 17-76-15-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL				Yes		
SOUTH HEART RIVER NEAR PEAVINE	07BF010	NW 02-79-16-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		
SOUTH WABASCA LAKE NEAR DESMARAIS	07JA002	NW 14-80-25-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT				No		
SPIRIT RIVER NEAR SPIRIT RIVER	07FD020	SE10-78-6-W6	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT				Yes		

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Provincial Departmental Programs (P1)

Site Identification			Responsibility			Operational Approach					Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
SPRAY RIVER AT BANFF	05BC001	SW 25-25-12-W5	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
SPRUCE COULEE RESERVOIR NEAR ELKWATER	05AH058	NW 26-8-2-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
ST. MARY RIVER NEAR LETHBRIDGE	05AE006	SW 19-07-21-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
STIMSON CREEK NEAR PEKISKO	05BL007	SE 14-17-02-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
STIRLING LAKE OUTFLOW NEAR STIRLING	05AF029	SW 03-07-19-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
STURGEON LAKE NEAR VALLEYVIEW	07GH003	SW 01-71-24-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					No		
STURGEON RIVER AT ST. ALBERT	05EA002	NE 04-54-25-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
STURGEON RIVER NEAR FORT SASKATCHEWAN	05EA001	NE 29-55-22-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
STURGEON RIVER NEAR MAGNOLIA BRIDGE	05EA010	SW 20-53-06-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
STURGEON RIVER NEAR VILLENEUVE	05EA005	NW 10-54-26-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
SUNWAPTA RIVER AT ATHABASCA GLACIER	07AA007	SW 33-37-23-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAYOCT					Yes		
SYLVAN LAKE AT SYLVAN LAKE	05CC003	NE 32-38-01-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					Yes		
THREEHILLS CREEK NEAR CARBON	05CE007	SW 17-30-22-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
TODD CREEK NEAR HIGHWAY NO.22	05AA909	SE 29-09-02-W5	P1	WSC, Alta.	8QN	0.75	Normal	APROCT					No		
TROUT CREEK NEAR GRANUM	05AB005	SW 07-12-27-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
UTIKUMA LAKE NEAR NIPISI	07JA001	SE 24-79-09-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					No		
VERDIGRIS COULEE NEAR THE MOUTH	11AA038	NW 12-02-14-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
VERDIGRIS LAKE TRIBUTARY NEAR MILK RIVER	11AA039	NE 21-03-16-W4	P1	WSC, Alta.	8QN	0.75	Normal	FEBOCT					No		
VERMILION LAKES NEAR MORECAMBE	05EE011	NW 06-54-10-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					Yes		
VERMILION PARK LAKE NEAR VERMILION	05EE008	NW 32-50-06-W4	P1	WSC, Alta.	8HN	0.25	Normal	MAROCT					No		
VERMILION RIVER AT RGE RD 105	05EE010	SE 31-53-10-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
VERMILION RIVER NEAR MARWAYNE	05EE007	NW 16-52-03-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
WABAMUN LAKE AT WABAMUN	05DE002	SE 08-53-05-W5M	P1	WSC, Alta.	12HN	0.40	Normal	ANNUAL					Yes		
WAMPUS CREEK NEAR HINTON	07AF003	NW 23-48-23-W5	P1	WSC, Alta.	8QN	0.75	Normal	APROCT					No		
WATERTON RIVER NEAR GLENWOOD	05AD028	SW 05-06-26-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WATERTON-BELLY DIVERSION CANAL	05AD027	SE 25-4-28-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WEED CREEK AT THORSBY	05DF008	NE 15-49-1-W5	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WEILLER CREEK NEAR WETASKIWIN	05FA024	NE 09-46-23-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
WHITEMUD CREEK NEAR ELLERSLIE	05DF006	SE 22-51-25-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WILLOW CREEK AT HIGHWAY NO. 811	05AB046	NW 24-09-26-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WILLOW CREEK AT OXLY RANCH	05AB041	NW 36-13-29-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
WILLOW CREEK NEAR CLARESHOLM	05AB021	NE 23-12-28-W4	P1	WSC, Alta.	12QN	1.00	Normal	ANNUAL					Yes		
WINAGAMI LAKE AT PROVINCIAL PARK	07BF006	SW 35-76-18-W5	P1	WSC, Alta.	8HN	0.25	Normal	MAYOCT					No		
WOLF CREEK AT TOWNSHIP ROAD 410	05FA026		P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
YARROW CREEK AT SPREAD EAGLE ROAD	05AD042	NE 22-3-30-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					Yes		
YOUNG CREEK NEAR CASTOR	05FC007	NE 12-38-13-W4	P1	WSC, Alta.	8QN	0.75	Normal	MAROCT					No		
Stations Total	173					119.65									

