NATIONAL DREDGING QUALITY MANAGEMENT (DQM) PROGRAM

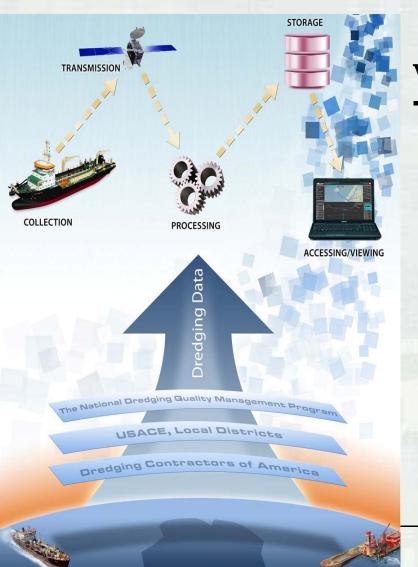
2012 WEDA PACIFIC CHAPTER SEWARD, ALASKA 7 SEPTEMBER 2012

VERN GWIN
NATIONAL DQM CENTER





NATIONAL DREDGING QUALITY MANAGEMENT (DQM) PROGRAM



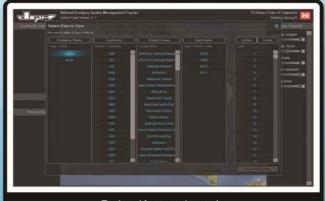
WHAT'S NEW IN 2012

- V2.5 RELEASE
- DATABASE UPDATES
- New On-Board SOFTWARE
- DYNAMIC WEB SITE
- CUTTERHEAD PDT
- MECHANICAL DEMO



DQM TOOLS

The DQM Viewer is the latest and greatest addition to the USACE dredging tools collection, providing an interactive Silverlight application for selecting dredging projects, graphing load data, managing and requesting disposal plot information, as well as providing data exports.



Selecting a Load

Viewing a load with graphs



Disposal Plot

COMING SOON

- ► Email alerts for compliance issues
- ▶ Viewing/exporting multiple loads
- **▶** Dredge plots







DQM CONSOLE



Below is the list of tools available for viewing and interacting with DQM dredging data. The newest versions of the tools are found under the version 2.5 header.

DQM Console Tools (version 2.0)

Online Data Viewer

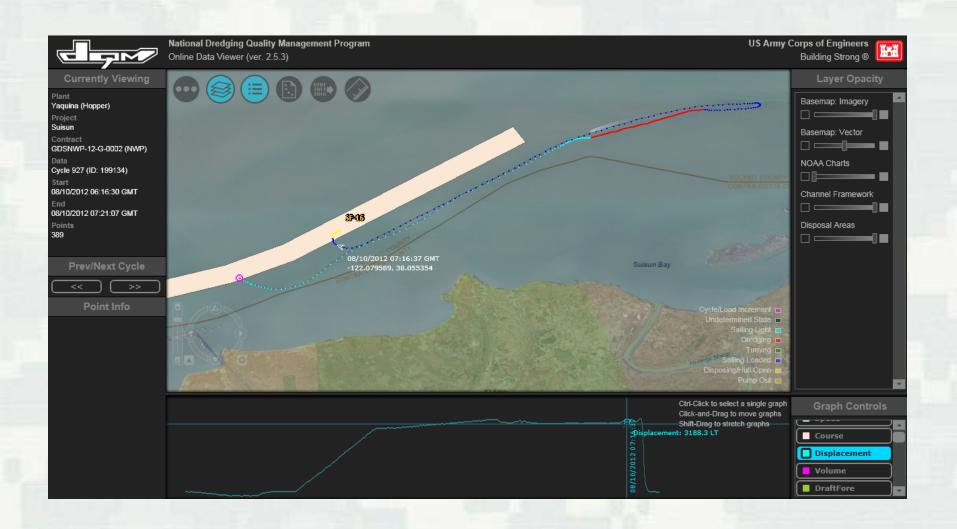
DQM Console Tools (version 2.5)

