

Appendix C. Graphical Presentations

Routine Water Quality Monitoring for ESC CMP V - April 2024

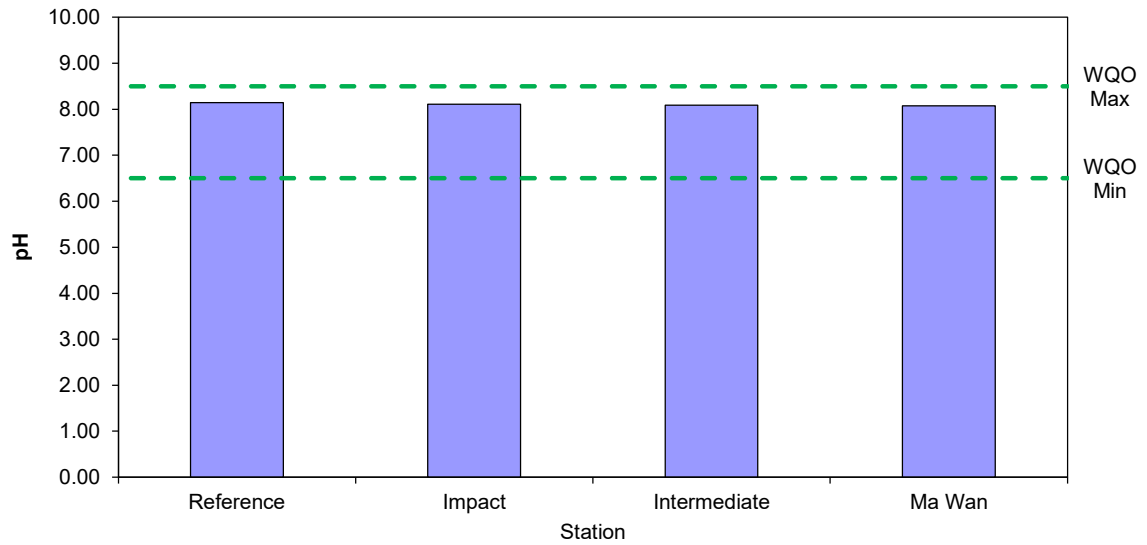


Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for ESC CMP V - April 2024

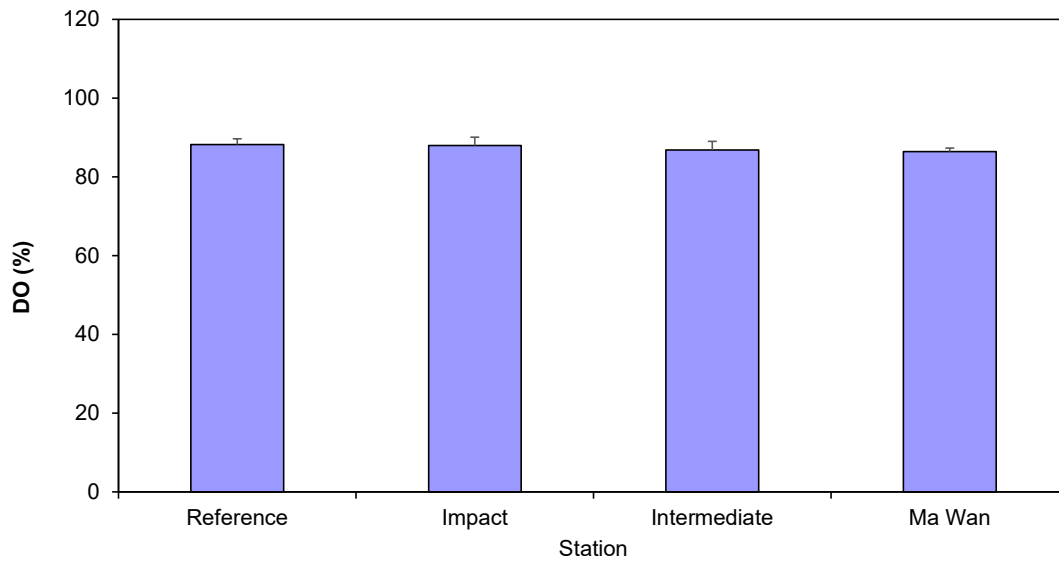


Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

¹ The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

