Mott MacDonald | Agreement No. CE59/2020(EP) Environmental Monitoring and Audit for Disposal Facility to the East of Sha Chau
(2021-2026) – Investigation
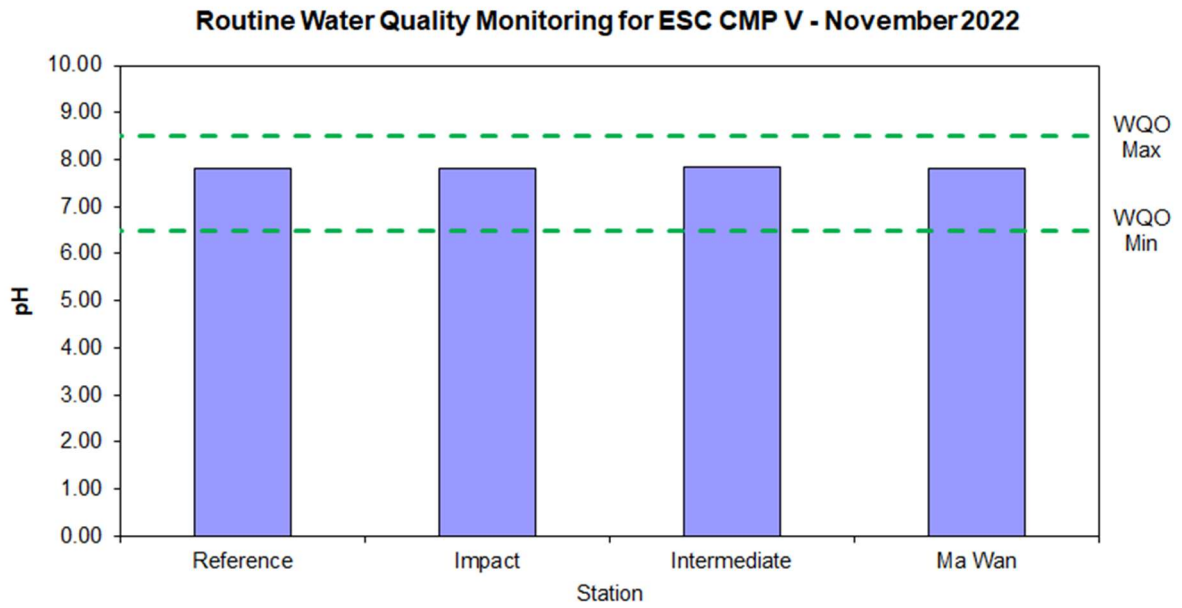Monthly EM&A Report for Contaminated Mud Pits to the East of Sha Chau – November 2022

Appendix C. Graphical Presentations

Mott MacDonald | Agreement No. CE 59/2020 (EP) Environmental Monitoring and Audit for Disposal Facility to the East of Sha Chau
(2021-2026) – Investigation
Monthly EM&A Report for Contaminated Mud Pits to the East of Sha Chau – November 2022

Figure 1: Level of pH recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
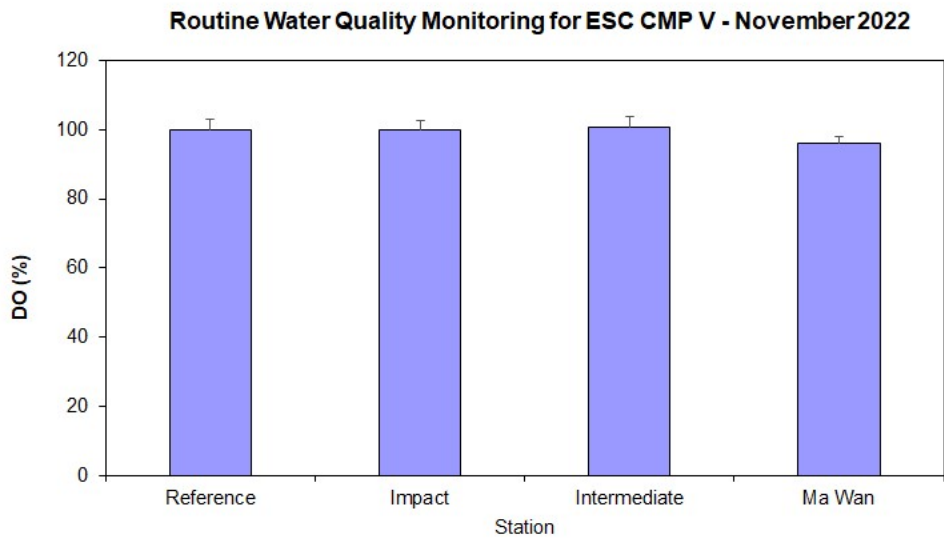

