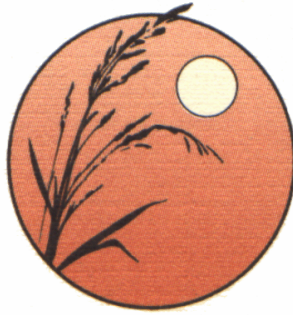


# Cypress County

Part of the Missouri and South Saskatchewan River Basins  
Parts of Tp 001 to 021, R 01 to 13, W4M  
Regional Groundwater Assessment

Prepared for Cypress County



In conjunction with



Agriculture and  
Agri-Food Canada

Agriculture et  
Agroalimentaire Canada

Prairie Farm Rehabilitation  
Administration

Administration du rétablissement  
agricole des Prairies

Canada 

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## PERMIT TO PRACTICE

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## PERMIT NUMBER P 385

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta

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## Table of Contents

1.	Project Overview .....	1
1.1	Purpose .....	1
1.2	The Project .....	2
1.3	About This Report .....	2
2.	Introduction .....	3
2.1	Setting .....	3
2.2	Climate .....	3
2.3	Background Information .....	4
2.3.1	Number, Type and Depth of Water Wells .....	4
2.3.2	Number of Water Wells in Surficial and Bedrock Aquifers .....	4
2.3.3	Casing Diameter and Type .....	5
2.3.4	Dry Water Test Holes .....	6
2.3.5	Requirements for Licensing .....	6
2.3.6	Groundwater Chemistry and Base of Groundwater Protection .....	7
3.	Terms .....	9
4.	Methodology .....	10
4.1	Data Collection and Synthesis .....	10
4.2	Spatial Distribution of Aquifers .....	12
4.3	Hydrogeological Parameters .....	12
4.4	Maps and Cross-Sections .....	13
4.5	Software .....	13
5.	Aquifers .....	14
5.1	Background .....	14
5.1.1	Surficial Aquifers .....	14
5.1.2	Bedrock Aquifers .....	15
5.2	Aquifers in Surficial Deposits .....	16
5.2.1	Geological Characteristics of Surficial Deposits .....	16
5.2.2	Sand and Gravel Aquifer(s) .....	18
5.2.3	Upper Sand and Gravel Aquifer .....	21
5.2.4	Lower Sand and Gravel Aquifer .....	22
5.3	Bedrock .....	23
5.3.1	Geological Characteristics .....	23
5.3.2	Aquifers .....	25
5.3.3	Chemical Quality of Groundwater .....	26
5.3.4	Horseshoe Canyon (Eastend) Aquifer .....	27

5.3.5	Other Cypress Hills Area Aquifers .....	27
5.3.6	Bearpaw Aquifer .....	28
5.3.7	Oldman Aquifer .....	29
5.3.8	Foremost Aquifer .....	30
5.3.9	Milk River Aquifer.....	31
6.	Groundwater Budget.....	33
6.1	Hydrographs .....	33
6.2	Estimated Water Use from Unlicensed Groundwater Users .....	36
6.3	Groundwater Flow.....	37
6.3.1	Quantity of Groundwater .....	39
6.3.2	Recharge/Discharge .....	39
6.4	Areas of Groundwater Decline.....	42
6.5	Discussion on Specific Study Areas .....	44
6.5.1	Dunmore Gravels Aquifer Area .....	44
6.5.2	Schuler/Hilda Area.....	45
6.5.3	Ralston/Suffield Area .....	46
6.5.4	North Slope Cypress Hills/Bullshead Area .....	47
6.5.5	Hamlet of Irvine Area.....	48
6.5.6	Highway 3 Corridor – Medicine Hat to Seven Persons .....	49
6.5.7	Elkwater Lake .....	50
7.	Recommendations .....	51
8.	References.....	53
9.	Conversions .....	58
10.	Glossary .....	59

