

The HALIFAX logo is rendered in a bold, white, sans-serif font against a dark blue background. The background of the entire slide features a geometric design with overlapping triangles in various shades of blue and white.

Bedford West Water Quality Monitoring Program Update

2019-2022

2023-05-08

Program Overview

The water quality monitoring program was specified in the Bedford West Secondary Planning Strategy (BWSPS) in response to the Municipality's statement "that best management practices may be needed both during development and afterward to maintain water quality in the lakes" and "that a water quality monitoring program be established on lakes throughout the watershed" as published in the BWSPS in 2006.

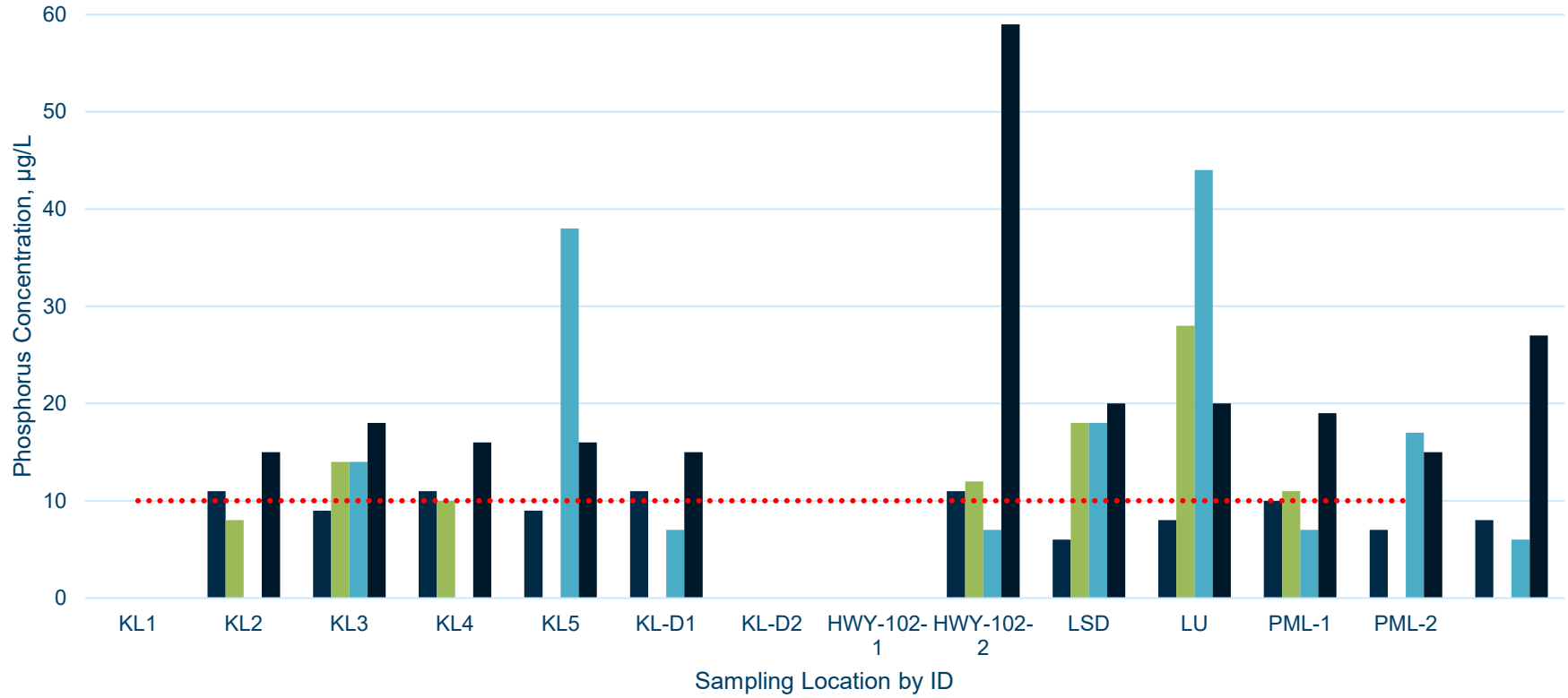
Program Overview

- Sampling takes place in spring (May), summer (August), and fall (October) annually
- Results are reported to HRM Environment & Climate Change
- Staff reports delivered to North West Community Council, RWAB, and the developer