- Online Data Viewer
- Multi-Load Data and Disposal Plots

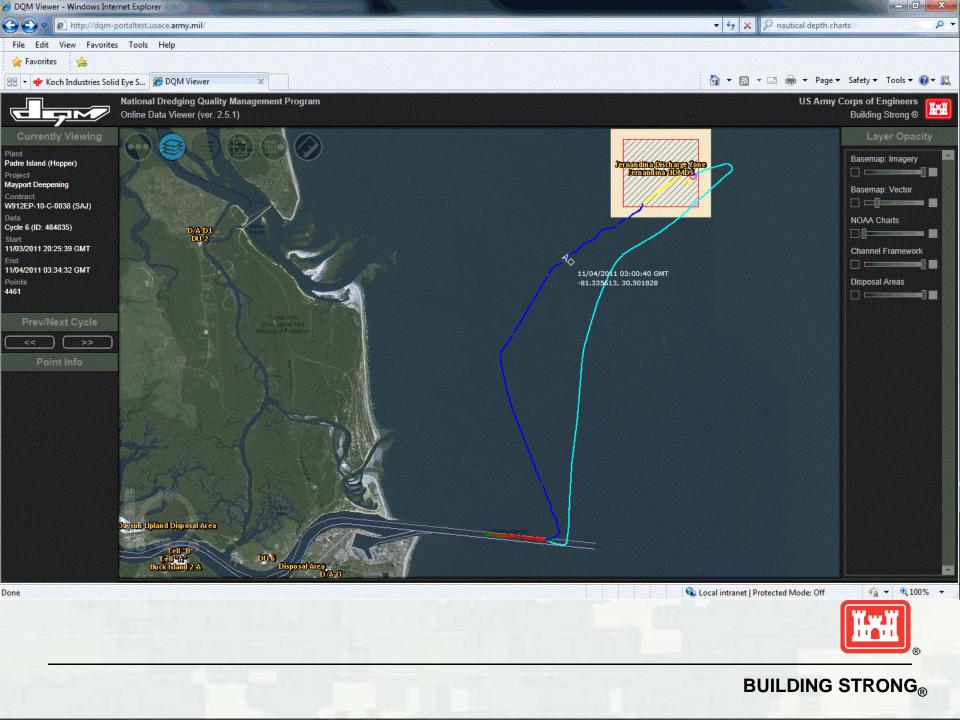
NOTE: The version 2.5 links above have been temporarily disabled.

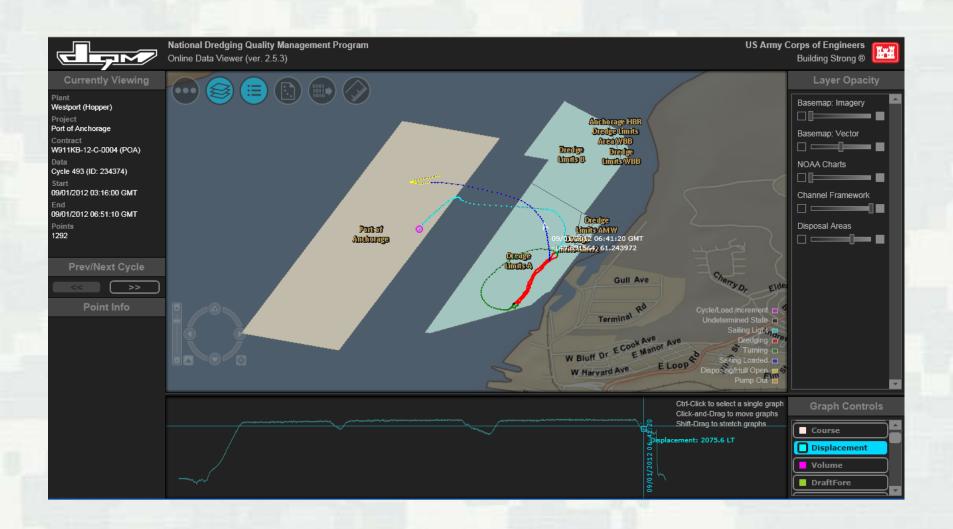
Last updated 14 August 201:



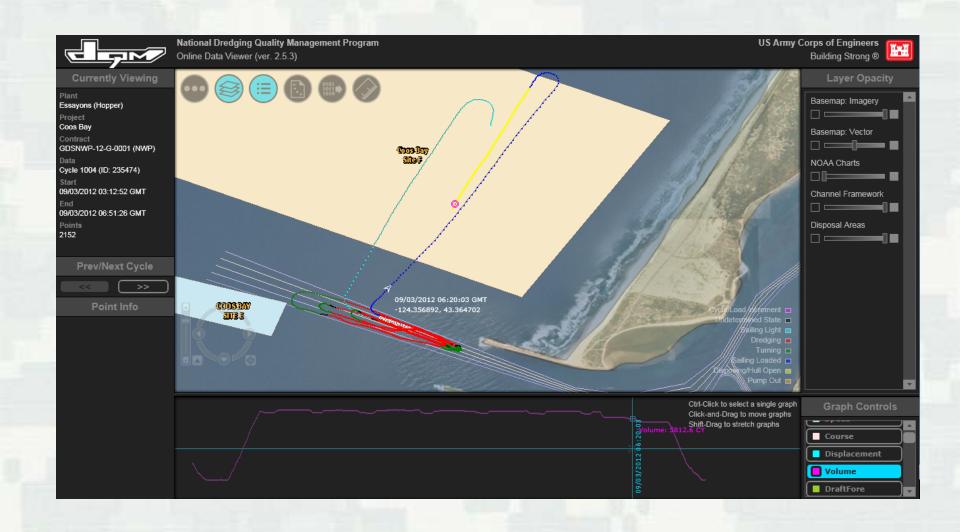






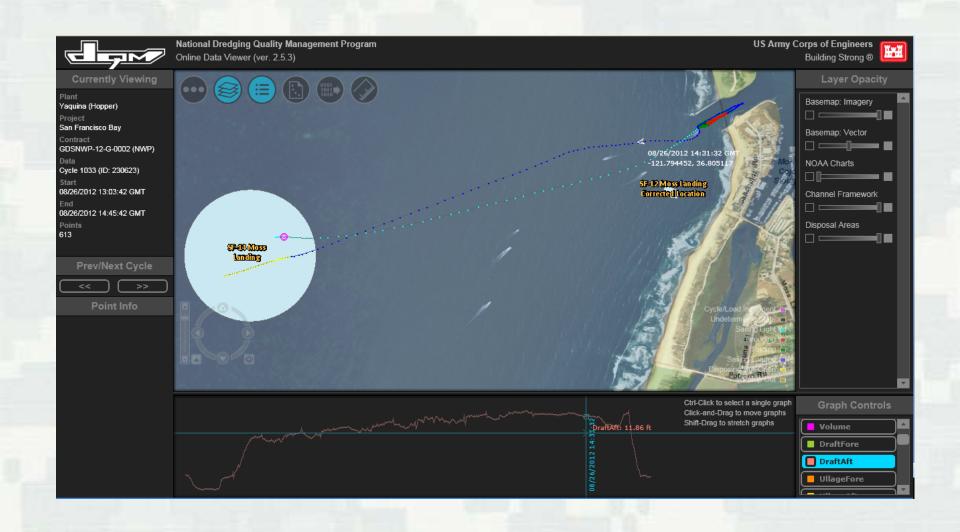






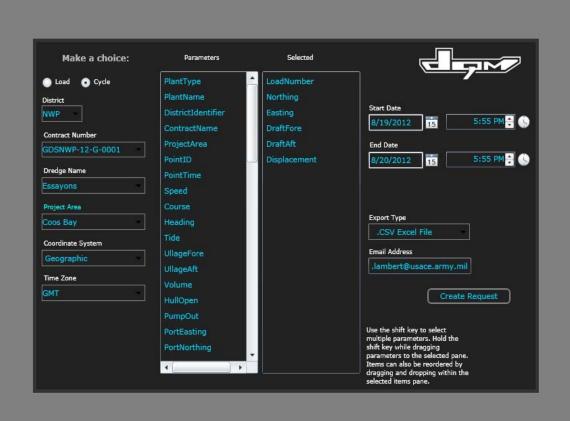




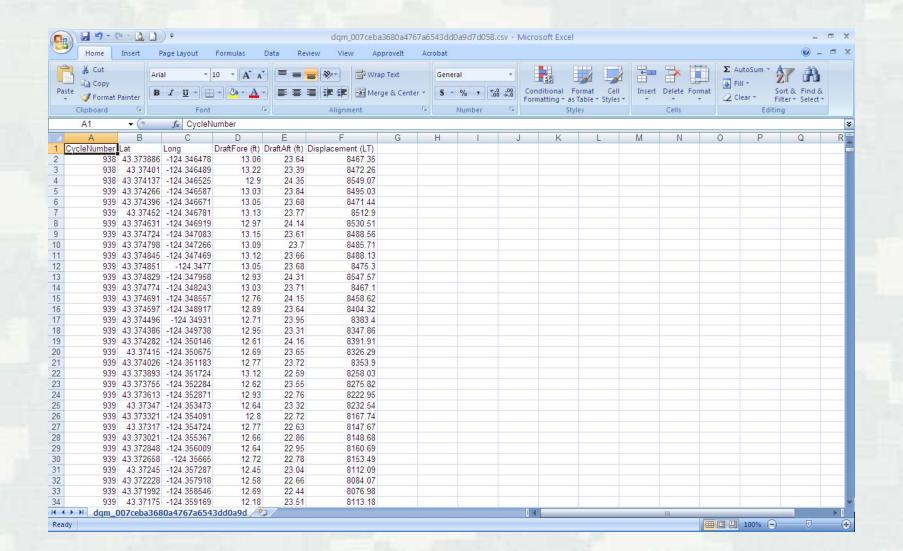