Routine Water Quality Monitoring for ESC CMP V - April 2024

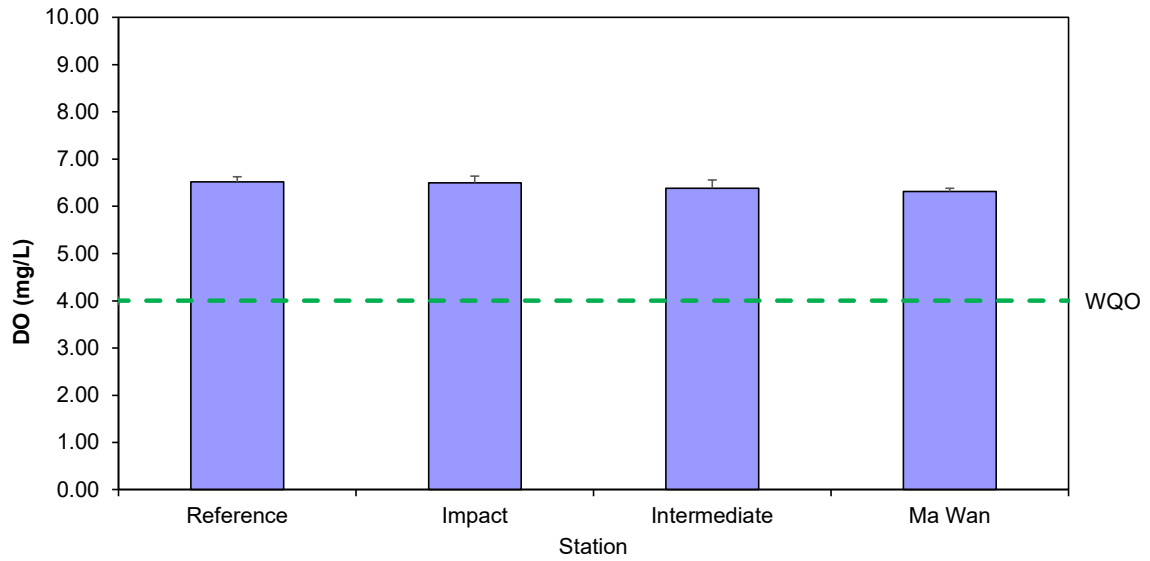


Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for ESC CMP V - April 2024

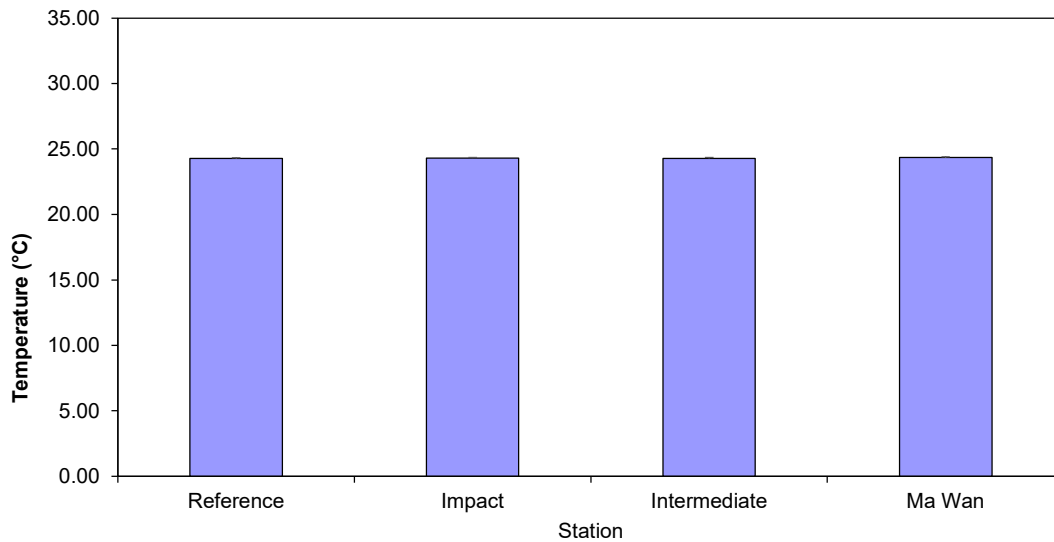


Figure 4: Level of Temperature (°C; mean + SD¹) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