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Provincial Contributed Data

Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive
ATHABASCA RIVER ABOVE JACKFISH CREEK	07DD007		PAD	PAD	12HR	1.10	Remote	ANNUAL		10			No	
BEAR LAKE NEAR CLAIRMONT	07GE004	NE 27-72-07-W6	C-AENV	AENV	8HN	0.25	Normal	MAROCT		3				
BIGELOW RESERVOIR NEAR WIMBORNE	05CE901	SW 03-34-25-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		7			No	Yes
BOW RIVER DEVELOPMENT MAIN CANAL AT DROP NO. 3	05AC902	SW 09-14-19-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		9			X	
CHESTERMERE LAKE AT SOUTH OUTLET	05BM904	NE1/4-030024-28-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		8			Yes	Yes
CHRISTINA LAKE NEAR WINEFRED LAKE	07CE906	SW31-76-5-W4	C-AENV	AENV	12HN	0.40	Normal	ANNUAL		3			Yes	Yes
CLEAR LAKE DIVERSION CANAL BELOW HEADGATE	05AC938	NW 2-15-26-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8			X	
CLEAR LAKE DIVERSION HEAD POND ABOVE HEADGATE	05AC939	NW 2-15-26-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		8			X	
CLEAR LAKE NEAR STAVELY	05AC901	NE 31-13-25-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		9			X	
DRIEDMEAT LAKE AT OUTFLOW	05FA020	SE 17-44-19-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		10				Yes
ETZIKOM COULEE NEAR NEMISKAM	05AF905	SW 02-06-10-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		12				X
GRIMSHAW DRAINAGE NEAR GRIMSHAW	07FD908	SW 08-83-23 W5	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8				
HAYNES CREEK (M1) NEAR JOFFRE	05CD913	NW03-40-25-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		12				Yes
KEHO LAKE NEAR NOBLEFORD	05AC919	SE 33-11-22-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		9			X	
LAKE MCGREGOR AT SOUTH DAM	05AC022	NE 21-15-21-W4	C-AENV	AENV	12HN	0.40	Normal	ANNUAL		10			X	
LITTLE BOW RESERVOIR NEAR ENCHANT	05AC922	NE 28-14-20-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		9				
LITTLE BOW RIVER ABOVE TRAVERS RESERVOIR	05AC034	NW1/4-29-014-22-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8			Yes	Yes
LITTLE BOW RIVER AT HIGHWAY NO. 533	05AC930	NW 17-16-26-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8			Yes	Yes
LITTLE BOW RIVER BELOW TWIN VALLEY RESERVOIR	05AC941	SE1/4-05-015-25-W4	C-AENV	AENV	12QN	1.00	Normal	ANNUAL		8			Yes	Yes
MIRROR BACKFLOOD AT HIGHWAY 50	05CD905	NW20-40-22-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		10				Yes
MODESTE CREEK NEAR LINDALE	05DE911	NW20-49-05-W5	C-AENV	AENV	8QN	0.75	Normal	MAROCT		12			Yes	Yes
NAMPA (SOUTH) DRAINAGE NEAR NAMPA	07HA914	NW 12-81-21 W5	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8			Yes	Yes
NORTH STAR DRAINAGE NEAR NORTH STAR	07HC907	SE 27-90-23 W5	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8			Yes	Yes
PADDLE RIVER RESERVOIR NEAR ROCHFORD BRIDGE	07BB914	SE02-57-08-W5	C-AENV	AENV	12HN	0.40	Normal	ANNUAL		8			Yes	Yes
PARLBY CREEK NEAR MIRROR	05CD902	SE 04-41-22-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		12			Yes	Yes
PAYNE LAKE NEAR MOUNTAIN VIEW	05AD940		C-AENV	AENV	8HN	0.25	Normal	MAROCT		9			X	
POINTE-AUX-PINS CREEK NEAR ARDROSSAN	05EB902	SW27-53-22-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		15				Yes
POINTE-AUX-PINS TRIBUTARY NO. 2 NEAR ARDROSSAN	05EB910	SW23-53-22-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		15				Yes
RYCROFT SURVEY NO. 3 NEAR RYCROFT	07FD910	SE 18-78-04 W6	C-AENV	AENV	8QN	0.75	Normal	MAROCT		8				Yes
SPOTTED LAKE NEAR MIRROR	05CD903	SW04-41-22-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		10			Yes	Yes
TRAVERS RESERVOIR NEAR ENCHANT	05AC921	NE 18-14-20-W4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		9			X	
TWIN VALLEY RESERVOIR NEAR HIGHWAY 529	05AC940	SE1/4-05-015-25-W4	C-AENV	AENV	12HN	0.40	Normal	ANNUAL		8			Yes	Yes
TYRRELL LAKE NEAR WARNER	05AF903	SE 17-5-17-4	C-AENV	AENV	8HN	0.25	Normal	MAROCT		9			X	
WASKATENAU CREEK NEAR WASKATENAU	05EC002	SE 28-59-19-W4	C-AENV	AENV	8QN	0.75	Normal	MAROCT		12				Yes

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
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Provincial Contributed Data

Site Identification			Responsibility		Operational Approach						Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
WHITBURN DRAINAGE PROJECT NEAR SPIRIT RIVER	07FD912	SE 23-79-08 W6	C-AENV	AENV	8QN	0.75	Normal	MAROCCT		8				Yes	
YOUNG DRAINAGE PROJECT NEAR SPIRIT RIVER	07FD913	SE 01-79-06 W6	C-AENV	AENV	8QN	0.75	Normal	MAROCCT		8			Yes	Yes	
Stations Total	36					19.70									

