



# Overview

- Project Background
- Design
- Remediation
- Current Status of the Project
- Waukegan Harbor – The Vision

# Site Description

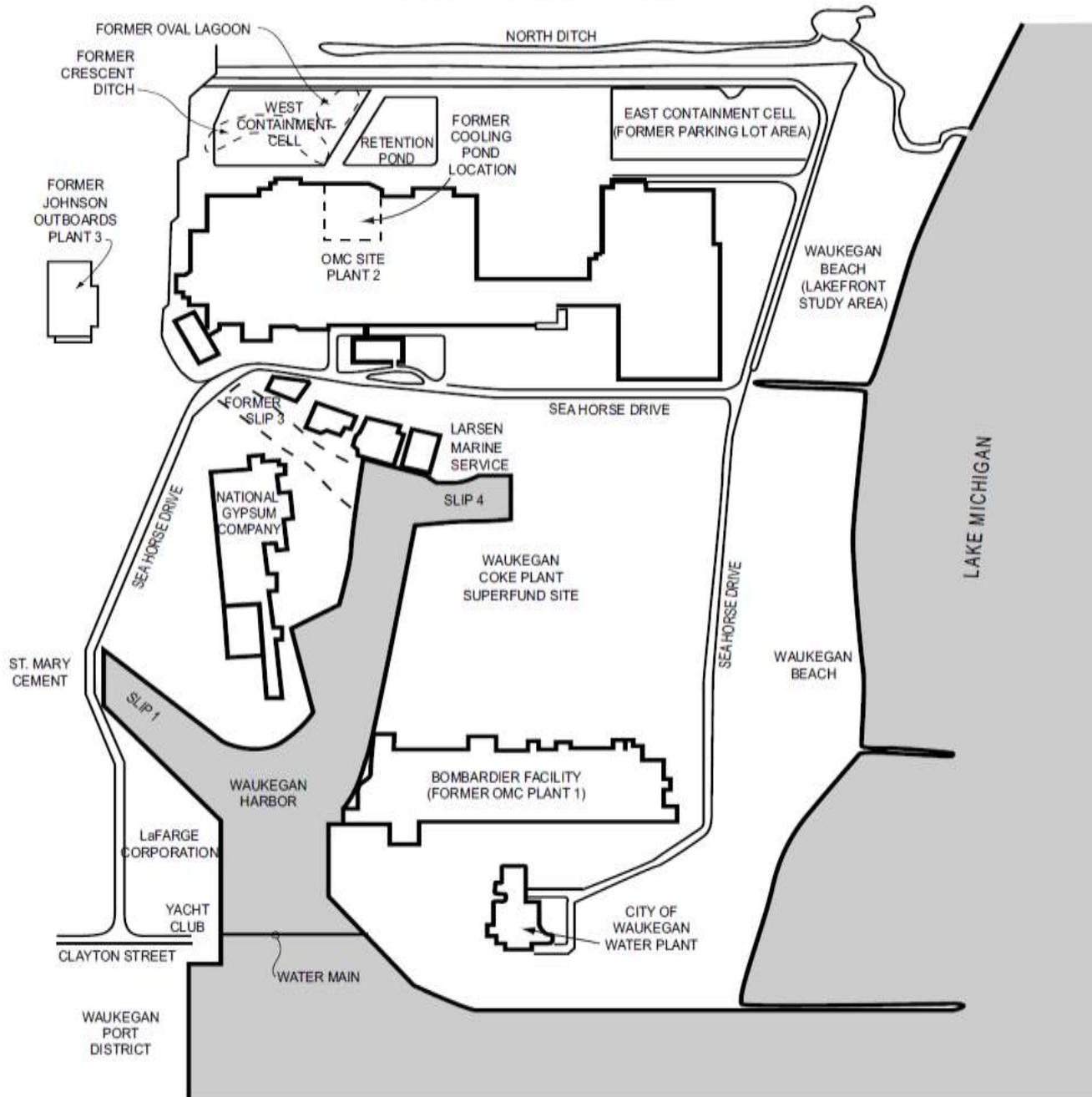
- Located on western shore of Lake Michigan in Waukegan, Illinois
- Approximately 40 acres
- Man-made harbor w/ no tributary flows
- Currently used by industrial and recreational vessels
- Federal navigation channel, with authorized depth of -18 feet LWD (Not dredged since early 1970s because of PCBs)