Figure 2: Level of Dissolved Oxygen (DO) (% saturation; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022

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1   The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.
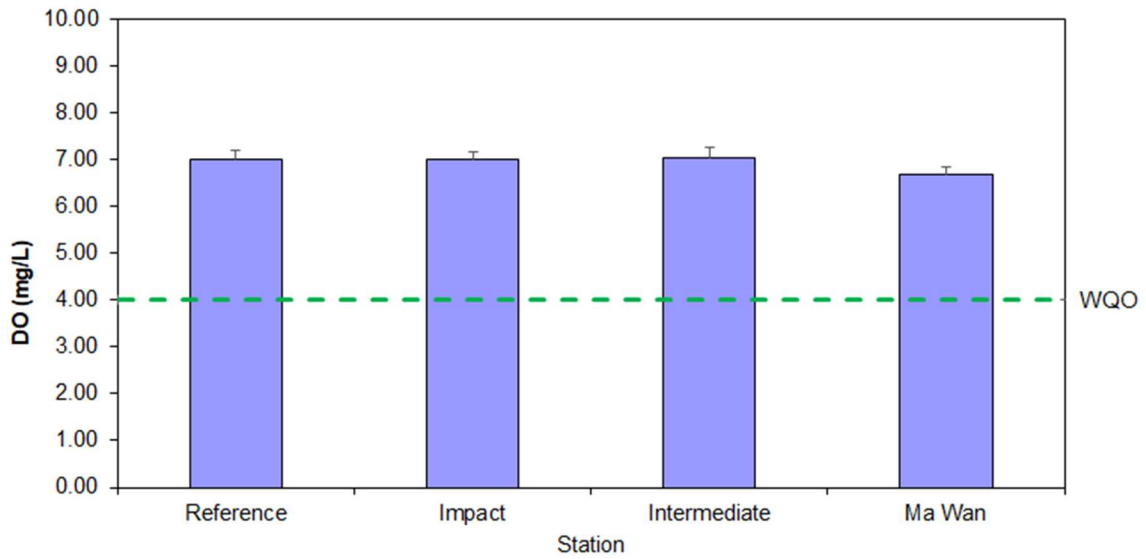
Figure 3: Concentration of Dissolved Oxygen (DO) (mg/L; mean + SD)[1] recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
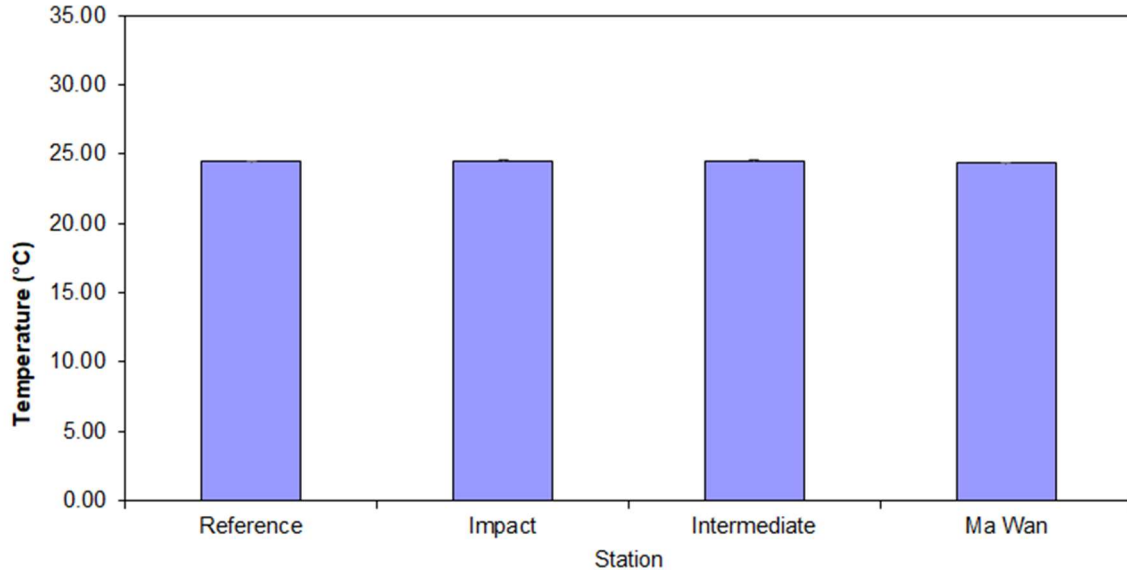

Figure 4: Level of Temperature (°C; mean + SD)[1] recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022

