Appendix C. Graphical Presentations

Routine Water Quality Monitoring for ESC CMP V - October 2023

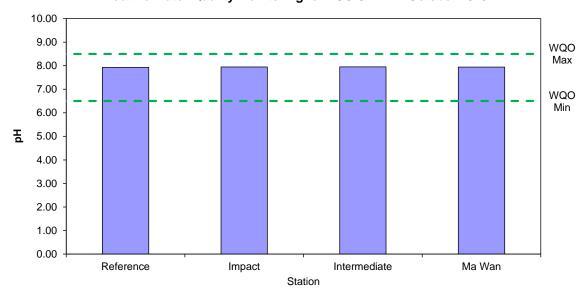


Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Routine Water Quality Monitoring for ESC CMP V - October 2023

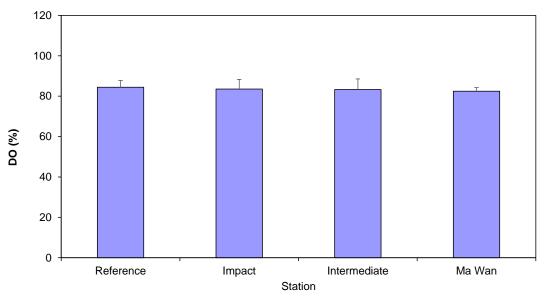


Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

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 - October 2023

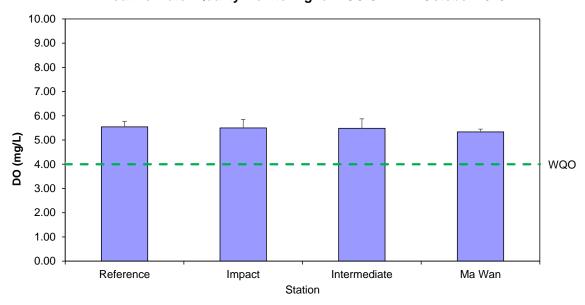


Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Routine Water Quality Monitoring for ESC CMP V - October 2023

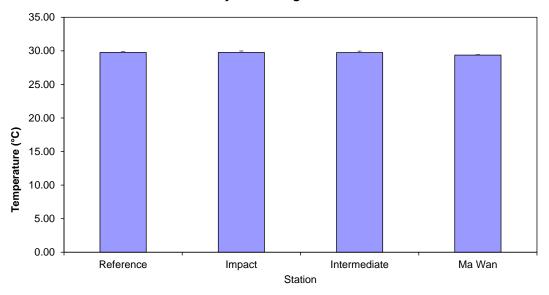


Figure 4: Level of Temperature (°C; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

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 - October 2023

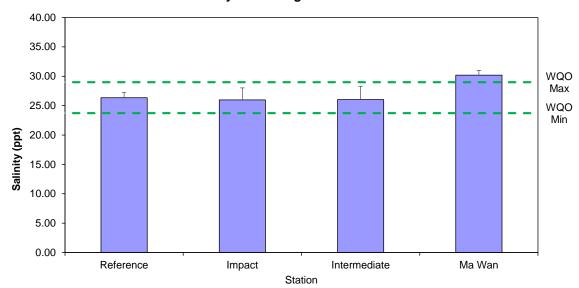


Figure 5: Level of Salinity (ppt; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Routine Water Quality Monitoring for ESC CMP V - October 2023

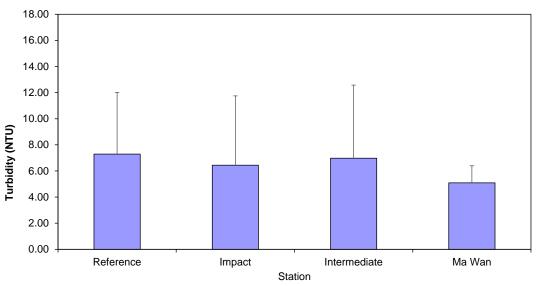


Figure 6: Level of Turbidity (NTU; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