# Site Background

- OMC manufactured marine products from about 1948 until Dec 2000
- Used hydraulic fluids, cutting oils, and die cast oils with PCBs until about 1972  
Estimated ~ 300,000 pounds of PCBs released to Waukegan Harbor
- Operated solvent vapor degreasers  
TCE DNAPL and dissolved phase contamination
- USEPA issued ROD in 1984

NORTH SHORE SANITARY DISTRICT





## Site Background (continued)

- OMC conducted RA in 1990-1992 to clean up harbor and facility grounds
- Discovered creosote during construction of Slip 4 – WCP (OU 2)
  - RA currently being conducted by PRP Group
- OMC declared bankruptcy in 2000
- City of Waukegan purchased Waukegan Coke Plant (2002) and OMC Plant 2 properties (2005)



OMC Plant 2

Waukegan Coke Plant

Waukegan Harbor

Lake Michigan



## Site Background (continued)

- CH2M HILL Involved since 2004
- Completed RI/FS in 2008
- Record of Decision in October 2009
- Initiated design for USEPA's Superfund Division in 2009
- Submitted final design in March 2011
- Received RA work assignment in June 2011
- Dredging Began 2012



# Waukegan Harbor Remedial Design

## **ROD Amendment Option**

- Construction of containment facility on OMC Plant 2 property
- Hydraulic dredging of impacted sediments
- Sediment dewatering using geotextile tubes on OMC Plant 2 site
- Treatment and discharge of water back into harbor
- Demolition of piers in North Marina
- Estimated Cost: ~\$42M

# Waukegan Harbor Site



# Waukegan Harbor Site



# Waukegan Harbor Site



# Waukegan Harbor Contractors

Activity	Contractor
Site Construction	J.J. Henderson
Dredging	J.F. Brennan
Sediment Processing Systems Operations	Infrastructure Alternatives Inc
North Marina Demolition	J.F Brennan
Seawall Reconstruction	Rausch Construction company, Inc.\$ 1M

# Dredge Management Units



## Waukegan Harbor Dredge Management Units

Lake Michigan, Waukegan, IL



### Geodetic Parameters

Horizontal Datum: U.S. State Plane NAD 1983  
 Zone: 1201-IL Illinois East  
 Vertical Datum: IGLD 85-577.5'  
 Units: U.S. Survey Feet

### Legend



0 150 300 600 Feet

- Dredging Complete
- Dredging Underway

J.F. Brennan Co. Inc.  
 820 Bainbridge St.  
 LaCrosse, WI 54602  
[www.jfbrennan.com](http://www.jfbrennan.com)







BRENNAN





04/10/2013

# Current Status of Project

## Total Pre-Dredge Volume to Design: 125,808 cy

- Surveyed - 6,284 cy/wk  
(Total to Date = 54,351 cy)
- Volume remaining =  
71,457 cy