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

Mott MacDonald | Agreement No. CE 59/2020 (EP) Environmental Monitoring and Audit for Disposal Facility to the East of Sha Chau
(2021-2026) – Investigation
Monthly EM&A Report for Contaminated Mud Pits to the East of Sha Chau – November 2022

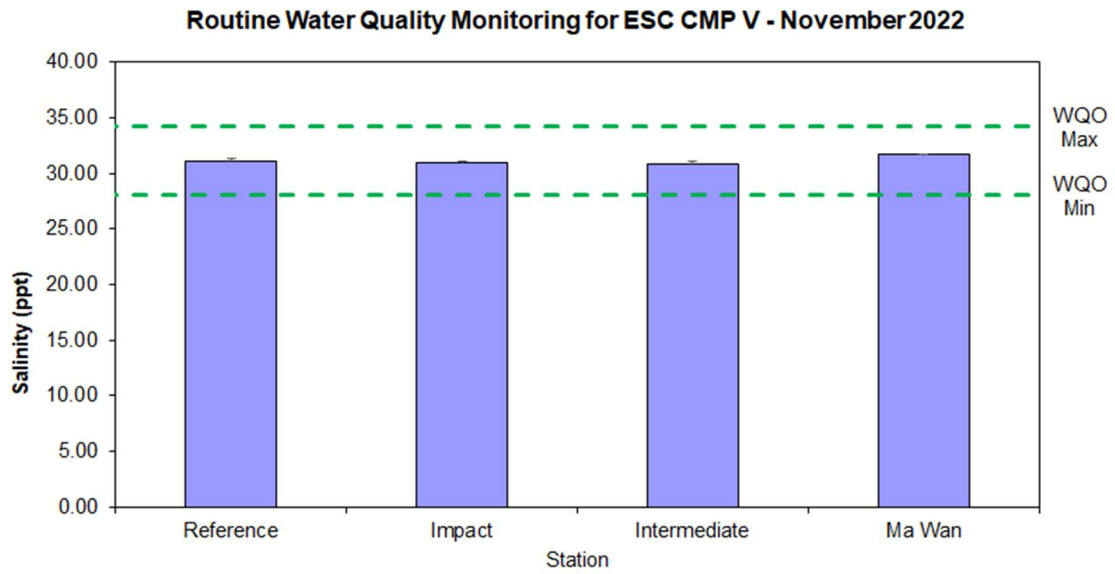**Routine Water Quality Monitoring for ESC CMP V - November 2022**

Figure 5: Level of Salinity (ppt; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
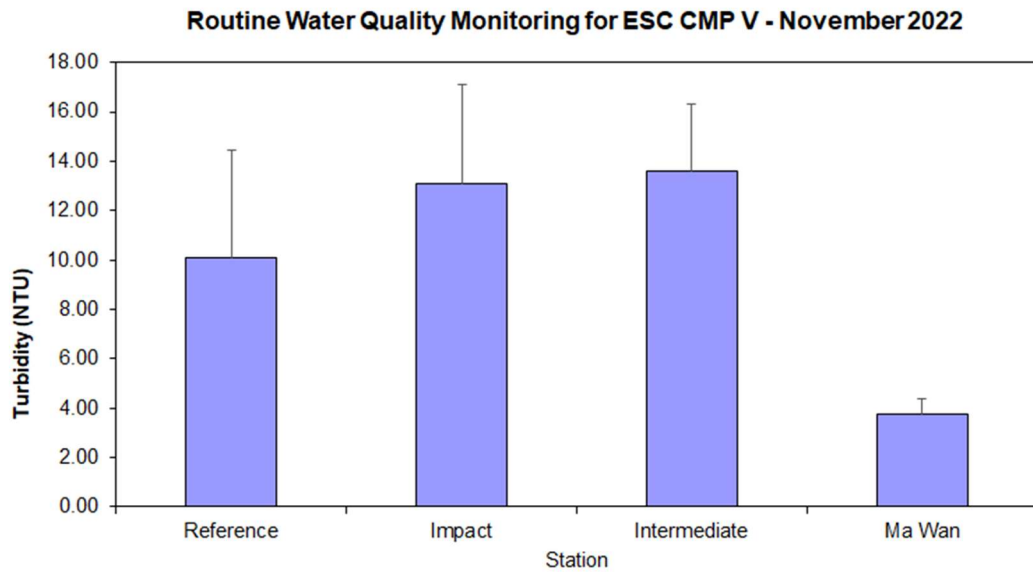
Routine Water Quality Monitoring for ESC CMP V - November 2022

Figure 6: Level of Turbidity (NTU; mean + SD[1]) recorded during Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022