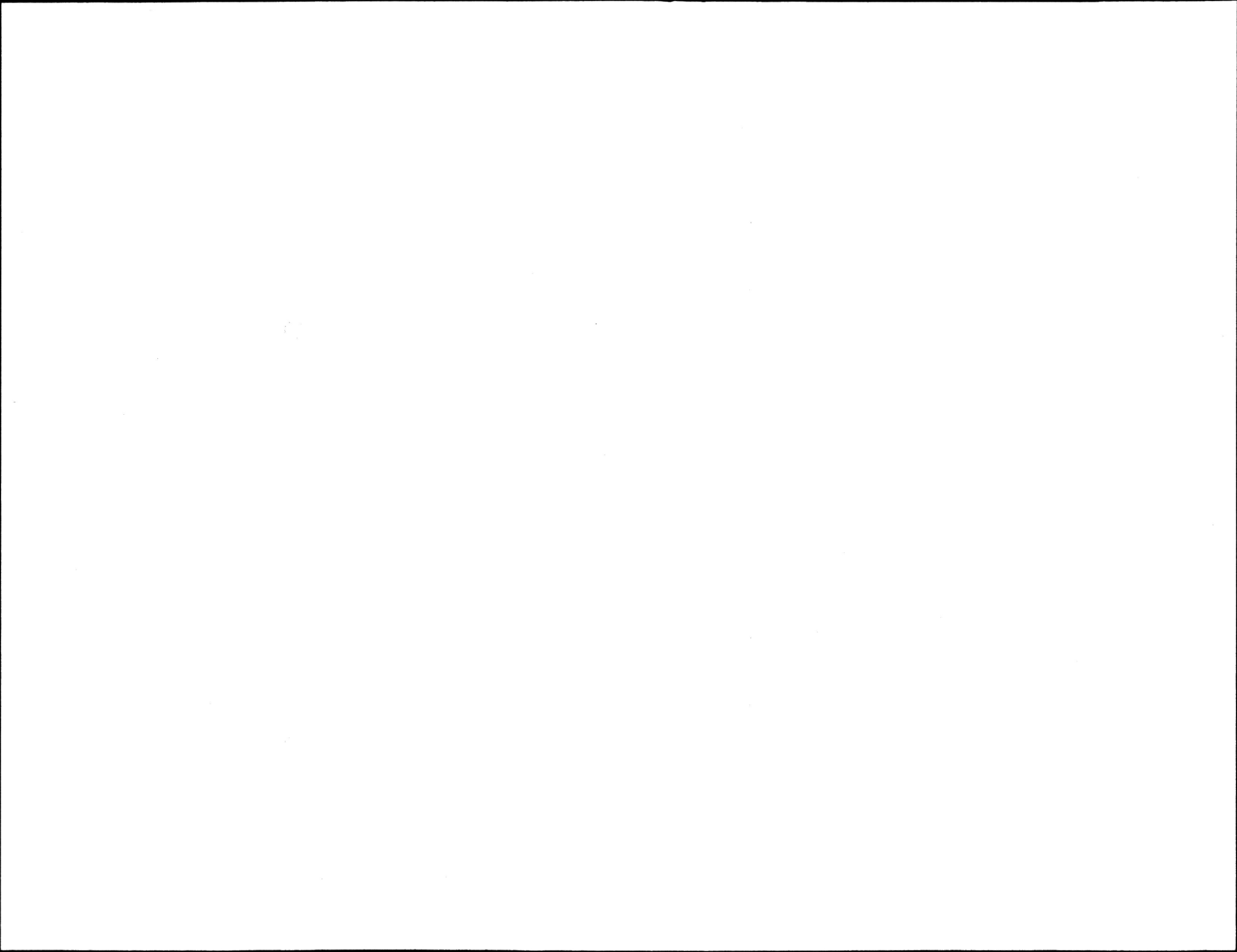
Trans Alta Utilities and City of Calgary Contributed Data

Site Identification			Responsibility		Operational Approach						Output Products				
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
BARRIER LAKE NEAR SEEBE	05BF024	51 01 59 115 02 29	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
BOW RIVER BELOW BEARSPAW DAM	05BH008	SW 04-25-02-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
BOW RIVER NEAR SEEBE	05BE004	NE 10-25-08-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
CASCADE POWER DIVERSION NEAR BANFF	05BD004	SE 8-26-11-5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
GHOST LAKE NEAR COCHRANE	05BE005	NE 13-26-06-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
GHOST RIVER DIVERSION TO LAKE MINNEWANKA	05BG003	NE 2-27-9-5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
GHOST RIVER NEAR BLACK ROCK MOUNTAIN	05BG002	SE 15-27-09-W5	C-TAU	TAU - Cont.	8QN	0.75	Normal	MAROCCT							
GHOST TRAIL	05BE999	NE 13-26-06-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
GOAT CREEK AT BANFF PARK BOUNDARY	05BC008	SW 23-24-11-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
KANANASKIS RIVER ABOVE POCATERRA CREEK	05BF003	NE 13-20-09-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
KANANASKIS RIVER BELOW BARRIER DAM	05BF025	SE 15-24-08-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
LAKE ABRAHAM NEAR NORDEGG	05DC009	SW 35-38-17-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
LAKE MINNEWANKA NEAR BANFF	05BD003	SW 21-26-11-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
LOWER KANANASKIS LAKE	05BF009	SW 13-20-09-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
NORTH SASKATCHEWAN RIVER BELOW BIGHORN PLANT	05DC010	SE 35-38-17-W5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
SPRAY POWER DIVERSION AT CANMORE	05BE007	SW 32-24-10-5	C-TAU	TAU - Cont.	12QN	1.00	Normal	ANNUAL							
SPRAY RESERVOIR AT THREE SISTERS DAM	05BC006	SW 32-23-10-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
UPPER KANANASKIS LAKE	05BF005	NE 13-19-09-W5	C-TAU	TAU - Cont.	12HN	0.40	Normal	ANNUAL							
GLENMORE RESERVOIR AT CALGARY	05BJ008	SE 32-23-01-W5	C-CITY	City of CAL.	12HN	0.40	Normal	ANNUAL					?City		
Stations Total	19					13.60									

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Sediment Program

Site Identification			Responsibility		Operational Approach					Output Products					
Station Name	Station Number	Station Location	Station Designation	Operator	Station Type	Station Units	Access	Operating Period	Operating Method	Planned Visits	Response Priority	Standards Tier	Real Time	Archive	Other
PROVINCIAL															
OLDMAN RIVER NEAR BROCKET	05AA024	SE 14-07-29-W4	FP2	WSC, Alta.	12QN	1.05	Normal	ANNUAL					Yes		
OLDMAN RIVER NEAR WALDRON'S CORNER	05AA023	NE 10-10-2-W5	FP3	WSC, Alta.	12QN	1.05	Normal	ANNUAL					Yes		
FEDERAL - PROVINCIAL															
OLDMAN RIVER NEAR LETHBRIDGE	05AD007	NW 1-9-22-W4	F2	WSC, Alta.	12QN	0.525	Normal	ANNUAL					Yes		
FEDERAL															
SLAVE RIVER AT FITZGERALD	07NB001		F2	NT - NU	12QR	0.525	Remote	ANNUAL							



APPENDIX B

Schedule D

Annual Payment Details

2009 – 2010

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX B – Schedule D Annual Payment Details 2009 – 2010

