

**Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at SB CMP 2
December 2015**

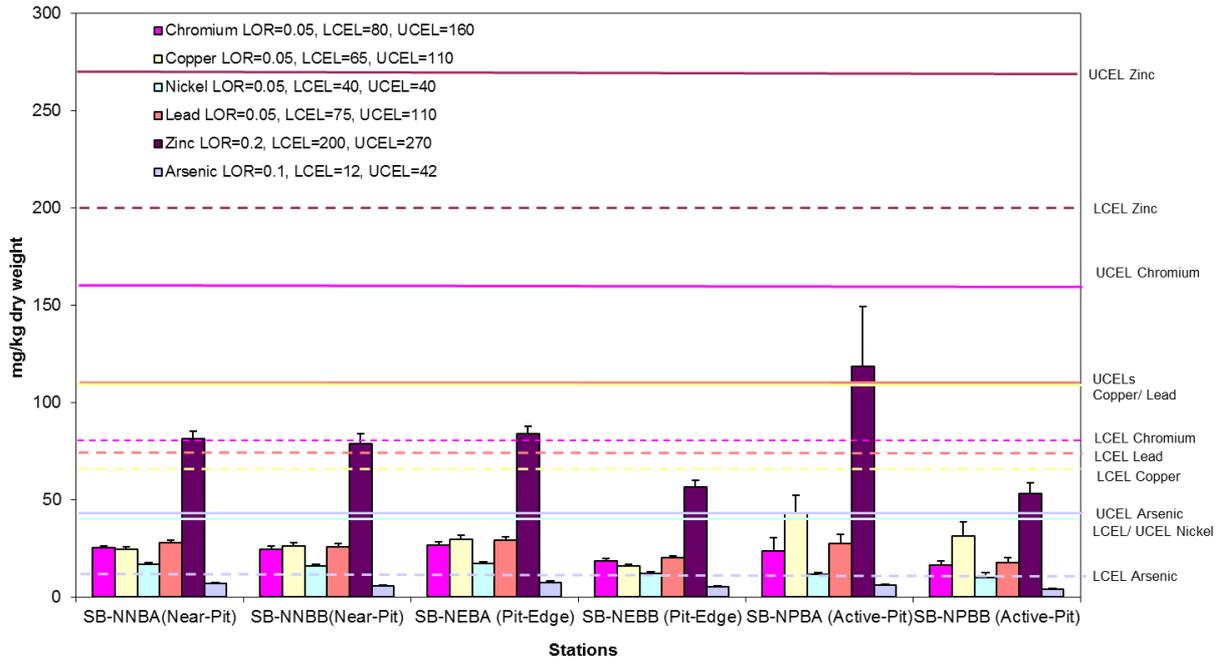


Figure 1: Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for CMP 2 in December 2015.

**Pit Specific Sediment Chemistry for Metal Contaminants at SB CMP 2
December 2015**

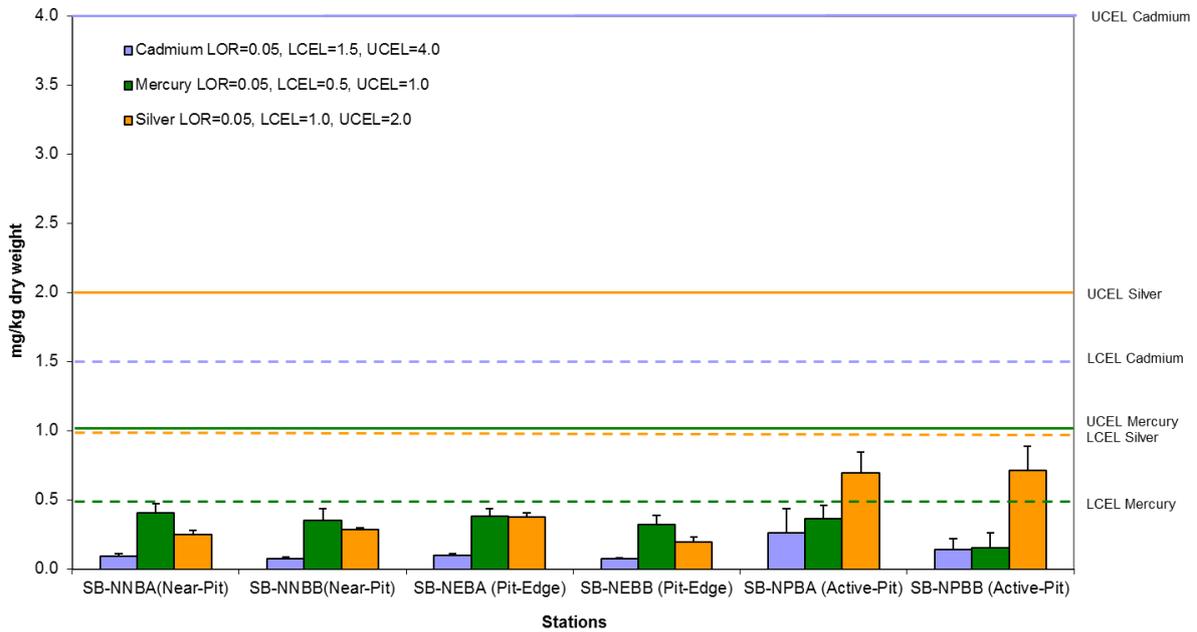


Figure 2: Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for CMP 2 in December 2015.

Source: H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\41st (January 2016)

