

US Army Corps of Engineers  
 Great Lakes Navigation Business Line  
 FY22 Final Appropriation – with Consolidated Appropriations Act of 2022 and Workplan Additions  
 March 21, 2023

**Navigation O&M**      **\$277.1M** (\$224.5M + \$59.5M-\$6.9M)

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| \$57.68M | Primary Dredging 3.52M cu yds (\$49.78 + \$7.9M /3.15M cu yds + 0.37M cu yds) |
| \$1.02M  | Ashland Harbor                                                                |
| \$1.50M  | Barcelona Harbor                                                              |
| \$1.40M  | Buffalo Harbor                                                                |
| \$1.37M  | Burns Harbor                                                                  |
| \$1.00M  | Cattaragus Harbor                                                             |
| \$0.82M  | Charlevoix Harbor (\$0.57M + \$0.25M)                                         |
| \$7.11M  | Cleveland Harbor                                                              |
| \$1.11M  | Conneaut Harbor                                                               |
| \$3.13M  | Detroit River                                                                 |
| \$2.66M  | Duluth-Superior Harbor                                                        |
| \$0.68M  | Dunkirk Harbor                                                                |
| \$2.22M  | Fairport Harbor                                                               |
| \$0.80M  | Grand Haven Harbor                                                            |
| \$2.63M  | Green Bay Harbor                                                              |
| \$1.32M  | Harbor Beach                                                                  |
| \$3.11M  | Indiana Harbor                                                                |
| \$0.73M  | Kenosha Harbor                                                                |
| \$1.00M  | Keweenaw Waterway                                                             |
| \$2.06M  | Lorain Harbor                                                                 |
| \$1.00M  | Little Sodus Bay                                                              |
| \$0.90M  | Manistee Harbor (\$0.60M + \$0.30M)                                           |
| \$1.30M  | Manistique Harbor                                                             |
| \$3.13M  | Monroe Harbor (\$1.13M + \$2.00M)                                             |
| \$1.20M  | Muskegon Harbor                                                               |
| \$1.10M  | Ontonagon Harbor                                                              |
| \$0.65M  | Pentwater Harbor                                                              |
| \$1.20M  | Rochester Harbor                                                              |
| \$1.13M  | Rouge River                                                                   |
| \$2.63M  | Saginaw River                                                                 |
| \$1.00M  | Sandusky Harbor                                                               |
| \$0.55M  | St. Joseph Harbor                                                             |
| \$6.22M  | Toledo Harbor                                                                 |
| <br>     |                                                                               |
| \$11.02M | Project Condition Surveys                                                     |
| <br>     |                                                                               |
| \$23.53M | Lock Operation and Maintenance                                                |
| \$2.05M  | Black Rock Lock                                                               |
| \$3.35M  | Chicago Lock                                                                  |
| \$0.05M  | Inland Route                                                                  |
| \$18.08M | Soo Locks                                                                     |
| <br>     |                                                                               |
| \$8.47M  | Black Rock Lock Asset Renewal                                                 |
| \$3.00M  | Installation of Lower miter gates                                             |
| \$4.50M  | Fabrication of Upper miter gates                                              |
| \$0.22M  | Rehabilitation of hydraulic cylinders and HPUs                                |
| \$0.10M  | Engineering and design of repair for lower west guide wall                    |
| \$0.30M  | Engineering and design of repair for upper east guide wall                    |