Schedule D
 Contributions By Parties
 Canada - Alberta Agreement on Hydrometric Monitoring
 Fiscal Year 2009 - 2010

TYPE OF EXPENDITURE	Stations	Expenditure	SHARE		Schedule D Estimates June 2009					
			FEDERAL	PROVINCIAL	AENV Share		Canada Share		TOTAL	
					Estimate	% of est	Estimate	% of est	Estimate	% of est
Direct Operations										
Hydrometric Network Operated by WSC	398	\$ 2,975,043	\$ 1,189,586	\$ 1,785,457	\$1,709,935	104.4%	\$1,141,719	104.2%	\$2,851,653	104.3%
Hydrometric Equipment Depreciation		\$ 141,626	\$ 56,630	\$ 84,996	\$75,036	113.3%	\$50,102	113.0%	\$125,138	113.2%
Full Program Sediment Stations	4	\$ 30,177	\$ 5,029	\$ 25,147	\$24,135	104.2%	\$4,827	104.2%	\$28,962	104.2%
Sediment Equipment Depreciation		\$ -	\$ -	\$ -	\$0		\$0		\$0	
Sub Total		\$ 3,146,846	\$ 1,251,245	\$ 1,895,600	\$1,809,106	104.8%	\$1,196,648	104.6%	\$3,005,753	104.7%
Indirect Operations										
Hydrometric Network Operated by WSC	398	\$ 489,024	\$ 195,539	\$ 293,486	\$298,047	98.5%	\$199,005	98.3%	\$497,052	98.4%
Full Program Sediment Stations	4	\$ 4,960	\$ 827	\$ 4,134	\$4,207	98.3%	\$841	98.3%	\$5,048	98.3%
Sub Total		\$ 493,985	\$ 196,366	\$ 297,619	\$302,254	98.5%	\$199,846	98.3%	\$502,100	98.4%
Projects										
Life Cycle Management	73	\$ 623,940	\$ 282,305	\$ 341,635	\$234,565	145.6%	\$141,541	199.5%	\$376,105	165.9%
Cableway Upgrades	9	\$ 33,435	\$ 22,167	\$ 11,269	\$33,200	33.9%	\$109,750	20.2%	\$142,950	23.4%
Station Decommissioning							\$99,618	0.0%	\$99,618	0.0%
Network Expansion										
Sub Total		\$ 657,375	\$ 304,471	\$ 352,904	\$267,765	131.8%	\$350,909	86.8%	\$618,673	106.3%
TOTAL		\$ 4,298,206	\$ 1,752,082	\$ 2,546,123	\$2,379,125	107.0%	\$1,747,403	100.3%	\$4,126,527	104.2%
ALBERTA GROSS SHARE:			\$ 2,546,123							
ALBERTA CREDITS:										
a) Direct Operation cost (PAD)										
			\$ (100,589)		\$ (96,542)	104.2%				
			\$ (4,740)		\$ (4,236)	111.9%				
b) Indirect Operation cost (PAD)										
			\$ (16,534)		\$ (16,827)	98.3%				
c) Direct Costs Water Sciences ((\$5,000 X (123.950+.750)) / 313.7)										
			\$ (1,988)		\$ (1,990)	99.9%				
d) Direct Costs Monitoring ((\$5000 X 123.950+.750)) / 313.700										
			\$ (1,988)		\$ (1,990)	99.9%				
d) Christina Lake January - December										
			\$ (10,797)		\$ (10,797)	100.0%				
TOTAL			\$ (136,636)		\$ (132,383)		103.2%			
ALBERTA NET SHARE: Alberta Gross Share - ALBERTA CREDIT			\$ 2,409,487		\$2,246,742		107.2%			
Schedule D payment received by Canada 2009 - 2010			\$ 2,246,742		\$2,246,742					
BALANCE			\$ (162,745)							

Transaction Number
 80521100 CENOVUS ENERGY March 17 2010

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 APPENDIX B – Schedule D Annual Payment Details 2009 – 2010

1.0 DIRECT OPERATIONS

1.1 Salaries

Salaries for personnel charged to the direct operations

			From Estimates	
			% of	
			Actual to Estimates	
	Direct Operations (Appendix A)	\$1,512,292	\$1,512,430	100%
O & M Conversion	= 0.2 X Direct Operations Salary	\$302,458	\$315,486	96%
Overtime (Appendix A)		\$171,246	\$65,000	263%
	Direct Operations Salary (as O&M)	\$1,985,997	\$1,892,916	105%

1.2 Unit Salary Costs

A - Station Units (Appendix B)	313,700		313,300	
B - Direct Operations Salary (as O&M)	\$1,985,997		\$1,892,916	
Direct Operations Unit Salary Cost (B / A)		\$6,331	\$6,042	105%

1.3 O&M Costs

1.3.1 Hydrometric Conventional (from Line Object Totals)	\$819,460		\$788,600	104%
1.3.2. Hydrometric Remote (from Line Object Totals)	\$190,923		\$189,600	101%
1.3.3 Sediment Program (from Line Object Totals)	\$8,840		\$9,500	93%
Direct Operations Operational Costs		\$1,019,223	\$987,700	103%

1.4 Unit O & M Cost

A - Station Units (Appendix B)	313,700		313,300	
B - Direct Operations O&M	\$1,019,223		\$987,700	
Direct Operations Unit Salary Cost (B / A)		\$3,249	\$3,153	103%

1.5 Direct Operations Station Unit Cost

Unit Salary Cost (sec 1.2)		\$6,331	\$6,042	105%
Unit O & M Cost (sec 1.4)		\$3,249	\$3,153	103%
Total		\$9,580	\$9,194	104%

1.6 Capital Depreciation

Motor Vehicles Hydrometric (Appendix C)	\$78,988		\$58,568	135%
<u>Field Equipment</u> amortized over 10 years				
Depreciation Forward	\$43,388		\$25,570	170%
Purchase 2009 - 2010	\$54,389	\$5,439	\$3,500	155%
<u>EDP Equipment</u> amortized over 4 years	\$13,811		\$37,500	37%
Capital Depreciation Direct Operations		\$141,626	\$125,138	113%

Note: References made to Appendix and line objects on this page, references the details in data workbook calculations.

