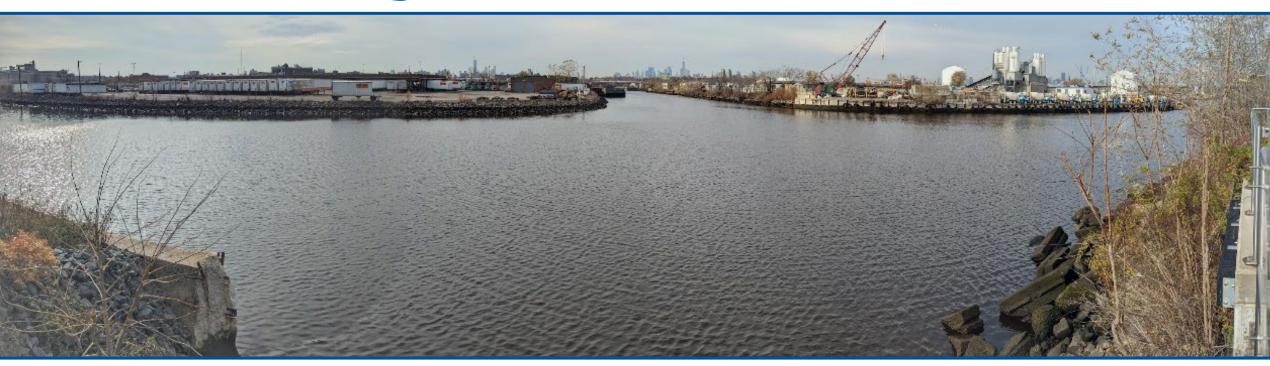
Newtown Creek Aeration System Update





Agenda



- 1. 2022 Aeration Season Recap
- 2. Revised Aeration System Operation
- 3. Dissolved Oxygen Data
- 4. Current Operational Status
 - English Kills
 - East Branch



1. 2022 Aeration Season Recap

5/25 - 6/3/2022

Divers onsite to repair EK legs

7/19 - 7/21/2022

EK south leg turned off for bathymetry sampling

8/16/2022 EB power restored

9/7 - 9/13/2022Aeration turned off for DEC field work

















6/9/2022

EK south leg turned on for 2022 season

8/2 - 8/3/2022Divers remobilized to repair EK south leg

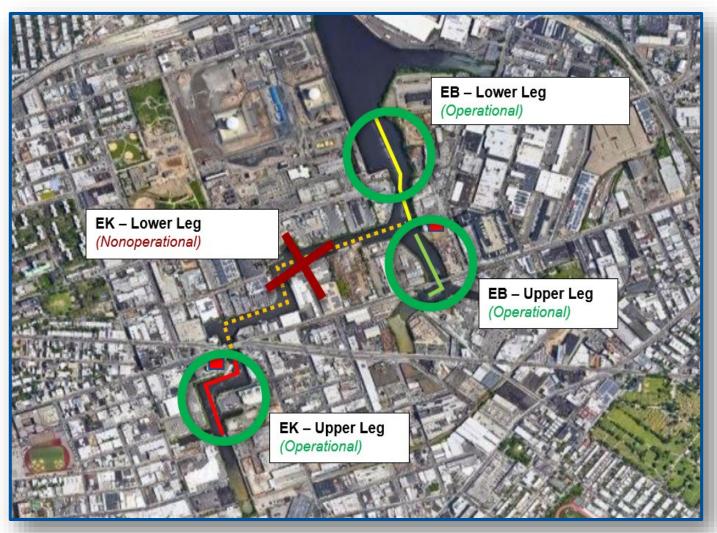
8/24/2022 **Divers** onsite to repair EB legs. Legs turned on for the season

Season ended early

9/26/2022

for DEC field work

2. Revised Aeration System Operation

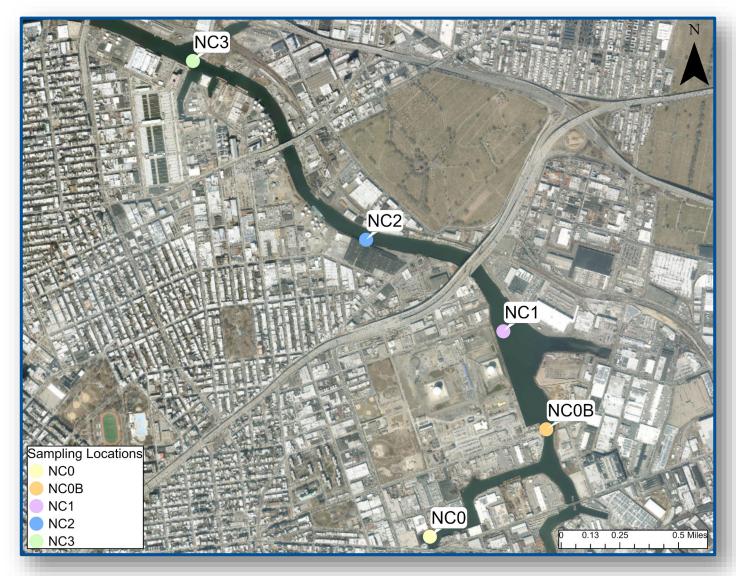


Facility	Blower Configuration
English Kills	1 blower / 1 leg (South)
East Branch	1 blower / 2 legs