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|          |          |                                                                                                                                                                                                                                       |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | \$0.10M  | Engineering and design of main power cabling renewal                                                                                                                                                                                  |
|          | \$0.25M  | Engineering and design of repair for Bird Island Pier                                                                                                                                                                                 |
| \$39.38M |          | Soo Locks Asset Renewal/Maintenance (\$24.78M + \$14.6M)                                                                                                                                                                              |
|          | \$4.20M  | Repairs for Poe Lock filling and emptying valves                                                                                                                                                                                      |
|          | \$0.55M  | Repair and replacement of gate operation components                                                                                                                                                                                   |
|          | \$9.50M  | Replacement of Cranebarge HARVEY (Phase 3 of 4)                                                                                                                                                                                       |
|          | \$5.91M  | Replacement of Cranebarge HARVEY (Phase 4 of 4)                                                                                                                                                                                       |
|          | \$0.40M  | Study to reduce arc flash risks in MacArthur and Poe Locks                                                                                                                                                                            |
|          | \$0.42M  | Design of Soo Locks maintenance support building electrical system upgrade                                                                                                                                                            |
|          | \$3.80M  | Design and installation of MacArthur and Poe Locks structural handrail                                                                                                                                                                |
|          | \$1.90M  | Facility Service Access Road Rehabilitation                                                                                                                                                                                           |
|          | \$10.9M  | Poe Lock Ship Arrestor Rehabilitation                                                                                                                                                                                                 |
|          | \$1.10M  | St. Marys River Rapid Response PCS Multibeam Vessel                                                                                                                                                                                   |
|          | \$0.45M  | Machine Shop Fabrication Equipment Upgrade                                                                                                                                                                                            |
|          | \$0.25M  | Facility Electronic Security System Modernization                                                                                                                                                                                     |
| \$16.73M |          | Chicago Lock Asset Renewal/Maintenance (\$5.95M + \$10.78M)                                                                                                                                                                           |
|          | \$0.25M  | Repair of sector gate seal                                                                                                                                                                                                            |
|          | \$0.10M  | Ice management                                                                                                                                                                                                                        |
|          | \$3.60M  | Replacement of gate drives                                                                                                                                                                                                            |
|          | \$0.50M  | Resurfacing of chamber walls                                                                                                                                                                                                          |
|          | \$1.50M  | Resurfacing of North Pier (final phase)                                                                                                                                                                                               |
|          | \$10.65M | Chamber walls repair (final phase)                                                                                                                                                                                                    |
|          | \$0.13M  | Parking lot security upgrades                                                                                                                                                                                                         |
| \$14.4M  |          | Floating Plant Fleet Repair (Calumet, Cleveland, Conneaut, Duluth-Superior, Fairport, Ludington, Milwaukee, Presque Isle)                                                                                                             |
| \$7.38M  |          | Strike Removal                                                                                                                                                                                                                        |
|          | \$2.97M  | Detroit River                                                                                                                                                                                                                         |
|          | \$0.61M  | St. Clair River                                                                                                                                                                                                                       |
|          | \$3.80M  | St. Marys River                                                                                                                                                                                                                       |
| \$16.5M  |          | Dredged Material Management (\$10.63M + \$3.45M+\$2.4M)                                                                                                                                                                               |
|          | \$0.62M  | CDF Fill Management (Calumet)                                                                                                                                                                                                         |
|          | \$3.80M  | CDF Maintenance (Indiana, Keweenaw Waterway, Saginaw River, St. Clair River, St. Marys River)                                                                                                                                         |
|          | \$5.01M  | CDF Operations (Buffalo, Cleveland, Indiana, Saginaw)                                                                                                                                                                                 |
|          | \$4.80M  | Dredged Material Management Plan and Assessment (Alpena, Ashtabula, Cleveland, Conneaut, Fairport, Grand Haven, Grand Marais MI, Kewaunee, Manistique, Manitowoc, Oswego, Sandusky) (\$1.20M + \$1.20M+\$2.4M (moved from GI to O&M)) |
|          | \$0.45M  | Economic and Environmental Evaluation (Huron, Lorain, Toledo)                                                                                                                                                                         |
|          | \$1.50M  | CDF Offload Facility Repair – Saginaw Bay                                                                                                                                                                                             |
|          | \$0.30M  | Toledo Harbor – Design of CDF fill management                                                                                                                                                                                         |
| \$68.7M  |          | Structure Design, Maintenance, and Repairs (\$57.6M + \$18.1M-\$6.9)                                                                                                                                                                  |
|          | \$11.0M  | Buffalo Harbor – Repairs of north breakwater (\$8.00M + \$3.00M)                                                                                                                                                                      |
|          | \$7.00M  | Buffalo Harbor – Construction of north breakwater south head repairs                                                                                                                                                                  |