CUSTOMIZED DATA EXPORT

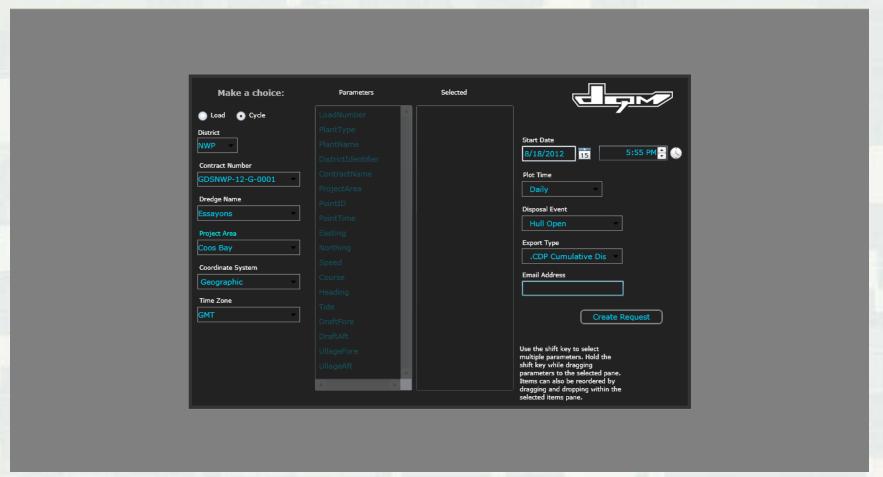




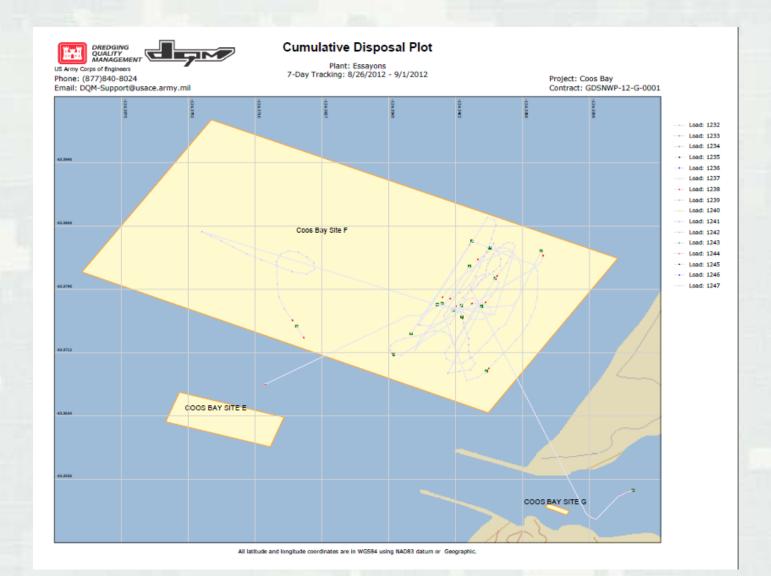




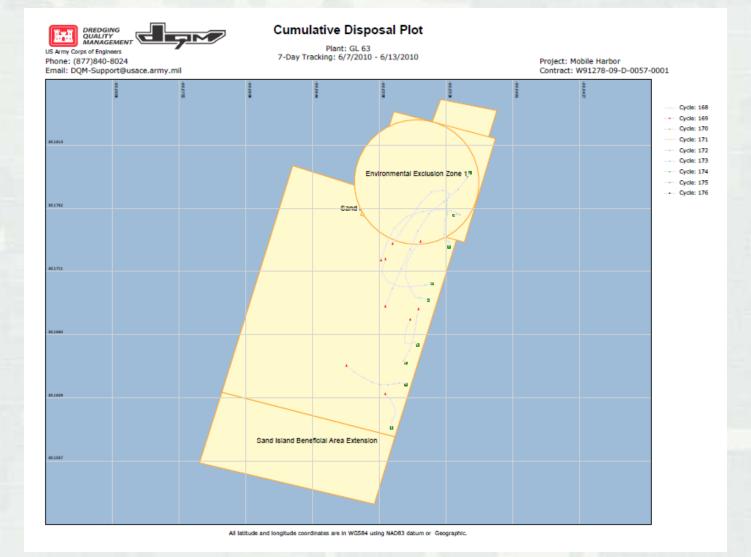