Updated Aeration Protocol:

- Original plan only operate south legs @ both facilities
 - Once East Branch became operational (Aug. 2022), found it was not feasible to operate system on 1 leg
 - Could cause increased pressure on blower and result in a catastrophic failure

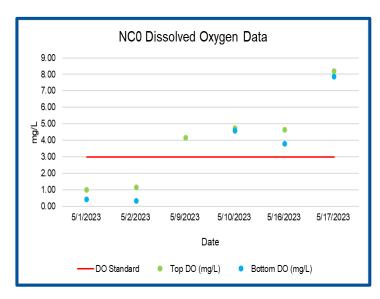
3. Dissolved Oxygen Monitoring

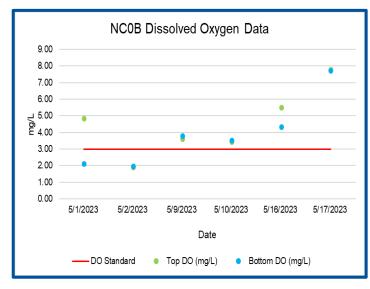


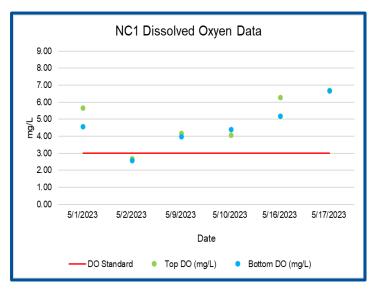


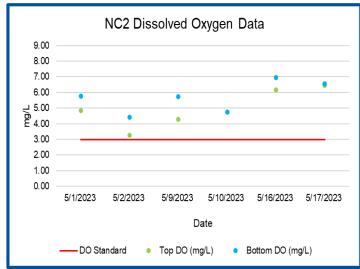
Resumed twice-a-week DO sampling at the 5 harbor survey stations on May 1, 2023

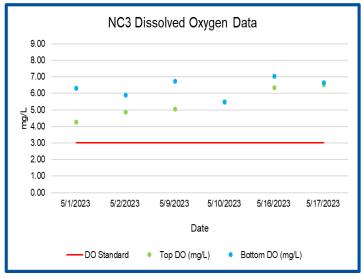
3. Dissolved Oxygen Monitoring May 2023 Data













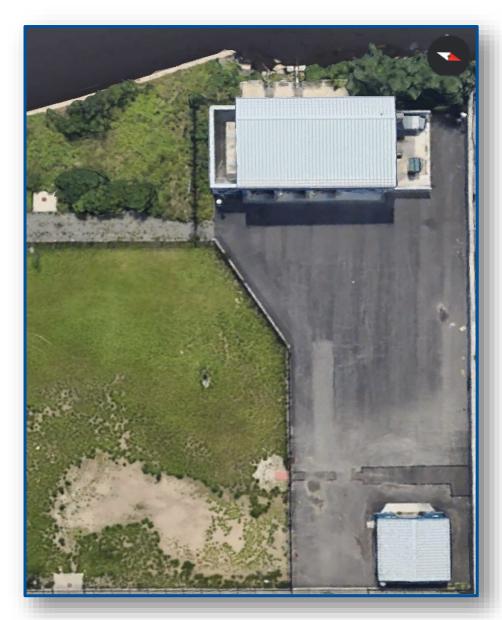
4. Current Operational Status



English Kills

- 2023 Aeration Season preparation in progress
- Pre-season system repair + maintenance
 - Diving Contractor mobilized onsite May 8,
 2023 to inspect diffusers and aeration lines
 - Work ongoing
 - Blower PM/CM completed
 - 3 blowers operational
- Noise reduction project completed October 2021
 - Will take additional noise readings this season
- Current operation maximizes blower redundancy

4. Current Operational Status



East Branch

- Transformer/Power Failure repaired August 16, 2022
- 2023 Aeration Season preparation in progress
- Pre-season system repair + maintenance
 - Diving Contractor mobilized onsite on May 12, 2023 to inspect diffusers and aeration lines
 - Work ongoing
 - Blower PM/CM completed
 - 1 blower operational
- Procurement of spare blower in progress
- Noise reduction project in progress
 - Will take additional noise readings this season