¹ The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

Routine Water Quality Monitoring for ESC CMP V - April 2024

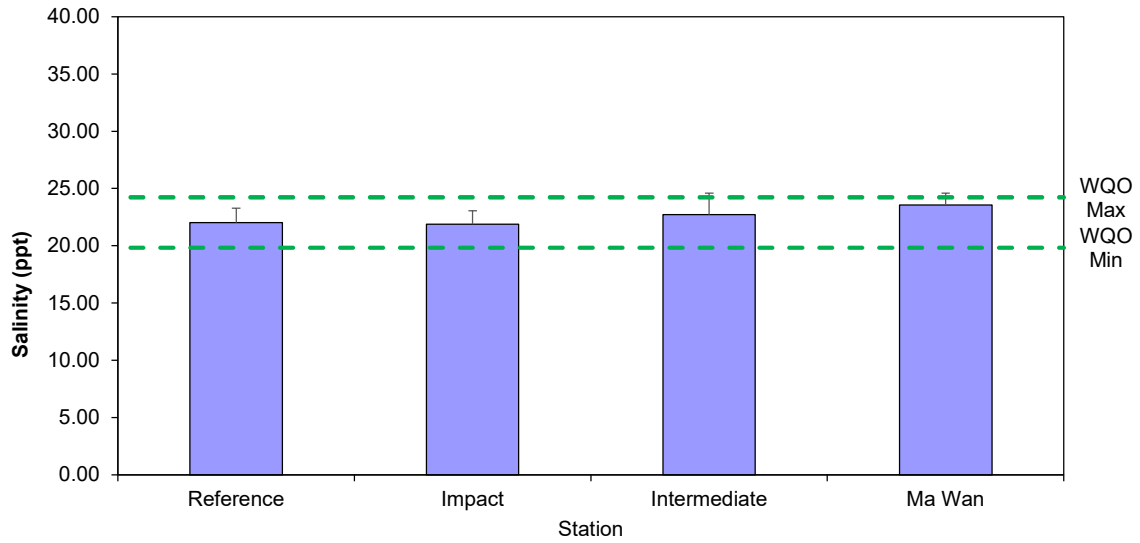


Figure 5: Level of Salinity (ppt; mean + SD)¹ recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for ESC CMP V - April 2024

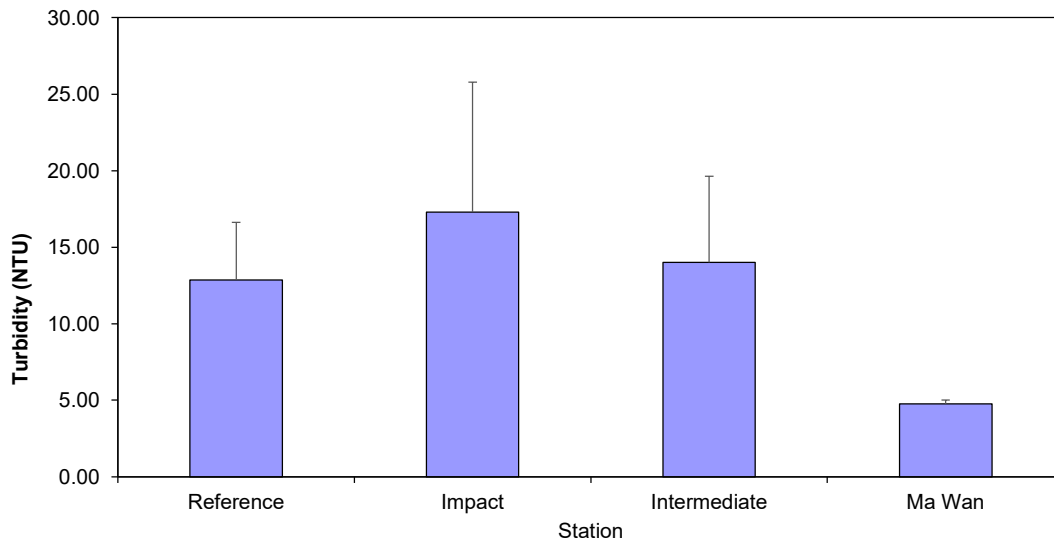


Figure 6: Level of Turbidity (NTU; mean + SD)¹ recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

¹ The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.