MULTI-LOAD DISPOSAL PLOTS



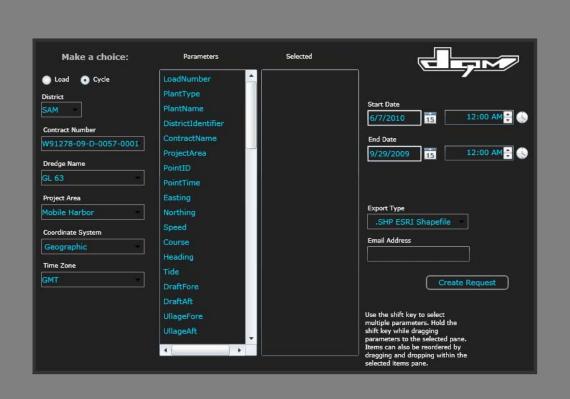














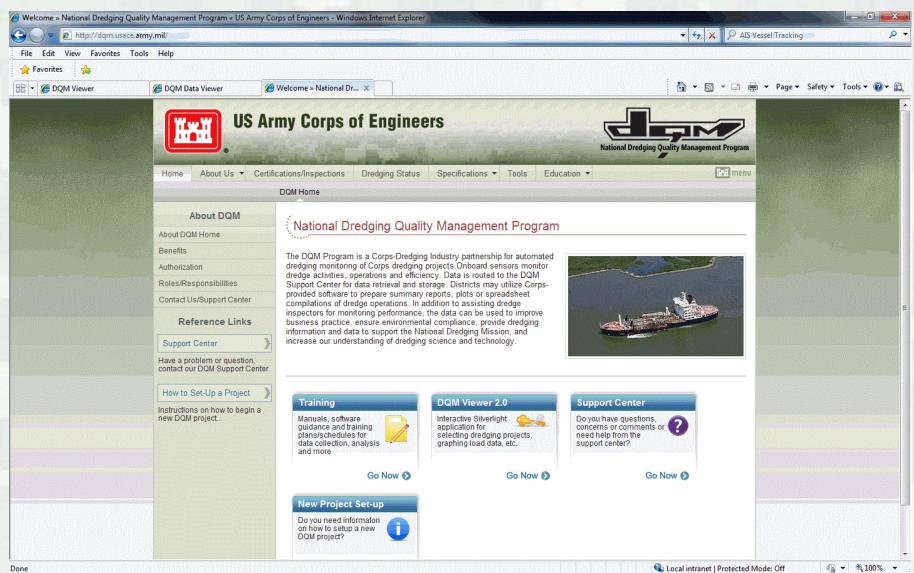
DQM ON-BOARD SOFTWARE (DQMOBS)