Reporting

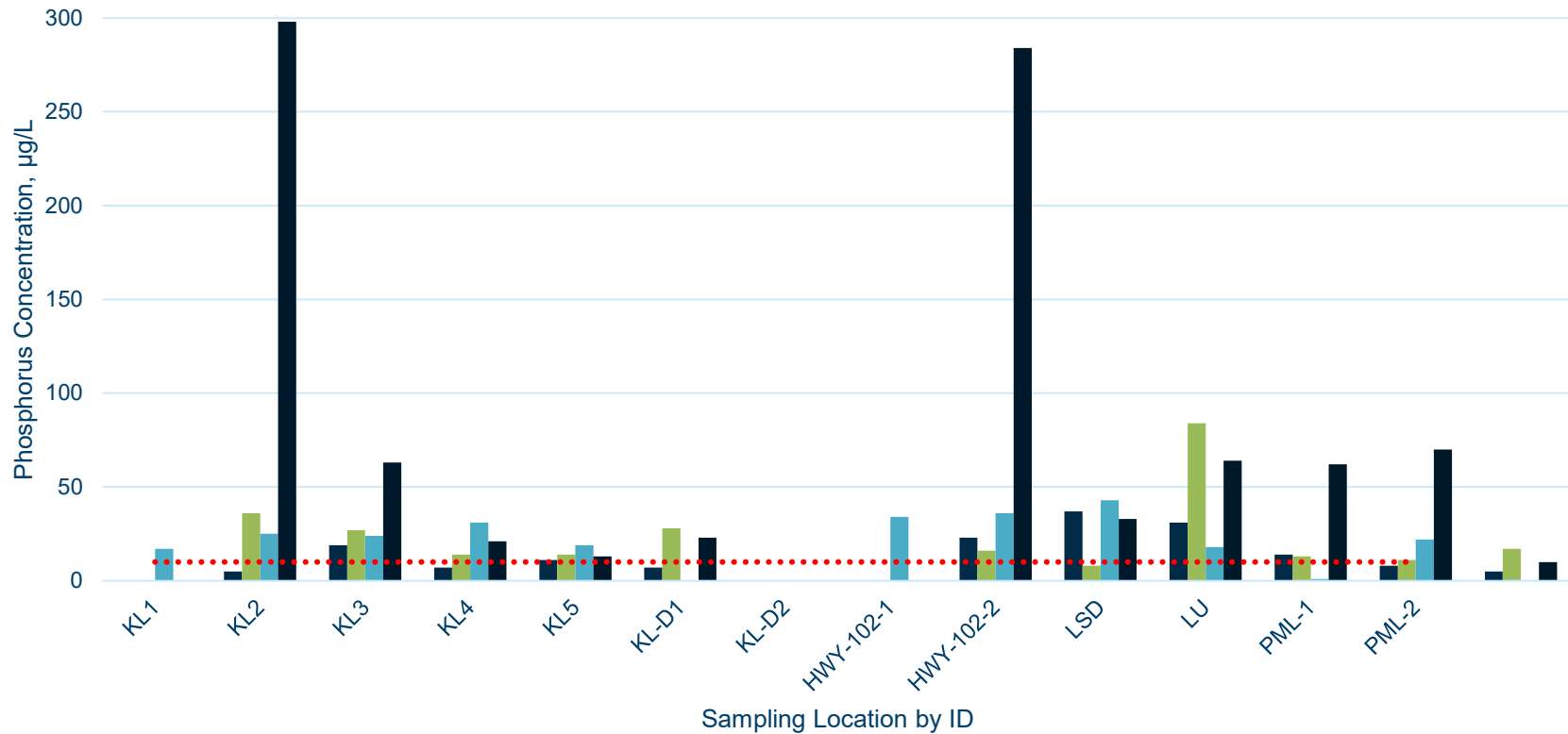
- Current reporting is for 2019, 2020, 2021, and 2022 sampling seasons
- Repeated exceedances were observed at all sampling events
 - Phosphorus (threshold: 10µg/L, HRM management criteria)
 - *E. coli* (threshold: 400CFU/100mL Health Canada)
- Non-compliant values were also observed in at least one sampling event
 - Dissolved oxygen (>5.5mg/L, NSECC EQS)
 - Aluminum (5µg/L, NSECC EQS)
 - Chloride (120mg/L, CCME FWAL)
 - Iron (300µg/L, CCME FWAL)