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|                    |                                                                                                                                                    |
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| \$5.00M            | Buffalo Harbor – Repairs of south breakwater (\$4.50M + \$0.50M)                                                                                   |
| \$0.05M            | Cedar River - Critical Breakwater Safety Maintenance                                                                                               |
| \$0.05M            | Charlevoix - Critical Breakwater Safety Maintenance                                                                                                |
| \$1.35M            | Chicago Harbor – Rubble mound encapsulation/north section, east outer                                                                              |
| \$5.97M            | Chicago Harbor – Timber crib stabilization of northeast breakwater                                                                                 |
| \$0.30M            | Cleveland Harbor – Design of west pier repair                                                                                                      |
| \$2.00M            | Detroit River – Improvements to government boat slip                                                                                               |
| \$0.25M            | Duluth-Superior Harbor – Design for ship canal shoreline protection                                                                                |
| \$5.25M            | Dunkirk Harbor – Design and construction of breakwater repairs                                                                                     |
| \$0.25M            | Erie Harbor – Design for repairs to north pier                                                                                                     |
| \$2.20M            | Grand Haven Harbor – Design for repairs to north pier/wave attenuator                                                                              |
| \$0.03M            | Grand Marais Harbor – Breakwater safety maintenance                                                                                                |
| \$0.30M            | Huron Harbor – Design of west pier repair                                                                                                          |
| \$0.40M            | Lexington Harbor – Design for breakwater repairs                                                                                                   |
| <del>\$6.90M</del> | Little Sodus Bay Harbor – Repairs of west pier (removed in final appropriation; funded through FY22 IJA for \$10M)                                 |
| \$0.25M            | Lorain Harbor – Design of west breakwater repair                                                                                                   |
| \$0.30M            | Lorain Harbor – Design of outer breakwater repair                                                                                                  |
| \$3.50M            | Manistee Harbor – Design and repair of south breakwater connector                                                                                  |
| \$0.03M            | Manistique Harbor – Breakwater safety maintenance                                                                                                  |
| \$0.35M            | Manitowoc Harbor – Design for repairs to south breakwater                                                                                          |
| \$0.03M            | Manitowoc Harbor – Breakwater safety maintenance                                                                                                   |
| \$0.03M            | Ontonagon Harbor – Breakwater safety maintenance                                                                                                   |
| \$0.30M            | Oswego Harbor – Design for repairs to outer west breakwater                                                                                        |
| \$9.00M            | Oswego Harbor – Construction of repairs to outer west breakwater (\$5.00M + \$4.00M)                                                               |
| \$0.30M            | Oswego Harbor – Design for repairs to east arrowhead breakwater                                                                                    |
| \$0.30M            | Port Clinton Harbor – Design for east and west pier repairs                                                                                        |
| \$0.03M            | Port Wing Harbor – Maintenance of breakwater                                                                                                       |
| \$6.50M            | Rochester Harbor – Repairs of east pier (\$5.00M + \$1.50M)                                                                                        |
| \$0.05M            | South Haven - Critical Breakwater Safety Maintenance                                                                                               |
| \$0.05M            | St. Joseph - Critical Breakwater Safety Maintenance                                                                                                |
| \$0.60M            | Sturgeon Bay Harbor – Design for repairs to north breakwater                                                                                       |
| \$0.03M            | Two Harbors – Breakwater safety maintenance                                                                                                        |
| \$5.70M            | Vermillion Harbor – Design and construction of west pier repairs                                                                                   |
| <br>               |                                                                                                                                                    |
| \$1.12M            | Sediment Sampling Analysis (Black River-Port Huron, Kewaunee, Manitowoc, Oconto, Port Clinton, St. Joseph, Two Rivers)                             |
| <br>               |                                                                                                                                                    |
| \$0.25M            | Regional Economic Data Collection (Cleveland)                                                                                                      |
| <br>               |                                                                                                                                                    |
| \$0.25M            | Breakwater Assessment Team (Duluth-Superior)                                                                                                       |
| <br>               |                                                                                                                                                    |
| \$1.19M            | Lake Michigan Diversion Accounting                                                                                                                 |
| <br>               |                                                                                                                                                    |
| \$0.85M            | Real Estate Management for Navigation                                                                                                              |
| <br>               |                                                                                                                                                    |
| \$0.13M            | Environmental Compliance (Black Rock Lock, Calumet, Chicago Lock, Cleveland, Detroit River, Duluth-Superior, Grand Haven, St. Marys River, Toledo) |
| <br>               |                                                                                                                                                    |
| \$0.20M            | Cultural Resources (Black Rock Lock, Detroit River, Duluth-Superior, Grand Haven, St. Marys River)                                                 |

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\$0.53M Dam Safety (Chicago Lock, Indiana, Soo Locks)

**\$0.03M Bridge Safety Routine Inspections (Soo Locks)**

\$0.65M Navigation Visitor Center Support (Duluth-Superior, Soo Locks) (\$0.46M + **\$0.19**)

\$2.91M St. Marys Security and Grounds (Navigation Business Line Portion)

\$3.5M Section 111 Beach Nourishment (Grand Haven, Holland, Ludington, Muskegon, South Haven, St. Joseph, White Lake)

**\$1.00M South Haven Harbor – renourish South Beach**

\$0.23M Industrial Hygiene Services (Detroit River, Duluth-Superior, St. Marys River)

\$0.60M CIPR Security (Duluth-Superior, Grand Haven)

**Navigation Construction General \$507.5M**

\$9.10M Calumet CDF

\$18.4M Indiana CDF

\$480M New Soo Lock