

Baltimore City Department of Public Works

Covered Reservoir Project Druid Lake

October 21, 2013



EPA Consent Order Requirements

- Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) Promulgated by EPA in January 2006
- To comply with **EPA's Long Term 2 Enhanced Surface Water Treatment Rule**, all existing open finished drinking water storage facilities are supposed to be covered or have supplemental treatment to achieve specified water quality standards



Covered Storage

- Simple operations
- Improves water system security
- Future regulations likely to require covered storage
- Opportunities for operational enhancements
- Lower energy requirements
- Maintain historic integrity of parks
- Opportunity to enhance parks around covered storage tanks
- Maintain lakes as resource for the community
- Opportunity for win-win using covered storage



Existing Pikesville Covered Reservoir



STEPHANIE
RAWLINGS-BLAKE
MAYOR



ALFRED H. FOXX
DIRECTOR



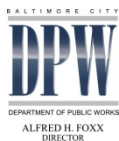
RUDOLPH S. CROW, P.E.
BUREAU HEAD

Druid Lake

- **Provides water to City's First and Second Zones**
- Part of a well-used recreation system
- A visual resource for the community



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Druid Project Schedule

- WR&A awarded contract 10/2010
- Conceptual cost estimate: \$116-130M
- **Project completion: July 2018**
- Current project status:

ID	WC 1204 Druid Lake	2010	2011					2012					2013					2014					2015					2016					2017					2018				
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
1	UV Disinfection Study																																									
2	Storage Tank Study																																									
3	Design/Permitting/Outreach																																									
4	Advertise/Bid																																									
5	Construction																																									
6	Consent Order Compliance																																									



Considerations For Site

- Maintain historic integrity of park
- Close to existing water lines
- Ground elevation suitable for required water level needed for utility operations
- Avoid impact to dam embankment at east end of lake
- Safe & Efficient access from main roads
- Opportunity to enhance park around tank

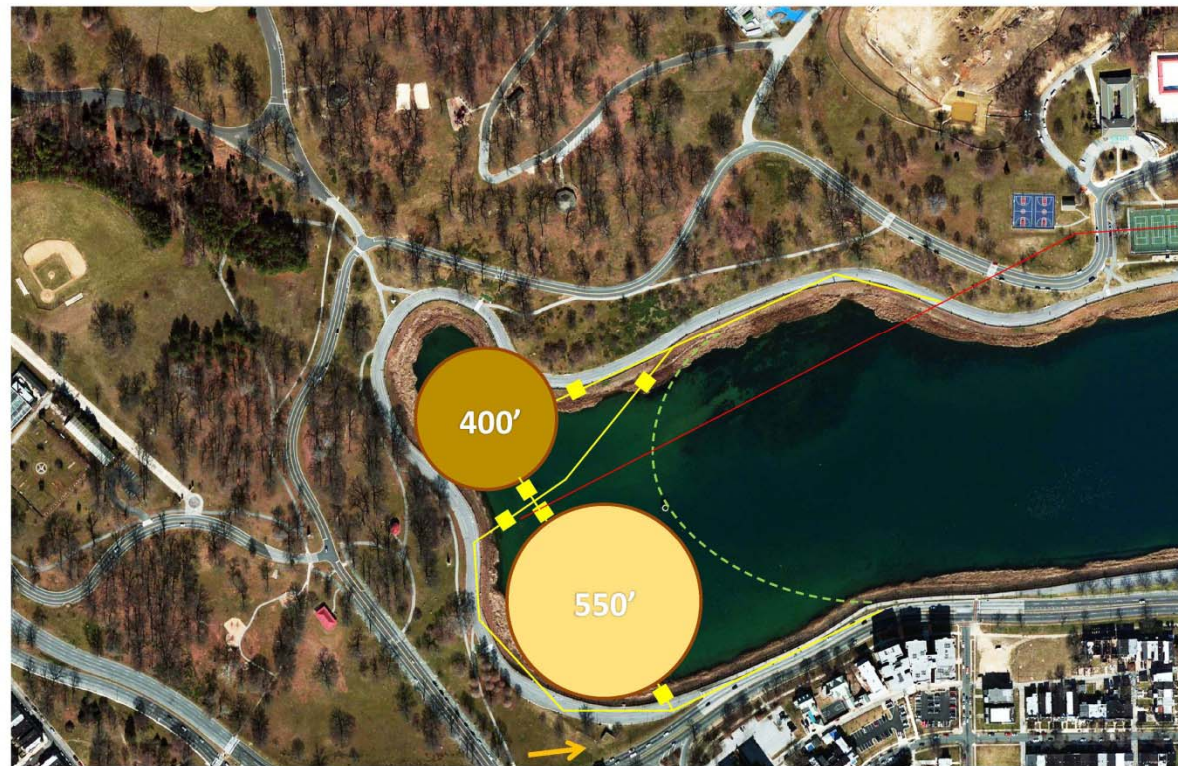


Existing Major Piping



Project Concept

- Developed in cooperation with Baltimore City Recreation & Parks



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Druid Master Plan



Druid Lake Concept



cleanwaterbaltimore
www.cleanwaterbaltimore.org



Design Goals

- Maintain historic integrity of the park
- New facilities' presence in the park:
 - Keep storage tanks below ground surface
- Community input:
 - Update community throughout design
- Public space:
 - Provide overlook at lake
 - Renovate fountain at Druid Lake
 - Enhance walkways at new tanks
 - Possible future public access to lake



Druid Lake