Total Phosphorus ($\mu\text{g/L}$), Spring Sampling 2019-2022



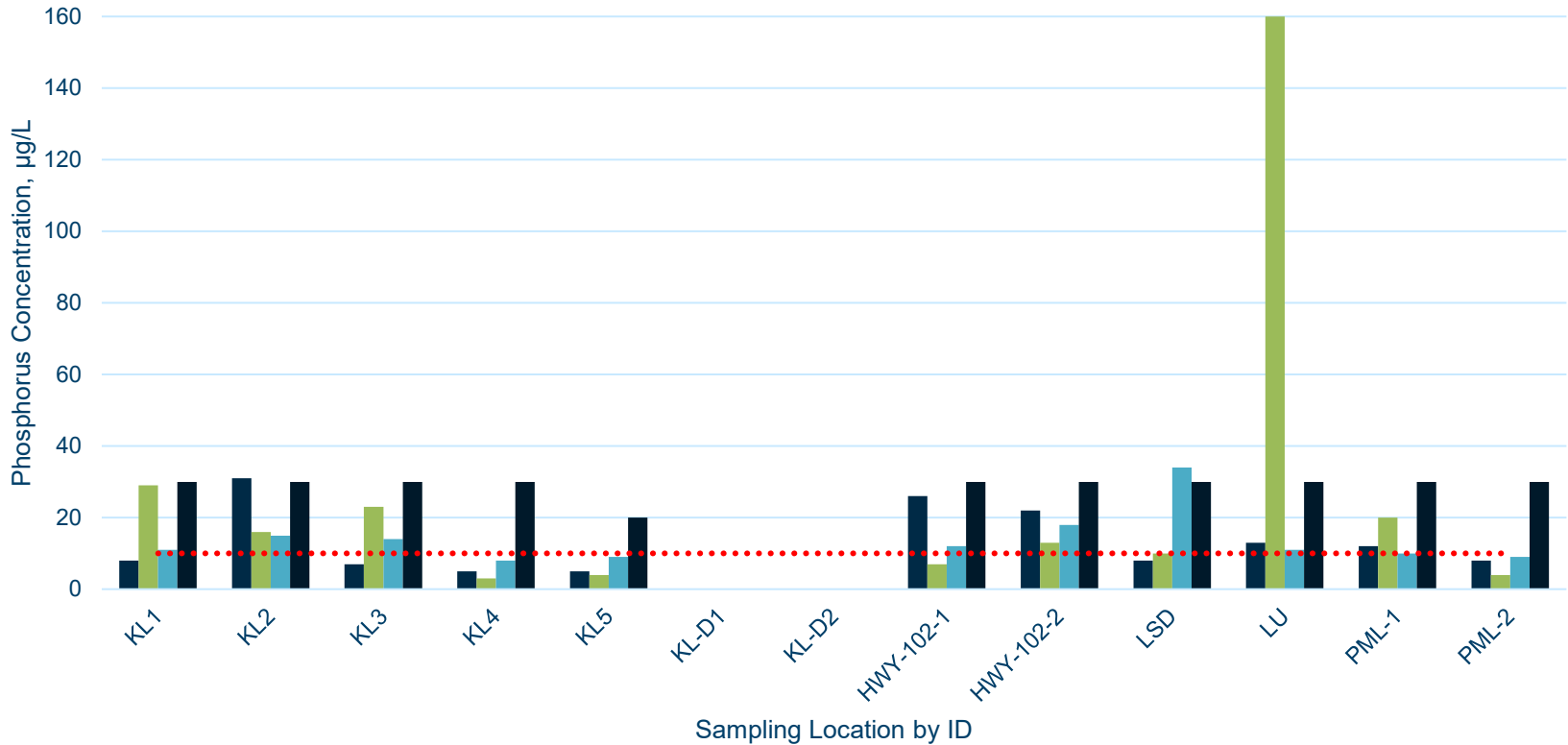
2019
 2020
 2021
 2022
 10 $\mu\text{g/L}$ Threshold

Total Phosphorus ($\mu\text{g/L}$), Summer Sampling 2019-2022



2019
 2020
 2021
 2022
 10 $\mu\text{g/L}$ Threshold

Total Phosphorus ($\mu\text{g/L}$), Fall Sampling 2019-2022



2019 2020 2021 2022 10 $\mu\text{g/L}$ Threshold

Future Reporting

- Reporting will recommence on a regular basis in 2023 to NWCC, RWAB, and the developer
- Exceedances will be reported three times annually, upon receipt of analysis from the consultant
- Monitoring and reporting will continue for the duration of the period of the Bedford West development agreements, and for two years after the completion of the final development.