CASE STUDY

Material wait times cut in half to save $75 Million with Octave Loop Material Readiness

Key facts:

Industry: Wastewater

Country: Canada

Octave products used: Loop Material Readiness *(Jovix)*, Active RFID tags, Gate reader, Mobile Devices, Vehicle-Mounted Readers

Key benefits:

- Reduced wait times by 50%
- Saved $75M
- Increased mod yard efficiency
- Reduced time to create MWRs and pick lists

Introduction

The client used Loop Material Readiness on two projects in Alberta, Canada. One is a sustainment project on operation facilities, consisting of a wastewater treatment plant and a booster pump house.

Jobsite challenges

- Crews were 5% less productive due to waiting on materials
- Contractor claims on late material were estimated to cost the project $10 million
- No way to create material withdrawal requests (MWRs) and pick lists across multiple commodities
- Material status updates had to be tracked across multiple documents, increasing the likelihood of error

How was Loop Material Readiness used?

- Warehoused materials always visible by using active RFID tags and gate readers
- Tablets were used to locate materials in up to 4 feet of snow
- Multiple materials could be added to a single MWR and pick list, reducing transaction time
- Eliminated the need for multiple documents and reduced errors

Results

- Reduced material wait times by 50%, leading to an estimated savings of $75M
- Decreased material location time, increased receiving accuracy and eliminated re-procurement costs, leading to estimated savings of $10M
- Increased mod yard efficiency, estimated to save $4.5M
- Reduced time to create MWRs and pick lists

Reduced material wait times by

50%

Deployment

Tablets

Built to withstand harsh environments, rugged tablets extend track and trace functionality into the field.

RFID Tags

Active RFID tags automate material identification and tracking throughout the material's lifecycle.

Vehicle-Mounted Reader (VMR)

VMRs provide automatic material location updates as they sweep the laydown yard.

Gate Reader

Gate readers automate data collection through shipping, receiving and intra-site transfers.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

©2026 Octave Intelligence plc and/or affiliates. All rights reserved.