Routine Water Quality Monitoring for ESC CMP V April 2024

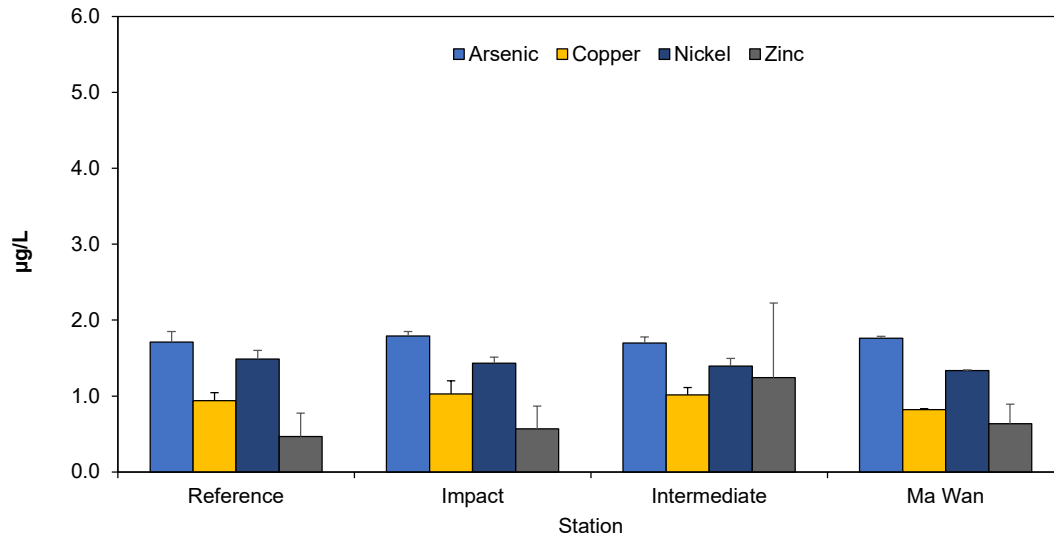


Figure 7: Concentration of Arsenic, Copper, Nickel, and Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for ESC CMP V April 2024

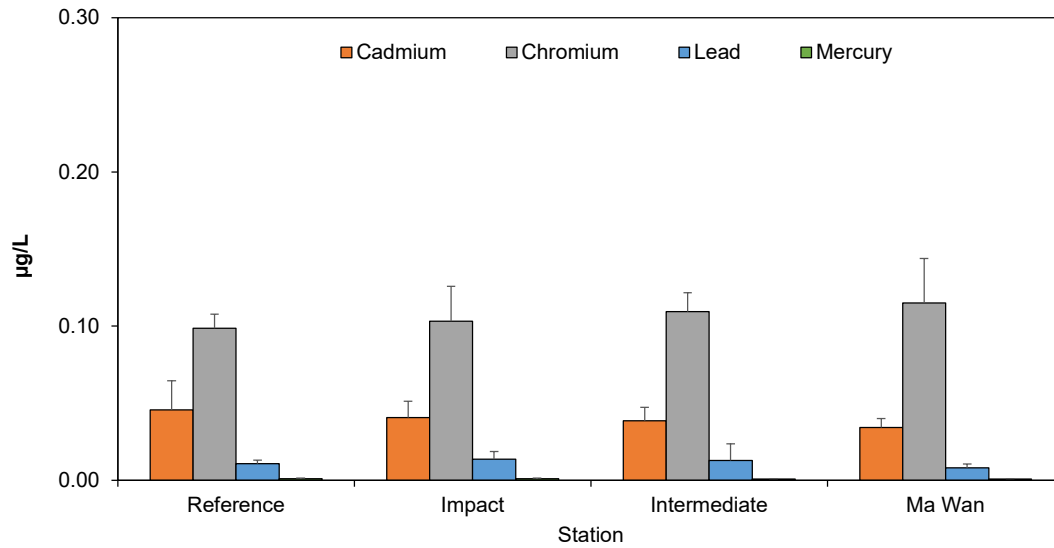


Figure 8: Concentration of Cadmium, Chromium, Lead, and Mercury (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for Nutrients - April 2024

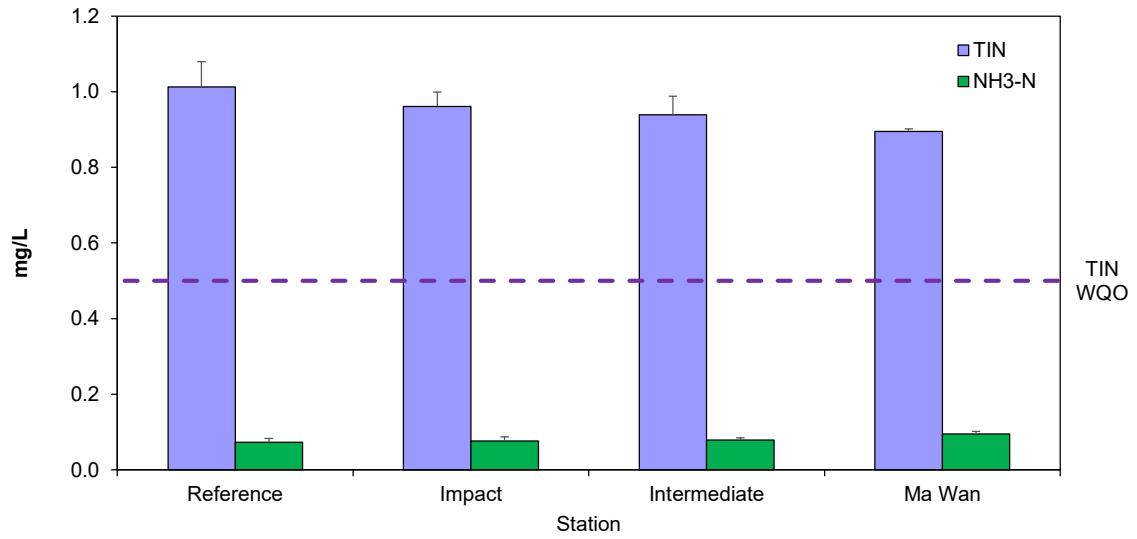


Figure 9: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for Biochemical Oxygen Demand (BOD5) - April 2024