Date: 15/2/2016

**Environmental
Resources
Management**



**Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at SB CMP 2
December 2015**

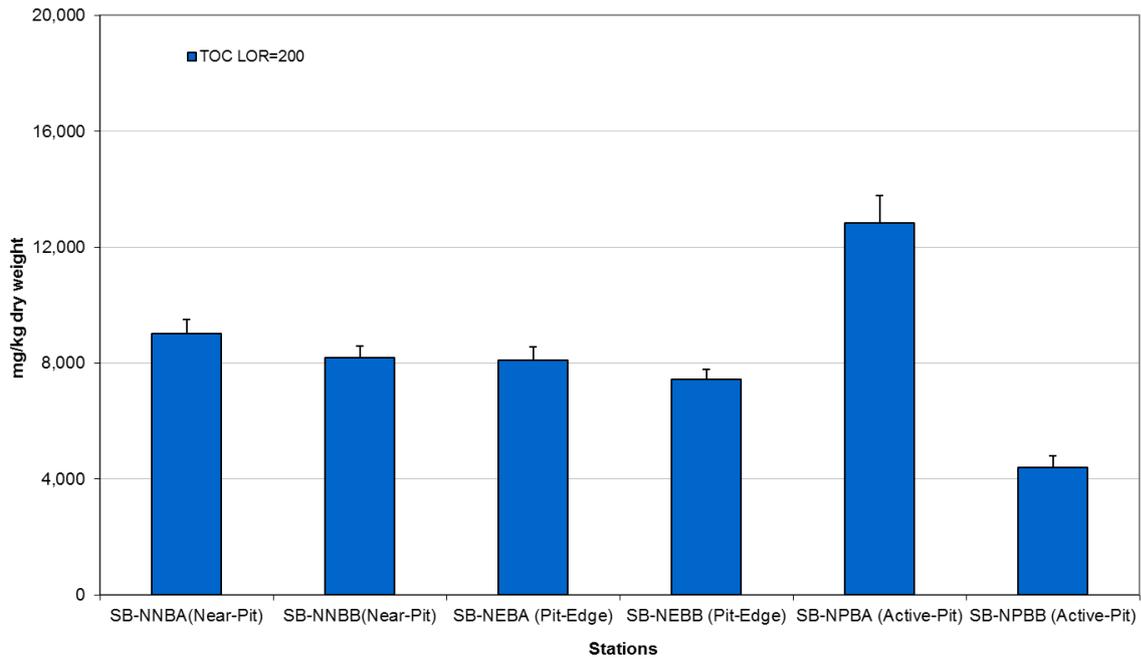


Figure 3: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for CMP 2 in December 2015.

**Pit Specific Sediment Chemistry for Tributyltin (TBT) at SB CMP 2
December 2015**

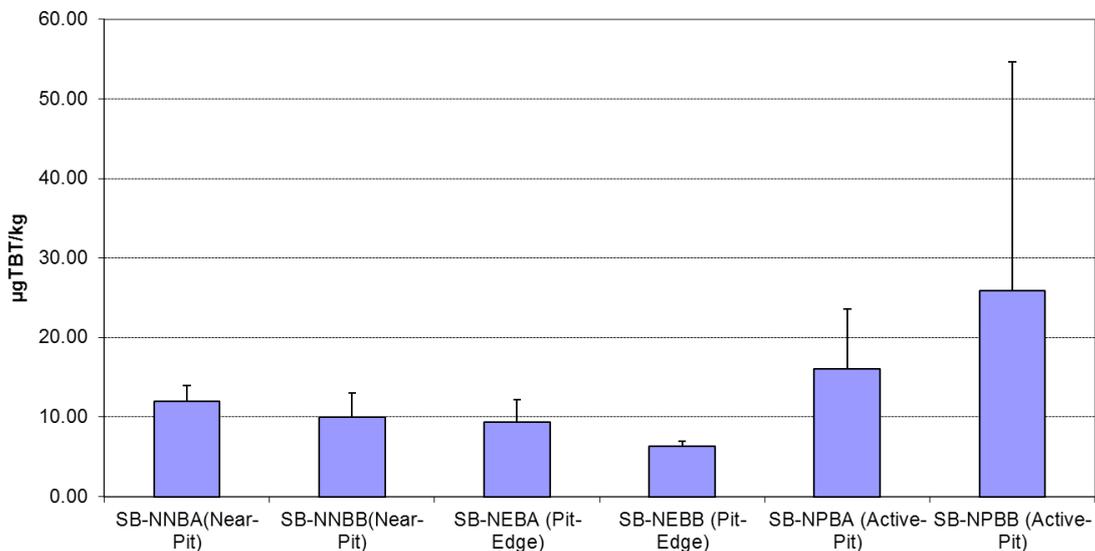


Figure 4: Concentration of Tributyltin (TBT) (µg TBT/kg; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for CMP 2 in December 2015.

Pit Specific Sediment Chemistry for Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) at CMP 2 in December 2015

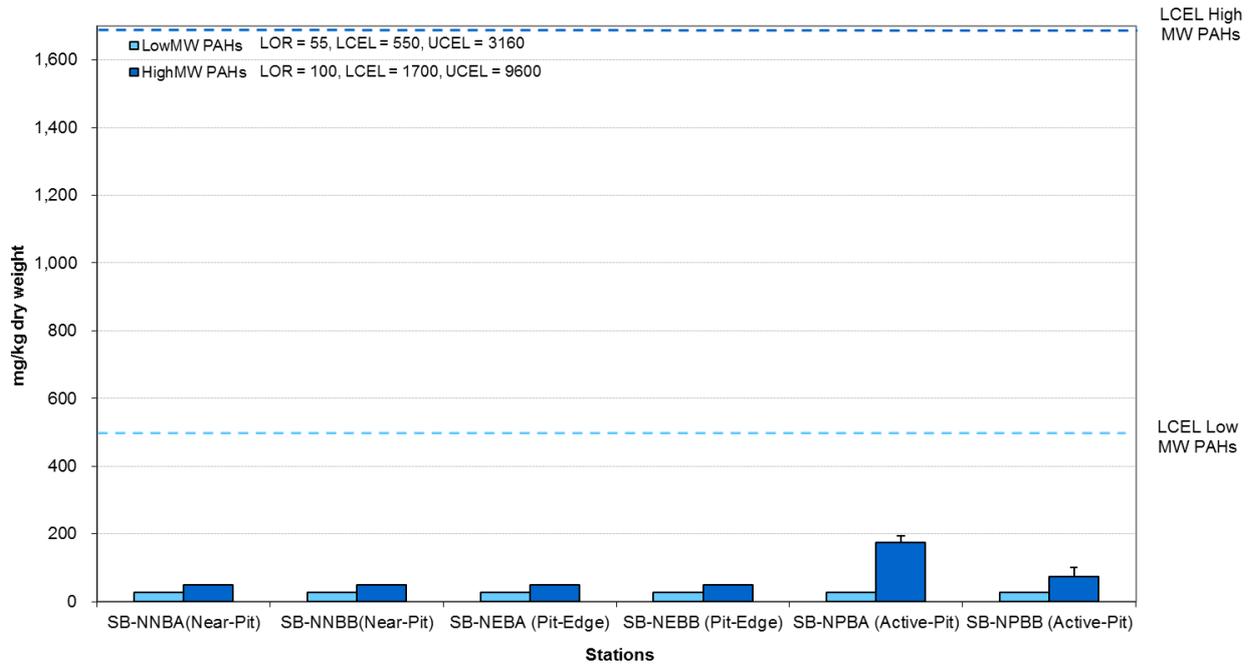


Figure 5: Concentration of Low and High Molecular Weight Polycyclic Aromatics Hydrocarbons (PAHs) (mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for CMP 2 in December 2015.

