

Environment Monitoring Report



Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

April 2024

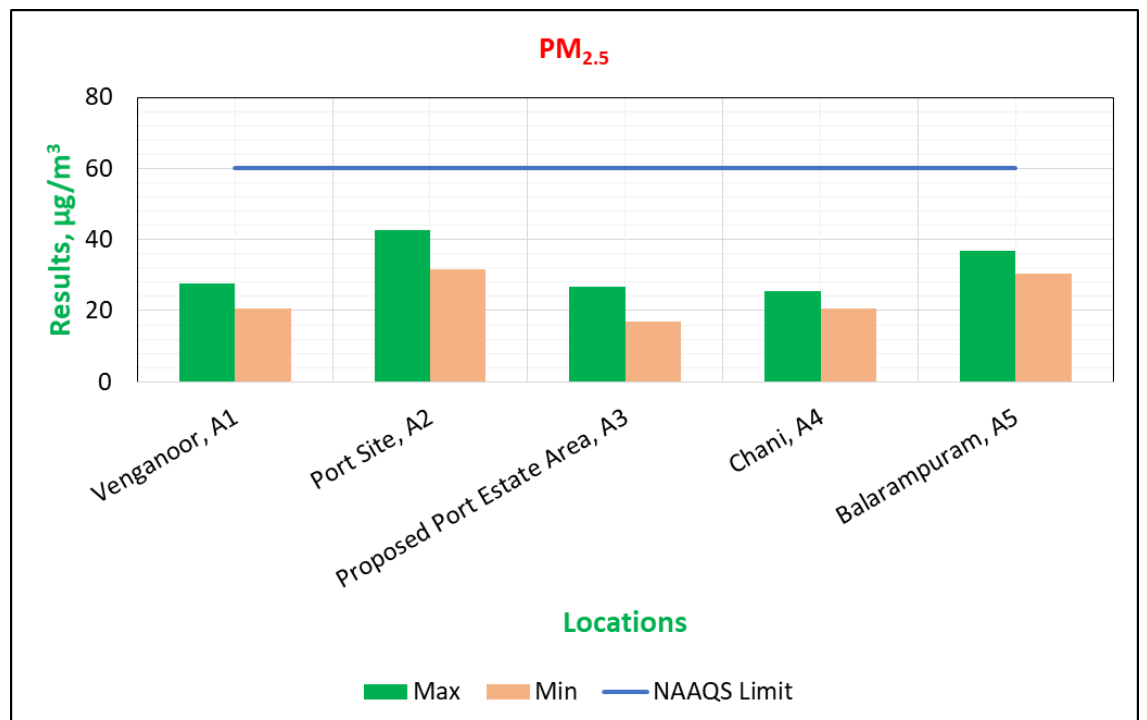
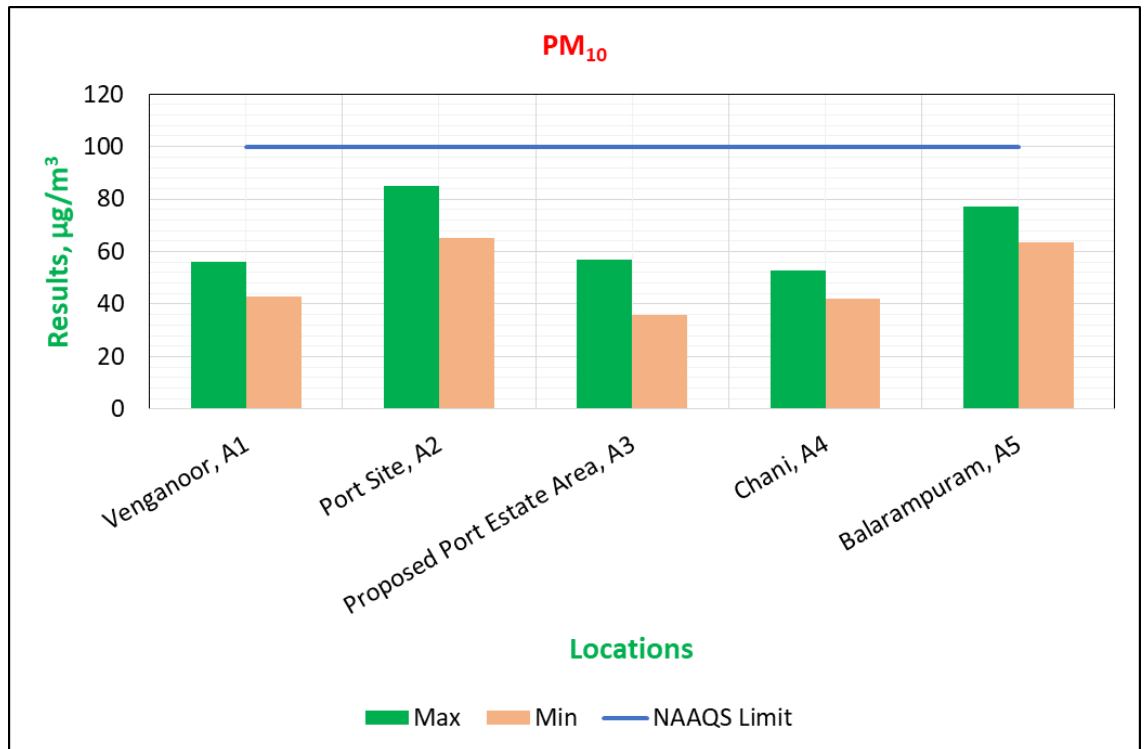
Environment Monitoring Locations:

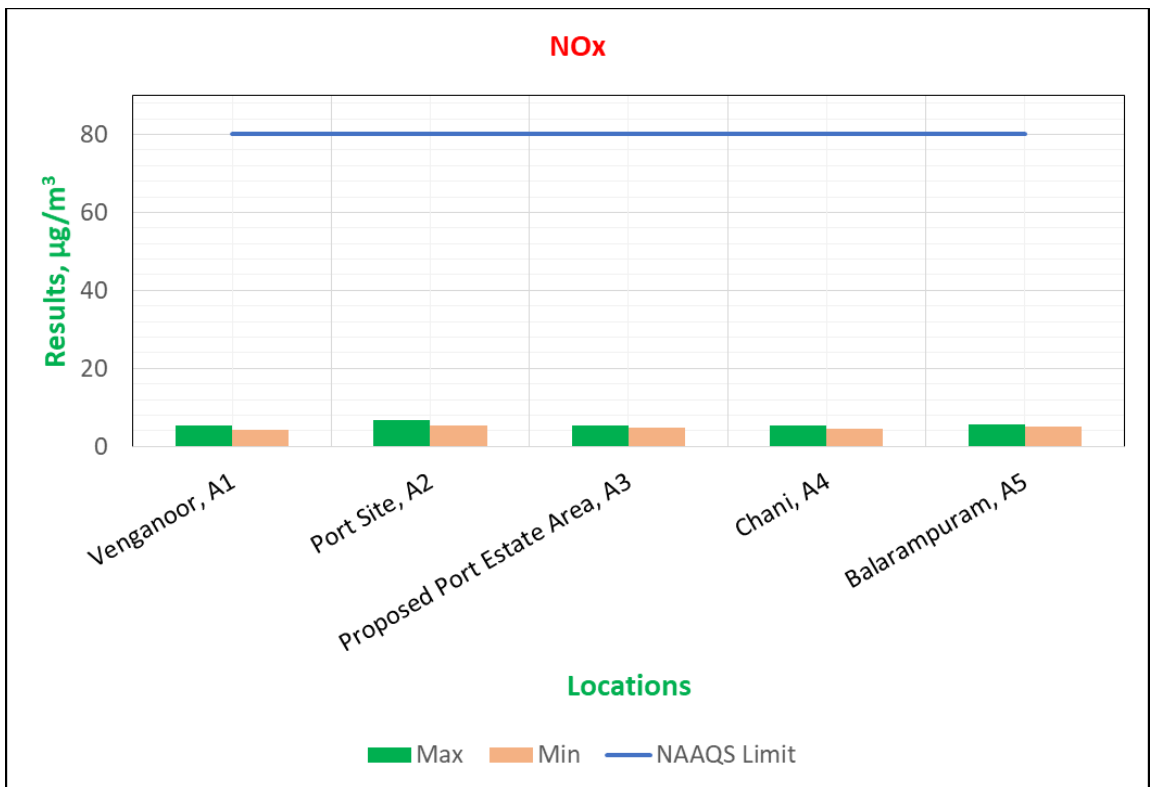
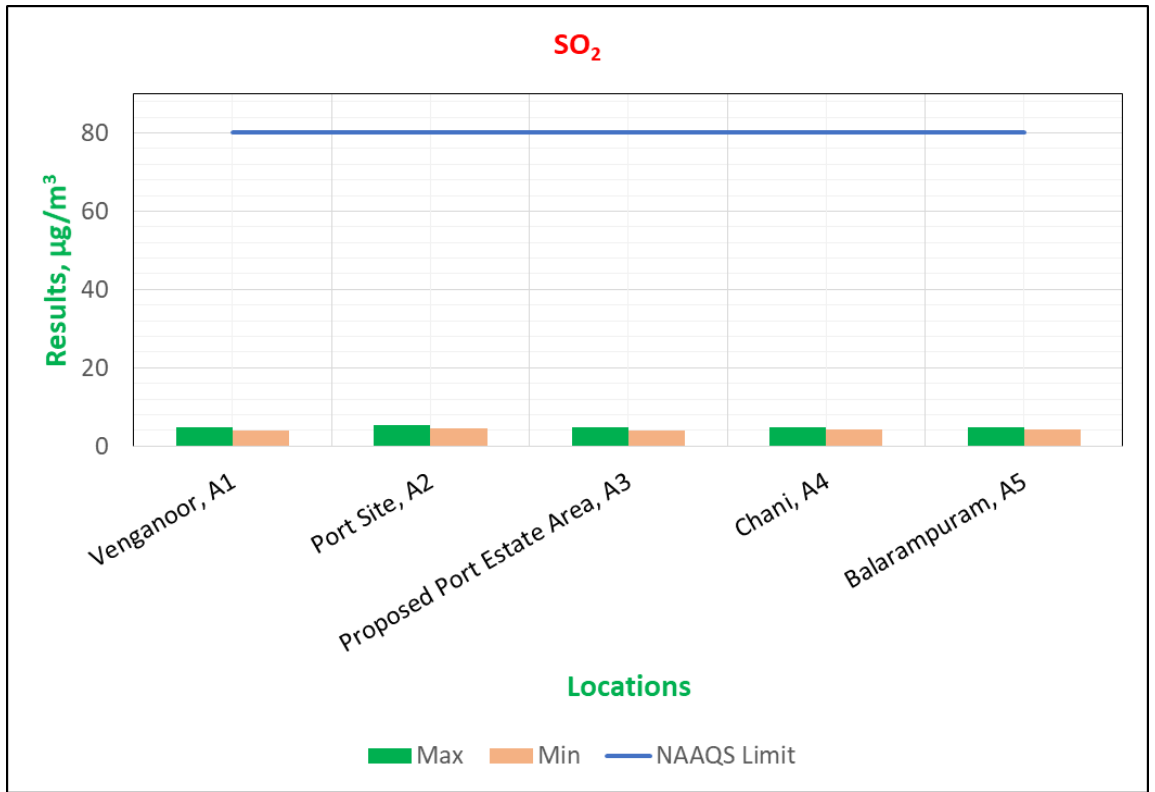
