

**Pit Specific Sediment Chemistry for Metal and Metalloid Contaminants at ESC CMP Vd
May 2016**

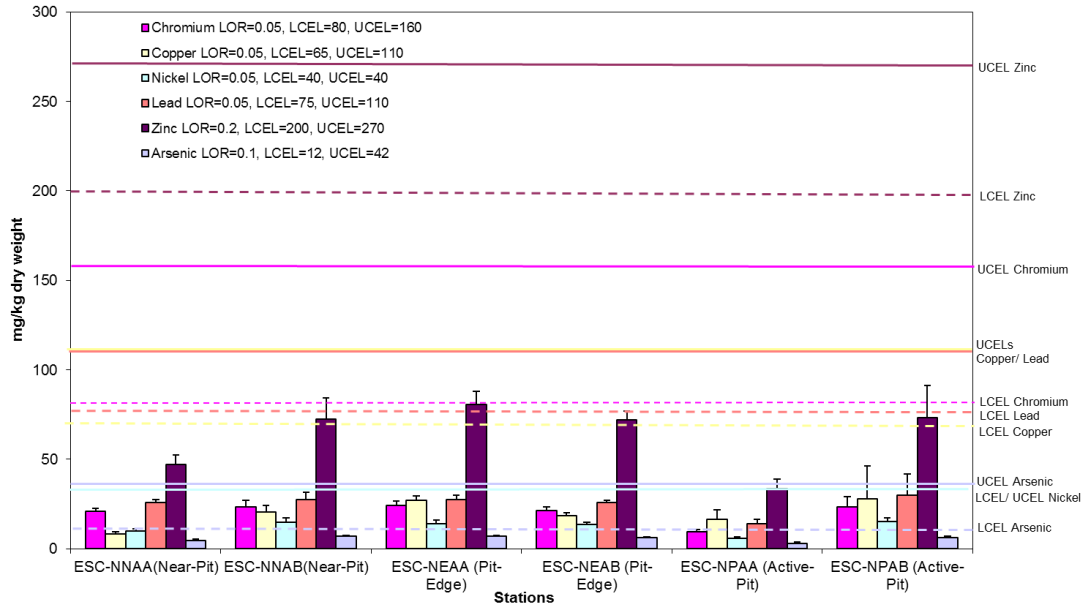


Figure 1: Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vd in May 2016.