**Cumulative Impact Sediment Chemistry for Metal and Metalloid Contaminants at SB CMPs
December 2015**

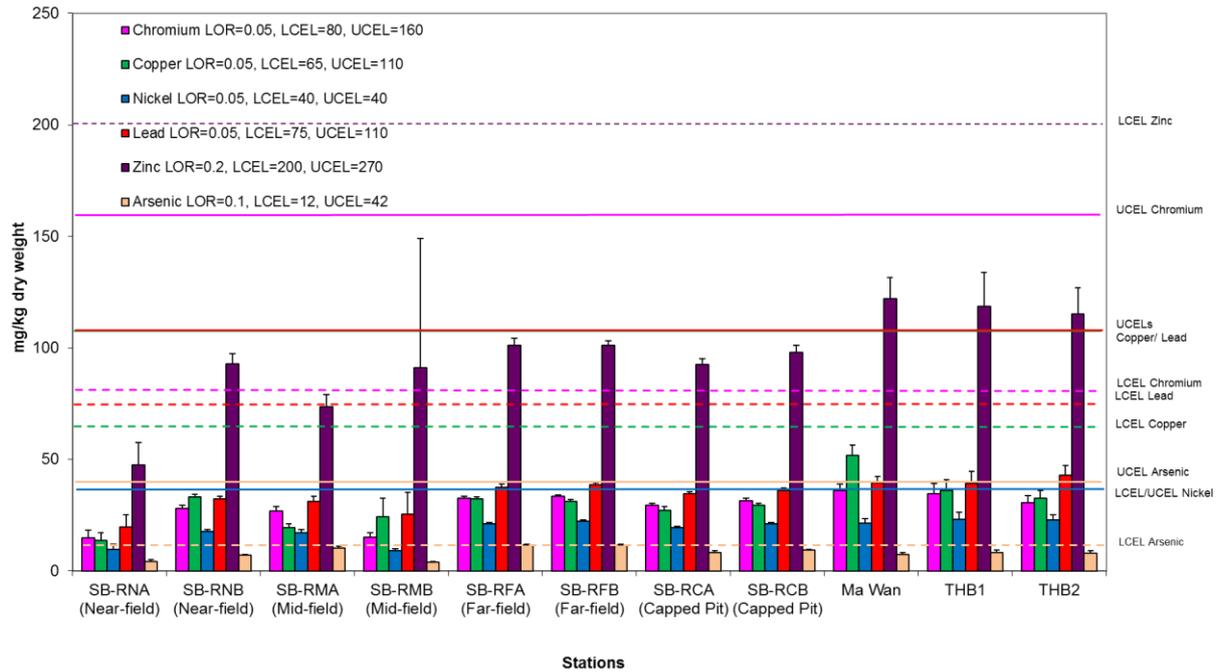


Figure 6: Concentration of Metals and Metalloid (Cr, Cu, Ni, Pb, Zn, As; mean +SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for SB CMPs in December 2015.

**Cumulative Impact Sediment Chemistry for Metal Contaminants at SB CMPs
December 2015**

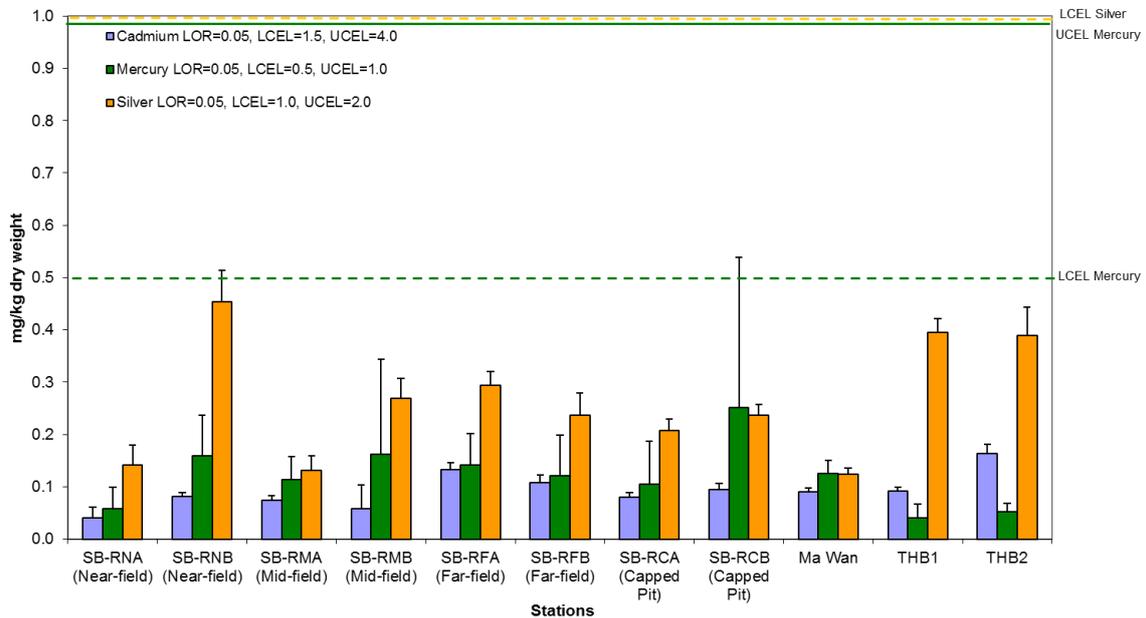


Figure 7: Concentration of Metals (Cd, Hg, Ag; mean +SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for SB CMPs in December 2015.