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[1] The mean and standard deviation (SD) for in-situ data are the mean and SD for water columns within the area.
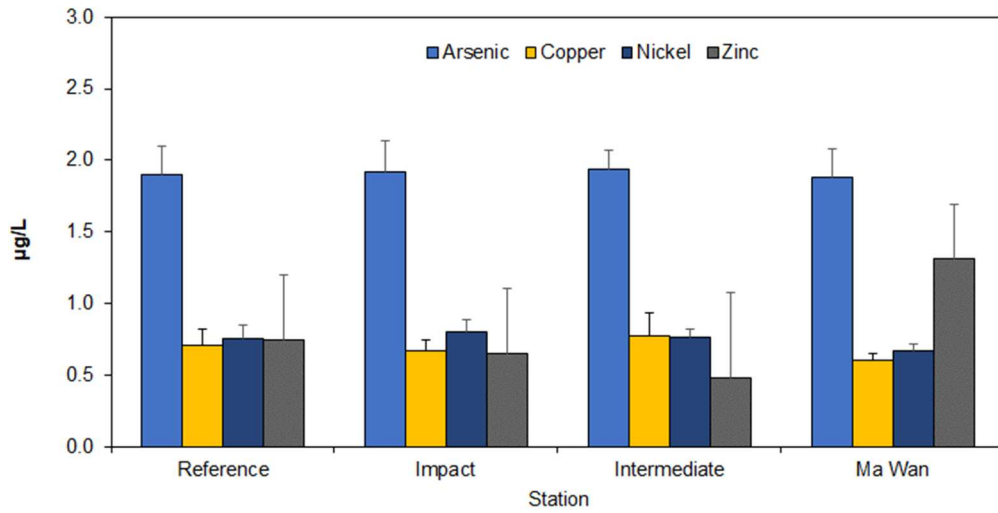
Figure 7: Concentration of Arsenic, Copper, Nickel, and Zinc (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
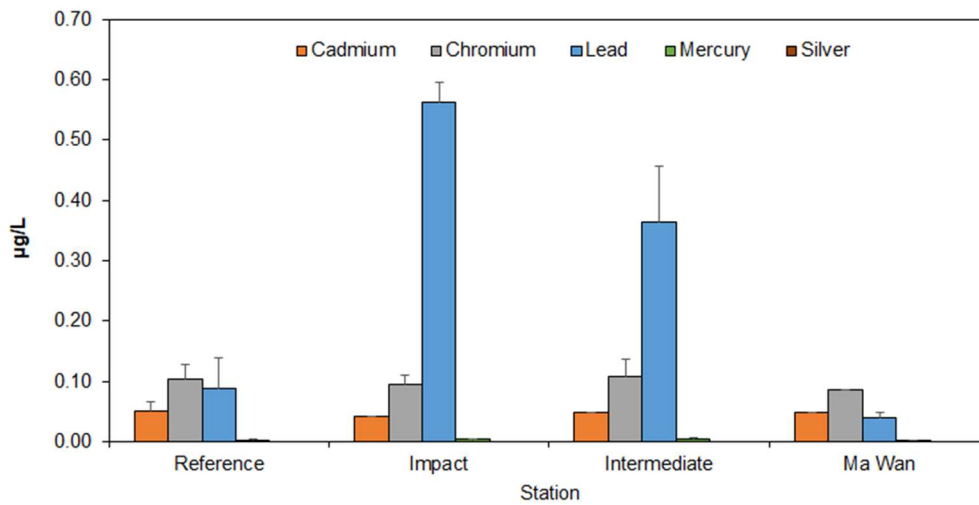

