

Alberta's Base of Groundwater Protection (BGWP) Information Layout Document

August 2020

Alberta Energy Regulator

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Published by

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1 Introduction

1.1 Overview

The BGWP elevation data provide BGWP elevations (metres above sea level) for every legal subdivision (LSD) across Alberta, except for the mountainous region and the NE quarter of Alberta. The BGWP is the best estimate of the elevation of the base of the formation in which nonsaline groundwater occurs at that location.

1.2 Available Formats and Publications

- TXT
- Shapefile

Both publications are available through the www.aer.ca website at no charge.

This layout is for the TXT format.

1.3 Problems

If you have any questions about these files, please contact [InformationRequest@aer.ca](mailto:InformationRequest@ aer.ca)

1.4 Confidentiality

All files and programs are processed to exclude confidential data. Data is made available once it has been released from confidential status.

1.5 Disclaimer

The AER

- makes no representation, warranties, or guarantees, expressed or implied, for the fitness of the data file with respect to intended use;
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2 Attributes

The table below lists the attributes and the attributes descriptions found in the BGWP TXT file.

Attribute	Description
Groundwater_Base_LSD	Location Legal Subdivision: The DLS legal subdivision designation of a location to which the groundwater data applies.
Groundwater_Base_Section	Section: The DLS section designation of a location to which the groundwater data applies.
Groundwater_Base_Township	Township: The DLS township designation of a location to which the groundwater data applies.
Groundwater_Base_Range	Range: The DLS range designation of a location to which the groundwater data applies.
Groundwater_Base_Meridian	Meridian: The DLS meridian designation of a location to which the groundwater data applies.
Groundwater_Base_10TM_Northing	10TM northing coordinate for the location in metres based on NAD83. The northing is measured from the equator.
Groundwater_Base_10TM_Easting	10TM easting coordinate for the location in metres based on NAD83.
Groundwater_Elevation	Estimated elevation (relative to sea level) of the BGWP. BGWP elevations are based on AGS stratigraphic interpretation.
Groundwater_Protection_Formation	AER equivalent of the formation below the deepest protected formation. Groundwater protection buffers of 15 m or 30 m are set from this "protection formation."