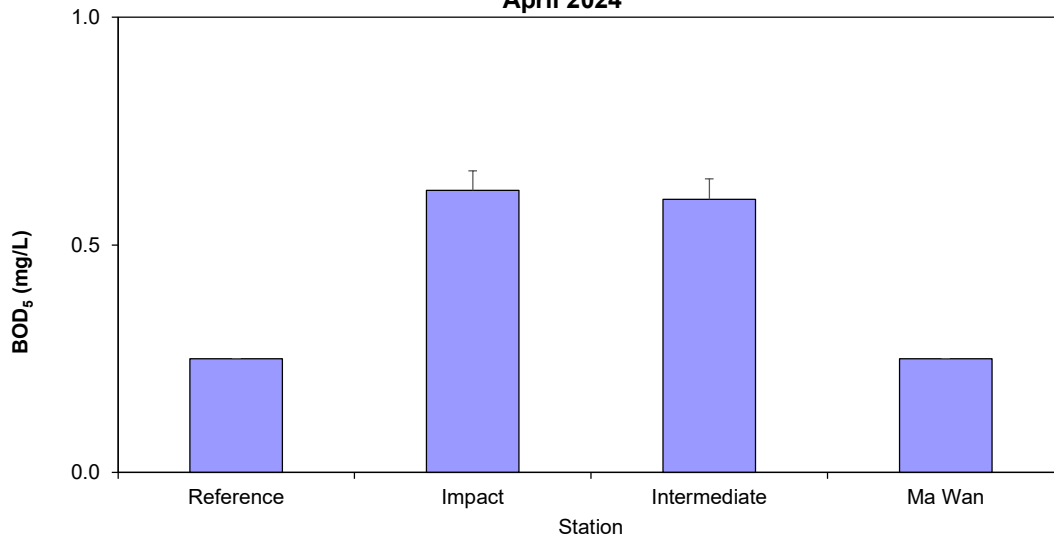


Figure 10: Level of Biochemical Oxygen Demand (BOD5) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Routine Water Quality Monitoring for Suspended Solids - April 2024