S. No.	Environmental Attribute	Location
1.	Ambient Air Quality Monitoring	Venganoor (A1)
		Port Site (A2)
		Proposed Port Estate Area (A3)
		Chani (A4)
		Balarampuram (A5)
2.	Ambient Noise	Venganoor (Residential) (N1)
		Port Site (Industrial) (N2)
		Proposed Port Estate Area (Residential) (N3)
		Chani (Residential) (N4)
		Balarampuram (Commercial) (N5)
3.	Marine Water/Sediment	Near Kovalam Beach (M1)
		Proposed Dredging Site (M2)
		Port Basin (M3)
		South of Breakwater (M4)
		Inner Approach Channel (M5)
		Kovalam Beach (M6)
4.	Groundwater	Port Site (G1)
		Proposed Port Estate Area (G2)
		PAF Area (G3)
5.	Surface Water	Poovar West Canal (S1)
		Vizhinjam Branch Canal (S2)
		Vellayani Lake (S3)
		Poovar Estuary (S4)

1. Summary of Environmental Monitoring Results for the Month of April 2024:

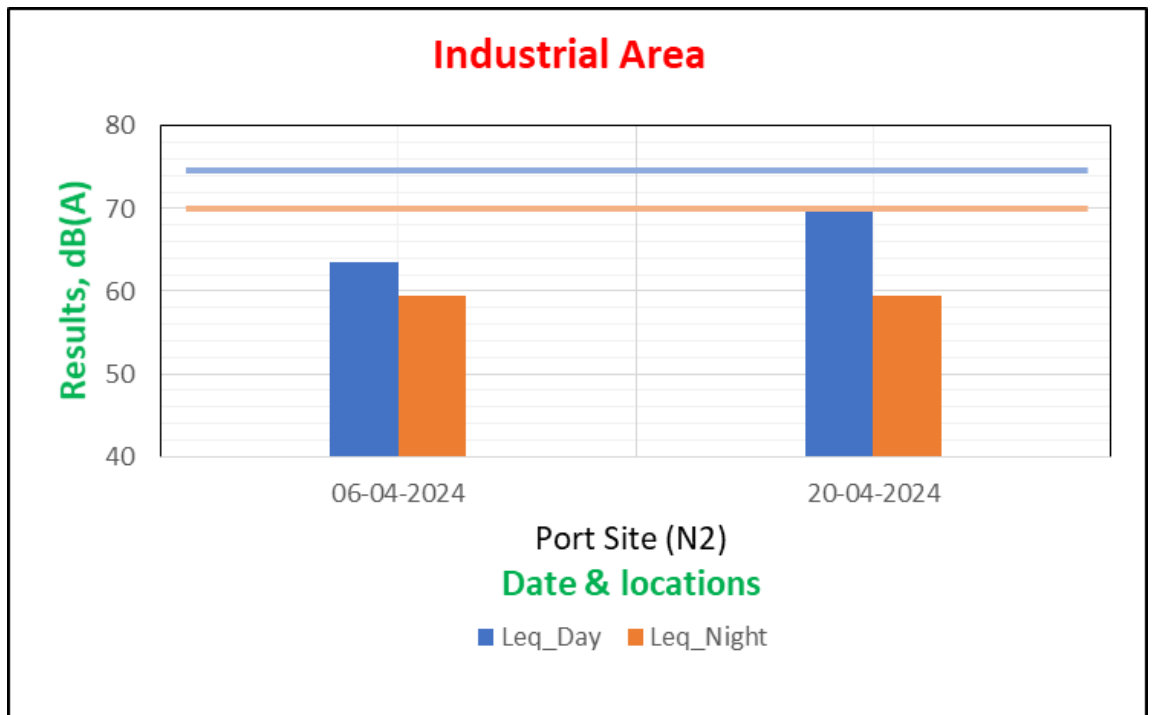
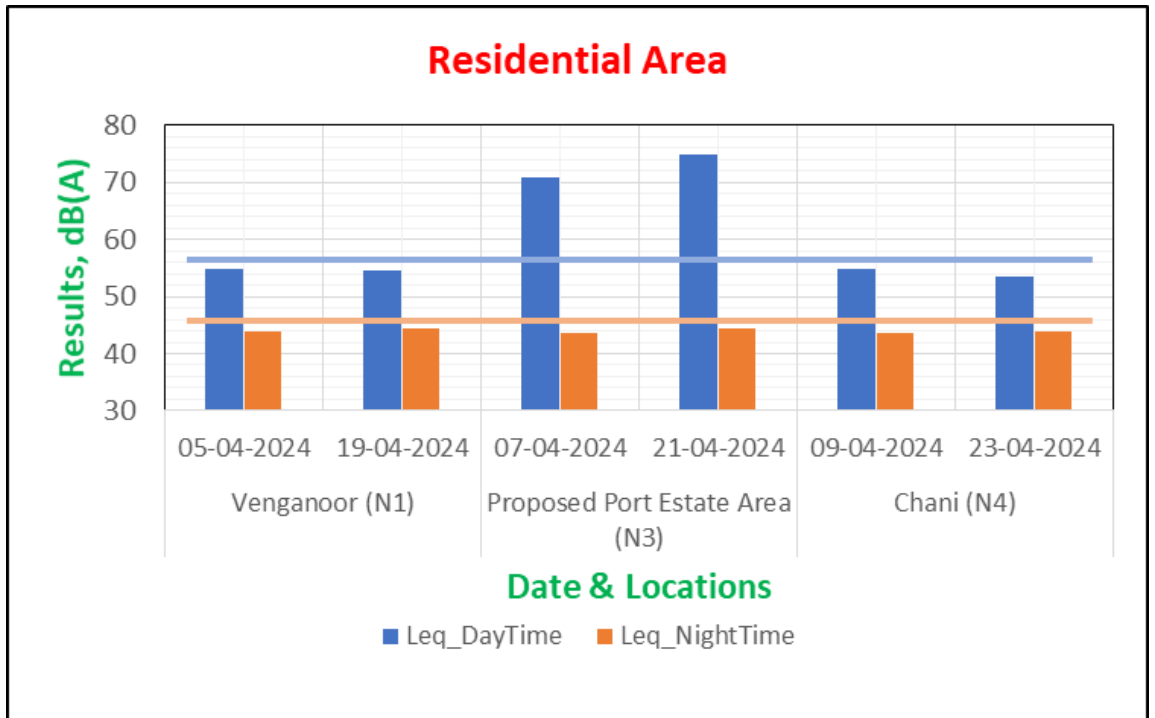
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations.
