



NOAA GLRI Webinar - Project Fact Sheet

Project Title	St. Louis River DIVER Data Systems
Project Lead	PI: Robb Wright Co-PIs, if applicable: Ben Shorr
Funding amount (\$) and years funded	2016: \$260K; 2017: \$240K
External partners, collaborators and/or sub-awardees	Federal: EPA, USACE State: WI DNR, MN PCA, MN DNR
GLRI Focus Area	Focus Area 1: Toxic Substances and Areas of Concern
GLRI Action Plan Primary Measure	Objective: Implement management actions necessary to remove BUIs and delist AOCs.
	Measure(s) of Progress: <ul style="list-style-type: none"> - AOCs where all management actions necessary for delisting have been implemented - AOC Beneficial Use Impairment removed
Brief project description	Continue the development of NOAA’s Great Lakes DIVER (GL DIVER) data warehouse, query, and visualization tools to meet the data system requirements of the SLR AOC managers. Under previous GLRI funding (13/14), NOAA incorporated the GL sediment chemistry data Focus of this work tailors the database to SLR management. SLR managers and stakeholders identified their need for an accessible and visual database that can be queried to effectively manage and eventually delist their AOC. Also developed the necessary framework to include benthic invertebrate data and vegetation data. In FY16, we worked with our partners to finalize a prioritized list of additional functions and user needs for the SLR Data System. FY17 added functions to GL DIVER, delivering trainings, and receiving feedback from users that led to additional prioritized functions developed for GL DIVER. Efforts focused on the continued ingestion of new data and maintenance of the database for future use, covering data processing, entry, validation, and quality assurance into GL DIVER and trainings to SLR managers. These efforts will support the process of removing BUIs and delisting the AOC. Much has been learned about data manage for AOCs that help DIVER be used by mangers in all AOCs in the Great Lakes.

SLR DIVER Data Systems

DIVER EXPLORER ST LOUIS RIVER

Guided Query: Chemistry and Bioassay Results > Single Contaminant Results > Sediment

Fields: Values: Selected Values (1): Mercury

Analysis: Mercury

Lab Name:

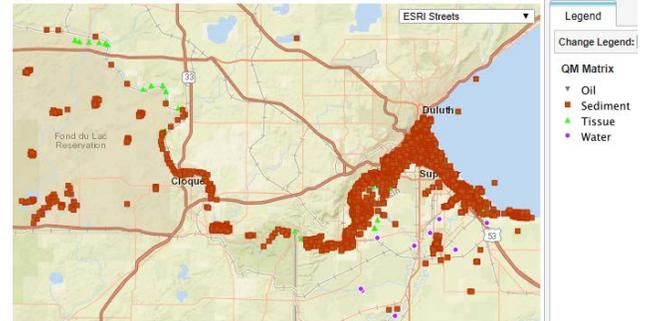
Lab/Result Matrix:

Lab/Result Matrix Detailed:

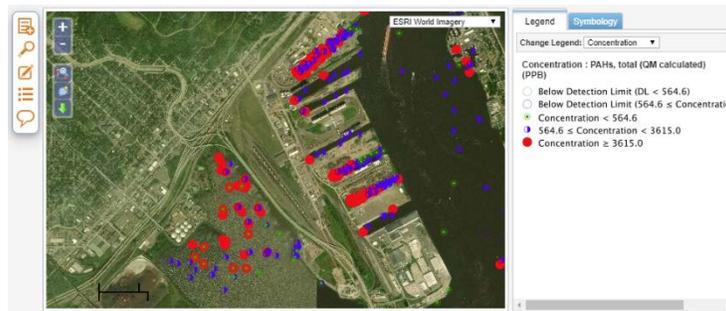
Oil Presence Screening Class:

Oil Presence Screening Source:

Oil Reporting Standard:



Robust querying, filtering and visualization of chem and non-chem data within the SLR AOC