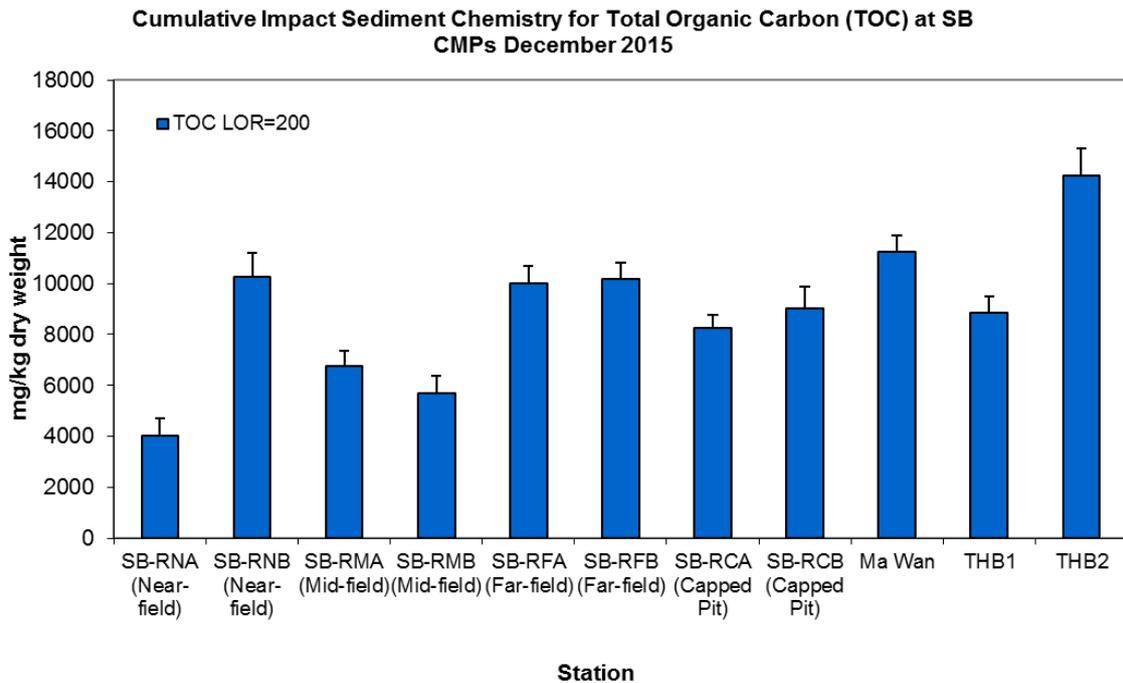


Figure 8: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean +SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for SB CMPs in December 2015.

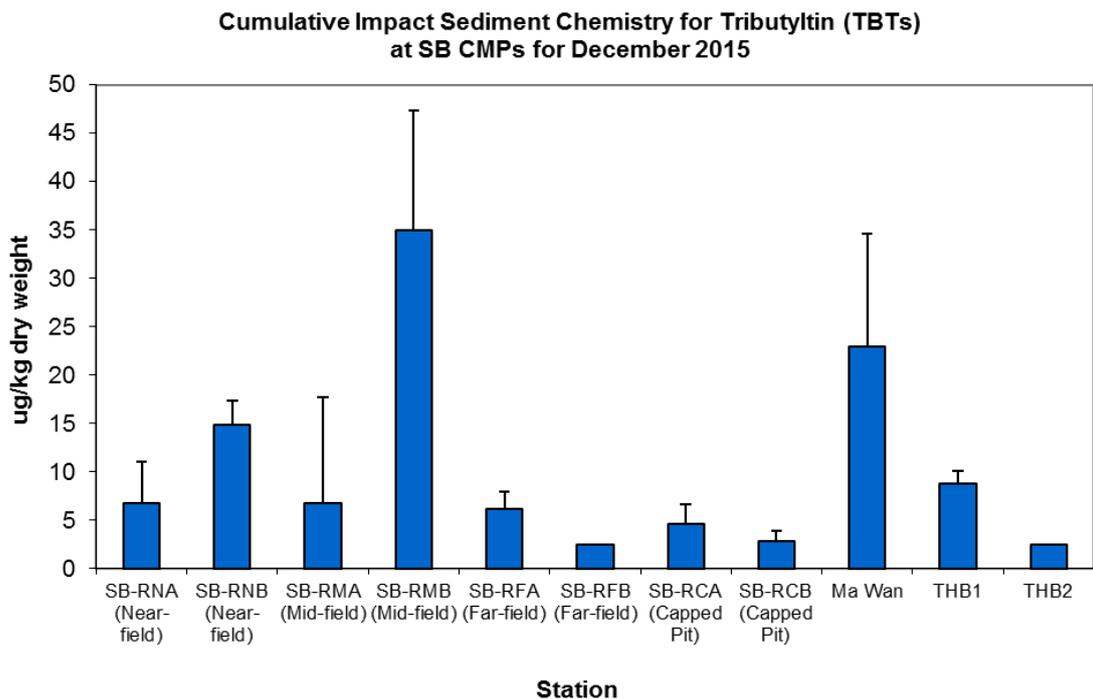


Figure 9: Concentration of Tributyltin ($\mu\text{g TBT/kg}$; mean +SD) in sediment samples collected from Cumulative Impact Sediment Chemistry Monitoring for SB CMPs in December 2015.

