

Project Summary Table

Proponent name:	TBD*: MD of Acadia and Special Areas Board	Date:	June 16, 2023
Project name:	MD of Acadia and Special Areas Joint Irrigation Project (East Central Irrigation Project)	Company contact name and information:	Trent Caskey
Name of company that will hold approval:	TBD*: MD of Acadia and Special Areas Board	Company website:	https://specialareas.ab.ca/regionalirrigation/
Type of project (e.g., water management, hydroelectric, etc.):	Irrigation	New project, expansion, additional phase or modification:	New project
Project location (legal land description and municipality):	Covers >108,000 acres in MD of Acadia and Special Areas No. 2. (See Figure 1, attached conceptual Project map)	Total project area (ha):	>47,995 ha (118,600 ac)**
Indicate whether the project is on private, federal or provincial land:	Private and provincial	List any parks/protected areas/conservation areas that may be impacted:	N/A
Nearest First Nation Reserve(s) and Métis Settlements (name and km):	Siksika Nation (145km)	Nearest waterway/ water body (name and km):	Red Deer River (0 km)
Nearest provincial highway (# and distance):	Highway 41 (0 km) and Highway 555 (0 km)	Potential annual water usage and source:	Estimated to require up to 175,000 dam ³ / year from the Red Deer River
Expected types of air emissions (e.g., SO ₂ , NO _x , CO ₂ , etc.):	CO ₂	Types of wastes generated and disposal location:	N/A

Brief Project Description

Include major project processes and products, components including capacity and size, infrastructure requirements and general project location.

The MD of Acadia and Special Areas Joint Irrigation Project (the Project) is a proposed greenfield irrigation project that will provide irrigation to an estimated 108,000 acres in the MD of Acadia and Special Areas. The Project will divert up to an estimated 175,000 dam³ of water per year from the Red Deer River near the location of the Bindloss Bridge (where range road 30A crosses the Red Deer River). The maximum instantaneous diversion from the River is estimated to be 15 m³/s.

Water will be diverted to two separate offstream reservoirs. The first reservoir (Reservoir A1) will be located on the north side of the river and have a live storage volume of 34,000 dam³. The maximum dam height for this reservoir will be 30.5 m. The second reservoir (Prince's Springs Reservoir) will be located on the south side of river and have a live storage volume of 134,000 dam³. The maximum dam height for this reservoir will be 40 m. Pumping stations will be used to pump water through a conveyance system of pipelines and canals to the irrigable lands.

All irrigation is expected to be located on existing cultivated fields, however reservoir locations and conveyance infrastructure will impact grassland habitat. An estimated 4,262.71 ha will be removed for the construction of reservoirs and water conveyance infrastructure.

- *It is anticipated that in the future, a governing entity (possibly a Municipally Controlled Corporation or Private Corporation) will be the appropriate "Proponent" and "Proposal Holder", however at this time those titles will be jointly held by the MD of Acadia and Special Areas Board.
- **This area includes both the proposed irrigated acres (108,000 acres) plus land required for key infrastructure (pump stations, reservoirs and water conveyance).

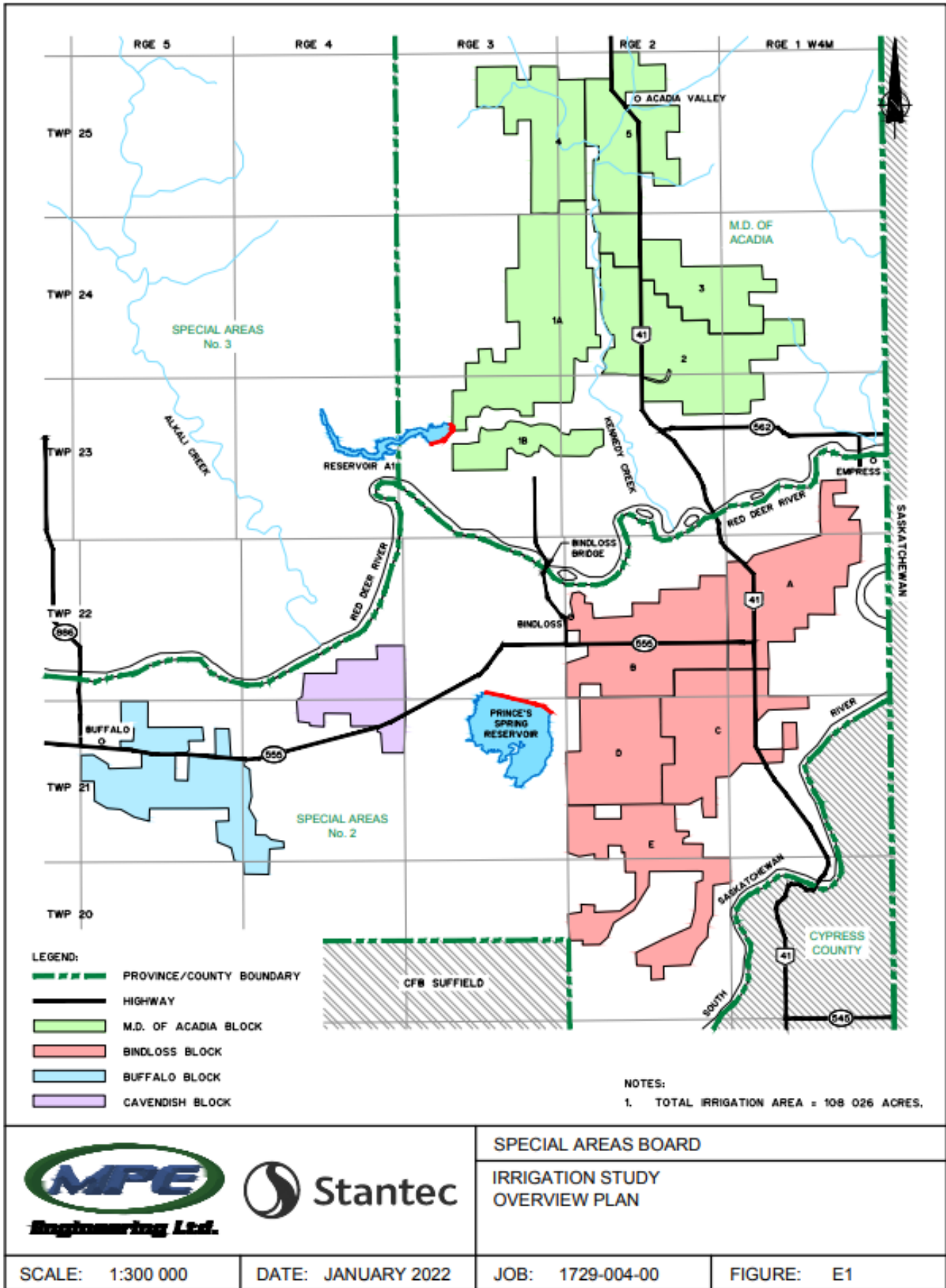


Figure 1 - Conceptual Project map.