Figure 8: Concentration of Cadmium, Chromium, Lead, Mercury, and Nickel, (µg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
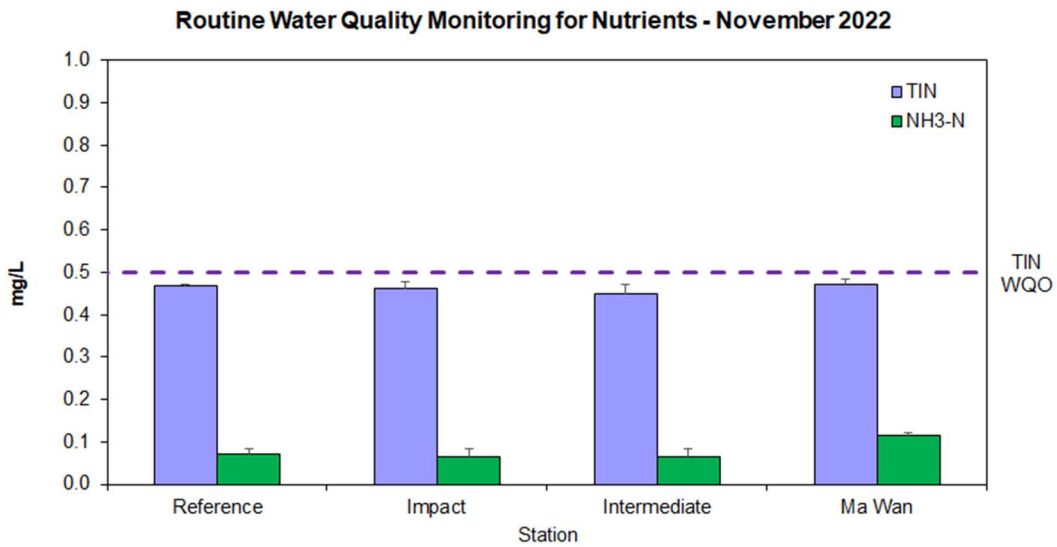
Mott MacDonald | Agreement No. CE 59/2020 (EP) Environmental Monitoring and Audit for Disposal Facility to the East of Sha Chau
(2021-2026) – Investigation
Monthly EM&A Report for Contaminated Mud Pits to the East of Sha Chau – November 2022

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 November 2022
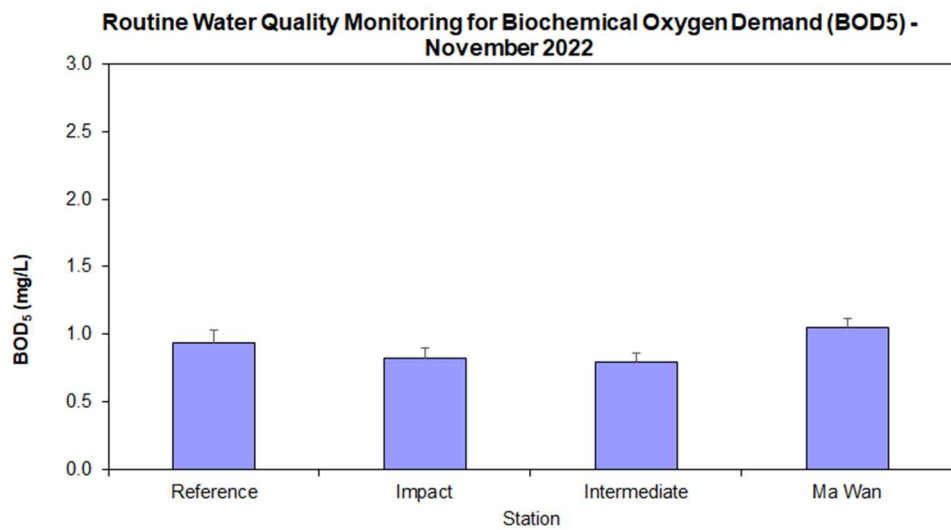