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 APPENDIX B – Schedule D Annual Payment Details 2009 – 2010

2.0 INDIRECT OPERATIONS

2.1 Salaries

		From Estimates	
			% of Actual
Salaries for personnel charged to the indirect operations			
Indirect Operations (Appendix A)	\$239,576	\$238,583	104%
O & M Conversion			
= 0.2 X Indirect Operations Salary	\$47,915	\$47,717	100%
Overtime (Appendix A)	\$12,057	\$0	
Indirect Operations Salary (as O&M)	\$299,549	\$286,300	105%

2.2 Unit Salary Costs

A - Station Units (Appendix B)	313.700	313.300	
B - Indirect Operations Salary (as O&M)	\$299,549	\$286,300	
Indirect Operations Unit Salary Cost (B / A)	\$955	\$914	104%

2.3 Operational Costs

2.3.1 Indirect Operations (O&M)	\$55,513		
2.3.2 Training (O&M)	\$123,160		
2.3.3 Computer Software and Supplies	\$15,763		
	\$194,436	\$215,800	90%

2.4 Unit O & M Cost

A - Station Units (Appendix B)	313.700	313.300	
B - Indirect Operations Salary (as O&M)	\$194,436	\$215,800	
Indirect Operations Unit Salary Cost (B / A)	\$620	\$689	90%

2.5 Indirect Operations Station Unit Cost

Unit Salary Cost (sec 2.2)	\$955	\$914	104%
Unit O & M Cost (sec 2.4)	\$620	\$689	90%
Total	\$1,575	\$1,603	98%

3.0 TOTAL OPERATIONS UNIT COST

A - Unit Costs Direct Operations (item 1.5)	\$9,580	\$9,194	104%
B - Unit Cost Indirect Operations (item 2.5)	\$1,575	\$1,603	98%
Total Operations Unit Costs (A + B)	\$11,155	\$10,797	103%

Notes:

- 1) References made to Appendix and line objects on this page, references the details in data workbook calculations.
- 2) Section 2.3 Estimates included only a total for this section.

APPENDIX C

Schedule D

Annual Payment Estimates

2009 – 2010

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX C – Schedule D Annual Payment Estimates 2009 – 2010

SCHEDULE D
CONTRIBUTIONS BY PARTIES
CANADA –ALBERTA AGREEMENT ON HYDROMETRIC MONITORING
Fiscal Year 2009 - 2010

TYPE OF EXPENDITURE	Stations	TOTAL COST per Schedule B	SHARE	
			FEDERAL	PROVINCIAL
Direct Operations				
Hydrometric Network Operated by WSC	397	\$2,851,653	\$1,141,719	\$1,709,935
Hydrometric Equipment Depreciation		\$125,138	\$50,102	\$75,036
Full Program Sediment Stations	3	\$28,962	\$4,827	\$24,135
Sediment Equipment Depreciation		\$0	\$0	\$0
	Sub Total	\$3,005,754	\$1,196,647	\$1,809,106
Indirect Operations				
Hydrometric Network Operated by WSC	397	\$497,052	\$199,005	\$298,047
Full Program Sediment Stations	3	\$5,048	\$841	\$4,207
	Sub Total	\$502,100	\$199,846	\$302,254
Projects				
Life Cycle Management	60	\$376,105	\$141,541	\$234,565
Cableway Upgrades	7	\$142,950	\$109,750	\$33,200
Station Decommissioning	10	\$99,618	\$99,618	\$0
Network Expansion		\$0	\$0	\$0
	Sub Total	\$618,673	\$350,909	\$267,765
TOTAL		\$4,126,527	\$1,747,403	\$2,379,125

ALBERTA GROSS SHARE: **\$ 2,379,125**

ALBERTA CREDIT:

a) Direct Operation Cost (PAD area plus Oldman Reservoir)		
Hydrometric Stations	\$	(96,542)
Hydrometric Depreciation	\$	(4,236)
b) Indirect Operation Cost (PAD area plus Oldman Reservoir)	\$	(16,827)
c) Direct Costs Water Sciences (\$5000)	\$	(1,990)
d) Direct Costs Monitoring (\$5,000)	\$	(1,990)
d) Christina Lake January - December	\$	(10,797)
	TOTAL	\$ (132,383)

ALBERTA NET SHARE: (Alberta Gross Share - Alberta Credit) **\$ 2,246,742**

Net payment by Alberta to Canada: \$2,246,742

Original signed by
Tom Dickson
Administrator for Alberta
Alberta Environment

Original signed by
Jaymie Gadal
Administrator for Canada
Environment Canada

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX C – Schedule D Annual Payment Estimates 2009 – 2010

1.0 DIRECT OPERATIONS

1.1 Salaries

Salaries for personnel charged to the direct operations (Appendix A)		\$1,512,430
Overtime (Appendix A)		\$65,000
	Direct Operations Salary	\$1,577,430
O & M Conversion		
= 0.2 X Direct Operations Salary		\$315,486
Direct Operations Salary (as O&M)		\$1,892,916

1.2 Unit Salary Costs

A - Station Units (Appendix B)	313.300	
B - Direct Operations Salary (as O&M)	\$1,892,916	
Direct Operations Unit Salary Cost as O&M (B/A)		\$6,042

1.3 O&M Costs

2.1.1	Hydrometric Conventional (from Line Object Totals)	\$788,600	
2.1.2	Hydrometric Remote (from Line Object Totals)	\$189,600	
2.1.3	Sediment Program (from Line Object Totals)	\$9,500	
	Direct Operations Operational Costs		\$987,700

1.4 Unit O & M Cost

A - Station Units (Appendix B)	313.300	
B - Direct Operations O&M	\$987,700	
Direct Operations Unit Operating Cost (B/A)		\$3,153

