

DREDGEPACK® Monitor and DQM Direct Merged Experience

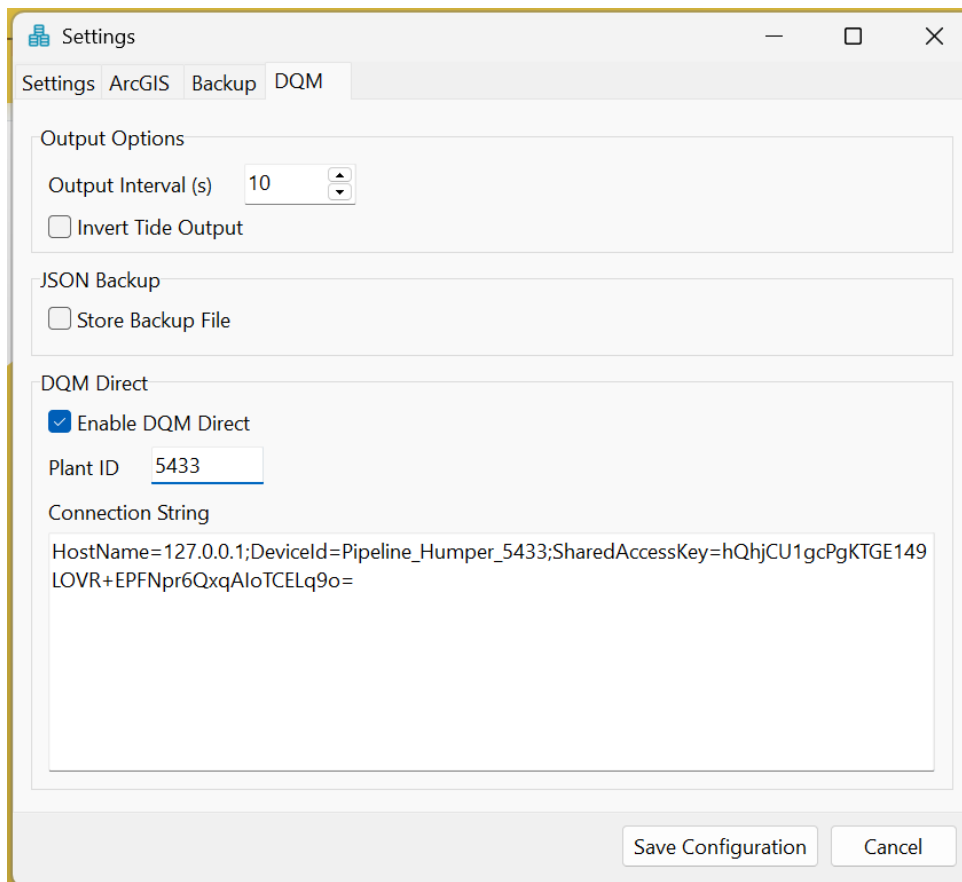
by Trevor Hamlett

The DREDGEPACK® Monitor program has been enhanced to incorporate the functionality previously provided by the standalone DQM Sender driver. By combining these two applications into a single interface, users can now manage DQM reporting and operational data collection from one centralized location, reducing setup time and eliminating redundant configuration tasks.

Article Keywords:

- HYPACK Monitor Program
- DQM Direct
- Reporting
- Operational Data Collection

Historically, users participating in DQM projects were required to configure both the Monitor program and the separate DQM Sender application to satisfy reporting requirements. With this update, all DQM-related configuration and reporting tools are now available directly within the Monitor program through a dedicated DQM tab. Users can simply enable the DQM Direct option, and enter the Plant ID and connection information provided by the Army Corps of Engineers to begin transmitting data.



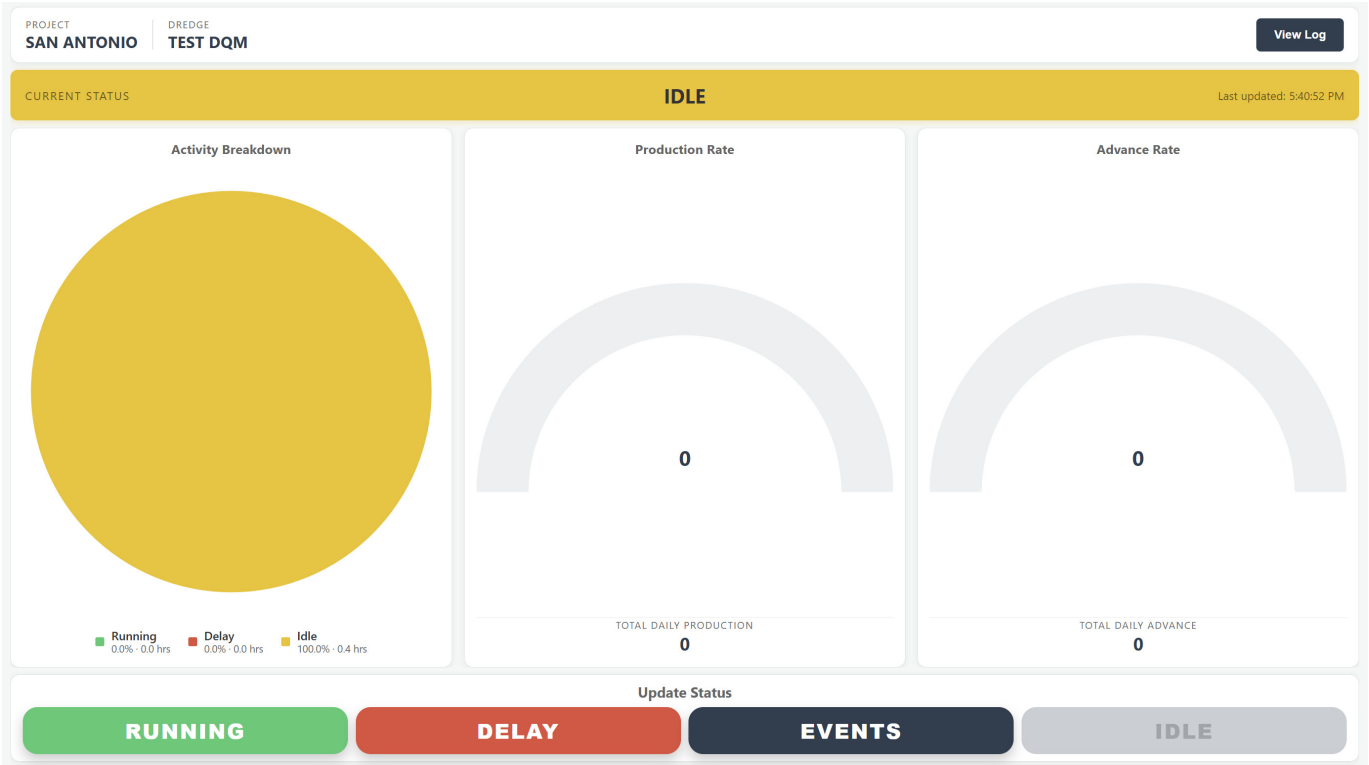
The screenshot shows the 'Settings' window with the 'DQM' tab selected. The window has tabs for 'Settings', 'ArcGIS', 'Backup', and 'DQM'. The 'DQM' tab contains the following sections:

- Output Options:**
 - Output Interval (s): 10
 - ☐ Invert Tide Output
- JSON Backup:**
 - ☐ Store Backup File
- DQM Direct:**
 - ☒ Enable DQM Direct
 - Plant ID: 5433
 - Connection String:


```
HostName=127.0.0.1;DeviceId=Pipeline_Humper_5433;SharedAccessKey=hQhjCU1gcPgKTGE149LOVR+EPFNpr6QxqAloTCELq9o=
```

At the bottom right, there are two buttons: 'Save Configuration' and 'Cancel'.

The user interface has also been updated to support the integrated workflow. When DQM Direct is enabled, the Monitor program automatically presents additional controls and reporting tools required for DQM compliance. A new Events button is added directly within the interface, providing operators with a centralized location to create and manage DQM-related events. This eliminates the need to switch between separate applications and allows users to report pipeline, booster, outfall, contract, station, and advance events from within the same environment used for daily monitoring operations. By incorporating these controls directly into the Monitor interface, the workflow becomes more intuitive while reducing the complexity of DQM reporting.



Events

WORK EVENT COMMENT

RELATED EVENTS

Pipeline Pipeline

Floating (ft) Submerged (ft) Land (ft)

0 0 0

Booster Pump Booster Pump

Total Count Note

0

Outfall Position Outfall Position

Location Latitude Longitude Heading (°) Elevation (ft)

0 0

Contract Event Contract Event

Contract #

Station Event Station Event

Area Cut Pass Station

Advance Event Advance Event

From Station To Station Advance (ft)

0

Cancel

The system also provides immediate visual feedback on transmission status, allowing users to quickly identify whether information has been successfully delivered.

RELATED EVENTS

Pipeline

Pipeline

Floating (ft)

15

Submerged (ft)

0

Land (ft)

0

RELATED EVENTS

Pipeline

Last Sent: 6/7/2026, 6:00:48 PM

Pipeline

Floating (ft)

15

Submerged (ft)

0

Land (ft)

0

In addition, downtime reporting has been streamlined through an integrated Delay interface. When dredging operations are interrupted, operators can select the appropriate delay reason and submit the required information directly to the Army Corps. Depending on the selected delay category, the system will prompt for any additional details required for compliance.

Select Delay Reason

All

External

Maintenance

Operations

Personnel

Collision

Contractors Negligence

Loss Due to Natural Elements

Loss Due to Passing Vessel

Stand-By Time as Directed

Waiting Attendant Plant

Change Cutter-head

Change Impeller

Clean Cutter Suction

Clean Pump Pipeline

Operating Repairs

Out of Commission

Repair Pipeline

Taking on Fuel & Supplies

Add/Remove Pipe

Assisting Grnded Vessels

Change Location Bar

Dike Repair

Excessive Time - Explain

Handling Shore Pipe

Cancel

Pipe Adjustment

+ Add Pipe

– Remove Pipe

Floating (ft)

0

Submerged (ft)

0

Land (ft)

0

PREVIEW TOTALS

Floating

0 → 0

Submerged

0 → 0

Land

0 → 0

Notes (Optional)

Additional details...

Cancel

Apply & Send

Add Notes

Operating Repairs

Notes (Optional)

Additional details about this delay...

Cancel

Done

A key benefit of this integration is that while data is being transmitted to the DQM system, all operational information continues to be stored within the Monitor database. This ensures that the data remains available for the HYPACK Link and Reports programs, allowing organizations to run performance analysis, identify operational inefficiencies, and generate valuable reporting insights without requiring any additional workflows. By consolidating DQM reporting and operational data collection into a single application, the updated Monitor program provides a more efficient user experience, simplifies project setup, and reduces the potential for errors associated with managing multiple applications.