Routine Water Quality Monitoring for CMP 2 - January 2016

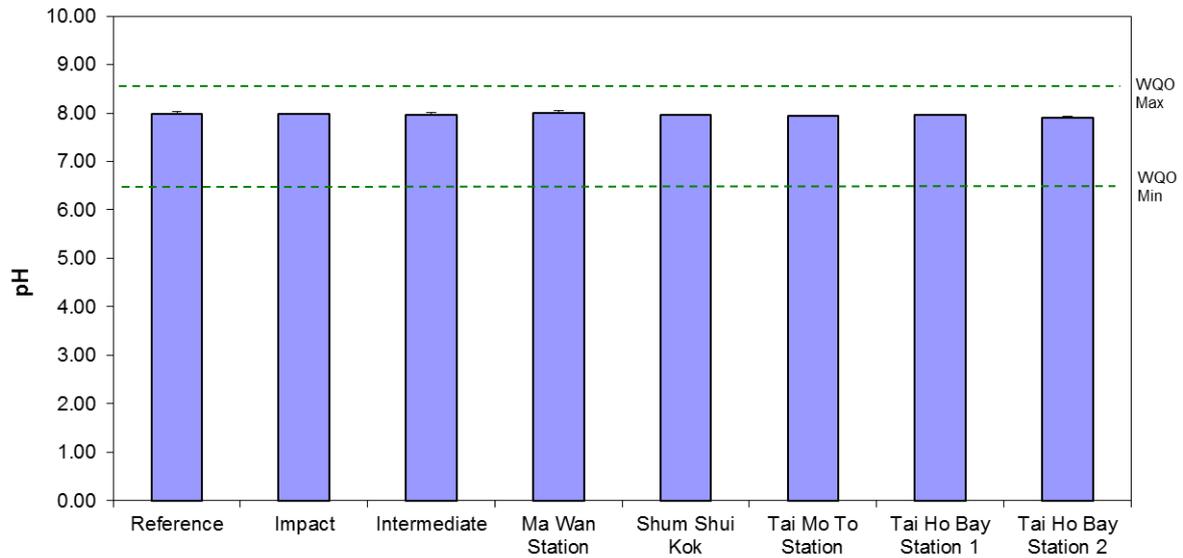


Figure 10: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

Routine Water Quality Monitoring CMP 2 - January 2016

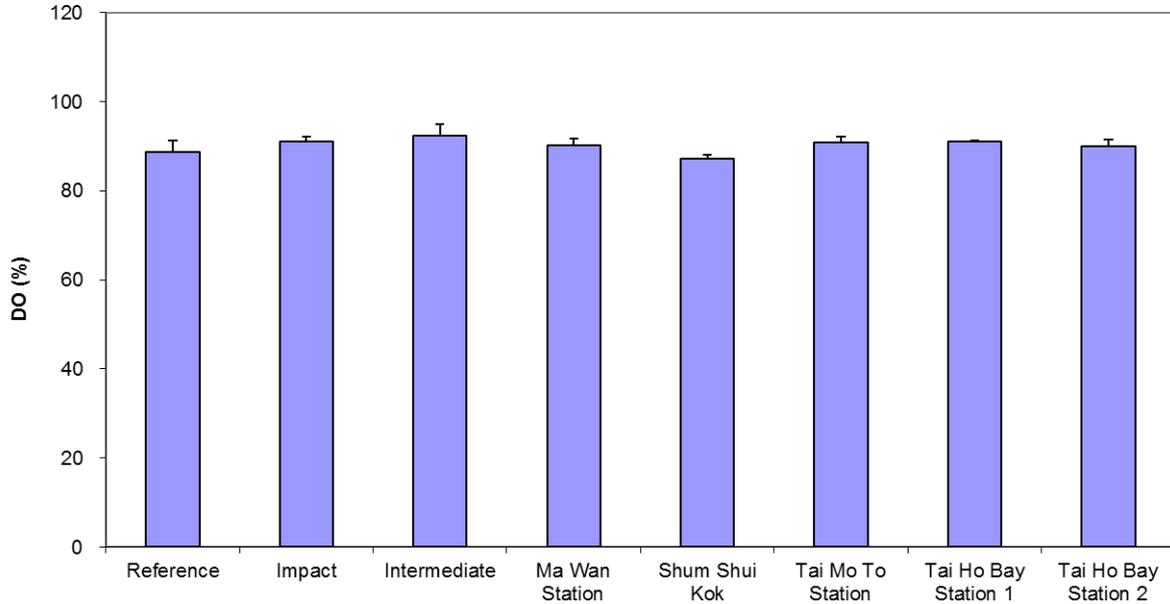


Figure 11: Level of Dissolved Oxygen (DO) (% saturation; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

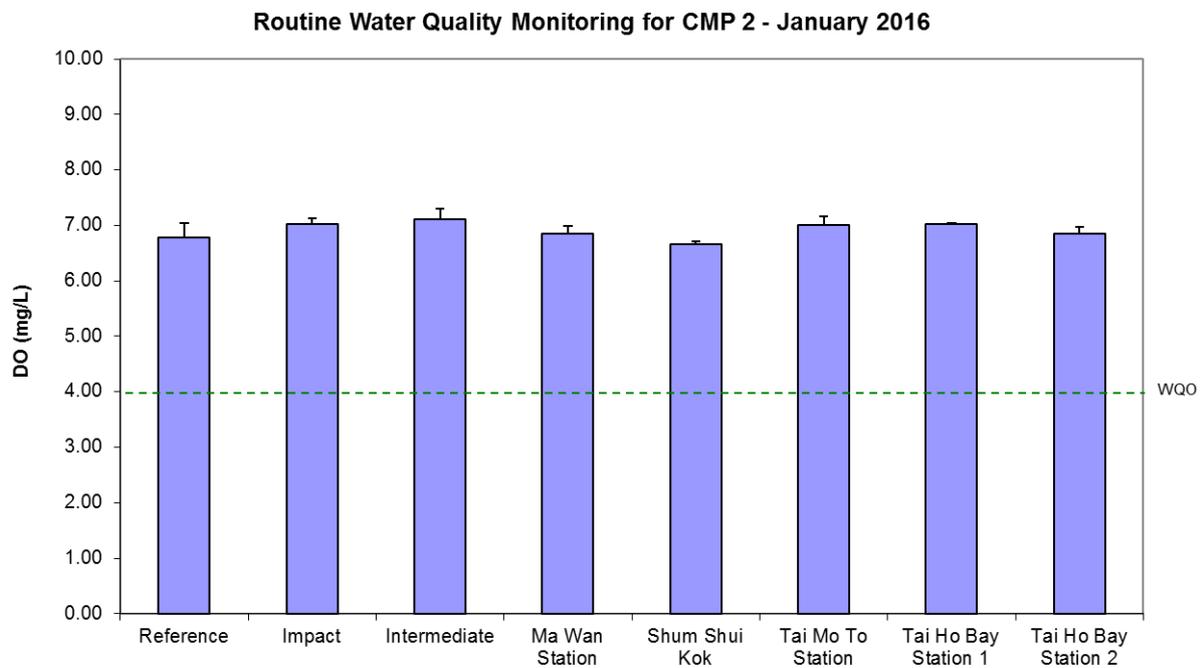


Figure 12: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

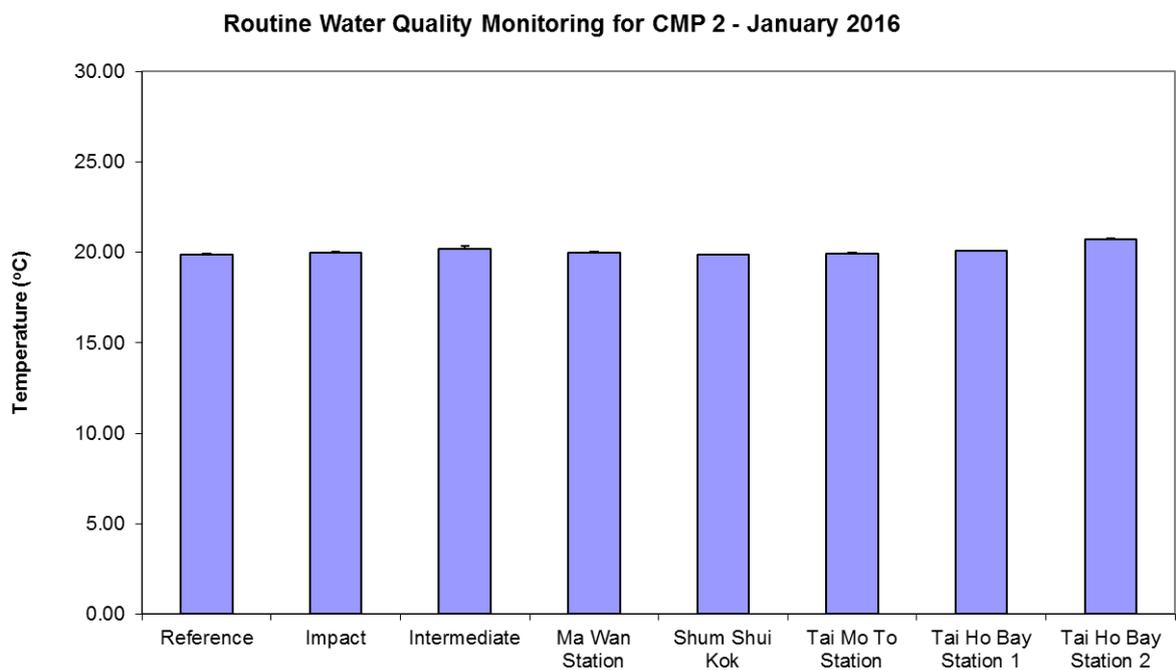


Figure 13: Level of Temperature (°C; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

