

# Client Profile: Alberta Environment & Parks

## AT A GLANCE



### Alberta AEP

The Province of Alberta has a population of 4.2 million people and covers a land area of 255,970 square miles. The Alberta Ministry of Environment and Parks (AEP) is the provincial government's stewards of air, land, water and biodiversity. They lead the effort to achieve sustainable development of natural resources for Albertans. AEP manages the use of Alberta's diverse landscape to sustain a healthy environment, a prosperous economy, and strong communities.

### Challenge: Water Management Infrastructure

The Alberta Ministry of Environment and Parks oversees the water management infrastructure, which consists of storage reservoirs, dams, diversion headworks and main canal systems. It provides an assured water supply for municipal, industrial, agricultural, and recreational use as well as fish and wildlife habitat, flood control, and

erosion protection. More than 10,000 assets are tracked with an approximate replacement cost of \$8 billion.

### A POSSE-powered Solution

When the Government of Alberta was looking to address ongoing Capital funding needs and rationalize the decision-making process for all infrastructure, they turned to Computronix and POSSE. POSSE was configured to manage information for evaluation and priority setting for maintenance, rehabilitation and replacement of water management infrastructure. These areas included:

- Asset inventory
- Inspections
- Maintenance
- Performance measures
- Geotechnical instrumentation
- Capital Projects
- Dam Safety

### Mobility

The solution includes a mobile application that allows for remote field inspections using a tablet device. Work order assignments are downloaded to the inspector's devices. Inspectors check a wide variety of water regulating structures for overall condition any signs of deterioration such as cracks, depressions, sink holes, standing water, running water, signs of leakage, sloughing, erosion, weeds, silt build-up and any accelerated growth. Inspections can be completed without internet connectivity, with full synchronization to the POSSE database occurring once internet connectivity is restored.

- ✓ POSSE provides workflow management, to-do lists, task forwarding, and e-mail notifications across all functional areas.
- ✓ Information collected about inventory/assets is recorded only once to eliminate any transcription errors.
- ✓ GIS integration allows geo-tagging of assets, deficiencies or photos automatically.
- ✓ Full reporting capability categorizes the nature of each asset and upcoming recommended maintenance.
- ✓ With integrated camera on mobile device, photos can be attached directly to inspection results or deficiencies

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