

AER Third-Party Sampling 2023

Kearl Oil Sands

Surface Water Quality



Location	Date	PAL Guideline Exceedance*
Pad Near Polishing Pond 4		
SW-PP4-1 (north of Polishing Pond 4)	19-August-2023	PAL: total chromium, total sulphide
SW-PP4-2 (north of Polishing Pond 4)	19-August-2023	PAL: total chromium, total sulphide
SW-PP-3 (north of Polishing Pond 4)	19-August-2023	PAL: total chromium, total sulphide
SW-PP-4 (north of Polishing Pond 4)	19-August-2023	PAL: total chromium, total sulphide
SW-PP4-4 (background – west of Pad)	19-August-2023	PAL: total chromium, total sulphide

*Environmental Quality Guidelines for Alberta Surface Waters, Surface Water Quality Guidelines for the Protection of Aquatic Life

Interpretation

- Naphthenic acids were analyzed using the FTIR method.
- No discernable influence of industrial wastewater based on samples collected on August 19, 2023.