1.5 Direct Operations Station Unit Cost

Unit Salary Cost (sec 1.2)		\$6,042
Unit O & M Cost (sec 1.4)		\$3,153
	Total	\$9,194

1.6 Capital Depreciation

Motor Vehicles Hydrometric (Appendix C)		\$58,568
Field Equipment Amortized over 10 years		
Depreciation Forward Estimated		\$25,570
Purchase	\$35,000	\$3,500
EDP Equipment amortized over 4 years		\$37,500
	Total	\$125,138

Note: References made to Appendix and line objects on this page, references the details in data workbook calculations

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX C – Schedule D Annual Payment Estimates 2009 – 2010

2.0 INDIRECT OPERATIONS

2.1 Salaries

Salaries for personnel charged to the indirect operations (Appendix A)		\$238,583
Overtime (Appendix A)		\$0
	Indirect Operations Salary	\$238,583
O & M Conversion	= 0.2 X Indirect Operations Salary	\$47,717
	Indirect Operations Salary (as O&M)	\$286,300

2.2 Unit Salary Costs

A - Station Units (Appendix B)	313,300	
B - Indirect Operations Salary (as O&M)	\$286,300	
Indirect Operations Unit Salary Cost as O&M (B/A)		\$914

2.3 Operational Costs

(from Line Object Totals)	\$215,800
2.3.1 Indirect Operations (O&M)	\$0
2.3.2 Training (O&M)	
2.3.2 Computer Software and Supplies	

2.4 Unit O & M Cost

A - Station Units (Appendix B)	313,300	
B - Indirect Operations	\$215,800	
Indirect Operations Unit O&M Cost (B/A)		\$689

2.5 Indirect Operations Station Unit Cost

Unit Salary Cost (sec 2.2)		\$914
Unit O & M Cost (sec 2.4)		\$689
	Total	\$1,603

3.0 TOTAL OPERATIONS UNIT COST

A - Unit Costs Direct Operations (item 1.5)	\$9,194
B - Unit Cost Indirect Operations (item 2.5)	\$1,603
Total Operations Unit Costs (A + B)	\$10,797

Note: References made to Appendix and line objects on this page, references the details in data workbook calculations

APPENDIX D

Schedule D

Annual Payment Estimates

2010 – 2011

CANADA – ALBERTA
 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX D – Schedule D Annual Payment Estimates 2010 – 2011

5/7/2010

SCHEDULE D
 CONTRIBUTIONS BY PARTIES
 CANADA – ALBERTA AGREEMENT ON HYDROMETRIC MONITORING

Fiscal Year 2010 - 2011

TYPE OF EXPENDITURE	NO. OF STNS.	TOTAL COST per Schedule B	SHARE	
			FEDERAL	PROVINCIAL
Direct Operations				
Hydrometric Network Operated by WSC	380	\$ 2,963,777	\$ 1,234,783	\$ 1,728,994
Hydrometric Equipment Depreciation		\$ 125,138	\$ 52,136	\$ 73,002
Full Program Sediment Stations	3	\$ 31,323	\$ 5,221	\$ 26,103
Sediment Equipment Depreciation		\$ -	\$ -	\$ -
Indirect Operations				
Hydrometric Network Operated by WSC	380	\$ 527,806	\$ 219,897	\$ 307,909
Full Program Sediment Stations	3	\$ 5,578	\$ 930	\$ 4,649
Projects				
Life Cycle Management	70	\$ 360,690	\$ 151,942	\$ 208,748
Cableway Maintenance	10	\$ 145,000	\$ 110,000	\$ 35,000
Station Decommissioning	3	\$ 44,400	\$ 42,900	\$ 1,500
Network Expansion		\$ -	\$ -	\$ -
TOTAL		\$ 4,203,713	\$ 1,817,808	\$ 2,385,905

ALBERTA GROSS SHARE: \$ 2,385,905

ALBERTA CREDIT:

a) Direct Operation Cost (PAD area plus Oldman Reservoir)	
Hydrometric Stations	\$ (104,411)
Hydrometric Depreciation	\$ (4,408)
b) Indirect Operation Cost (PAD area plus Oldman Reservoir)	\$ (18,594)
c) Direct Costs Water Sciences (\$5000)	\$ -
d) Direct Costs Monitoring (\$5,000)	\$ (2,070)
d) Christina Lake January - December	\$ (11,715)
TOTAL	\$ (141,198)

ALBERTA NET SHARE: (Alberta Gross Share - Alberta Credit) \$ 2,244,706

Net payment by Alberta to Canada: \$ 2,244,706


 Tom Dickson
 Administrator for Alberta
 Alberta Environment


 Christine Best
 Administrator for Canada
 Environment Canada

APPENDIX E

Projects

2009 – 2010

Life Cycle Management Share Calculation

TOTAL Life Cycle Management Shares =

Sum of SHARES for

a) Salary, b) Project, c) Non-Project, d) shared equipment, e) single party equipment

Federal	(\$103,598 +\$82,230 +\$7,321 +\$62,121 +\$27,035) =	\$282,305
Provincial	(\$155,490 +\$81,919 +\$10,988 +\$93,238 +\$0) =	\$341,635

**Salary
 Distribution**

Const

Note: A portion of the salary shown above is accounted for in the Construction and Cableway projects. The projects are more infrastructure and are more complex to manage than a water level station. Station unit distribution reflects this.

a) Salary Shares

Federal
 Provincial

b) Construction Project - Shares

Federal	(\$38,847 +(\$86,766 / 2)) =	\$82,230
Provincial	(\$38,536 +(\$86,766 / 2)) =	\$81,919

c) Non-Project LCM Expenditure

Vehicle depreciation, computer software, equipment, tools, communication, repairs, etc = \$18,308

Non-Project LCM Expenditures **SHARES** are distributed using station units.

