

Project Profile

Assiniboine Park Zoo Journey to Churchill

Type of Service

Mechanical

Sector

Industrial / Commercial

Delivery Method

Design Bid Build

Project Manager

Shawn Henry

Superintendent

Scott Stronciski

Completed

July 2014

Value

\$6,420,000



Winnipeg, MB

The Journey to Churchill project is one of the largest Polar Bear Research Centre and Exhibits in the World. Wescan provided Mechanical services for the state of the art facility that houses polar bears, seals, muskox, arctic foxes, snowy owls and caribou.

The salt water filtration system consisted of using: sand filters; degas towers; ozone



generators; ozone speece cones; protein fractionators and a backwash recovery system. The backwash recovery system was installed to minimize the consumption of salt with in the exhibits.

Owner

Assiniboine Park Conservancy
Rick Chopp

Engineer

SMS Engineering Ltd.
Stirling Walkes
Ph: (204) 775-0291

Contractor

Stuart Olson
Grant Rae
Ph: (403) 520-6565

Wescan's Scope of Work Included:

Water Systems

- Salt Water Life Support/Filtration system for both polar bears and seals
- Fresh Water Life Support/Filtration system for both Polar Bears and Wolves
- Pool Heating and cooling system generated by a geothermal field, ClimaCool Water to Water Heat Pump, heat exchanger and a 4,500,000 BTU Natural Gas Boiler
- Ice protection system using radiant heat within the pool walls
- Building Heating and Cooling system generated by a geothermal field using water to air heat pumps and a 1,500,000 BTU Natural Gas Boiler.

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Additional Systems

- Ventilation System with VAV's, water to air heat pumps, HRV's and RTU's
- Steam humidification system
- Sanitary and storm sewer systems
- Building automation system
- Animal drinkers throughout the exhibit
- Complete retrofit of an existing washroom

Project Highlights

- LEED Silver Certification
- Value engineering efforts