**Pit Specific Sediment Chemistry for Metal Contaminants at ESC CMP Vd
May 2016**

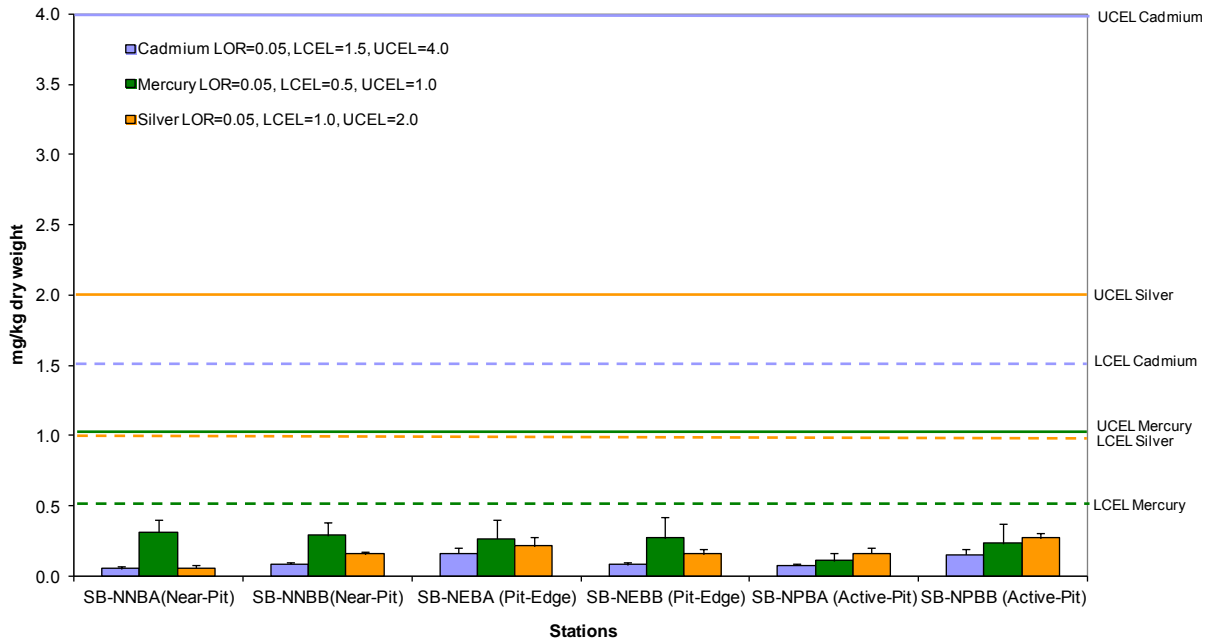


Figure 2: Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vd in May 2016.

Pit Specific Sediment Chemistry for Total Organic Carbon (TOC) at ESC CMP Vd
May 2016

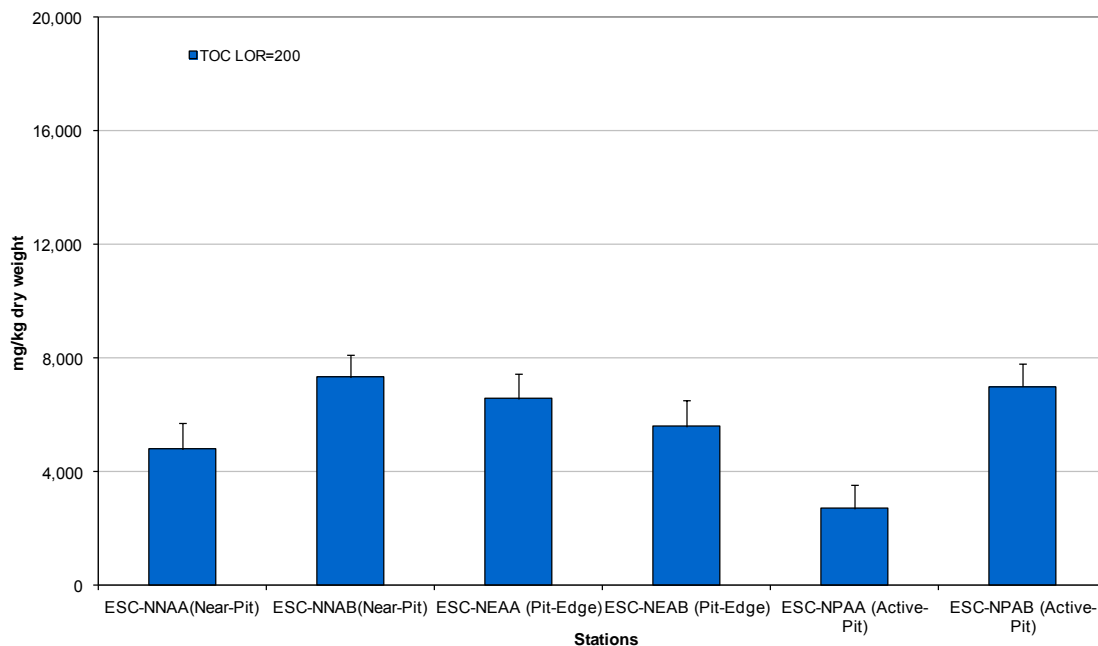


Figure 3: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vd in May 2016.