Federal	(\$18,308 *123.425+0.750 / 310.55) =	\$7,321
Provincial	(\$18,308 *186.38 / 310.55) =	\$10,988

d) LCM Shared Expenditure (Shaft encoders, HDR transmitters) = \$155,359

Federal	(\$155,359 *123.425+0.750 / 310.55) =	\$62,121
Provincial	(\$155,359 *186.38 / 310.55) =	\$93,238

e) LCM Projects Funded by Single Party

Federal	\$27,035
Provincial	

CANADA – ALBERTA
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 APPENDIX E – Projects 2009 – 2010

Life Cycle Management Projects

Station No.	Station Name	Designation.	Activity	Expenditure
<u>FEDERAL FUNDED PROJECT</u>				
05BL023	PEKISKO CREEK NEAR LONGVIEW	F-1	Bank stabilization and intake re-installation (flood damage)	\$12,714
05BA002	PIPESTONE RIVER NEAR LAKE LOUISE	F-1	Heat Tape, GFI Breaker	\$1,479
05BN002	TWELVE MILE CREEK NEAR CECIL	F-2	Station Relocation Reconnaissance	\$383
05CJ006	ONETREE CREEK NEAR PATRICIA	F-2	Reconnaissance stabilization	\$383
05CE005	ROSEBUD RIVER AT REDLAND	F-2	Fall Arrest and GFI	\$1,654
05AC003	LITTLE BOW RIVER AT CARMANGAY	F-2	vandalism maintenance	\$707
06AF001	COLD RIVER AT OUTLET OF COLD LAKE	F-2	Station relocation	\$4,846
05AD017	MOUNTAIN VIEW IRRIGATION DISTRICT CANAL	F-2	Relocation Shelter	\$1,605
05BM008	CROWFOOT CREEK NEAR CLUNY	F-2	Electrical Maintenance	\$590
05AH005	SEVEN PERSONS CREEK AT MEDICINE HAT	F-2	Fall arrest, GFI, plumbing repairs	\$2,318
05CJ006	ONETREE CREEK NEAR PATRICIA	F-2	Reconnaissance for bank stabilization	\$206
11AA001	NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY	F-3	Road work	\$11,962
			Total	\$38,847
12			salary component of cost	\$6,985

Life Cycle Management Projects**FEDERAL - PROVINCIAL FUNDED PROJECTS**

05AA026	DUTCH CREEK NEAR THE MOUTH	FP-1	Check access for truck and trailer for shelter removal.	\$130
05DF001	NORTH SASKATCHEWAN RIVER AT EDMONTON	FP-2	Repairs to drainage wall, directional drilling for pressure line	\$6,268
07OB004	STEEN RIVER NEAR STEEN RIVER	FP-2	Service road and parking area repairs	\$6,579
05AD005	BELLY RIVER NEAR MOUNTAIN VIEW	FP-2	Rip Rap Bank Stabilization	\$14,391
05AA035	OLDMAN RIVER AT RANGE ROAD 13A	FP-3	Site Maintenance	\$177
05BJ004	ELBOW RIVER AT BRAGG CREEK	FP-3	Reconnaissance Directional Drilling	\$324
07FD012	MONTAGNEUSE RIVER NEAR HINES CREEK	FP-3	Fall Arrest, GFI, plumbing repairs	\$2,715
07HC001	NOTIKWIN RIVER AT MANNING	FP-3	Fall Arrest, Heat Tape, GFI, rip gauge house area	\$6,726
06AA002	AMISK RIVER AT HIGHWAY NO. 36	FP-3	Site Inspection for Fall Arrest	\$189
07CA006	WANDERING RIVER NEAR WANDERING RIVER	FP-3	Fall Arrest Assessment	\$189
07CA005	PINE CREEK NEAR GRASSLAND	FP-3	De-mouse, minor maintenance	\$588
07CA004	LAC LA BICHE AT LAC LA BICHE	FP-3	Inspection, minor maintenance	\$488
07CA003	FLAT CREEK NEAR BOYLE	FP-3	De-mouse, minor maintenance	\$563
07BC006	DAPP CREEK AT HIGHWAY NO. 44	FP-3	Reconnaissance Fall Arrest	\$189
07BC007	WABASH CREEK NEAR PIBROCH	FP-3	Reconnaissance Fall Arrest	\$189
05CC010	BLOCK CREEK NEAR LEEDALE	FP-3	Assessment	\$189
05CH008	BERRY CREEK NEAR ROSE LYNN	FP-3	Fall Arrest, GFI	\$1,247
05AA004	PINCHER CREEK AT PINCHER CREEK	FP-3	Fall Arrest, GFI and panel	\$1,562
05AA008	CROWNEST RIVER AT FRANK	FP-3	Fall Arrest , GFI	\$1,337
05CB002	LITTLE RED DEER RIVER NEAR WATER VALLEY	FP-3	Electrical maintenance	\$280
05CE010	RAY CREEK NEAR INNISFAIL	FP-3	Reconnaissance	\$81
07AH002	CHRISTMAS CREEK NEAR BLUE RIDGE	FP-3	Fall Arrest, Heat Tape, de-silt	\$2,578
07GG003	IOSEGUN RIVER NEAR LITTLE SMOKY	FP-3	Fall Arrest and GFI	\$1,575
07GE003	GRANDE PRAIRIE CREEK NEAR SEXSMITH	FP-3	Fall Arrest and GFI	\$1,515
07HF002	KEG RIVER AT HIGHWAY NO. 35	FP-3	Fall Arrest, GFI	\$1,575
07JF003	PONTON RIVER ABOVE BOYER RIVER	FP-3	Fall Arrest, GFI	\$1,650
07JD004	TEEPEE CREEK NEAR LA CRETE	FP-3	Fall Arrest , GFI	\$1,515

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 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX E – Projects 2009 – 2010

