Table 3.2.2.2.1 Summary of Baseline (Pre Operational) Marine Sediment Quality – Sub Programs

Sub Program	Objective	Period	Frequency	Location(s)	Methodology	Parameters	Interpretation & reporting	Other details
Sediment Quality (Part A)	To provide additional information to that obtained within the Ecological Monitoring Sub Program on sediment chemistry of the outfall area.	As approved by the Director.	Annual	Sample sites defined as ; D, SE500, SW500, S500, NE500, and NW500, SW250, SW4000, EOP and WOP as per Figure 3.2.2.2, or others as required by the Director.	Triplicate samples at each Location. Samples must only include the top 50 mm of sediment. Field Meters, where required, are to be maintained and operated in accordance with manufacturer's instructions.	Redox Potential -field measurement (mV), Total Organic Carbon (% or mg/kg), Particle Size Distribution - Wentworth classification (%)	Annual Return. Full data set with statistical summaries with comparison of observed values to historic data when collated.	Meter calibration records to be maintained and made available to The Director of Environmental Management on request.
Sediment Quality (Part B)	As above	As above	As above	As above	As above Samples are to be stored securely and preserved at -18°C. Analysis to be undertaken as required by The Director.	Parameters identified as potential pollutants from the activity including: Metalloids: Al, Sb , As, Ba Cd, Cr-Total, CrIII, CrVI, Cu, Pb Hg, Ni, Zn, Se, Sn, V. Organics: Dioxins, furans and dioxin like PCB's ,Phenols including chlorophenols, Resin acids, Sterols, AOX/EOX Acid volatile sulfides or others as otherwise required by The Director	As required by The Director of Environmental Management	

Table 3.2.2.2.2 Summary of Operational Marine Sediment Quality – Sub Programs

Sub Program	Objective	Period	Frequency	Location(s)	Methodology	Parameters	Interpretation & reporting	Other details
Sediment Quality (Part A)	To provide additional information to that obtained within the Ecological Monitoring Sub Program on sediment chemistry of the outfall area.	Ongoing, with first review after 2.5 Years. Commencing less than one month after process effluent release commences..	Quarterly	Sample sites defined as ; S250, SE250, NE250, SW250, NW250, SE500, SW500, S500, NE500, NW500, SW1000, SW4000, EOP and WOP as per Figure 3.2.2.2 And others as required by the Director.	Triplicate samples at each Location. Samples must only include the top 50 mm of sediment. Field Meters, where required, are to be maintained and operated in accordance with manufacturer's instructions.	Redox Potential -field measurement (mV), Total Organic Carbon (% or mg/kg), Particle Size Distribution - Wentworth classification (%)	Annual Return. Full data set with statistical summaries with comparison of observed values to historic data when collated.	Meter calibration records to be maintained and made available to The Director of Environmental Management on request.
Sediment Quality (Part B)	As above	As above	Quarterly	As above	As above Samples are to be stored securely and preserved at -18°C. Analysis to be undertaken as required by The Director.	Parameters identified as potential pollutants from the activity including: Metalloids: Al, Sb , As, Ba Cd, Cr-Total, CrIII, CrVI, Cu, Pb Hg, Ni, Zn, Se, Sn, V. Organics: Dioxins, furans and dioxin like PCB's ,Phenols including chlorophenols, Resin acids, Sterols, AOX/EOX Acid volatile sulfides or others as otherwise required by The Director	As required by The Director of Environmental Management	

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