Pit Specific Sediment Chemistry for Tributyltin (TBT) at ESC CMP Vd
May 2016

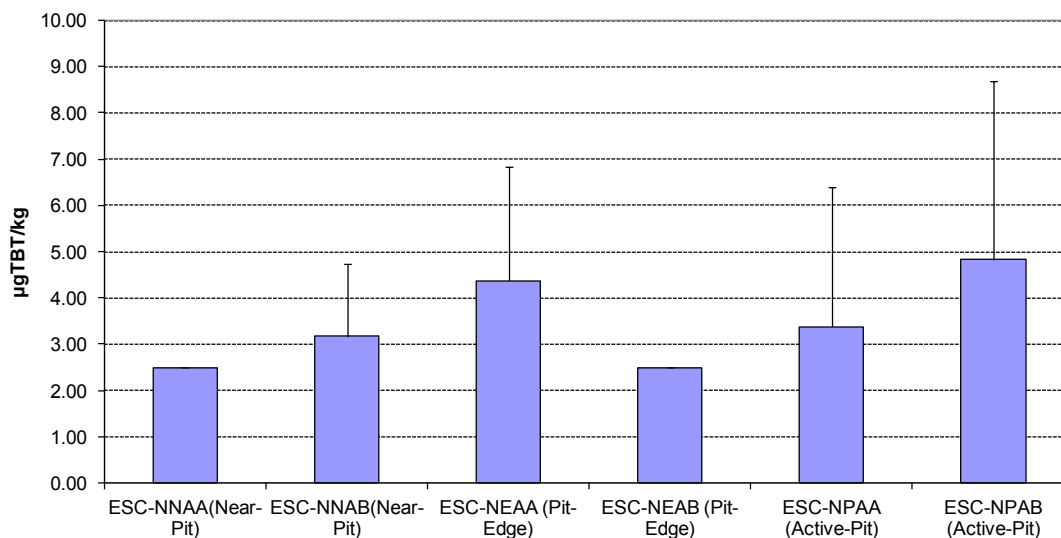


Figure 4: Concentration of Tributyltin (TBT) (µg TBT/kg; mean +SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vd in May 2016.