NATURAL RESOURCE DAMAGE ASSESSMENT & RESTORATION
DATA & VISUALIZATION

ERDAP > tabledap > Data Access Form

Dataset Title: Samples, Great Lakes

Information: Summary | License | FIDC | QC 19110 | Metadata | Background | Subset | Make a graph

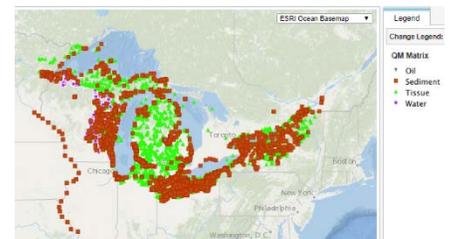
Variable: Check All Uncheck All

Optional Constraint #1:

Optional Constraint #2:

Minimum or a List of Values:

Variables listed: Age_years, Analysis, Analysis_Category, Analysis_Detail, Analysis_Method, Analysis_Result, Analysis_Result_Sort, Analysis_Status, Analysis_Status_Sort_Order, Analysis_Type, Analysis_Type_Sort_Order, Area_Description, Case_Activity, Chem_Code, CDC_ID, Collection_Form



DIVER data services allow partners to work directly with all SLR datasets and create their own products

NOAA's ERMA Application:
<https://erma.noaa.gov/greatlakes#/view=237>

SLR AOC Concentration: PAHs, total (QM calculated)

- Below Detection Limit (DL) = 542.0
- Concentration < 542.0
- 542.0 ≤ Concentration < 3860.0
- Concentration ≥ 3860.0

Case/Activity	Station Group List	Source Type	Data Classification	QM Size ID	Sharing Status	Workgroup	Collection Workplan	Collection Study Name	QM Station ID	QM Sample ID	Site ID	Station Site	Date	Seq ID
St. Louis River	Great Lakes	Drainage	Not Defined	0531	Publicly Available	Not Defined	Not Defined	SLR AOC Water 2011 MPCA Reference Sites	20	IP-04	IP-04A	999	2011-09-22	653251-04

MNPCA's contaminant viewer:
<https://www.pca.state.mn.us/water/saint-louis->

Assessment areas Mean PEC-Q

Station Mean PEC-Q

Mean PEC-Q profile

Water cursor over a sample for additional details about the PEC-Q collection. Clicking on a core will highlight that site on the map above. To start over, click the figure outside the colored cores.

Sample IDs: VWS186, LC128, LC129, LC130, LC131, LC132, LC133, VWS187, VWS188, VWS189, VWS190, VWS191, VWS192, VWS193, VWS194, VWS195, VWS196, VWS197, VWS198, VWS199, VWS200, VWS201, VWS202, VWS203, VWS204, VWS205, VWS206, VWS207, VWS208, VWS209, VWS210, VWS211, VWS212, VWS213, VWS214, VWS215, VWS216, VWS217, VWS218, VWS219, VWS220, VWS221, VWS222, VWS223, VWS224, VWS225, VWS226, VWS227, VWS228, VWS229, VWS230, VWS231, VWS232, VWS233, VWS234, VWS235, VWS236, VWS237, VWS238, VWS239, VWS240, VWS241, VWS242, VWS243, VWS244, VWS245, VWS246, VWS247, VWS248, VWS249, VWS250, VWS251, VWS252, VWS253, VWS254, VWS255, VWS256, VWS257, VWS258, VWS259, VWS260, VWS261, VWS262, VWS263, VWS264, VWS265, VWS266, VWS267, VWS268, VWS269, VWS270, VWS271, VWS272, VWS273, VWS274, VWS275, VWS276, VWS277, VWS278, VWS279, VWS280, VWS281, VWS282, VWS283, VWS284, VWS285, VWS286, VWS287, VWS288, VWS289, VWS290, VWS291, VWS292, VWS293, VWS294, VWS295, VWS296, VWS297, VWS298, VWS299, VWS300, VWS301, VWS302, VWS303, 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