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 October 2023

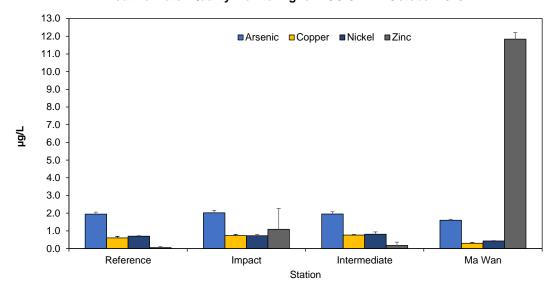


Figure 7: Concentration of Arsenic, Copper, Nickel, and Zinc (μg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Routine Water Quality Monitoring for ESC CMP V October 2023

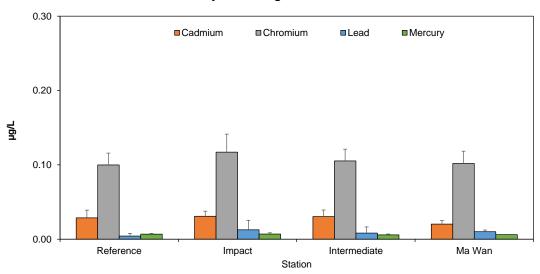


Figure 8: Concentration of Cadmium, Chromium, Lead and Mercury, (μg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023



Routine Water Quality Monitoring for Nutrients - October 2023

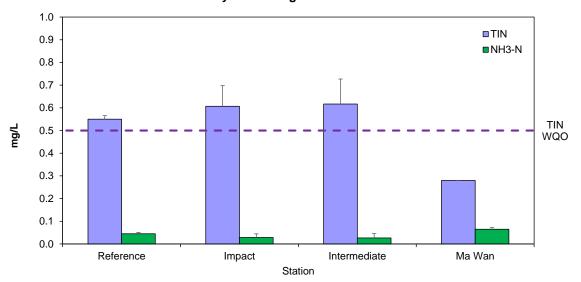


Figure 9: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Routine Water Quality Monitoring for Biochemical Oxygen Demand (BOD5) - October 2023 1.0 0.5 Reference Impact Intermediate Ma Wan Station

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 October 2023

Routine Water Quality Monitoring for Suspended Solids - October 2023

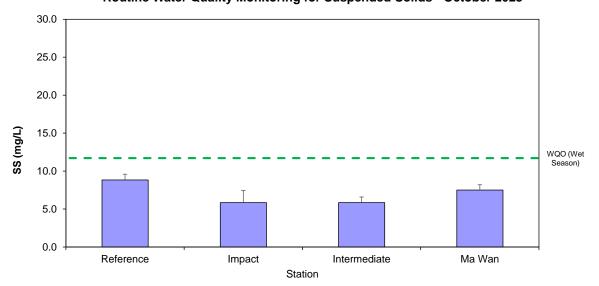


Figure 11 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in October 2023

Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMP Vb - October 2023

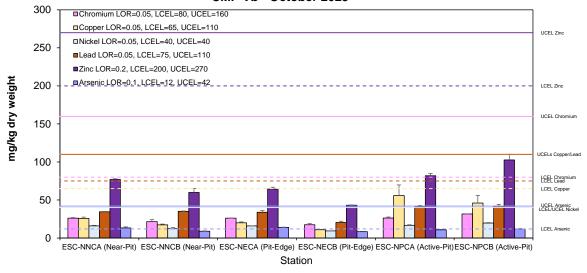


Figure 12: Concentration of Metals and Metalloid (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in October 2023



Pit Specific Sediment Chemistry for Metal Contaminants at ESC CMP Vb - October 2023