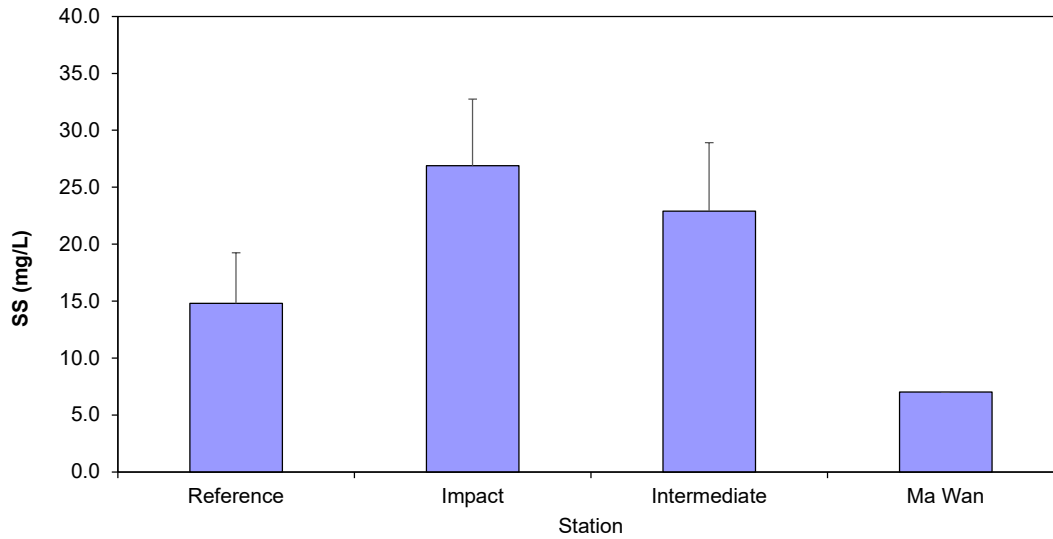


Figure 11 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in April 2024

Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMP Vb - April 2024

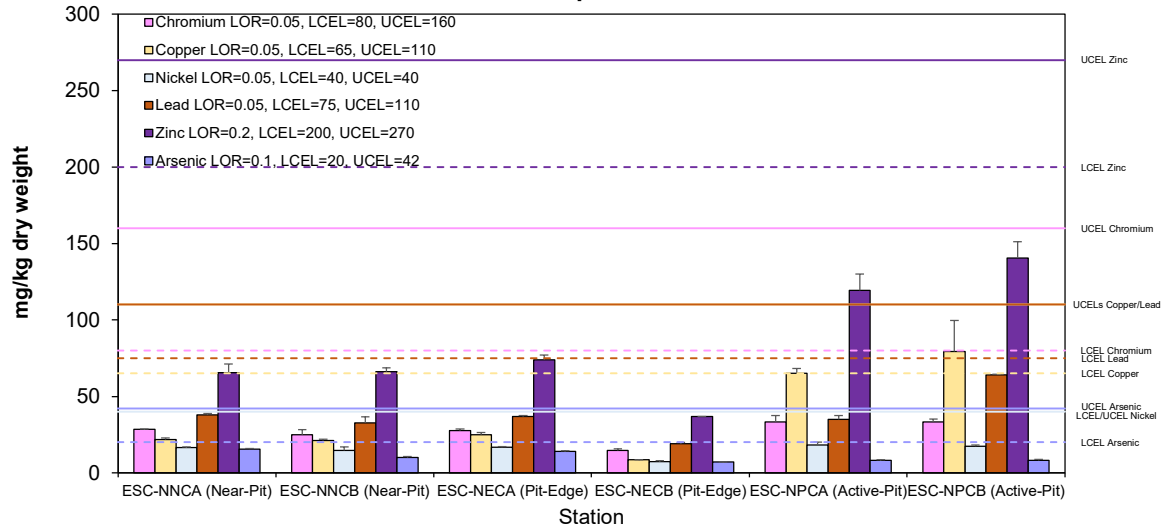


Figure 12: Concentration of Metals and Metalloid²(Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024

² The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the standard promulgated starting from 19 January 2024. https://www.cedd.gov.hk/filemanager/eng/content_80/PAH_2022_Chapter_4_Rev_06_240321_Clean.pdf

Pit Specific Sediment Chemistry for Metal Contaminants at ESC CMP Vb - April 2024

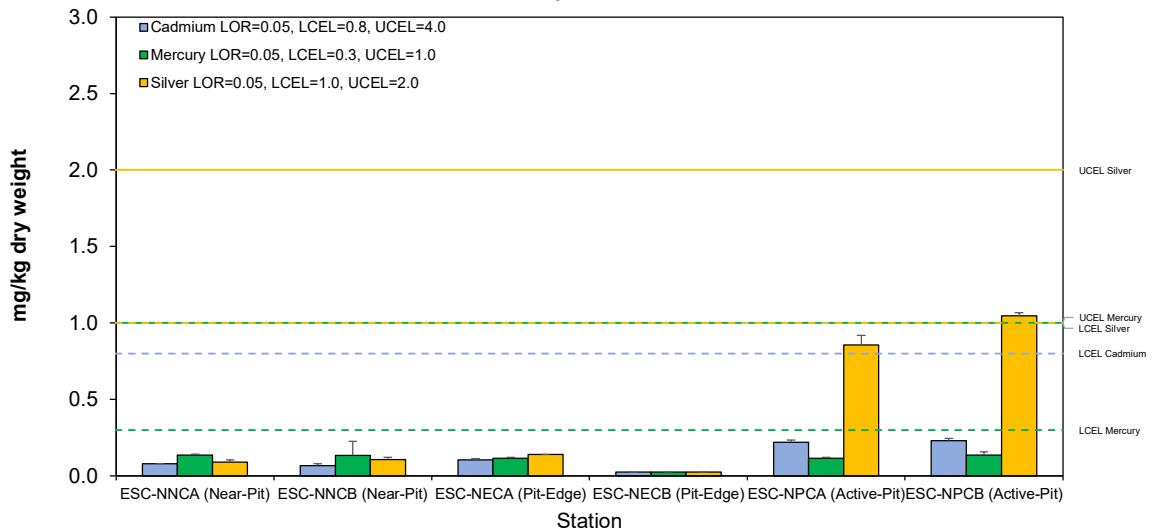


Figure 13: Concentration of Metals² (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024

Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMP Vb - April 2024

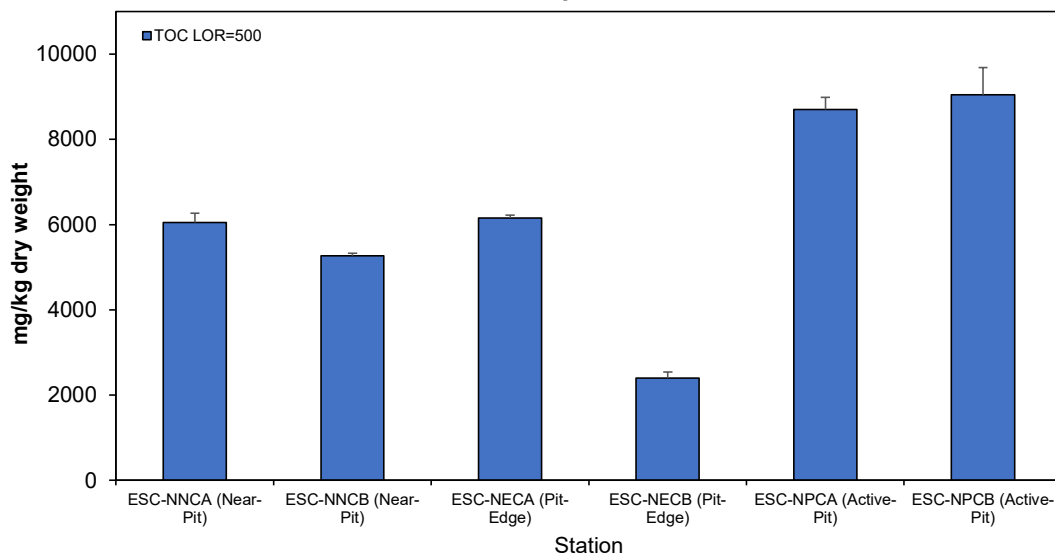


Figure 14: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024

² The LCEL and UCEL of Cadmium, Mercury and Arsenic have been updated according to the standard promulgated starting from 19 January 2024. https://www.cedd.gov.hk/filemanager/eng/content_80/PAH_2022_Chapter_4_Rev_06_240321_Clean.pdf

