

## Concept 2 Delivery, Inc.

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### Dear Friends and Colleagues,

With 2011 comes C2D's 9th year in business!

For decades, I've worked on many dredging projects in pre-construction and construction phases for Federal agencies and private industry. C2D's Fall 2011 project highlight—the Ashtabula River Sediment Sampling—continues the expansion of C2D's Federal projects!

All my best to you and your family,



**Corry T. Platt, CEP**  
environmental consultant

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### Committed to the profession...

Corry serves as a Board of Trustees member to the Academy of Board Certified Environmental Professionals.

### Tailored to meet your need...

C2D's familiarity with project development, regulatory requirements, and a project history in over 20 States, US Territories, Latin and South America brings unique skills to your team.

C2D maintains general liability, contractor pollution liability, and professional liability insurance coverage of \$2 million.

C2D's work boat enables on-water project access.



Learn more about C2D's pre-construction and construction-phase offerings online at [www.concept2delivery.com](http://www.concept2delivery.com)

# Sediment Sampling, Analysis & Reporting

## Featured Project...USACE's Ashtabula River Pre-Dredging Study

C2D, under subcontract to Biohabitats and Stantec Consulting Services, amplified its pre-construction Federal project experience during the Fall 2011 organizing, implementing, and coordinating a team of specialists performing pre-dredging sediment sampling and analysis.

The Ashtabula River/Harbor and Lake Erie Vicinity Sediment Sampling and Analysis project was conducted under the Great Lakes Restoration Initiative for the U.S. Army Corps of Engineers—Buffalo District through a small business set-aside to provide the District with environmental data to be used in developing construction plans for environmental dredging of 100,000 cubic yards of sediment.

The Ashtabula River/Harbor was listed as a national Area of Concern in 1985 by the US EPA due to widespread polluted and highly toxic sediments with high concentrations of PCBs, heavy metals, and organic compounds that resulted in fish tumors and habitat deterioration. While the river's name reflects its Native American lineage as a 'river of many fish,' manufacturing discharges between the 1940s and 1970s resulted in a chemical legacy requiring environmental dredging and numerous ecological restoration projects. Through the efforts of the Great Lakes Legacy Act (US EPA, State agencies, and local partners) and the USACE, over 630,000 cubic yards of contaminated sediments have been environmentally dredged (at a cost of over \$60 million). Another 100,000 cubic yards remain before the Ashtabula River can be delisted.

Characterizing the remaining 100,000 cubic yards was the purpose of the contracted project. C2D's experience with pre-construction sediment sampling, team organization, work scoping, and reporting/submittals proved valuable. C2D sorted out the conditions of the Scope of Work, analytical methods, field conditions, multiple laboratories, Level IV data validation, and contractual requirements. Working with USACE District's Environmental Resources Branch, C2D orchestrated solutions to conflicting scope items, differing site conditions, penetration/recovery considerations, and more.

### C2D's work involved:

- USACE Scope of Work clarifications and resolutions.
- Great Lakes Dredged Material Testing and Evaluation Manual compliance.
- Comprehensive Sediment Sampling and Analysis Plan writing.
- Accident Prevention Plan writing.
- Pre-field volume-based core and grab sample forecasting on a location-by-location basis accounting for multiple Management Units (demarcated both horizontally and vertically).
- Vendor management (scope, bidding, production, schedule compliance) for field sampling, laboratory analyses, data validation, and reporting.
- Managing multiple laboratories:
  - ◊ Bulk sediment chemical and physical characterization (metals, inorganics, PAHs, pesticides, PCBs).
  - ◊ Effluent Elutriate preparation and analysis.
  - ◊ Water column toxicity bioassay preparation and analysis.
- 51 vibracore deployments from nearly 20 locations collecting hundreds of gallons of sediment.
- 30 grab-sample deployments spanning shallow upstream to the open waters of Lake Erie.
- 5 composite samples, over 30 discreet interval samples, field duplicates, QA Split Samples.
- Sample integrity assurance through clean, decontaminated procedures.
- Sample Tracking.
- Multi-volume report writing.



*C2D's decades of experience carrying projects from inception/planning through construction stand ready for application...from "how to" to "we're done," put our can do attitude to work for you!*