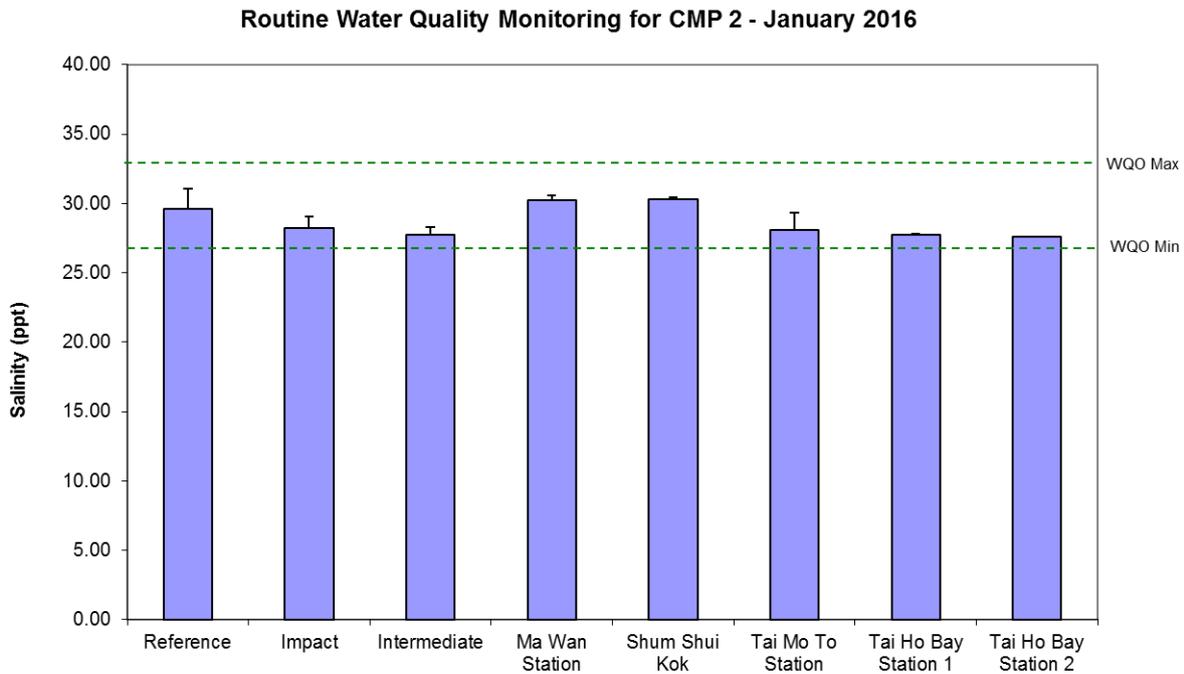


Figure 14: Level of Salinity (ppt; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

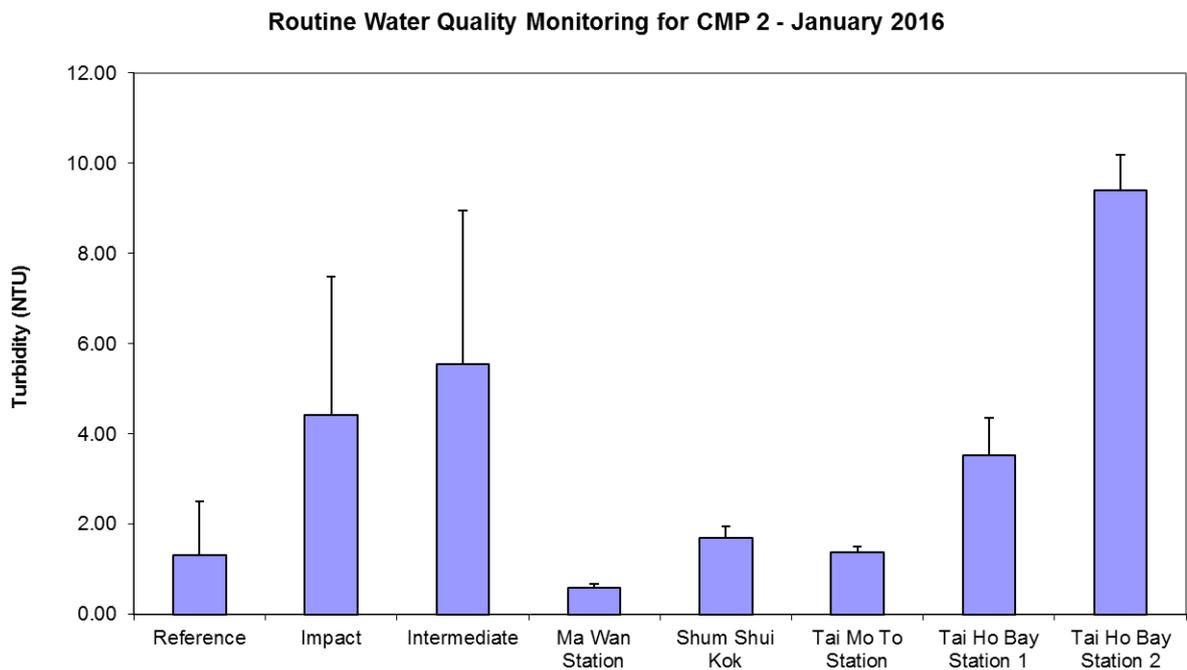


Figure 15: Levels of Turbidity (NTU; ,mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