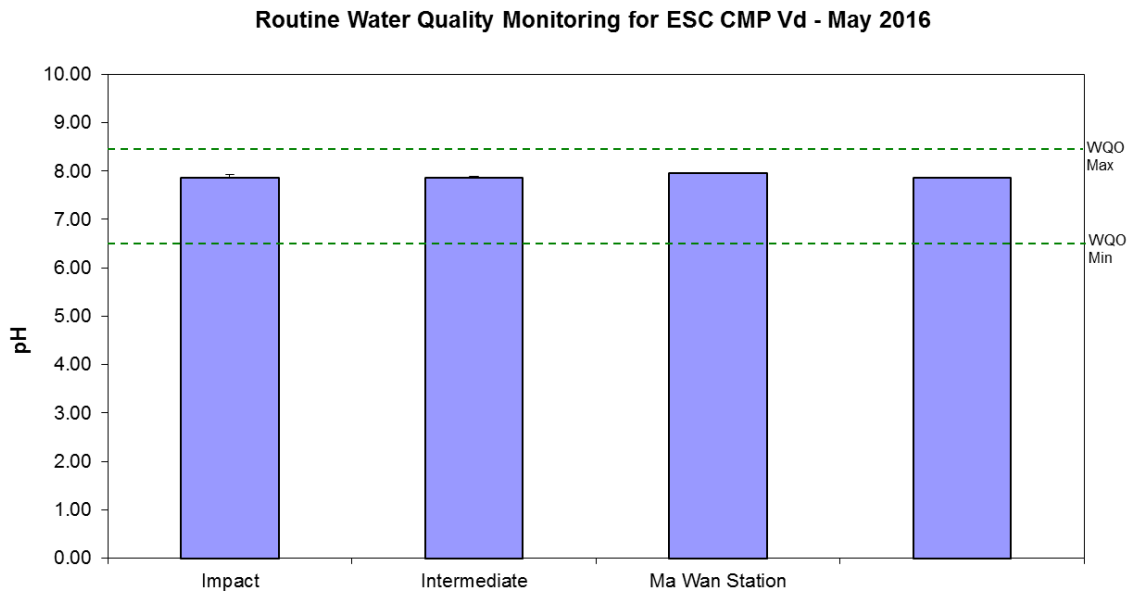


Figure 5: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

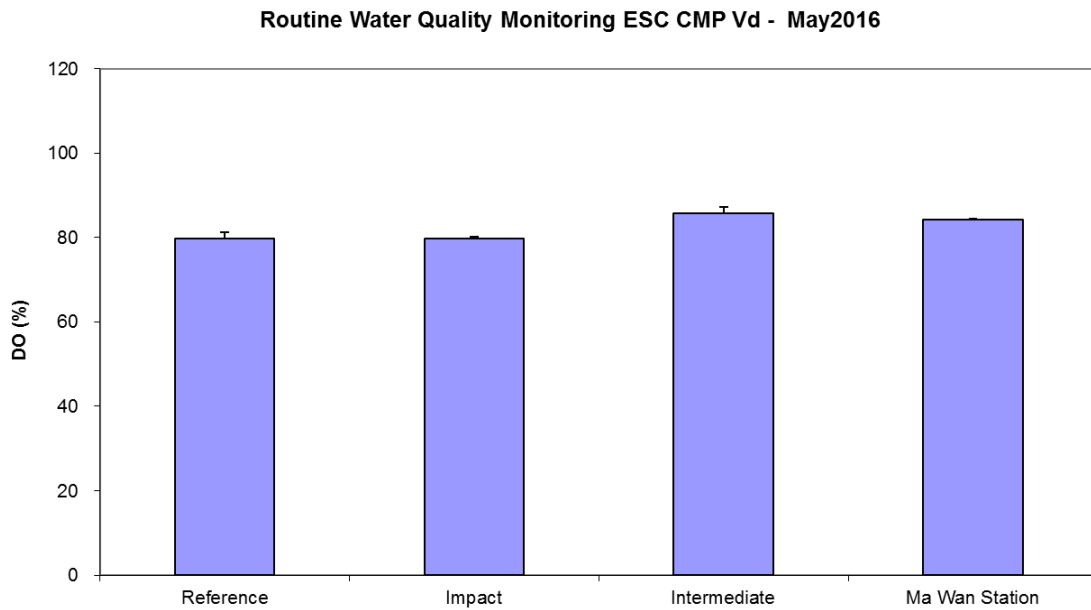


Figure 6: Level of Dissolved Oxygen (DO) (% saturation; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