Life Cycle Management Projects

FEDERAL - PROVINCIAL FUNDED PROJECTS Continued

07JC002	REDEARTH CREEK NEAR RED EARTH CREEK	FP-3	Fall Arrest , GFI	\$1,850
07HA003	HEART RIVER NEAR NAMPA	FP-3	Fall arrest and GFI 90	\$1,515
05CA002	JAMES RIVER NEAR SUNDRE	FP-3	Plumbing Maintenance	\$439
07BK009	SAWRIDGE CREEK NEAR SLAVE LAKE	FP-3	Remove and re-install shelter base on new material	\$2,380
07HA005	WHITEMUD RIVER NEAR DIXONVILLE	FP-3	Inspection	\$338
07FD009	CLEAR RIVER NEAR BEAR CANYON	FP-3	Prepare base, new shelter installed	\$12,202
07AC001	WILDHAY RIVER NEAR HINTON	FP-3	Reconnaissance	\$1,424
07AG003	WOLF CREEK AT HIGHWAY NO. 16A	FP-3	Site inspection for temporary re-location	\$701
05FA014	MASKWA CREEK NO. 1 ABOVE BEARHILLS LAKE	FP-3	Site Inspection	\$701
05ED002	ATIMOSWE CREEK NEAR ELK POINT	FP-3	site inspection and brush clearing	\$114
07GA002	MUSKEG RIVER NEAR GRANDE CACHE	FP-3	Access Road repairs	\$3,509
07GG001	WASKAHIGAN NEAR THE MOUTH	FP-3	Remove tree from cableway	\$200
05DE009	TOMAHAWK CREEK NEAR TOMAHAWK	FP-3	Install GFI and electrical repairs caused from tree	\$1,076
Warehouse	WAREHOUSE RENOVATIONS	FP	Reno to secure stores (construction based salary &OM)	\$5,504
			Total	\$86,766
			salary component of cost	\$18,238

Life Cycle Management Projects**PROVINCIAL FUNDED PROJECTS**

07BE003	PORTER CREEK ABOVE BAPTISTE LAKE	P-1	Relocation	\$5,724	
07GC002	PINTO CREEK NEAR GRANDE PRARIE	P-1	Install Q mm't railing, relocate shelter with new base	\$8,456	
05CE007	THREEHILLS CREEK NEAR CARBON	P-1	Reconnaissance for stilling shelter replacement	\$383	
05CD005	BUFFALO LAKE NEAR ERSKINE	P-1	Plumbing and intake maintenance	\$2,004	
05CE002	KNEEHILLS CREEK NEAR DRUMHELLER	P-1	Fall Arrest and GFI	\$1,247	
05CH011	BERRY CREEK RESERVOIR OUTLET	P-1	Fall Arrest, GFI Breaker, de-silt well	\$1,527	
05AB013	BEAVER CREEK NEAR BROCKET	P-1	Fall Arrest, GFI Breaker	\$1,337	
05FC007	YOUNG CREEK NEAR CASTOR	P-1	Access Ramp	\$504	
05CE006	ROSEBUD RIVER BELOW CARSTAIRS CREEK	P-1	Stilling Well and intake repairs	\$239	
07GD001	BEAVERLODGE RIVER NEAR BEAVERLODGE	P-1	Fall Arrest and GFI	\$1,540	
07GE007	BEAR RIVER NEAR VALHALLA CENTRE	P-1	Fall Arrest and GFI	\$2,003	
05AA032	OLDMAN RESERVOIR NEAR PINCHER CREEK	P-1		\$635	
05GA013	LOYALIST CREEK NEAR CONSORT	P-1	Re-claim discontinued stilling with fill	\$534	
07BF001	EAST PRAIRIE RIVER NEAR ENILDA	P-1	Remove and re-install shelter base on new material	\$2,580	
05ED003	MOOSEHILLS CREEK NEAR ELK POINT	P-1	Site Inspection	\$114	
07JC003	LOON RIVER NEAR THE MOUTH	P-1	Site Inspection	\$751	
05AD028	WATERTON RIVER NEAR GLENWOOD	P-1	Bank Stabilization and Cableway markers	\$6,740	
05AA022	CASTLE RIVER NEAR BEAVER MINES	P-1	Install a gate(post and gate)	\$465	
07BE001	ATHABASCA RIVER AT ATHABASCA	P-1	relocate desert box	\$1,394	
05AC025	MCGREGOR TRAVERS CANAL NEAR CHAMPION	P-1	Reconnaissance Bank Operated Cableway	\$360	
				Total	\$38,536
20			salary component of cost	\$	8,636

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 2009 – 2010 Memorandum of Agreement for Water Quantity Surveys
 APPENDIX E – Projects 2009 – 2010

Cableway Projects

Cableway Shares

Federal (F project+ ((FP project) / 2) =
 (\$15,095+(\$14,142 / 2)) = \$22,167

Provincial (P project+ ((FP project) / 2) =
 (\$4,197 +(\$14,142 / 2)) = \$11,269

Cableway Project Salary \$4,183

Station No.	Station Name	Designation	Activity	Expenditure
FEDERAL FUNDED PROJECT				
3	05DA009	F-1	Reconnaissance, casual hire for assessment work	\$2,746
	05AD007	F-2	Reconnaissance	\$177
	05AE027	F-3	cableway contract drawings, site reconnaissance,	\$12,172
			Total	\$15,095
			salary component of cost	\$3,115
FEDERAL - PROVINCIAL FUNDED PROJECTS				
2	07FD009	FP-3	Cableway Material prep purchase 10 - 11	\$11,311
	05BM004	FP-2	Cable car repairs, installed air craft marker cones	\$2,831
			Total	\$14,142
			salary component of cost	\$410
PROVINCIAL FUNDED PROJECTS				
4	05CB007	P-1	new cable car	\$2,841
	05AG006	P-1	Cableway Reconnaissance	\$206
	05AE006	P-1	Reconnaissance re cable markers	\$383
	07AA007	P-1	site assessment	\$768
			Total	\$4,197
			salary component of cost	\$659