**Routine Water Quality Monitoring Results for Metals
January 2016**

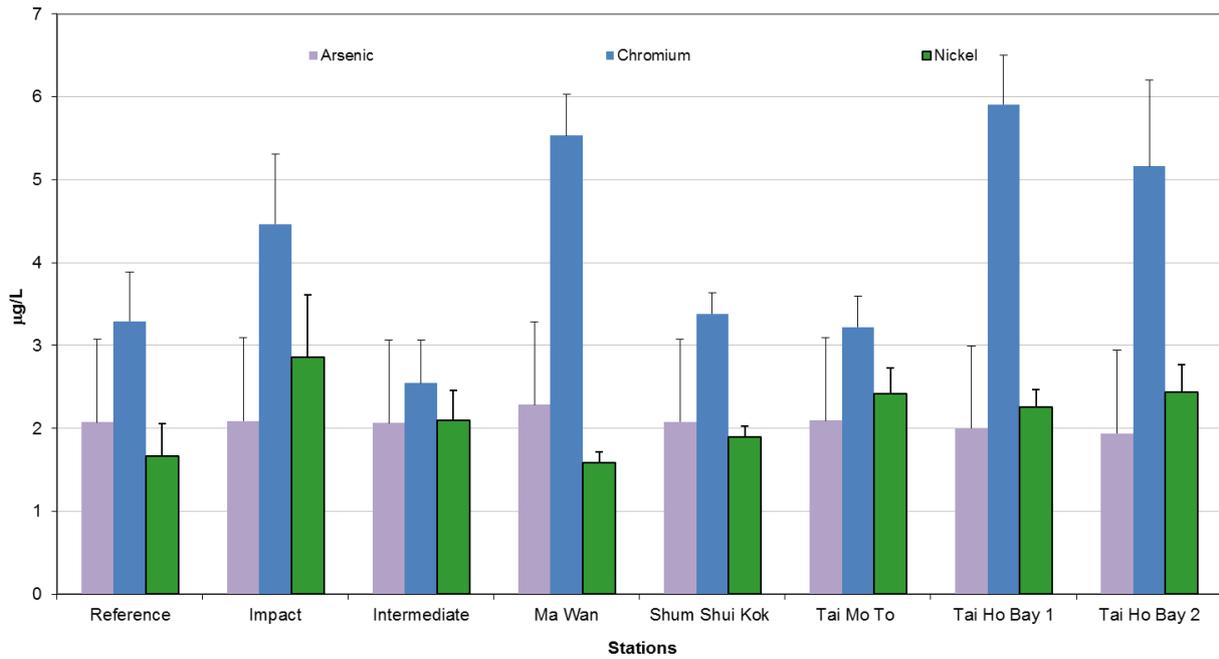


Figure 16: Concentration of Arsenic, Chromium and Nickel ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

**Routine Water Quality Monitoring Results for Metals
January 2016**

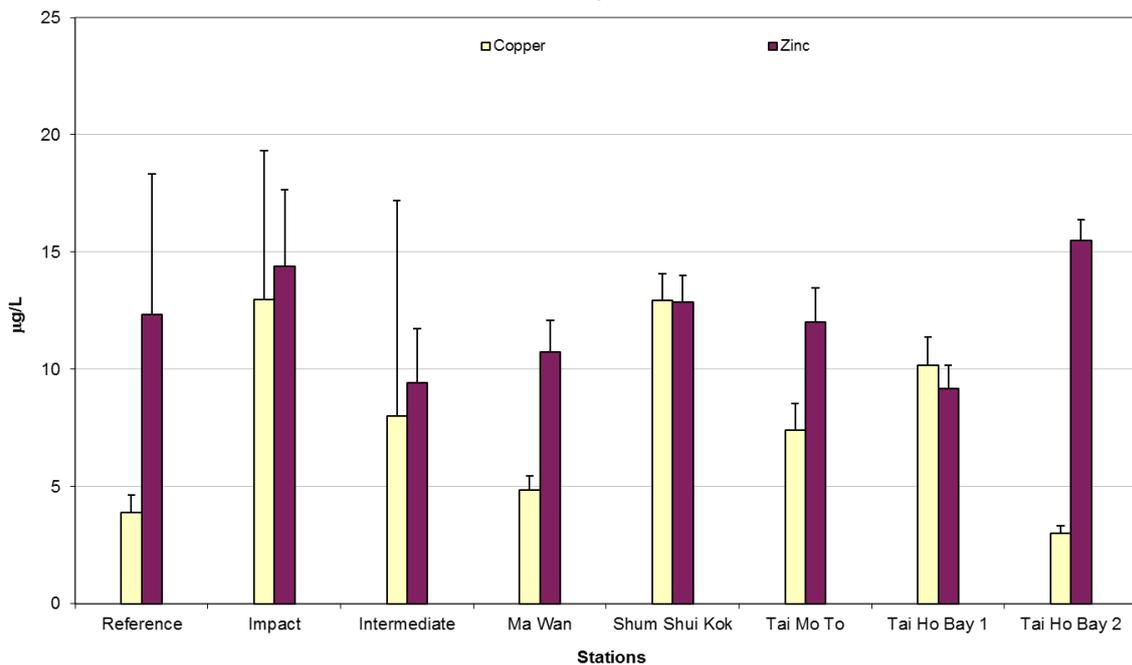


Figure 17: Concentration of Copper and Zinc ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

**Routine Water Quality Monitoring Results for Nutrients
January 2016**

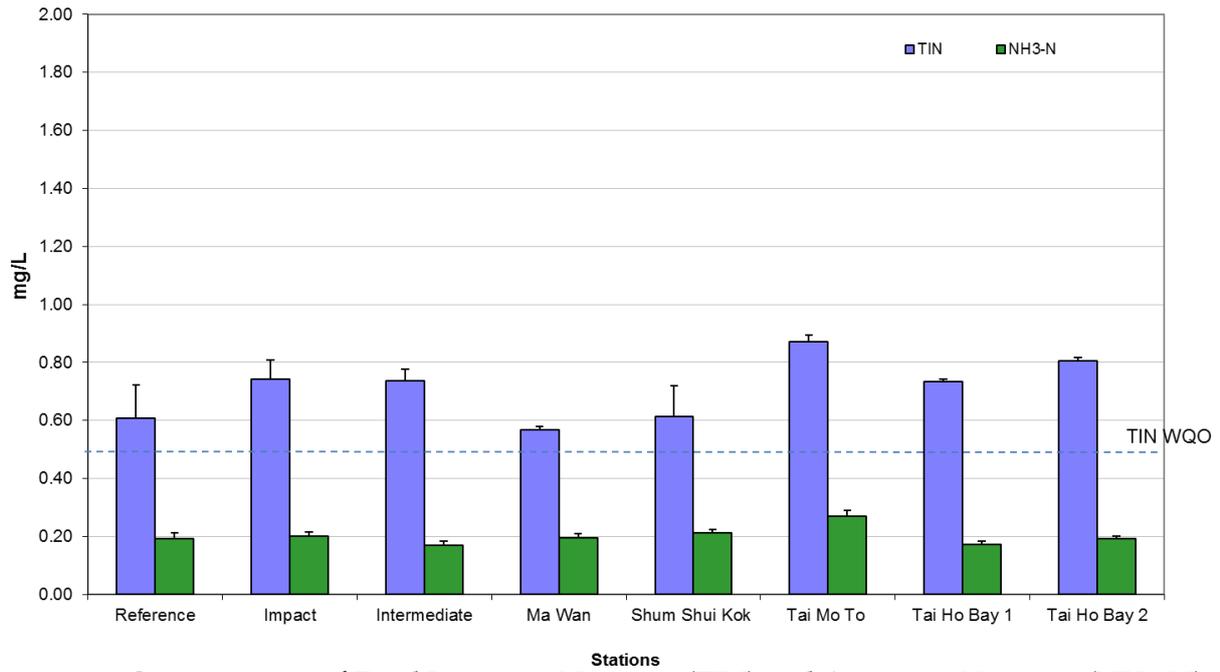


Figure 18: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen (NH3-N) ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