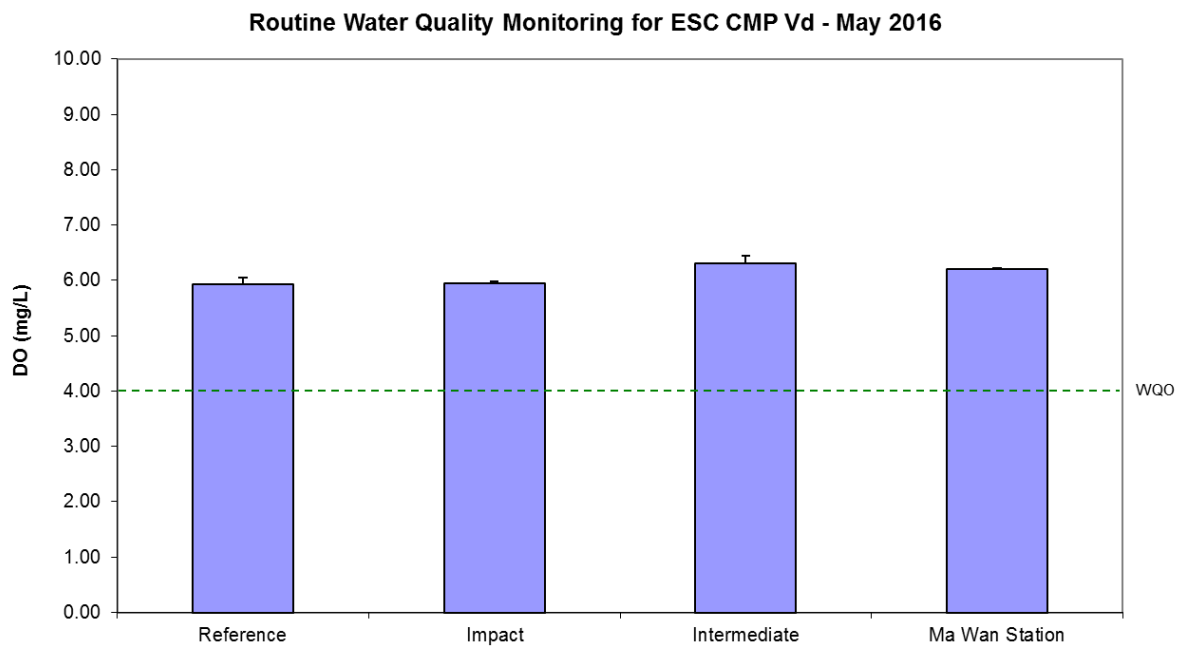


Figure 7: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

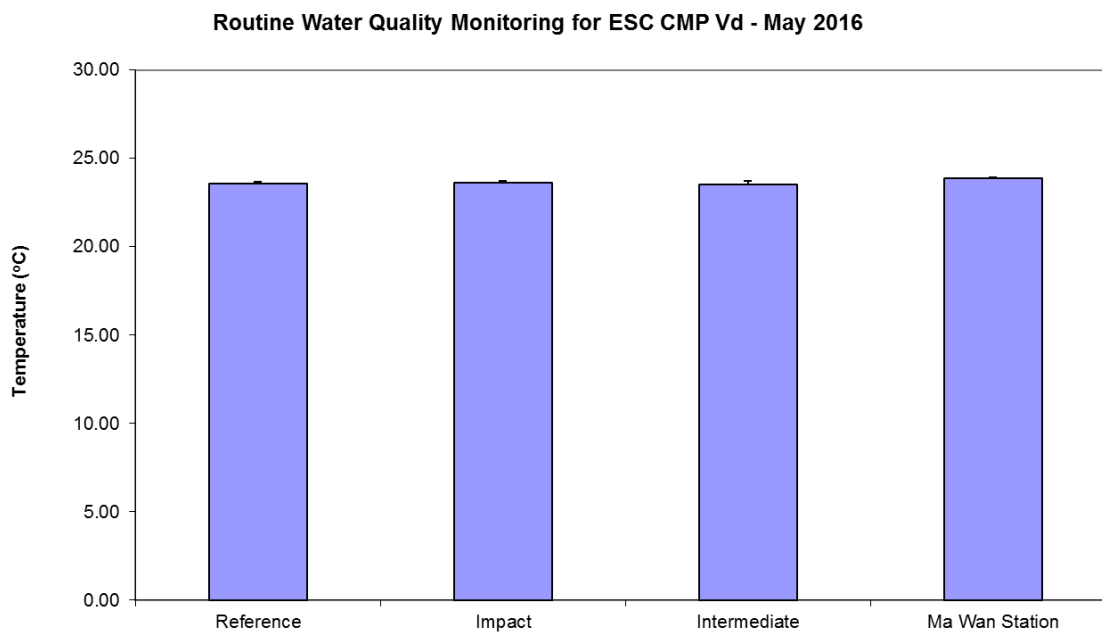


Figure 8: Level of Temperature (°C; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

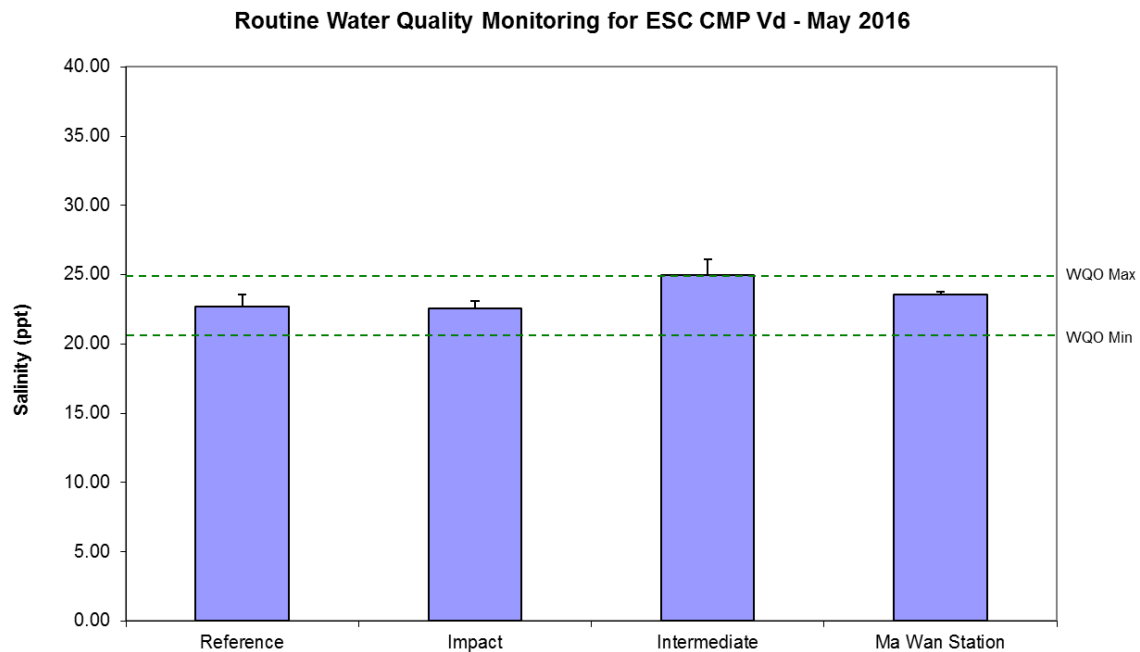


Figure 9: Level of Salinity (ppt; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