## List of Figures

Figure 1. Index Map.....	3
Figure 2. Location of Water Wells and Springs.....	4
Figure 3. Location of Water Well Type.....	5
Figure 4. Surface Casing Types Used in Drilled Water Wells.....	6
Figure 5. Depth to Base of Groundwater Protection (after EUB, 1995) .....	8
Figure 6. Generalized Cross-Section (for terminology only) .....	9
Figure 7. Geologic Column .....	9
Figure 8. Hydrogeological Map.....	11
Figure 9. Cross-Section D - D' .....	14
Figure 10. Cross-Section G - G' .....	15
Figure 11. Bedrock Topography .....	16
Figure 12. Thickness of Sand and Gravel Deposits.....	17
Figure 13. Water Wells Completed in Surficial Deposits.....	18
Figure 14. Apparent Yield for Water Wells Completed in Sand and Gravel Aquifer(s) .....	19
Figure 15. Total Dissolved Solids in Groundwater from Surficial Deposits .....	20
Figure 16. Apparent Yield for Water Wells Completed through Upper Sand and Gravel Aquifer.....	21
Figure 17. Apparent Yield for Water Wells Completed through Lower Sand and Gravel Aquifer.....	22
Figure 18. Bedrock Geology .....	23
Figure 19. E-Log showing Base of Foremost Formation.....	24
Figure 20. Apparent Yield for Water Wells Completed in Upper Bedrock Aquifer(s) .....	25
Figure 21. Total Dissolved Solids in Groundwater from Upper Bedrock Aquifer(s).....	26
Figure 22. Apparent Yield for Water Wells Completed through Horseshoe Canyon Aquifer .....	27
Figure 23. Apparent Yield for Water Wells Completed through Bearpaw Aquifer.....	28
Figure 24. Apparent Yield for Water Wells Completed through Oldman Aquifer.....	29
Figure 25. Apparent Yield for Water Wells Completed through the Foremost Aquifer.....	30
Figure 26. Apparent Yield for Water Wells Completed through the Milk River Aquifer .....	31
Figure 27. Location of AENV Obs WWs .....	33
Figure 28. Annual Precipitation vs Water Levels in AENV Obs WW No. 107 .....	33
Figure 29. Monthly Temperature and Winter Precipitation vs. Water Levels in AENV Obs WW No. 107 .....	34
Figure 30. Hydrograph - AENV Obs WW No. 119 .....	34
Figure 31. PFRA Windmill WSW Water Levels vs WSW No. 3-98 Groundwater Production.....	35
Figure 32. Estimated Water Well Use Per Section .....	37
Figure 33. Non-Pumping Water-Level Surface in Surficial Deposits Based on Water Wells Less than 20 Metres Deep.....	39
Figure 34. Recharge/Discharge Areas between Surficial Deposits and Upper Bedrock Aquifer(s) .....	40
Figure 35. Recharge/Discharge Areas between Surficial Deposits and Oldman Aquifer.....	41
Figure 36. Changes in Water Levels in Sand and Gravel Aquifer(s) Based on Water Wells Less than 20 Metres Deep .....	42
Figure 37. Changes in Water Levels in Upper Bedrock Aquifer(s).....	43
Figure 38. Specific Study Areas.....	44
Figure 39. Elkwater Lake Mean Monthly Water Levels vs. Annual Precipitation.....	50

## List of Tables

Table 1. Licensed Groundwater Diversions .....	7
Table 2. Concentrations of Constituents in Groundwaters from Upper Bedrock Aquifer(s) .....	7
Table 3. Concentrations of Constituents in Groundwaters from Surficial Aquifers.....	20
Table 4. Completion Aquifer .....	25
Table 5. Apparent Yields of Bedrock Aquifers .....	25
Table 6. Unlicensed and Licensed Groundwater Diversions.....	36
Table 7. Total Groundwater Diversions .....	37
Table 8. Groundwater Budget.....	38
Table 9. Groundwater Query Results – Dunmore Area .....	44
Table 10. Groundwater Query Results – Schuler/Hilda Area.....	45
Table 11. Groundwater Query Results – Ralston/Suffield Area .....	46
Table 12. Groundwater Query Results – North Slope Cypress Hills/Bullshead Area.....	47
Table 13. Water Wells in Tp 009, Rg 01 to 04, W4M.....	47
Table 14. Groundwater Query Results – Hamlet of Irvine Area .....	48
Table 15. Groundwater Query Results – Highway 3 Corridor – Medicine Hat to Seven Persons .....	49

## Appendices

- A. Hydrogeological Maps and Figures
- B. Maps and Figures on CD-ROM
- C. General Water Well Information
- D. Maps and Figures Included as Large Plots
- E. Water Wells Recommended for Field Verification

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## 1. Project Overview

### “Water is the lifeblood of the earth.” - Anonymous

How a County takes care of one of its most precious resources - groundwater - reflects the future wealth and health of its people. Good environmental practices are not an accident. They must include genuine foresight with knowledgeable planning. Implementation of strong practices not only commits to a better quality of life for future generations, but also creates a solid base for increased economic activity. **Though this report’s scope is regional, it is a first step for Cypress County in managing their groundwater. It is also a guide for future groundwater-related projects.**

#### 1.1 Purpose

This project is a regional groundwater assessment of Cypress County prepared by Hydrogeological Consultants Ltd. (HCL) with financial and technical assistance from Prairie Farm Rehabilitation Administration (PFRA). The regional groundwater assessment provides the information to assist in the management of the groundwater resource within the County. Groundwater resource management involves determining the suitability of various areas in the County for particular activities. These activities can vary from the development of groundwater for agricultural or industrial purposes, to the siting of waste storage. **Proper management ensures protection and utilization of the groundwater resource for the maximum benefit of the people of the County.**

The regional groundwater assessment will:

- identify the aquifers<sup>1</sup> within the surficial deposits<sup>2</sup> and the upper bedrock
- spatially identify the main aquifers
- describe the quantity and quality of the groundwater associated with each aquifer
- identify the hydraulic relationship between aquifers
- identify possible groundwater depletion areas associated with each upper bedrock aquifer.

Under the present program, the groundwater-related data for the County have been assembled. Where practical, the data have been digitized. These data are then used in the regional groundwater assessment for Cypress County.

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<sup>1</sup> See glossary

<sup>2</sup> See glossary