Figure 10: Level of Biochemical Oxygen Demand (BOD5) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
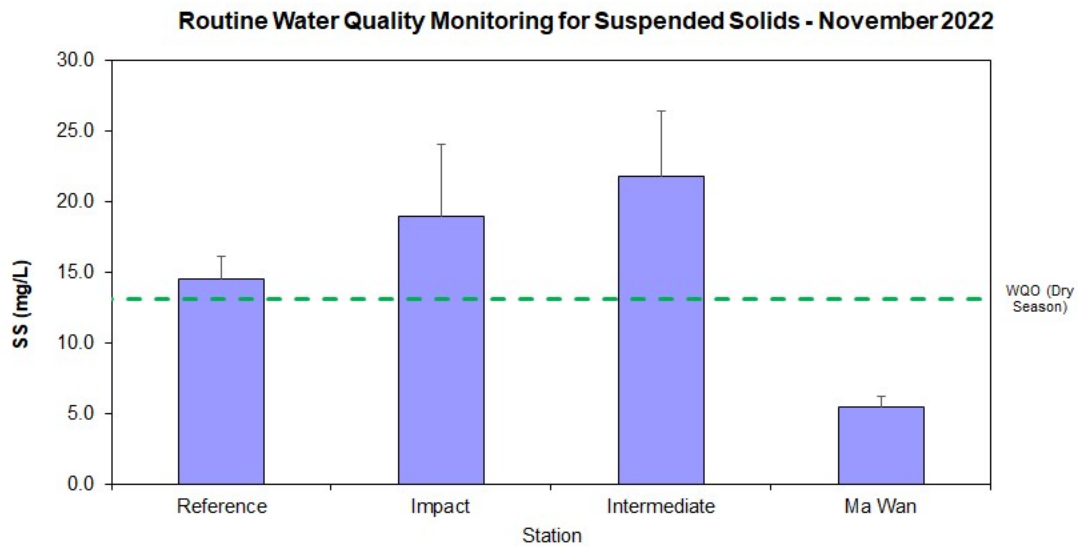
Figure 11 Concentration of Suspended Solids (SS) (mg/L; mean + SD) in water samples collected from Routine Water Quality Monitoring for disposal operations at ESC CMP V in November 2022
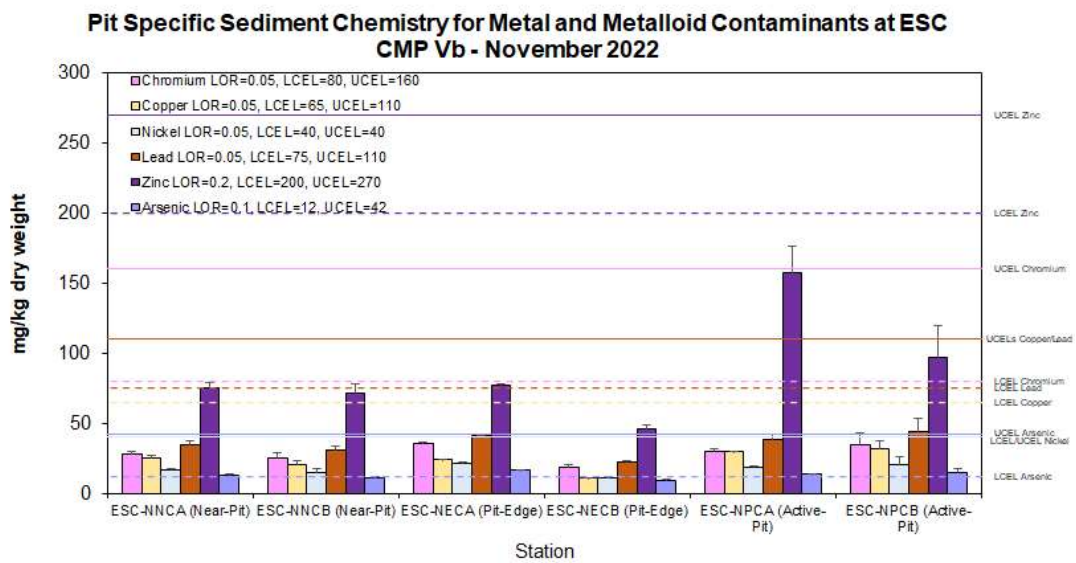

Figure 12: Concentration of Metals and Metalloid (Cr, Cu, Ni, Pb, Zn, As; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2022