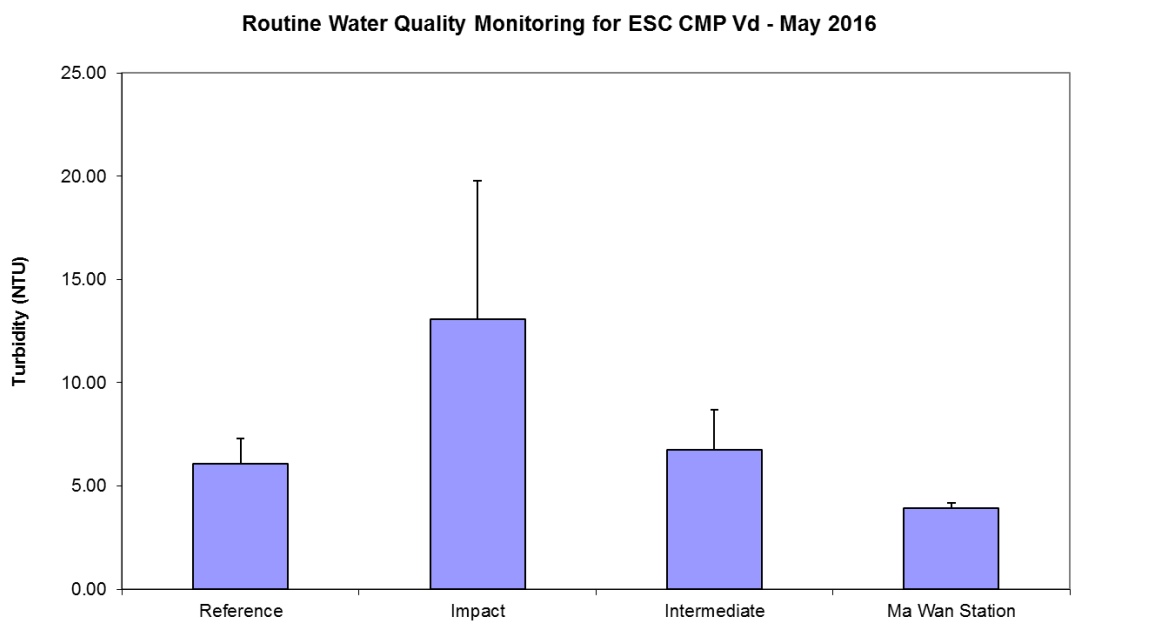


Figure 10: Levels of Turbidity (NTU; mean + SD) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

