



Reinvent the way you run your operations.

Interactive asset management
applications that replicate
your real-world plant.

An efficient way to unify,
visualize, and access facility
data all in one central place.

OUR LATEST PROJECT

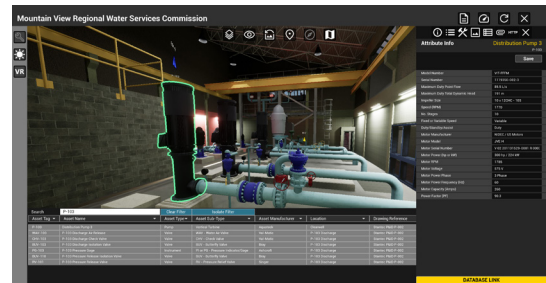
Mountain View Regional Water Services Commission Asset Management Application

Red Deer County, Alberta
Start: February 2022 - Ongoing



With 30,000 residents across six communities along the Red Deer River in Alberta, the Mountain View Regional Water Services Commission (MVRWSC) needed a centralized approach to asset management in the Anthony Henday Water Treatment Plant. With asset and maintenance data scattered between multiple hardcopy logbooks, the MVRWSC was looking for a user-friendly program that amalgamated essential information into one central place, with little to no demand for an in-house programmer or IT support.

ISL developed just that — a “low-code /no-code” stand-alone, interactive asset management application that acts as a virtual replica of their real-world plant, providing an efficient way to unify, visualize, and access facility data.





We digitized the existing plant assets into a 3D model using 3D laser scans, site photography, and available CAD files. A database was designed using Microsoft Dataverse with MVRWSC's existing documents and files. Using Unreal Engine, a 3D gaming engine, we developed the user-friendly interface and connected the database to the 3D model, allowing operators to virtually maneuver through the plant, and swiftly view and update equipment specs and maintenance stats at the click of a button.

THE MVRWSC APP HELPS OPERATORS...

- ✓ Save time and reduce plant performance errors
- ✓ Stay organized and make better informed decisions
- ✓ Access operational data remotely
- ✓ Take a proactive versus reactive approach to plant maintenance



VIEW THE APP IN ACTION!

HOW DOES IT WORK?

Whether creating an application based on an existing plant or a brand-new facility, we work collaboratively with you to craft an optimally tailored management platform to suit your operation needs.



Our non-proprietary software solutions are built using third-party platforms, giving you full ownership over your application. Provide us with your facility data such as SOPs, equipment data, CAD files or 3D models, P&IDs and any other relevant information, and we'll take care of the rest with a skillful team of experts across multiple disciplines.

- 3D Laser Scanning
- 3D Modelling
- Software/Citizen Development
- Water & Wastewater Engineering
- Municipal Engineering

ISL works collaboratively to create an accurate replica of your plant and a functional centralized database allowing operators to access essential data/stats at the click of a button.

WHAT'S NEXT FOR ISL'S ASSET MANAGEMENT SYSTEMS?

We continue to incorporate and adapt as technology creates opportunity. You're only limited by your imagination!

Future available features:

- Mobile tablet interface functionality
- Real-time data sourced by onsite sensors
- Maintenance notifications
- Generated data analysis and reports and more

Want to learn more?

Let us show you how we can help optimize your plant. Contact **Garnet Dawes** at gdawes@islengineering.com for more information.