NEW DQM DYNAMIC WEBSITE





CUTTERHEAD PDT AGENDA

MAY 2012

- Purpose: HQ has directed DQM with implementing the monitoring of cutterhead pipeline dredges. The purpose of this initial PDT meeting is to formalize an implementation plan. Discuss the details of monitoring which include data, data transmission, specifications, pilot projects, contractor coordination, etc.
- DQM Overview
- Review Past Evaluations
 - ► Illinois Folly Beach, SC
 - ▶ Goetz Fountain City, WI
- Review Surveys Data Parameters
- Discuss Draft Specification
- Future Evaluations (PDT Discussion)
- Implementation Plan



EPA Vessel Monitoring Data

Project Information

Contract:

Placement Area: Example Norfolk

Site Type: 102

* Profile: Monitoring

Coordinate Type: LL

** State Plane Datum:

- . Optional field, data may not be required for project.
- ** State Plane Datum not required when Coordinate Type is LL

Load Number: 62

Vessel Name:

* Type: Hopper * Technique: Bottom Dump

- * Tow Vessel Name:
- * Vessel Captain:

Estimated Volume: 10850 Material Description: sand

 Material Source:
 North Turning Basin

 Disposal Start Time:
 03/08/10 00:07:13

 Disposal End Time:
 03/08/10 00:10:09

 Disposal Start X:
 -79.757454

 Disposal Start Y:
 32.645969

 Disposal End X:
 -79.757896

32.64558

Disposal End Y:

* Observed Water Depth:

* Comments:

Position/Sensor Data

Sample Date Time	Vessel X					*Vessel Heading		
03/07/10 00:00:04	-79.754631	32.6549	23.55	25.28	5.4	191	181	Closed
03/07/10 00:00:15	-79.754684	32.654633	23.56	25.28	5.3	191	193	Closed
03/07/10 00:00:26	-79.754745	32.654366	23.53	25.32	5.3	192	190	Closed

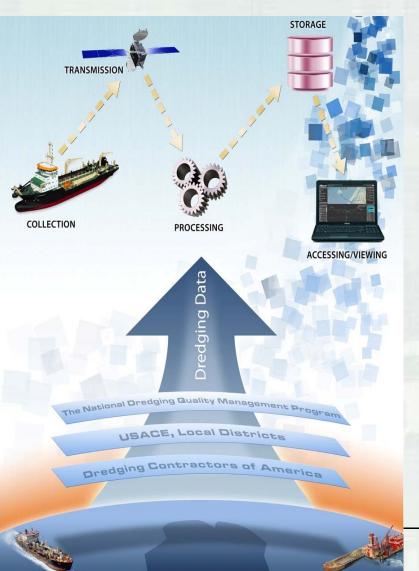
QC Legend: OK, Error, Range Error, Suspect, QC