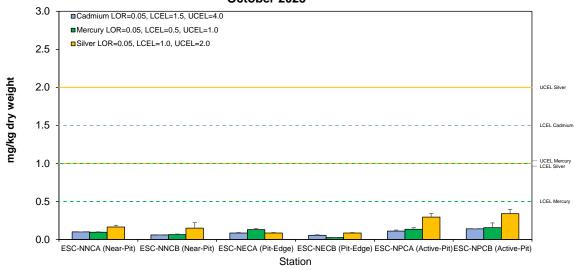


Figure 13: Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in October 2023

Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMP Vb - October 2023

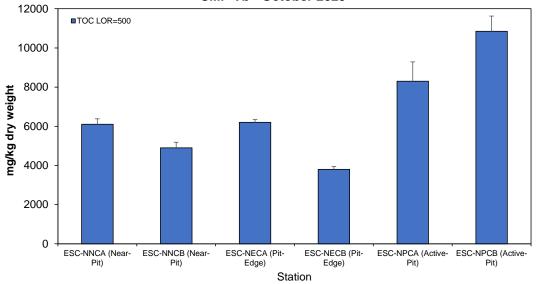


Figure 14: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in October 2023

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - October 2023 3000 ■Low MW PAHs LOR=55, LCEL=550, UCEL=3160 Concentrations of PAH at ESC-NPCA and ESC-NPCB are ■ High MW PAHs LOR=100, LCEL=1700, UCEL=9600

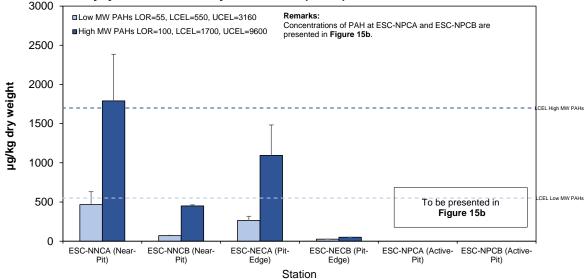
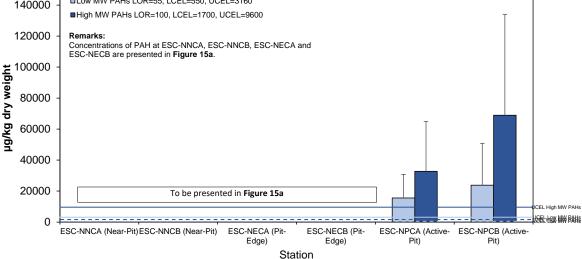


Figure 15a Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (µg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in October 2023

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at ESC CMP Vb - October 2023 ■Low MW PAHs LOR=55, LCEL=550, UCEL=3160 140000 ■High MW PAHs LOR=100, LCEL=1700, UCEL=9600



Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons Figure 15b (μg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in October 2023



Sediment Chemistry after a Major Storm for Metal and Metalloid Contaminants at ESC CMPs - October 2023

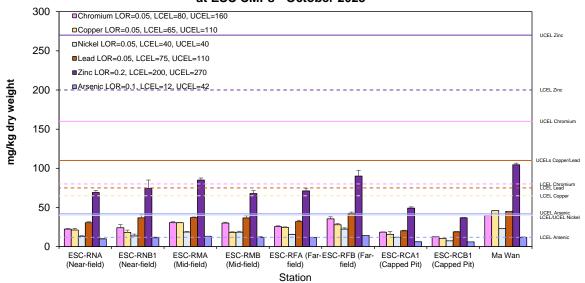


Figure 16 Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mean + SD) in sediment samples collected from Sediment Chemistry after a Major Storm for ESC CMPs in October 2023

Sediment Chemistry after a Major Storm for Metal Contaminants at ESC CMPs - October 2023

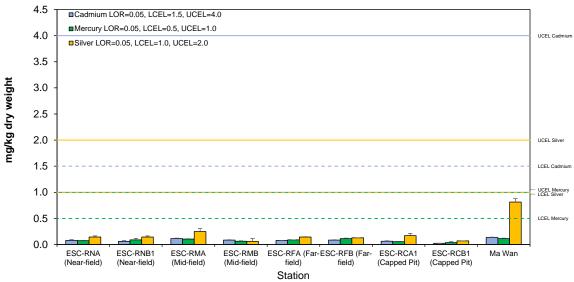


Figure 17: Concentration of Metals (Cd, Hg, Ag; mean + SD) in sediment samples collected from Sediment Chemistry after a Major Storm for ESC CMPs in October 2023