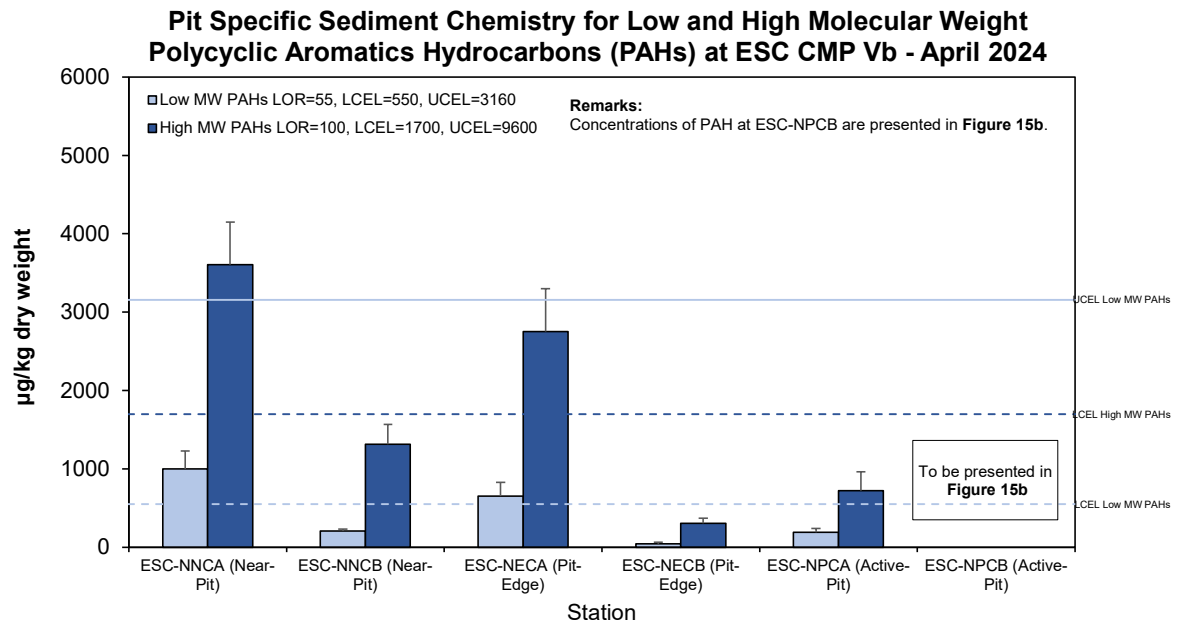


Figure 15a Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024

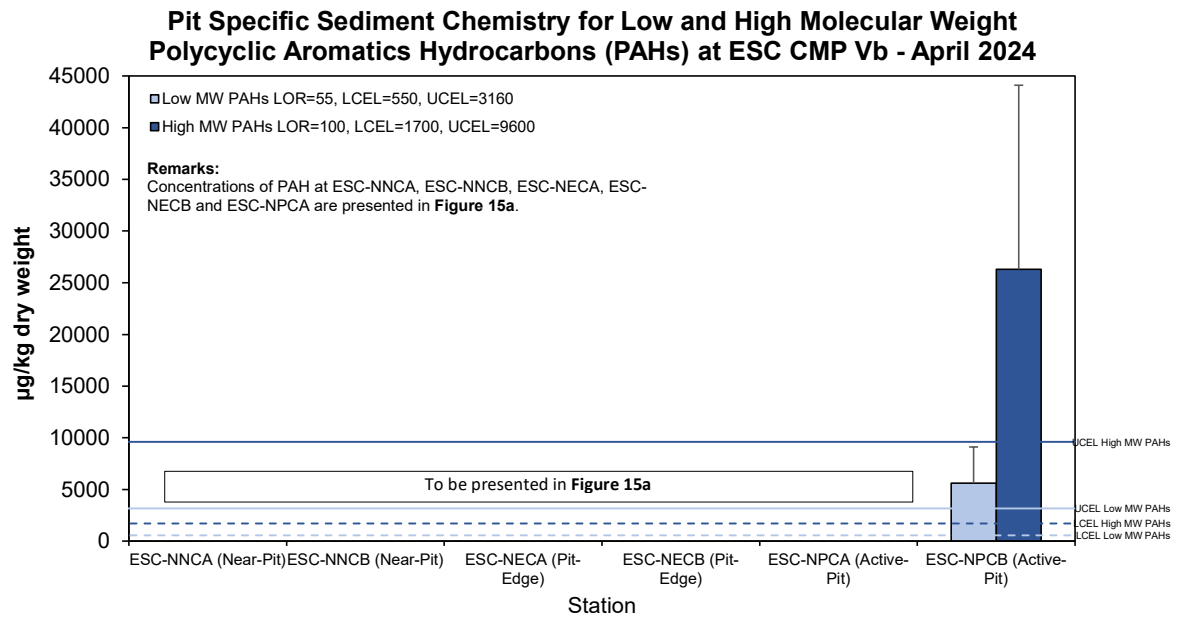


Figure 15b Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024

Pit Specific Sediment Chemistry for Tributyltin (TBT) at ESC CMP Vb - April 2024

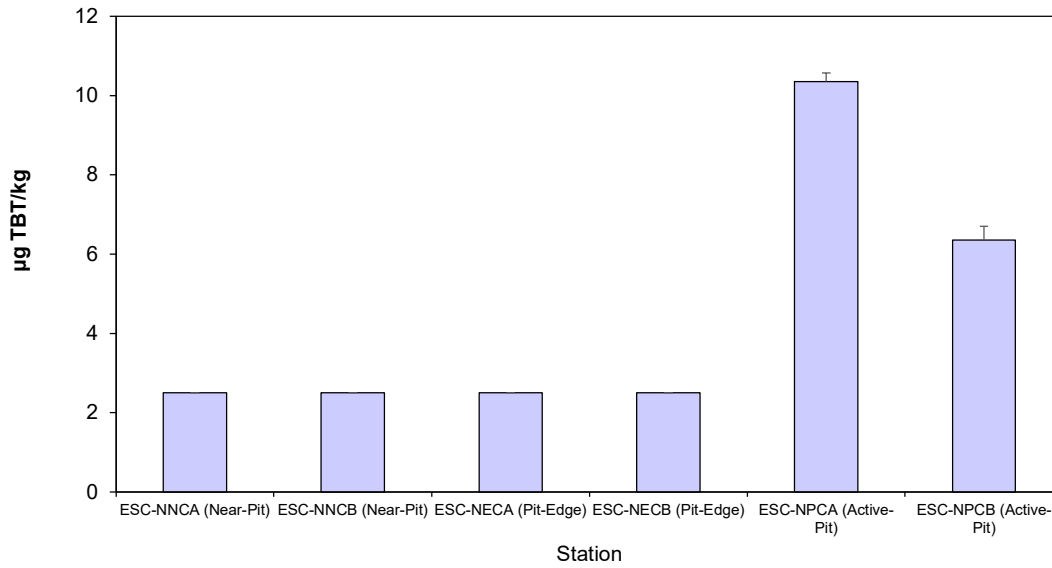


Figure 16: Concentration of Tributyltin (TBT) ($\mu\text{g TBT/kg}$; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in April 2024