**Routine Water Quality Monitoring for Metals
May 2016**

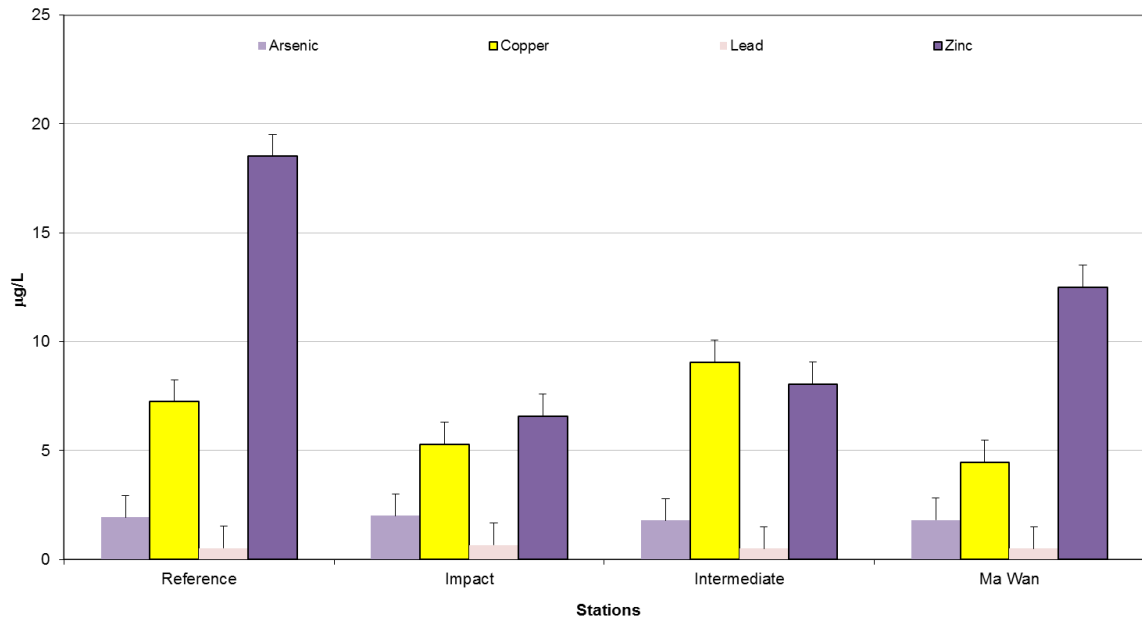


Figure 11: Concentration of Copper, Zinc, Arsenic and Lead ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

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

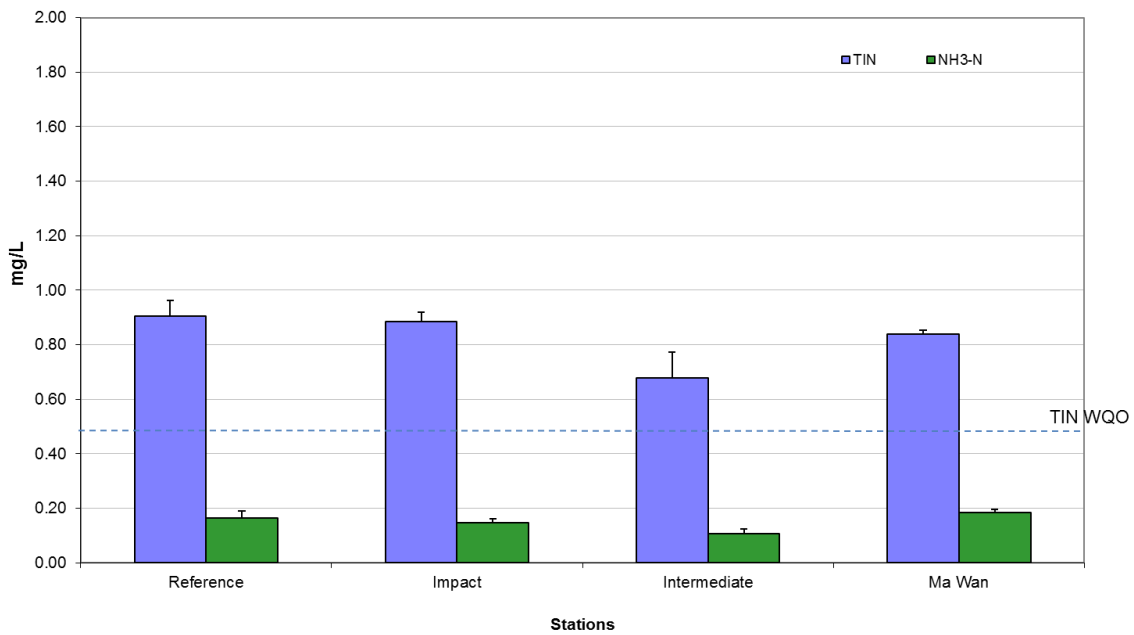


Figure 12: Concentration of Total Inorganic Nitrogen (TIN) and Ammonia Nitrogen ($\text{NH}_3\text{-N}$) ($\mu\text{g/L}$; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

Source: H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\45th (May 2016)

