



Schuylkill River above Fairmount Dam

Innovative Equipment & Techniques

MICHELS[®]
CONSTRUCTION, INC.

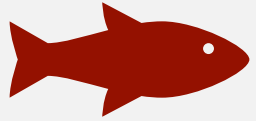
WE DO THAT ... **& MORE**

High-Profile Site

- Boathouse Row National Historic Landmark
 - Olympic rowing training facility
 - Last successfully dredged in 1999
 - Mud and land in front of boathouses



Environmental Windows



Fish spawning – Prior to June 30



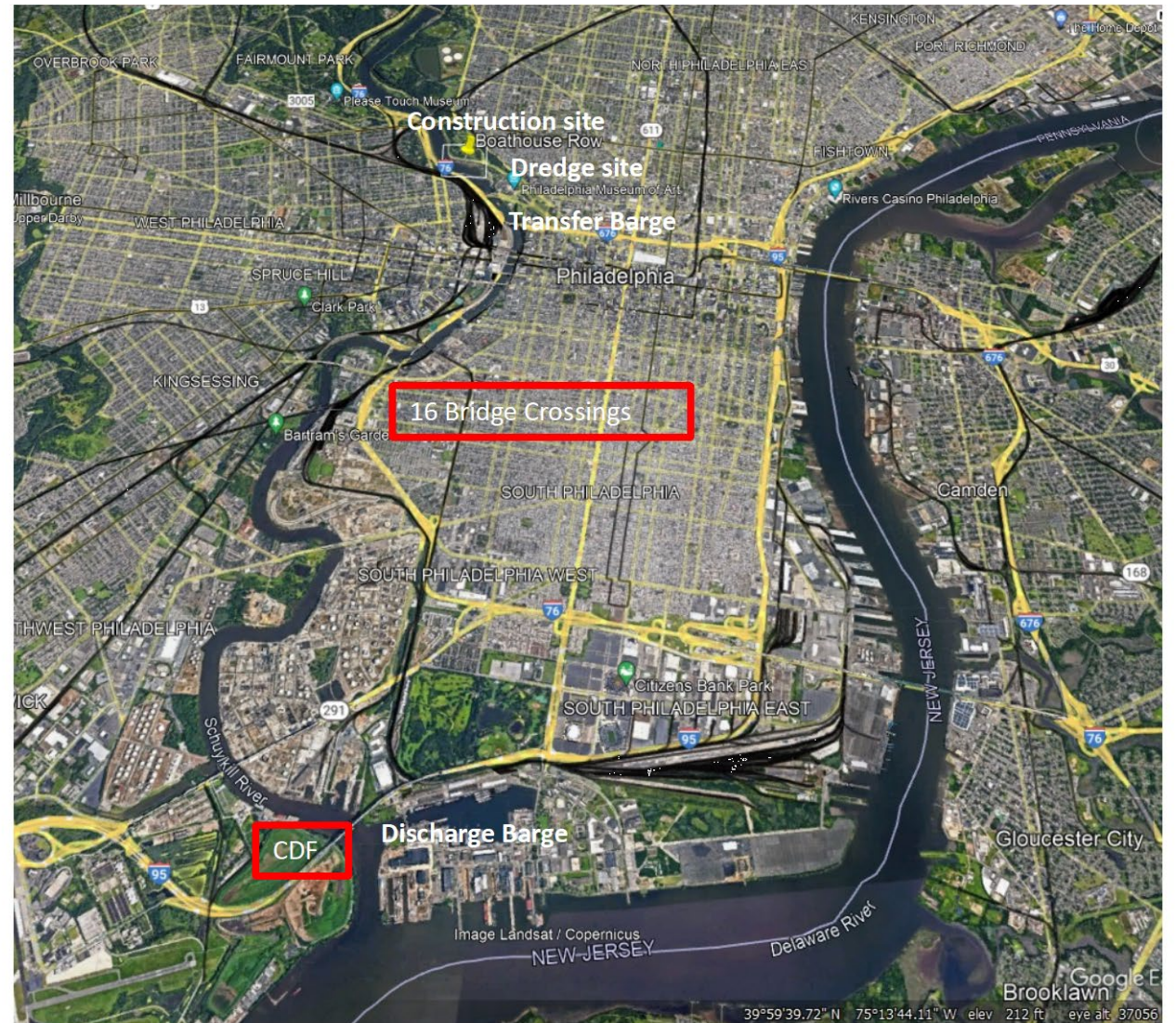
Red-bellied turtle hibernation – Oct. 15 and beyond

Mobilization Plan

Construction site to CDF:

7 miles

16 bridge crossings



Customized Dredge

Compact

36 feet long

22 tons

Front stabilizers

Rear spuds

Able to work in shallow water
and narrow channels



Specialized Equipment

Submersible dredge pump

Barge-mounted excavator

2 spud barges



Challenging Dredging Conditions

Hard clay, silt and mud

Sand mixed with coal

Anthracite coal lumps

Debris (150 cubic yards)



Conclusion

Boathouse Row restored



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