**Routine Water Quality Monitoring Results for Biochemical Oxygen Demand (BOD₅)
January 2016**

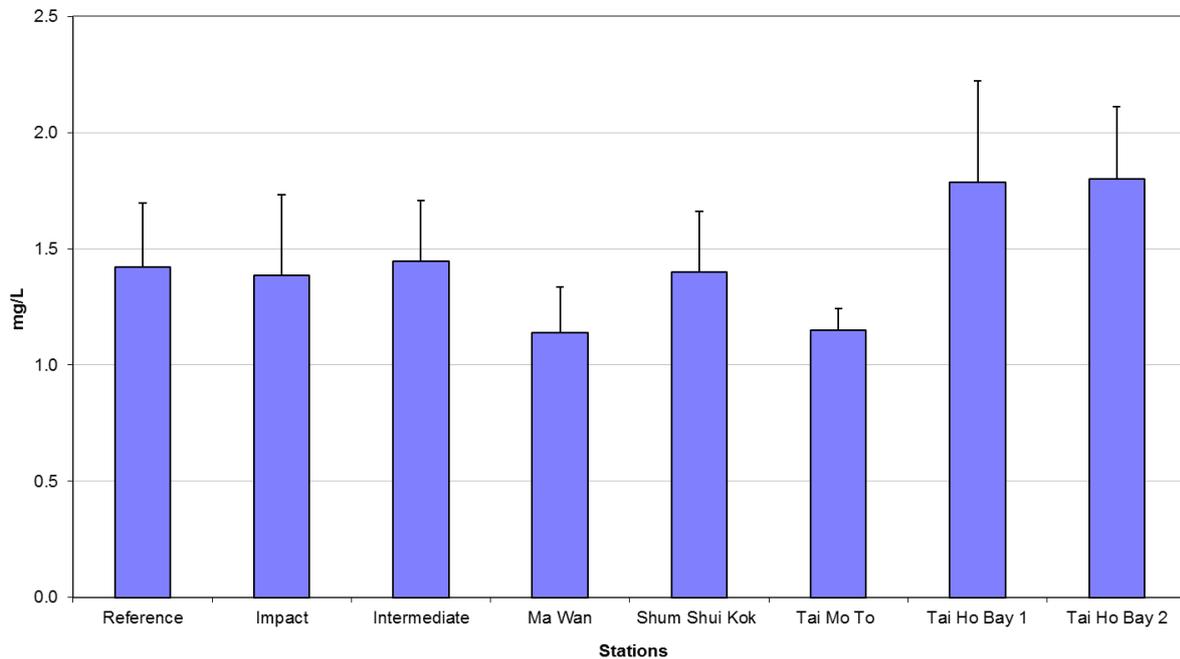


Figure 19: Level of Biochemical Oxygen Demand (BOD₅) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.

**Routine Water Quality Monitoring for Suspended Solids
January 2016**

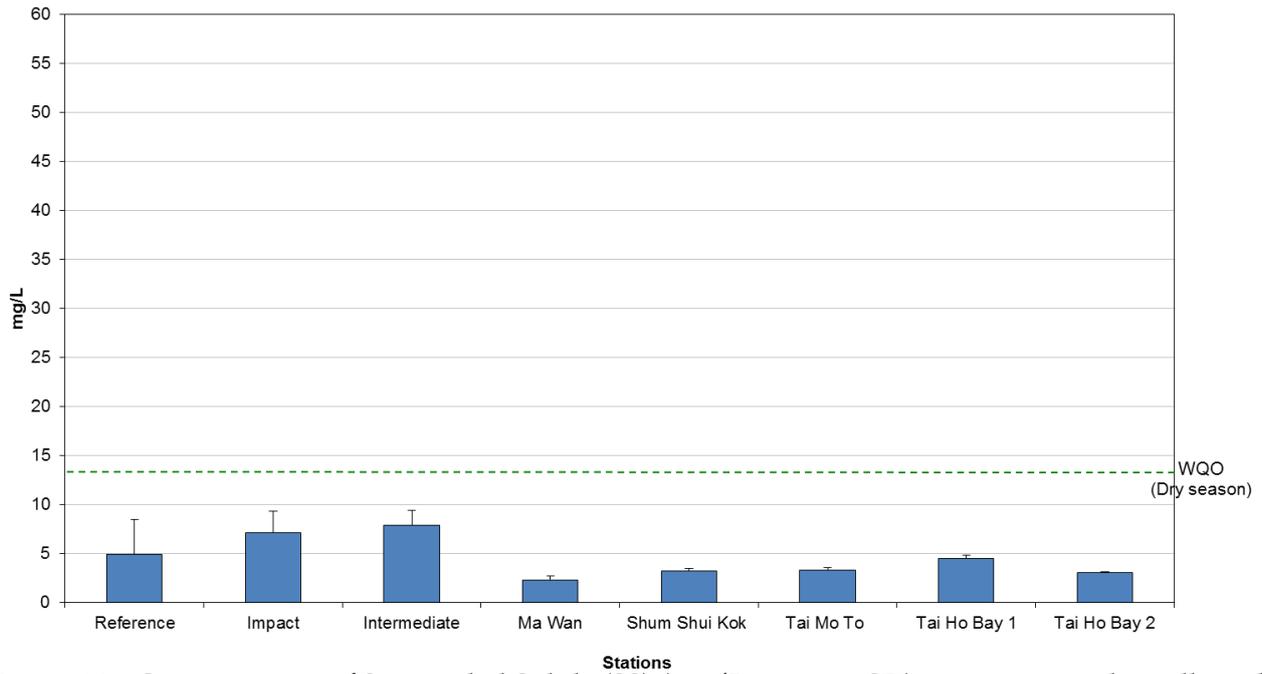


Figure 20: Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at CMP 2 in January 2016.