Standardized Environmental Protection Agency (EPA) Reporting





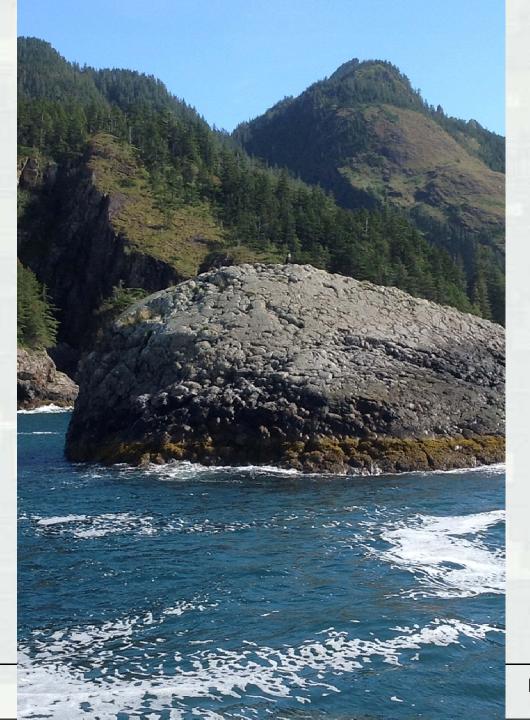
NATIONAL DREDGING QUALITY MANAGEMENT (DQM) PROGRAM



PLANS FOR 2013

- CUTTERHEADMONITORING
- DESK-TOP TOOLS
- TDS TESTING
- NEAR REAL-TIME
 SCOW TELEMETRY











THE NATIONAL DREDGING QUALITY MANAGEMENT PROGRAM

The DQM Program is a partnership between the Corps and the dredging industry for automated monitoring of dredge activities.

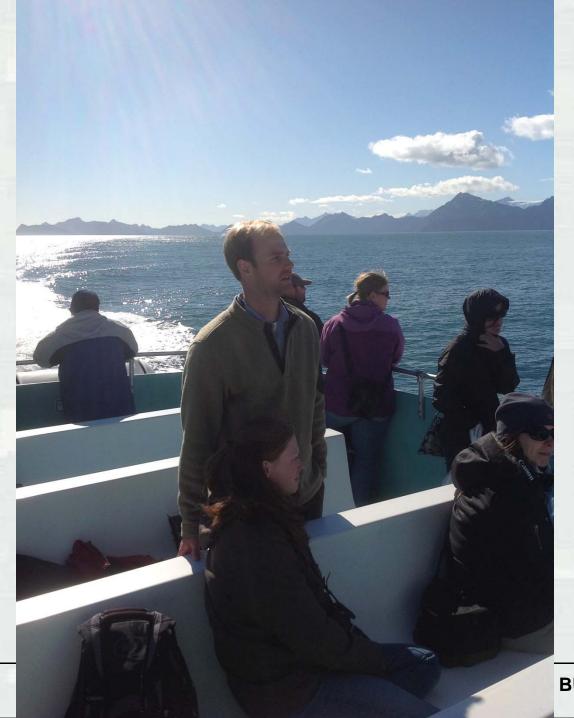
Onboard sensors provide near-real-time data that allows for immediate response to emerging situations.

Districts can use the web-based DQM software to view, analyze, report on, and export dredging data.

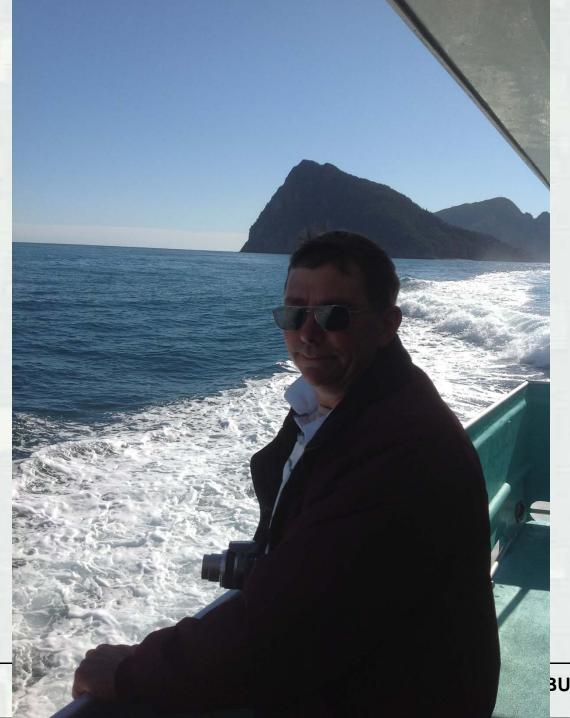
The data can be used to improve business practice, ensure environmental compliance, and increase our understanding of dredging science and technology.























 $\textbf{BUILDING STRONG}_{\text{\tiny \tiny R}}$





Thanks Allen....
for a great
meeting and
being a
wonderful host!