Date: 3/6/2016

**Environmental
Resources
Management**



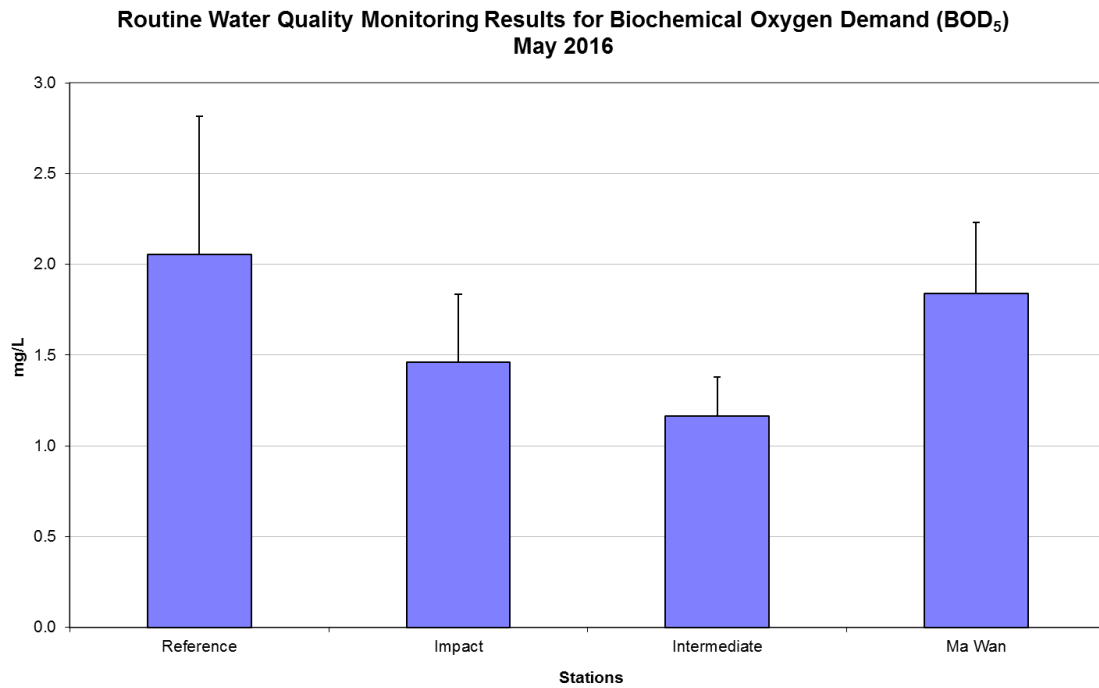


Figure 13: Level of Biochemical Oxygen Demand (BOD₅) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.

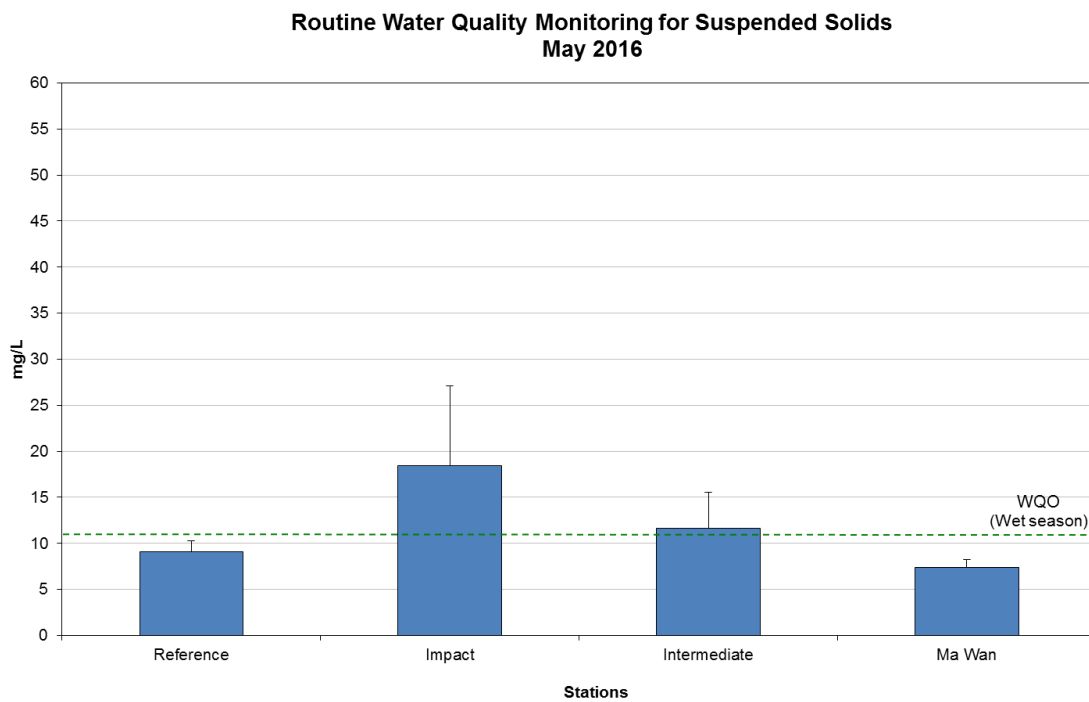


Figure 14: Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP Vd in May 2016.