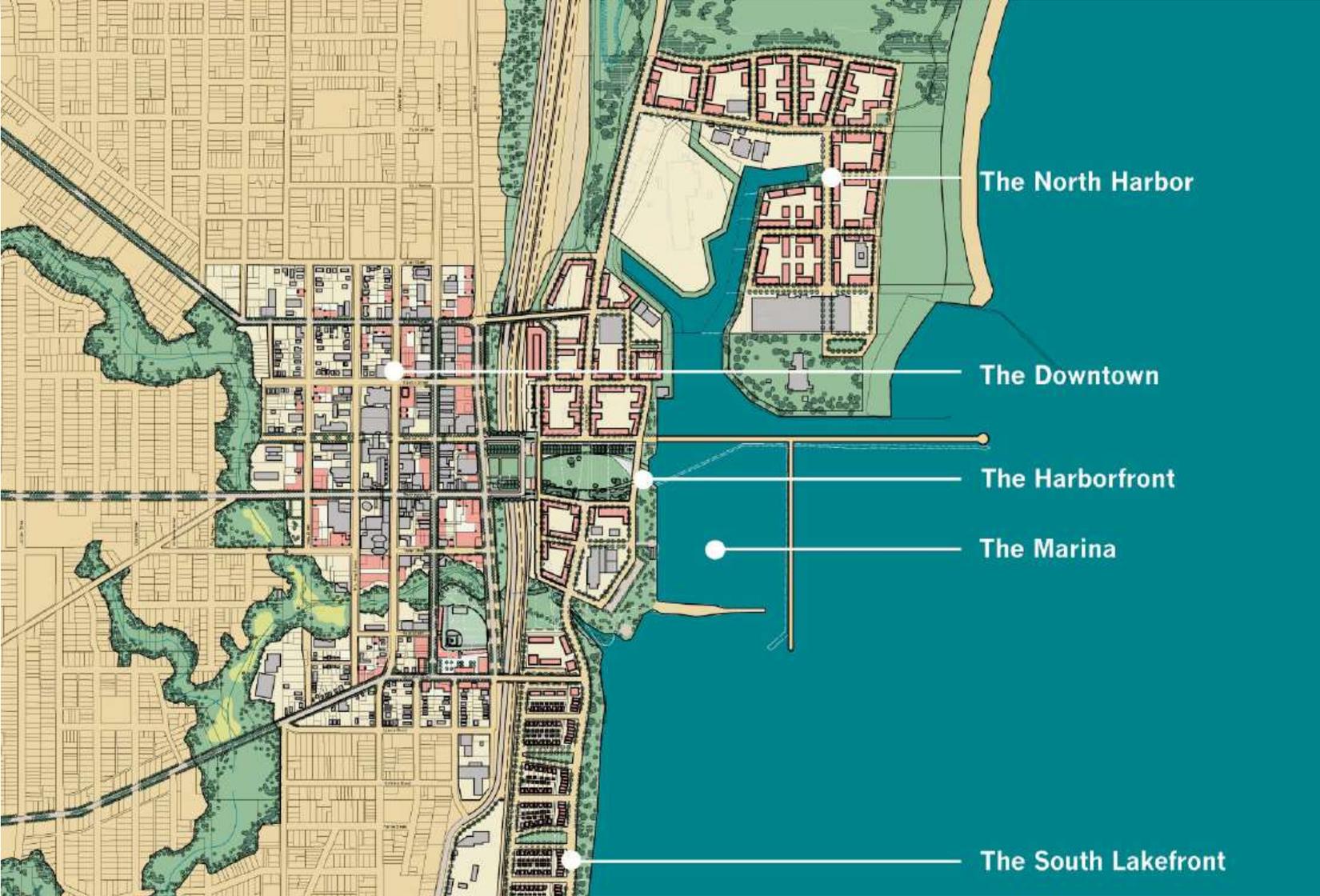
Milestones	Estimated Schedule (Jan 2013)
Dredge/Ops Start (Season 2)	April 2013
North Marina Demolition Complete	June 2013
Dredging Complete	July 2013
Processing Complete (Season 2)	August 2013
In-water Work complete	December 2013
System Demobilization Complete	July 16, 2014

# Waukegan Harbor – The Vision

- Downtown Waukegan to return to its roots as a vibrant city center, a place for jobs, shopping, entertainment and urban living
- The South Lakefront and the Harborfront to become home to new waterfront neighborhoods.
- The North Lakefront to become an international model for environmental and ecological restoration.



# Waukegan Harbor – The Vision



Questions?