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(2021-2026) – Investigation
Monthly EM&A Report for Contaminated Mud Pits to the East of Sha Chau – November 2022
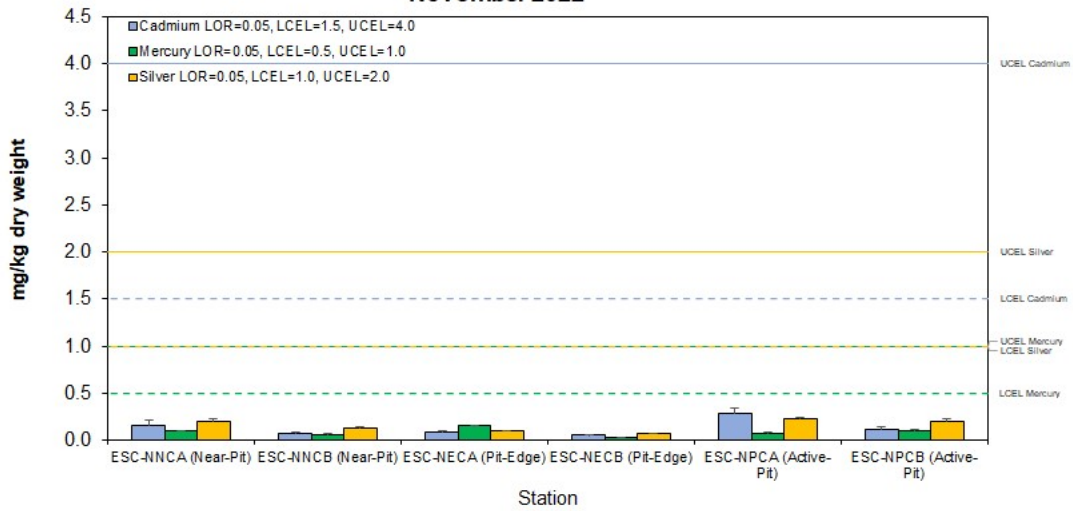
Figure 13: Concentration of Metals (Cd, Hg, Ag; mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2022
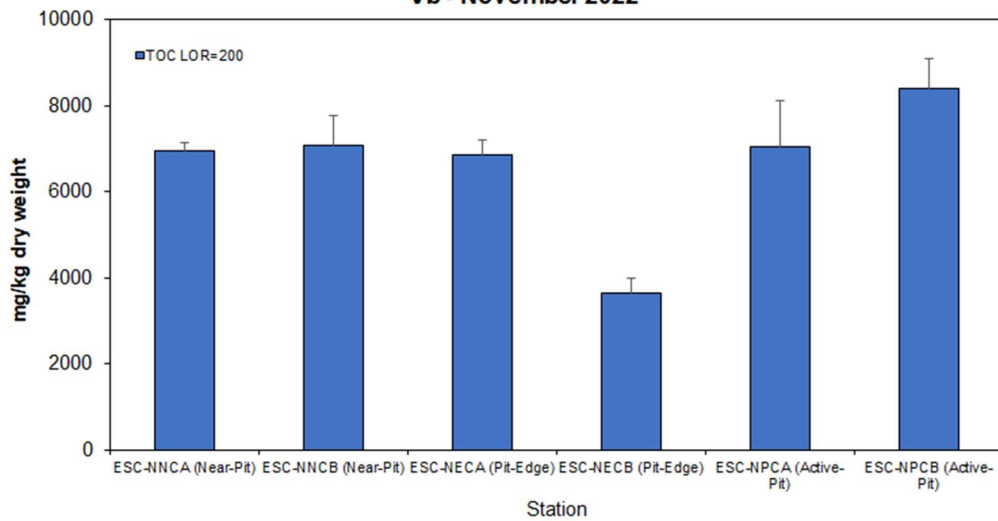

Figure 14: Concentration of Total Organic Carbon (TOC) (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2022
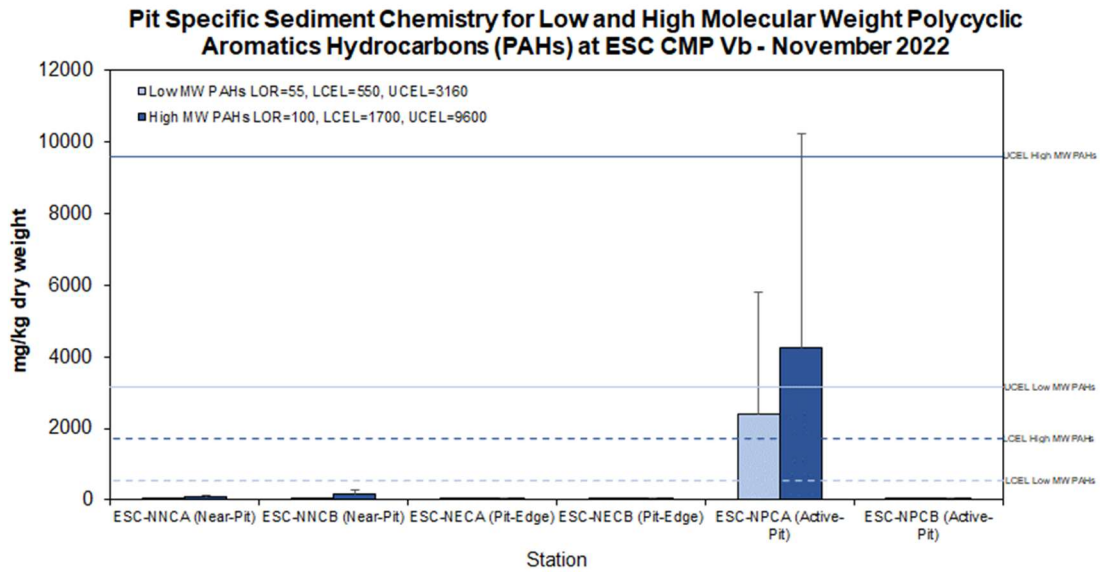
Figure 15: Concentration of Low and High Molecular Weight Polycyclic Aromatic Hydrocarbons (mg/kg dry weight; mean + SD) in sediment samples collected from Pit Specific Sediment Chemistry Monitoring for ESC CMP Vb in November 2022
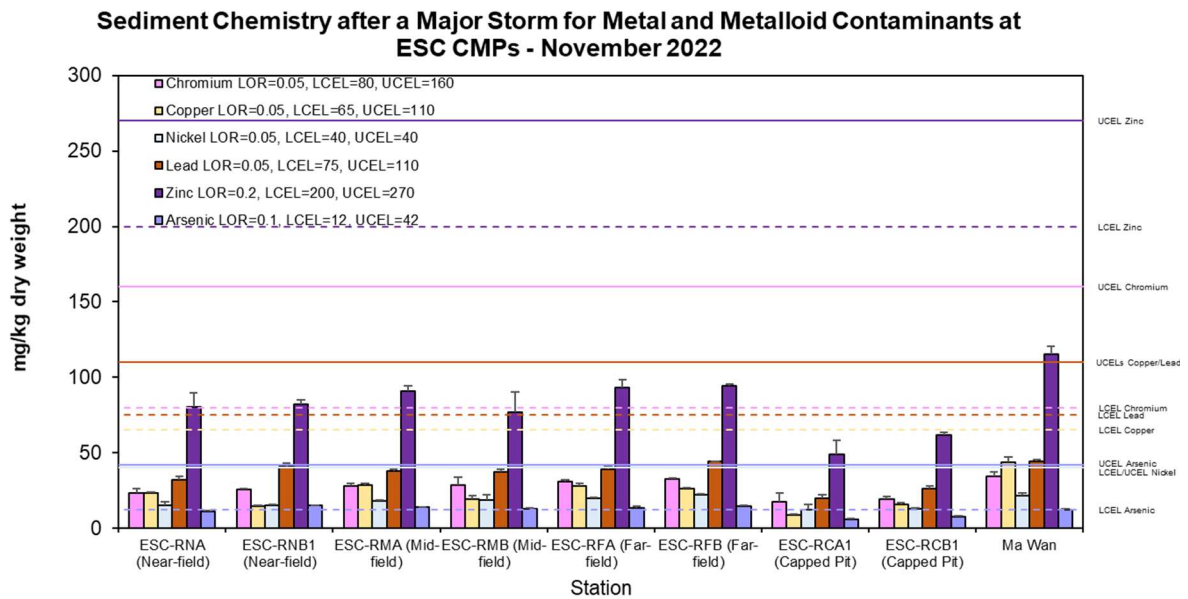

Figure 16 Concentration of Metals (Cr, Cu, Ni, Pb, Zn, As; mean + SD) in sediment samples collected from Sediment Chemistry after a Major Storm for ESC CMPs in November 2022
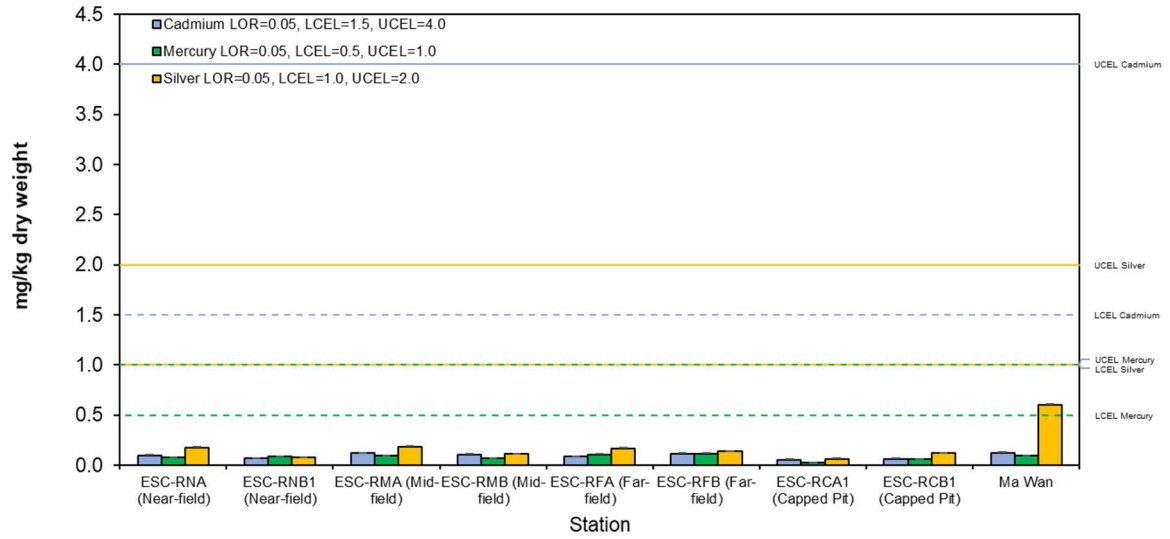
Figure 17:   Concentration of Metals (Cd, Hg, Ag; mean + SD) in sediment samples collected from Sediment Chemistry after a Major Storm for ESC CMPs in November 2022