- Noise readings were within limits at all the monitoring locations except Proposed port estate area and Balaramapuram due to usage of loud speaker at nearby temples as part of temple festivals during monitoring days..
- Marine water and sediment samples results were observed to be comparable with the baseline.
- Ground water samples were collected from 3 locations (open wells). All the parameters at all locations were within the acceptable limits as per IS 10500:2012. The water from these locations are not used for drinking purposes.
- Surface water sample results were observed to be comparable with the baseline.

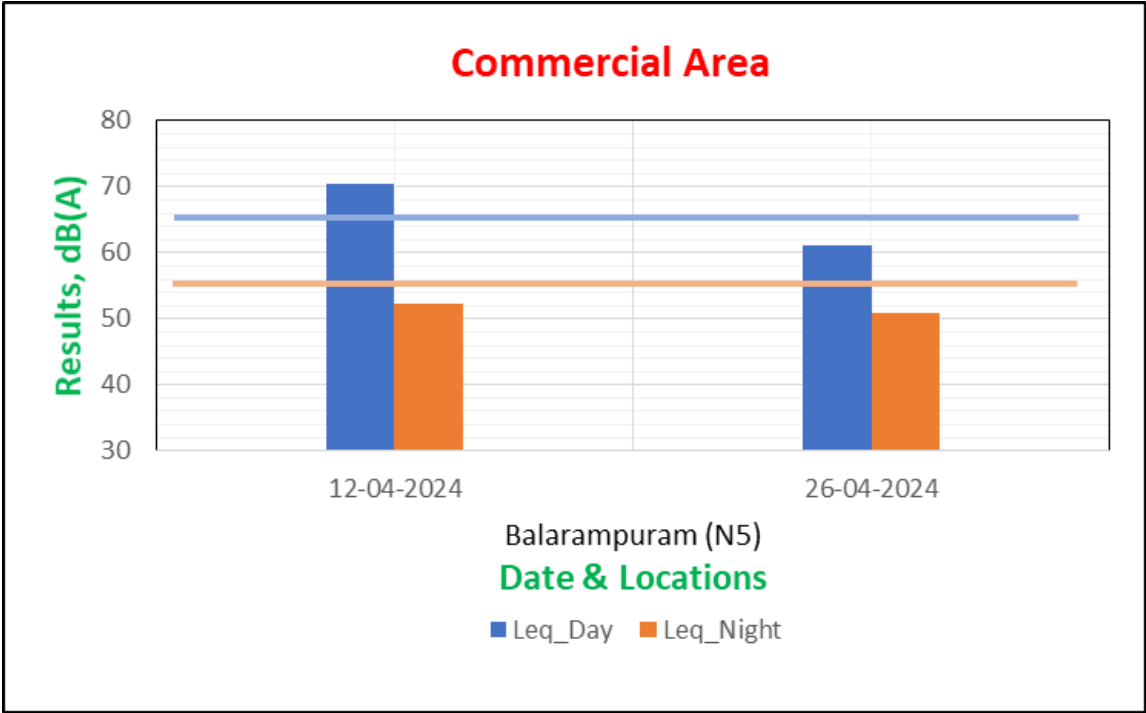
2. Ambient Air Quality





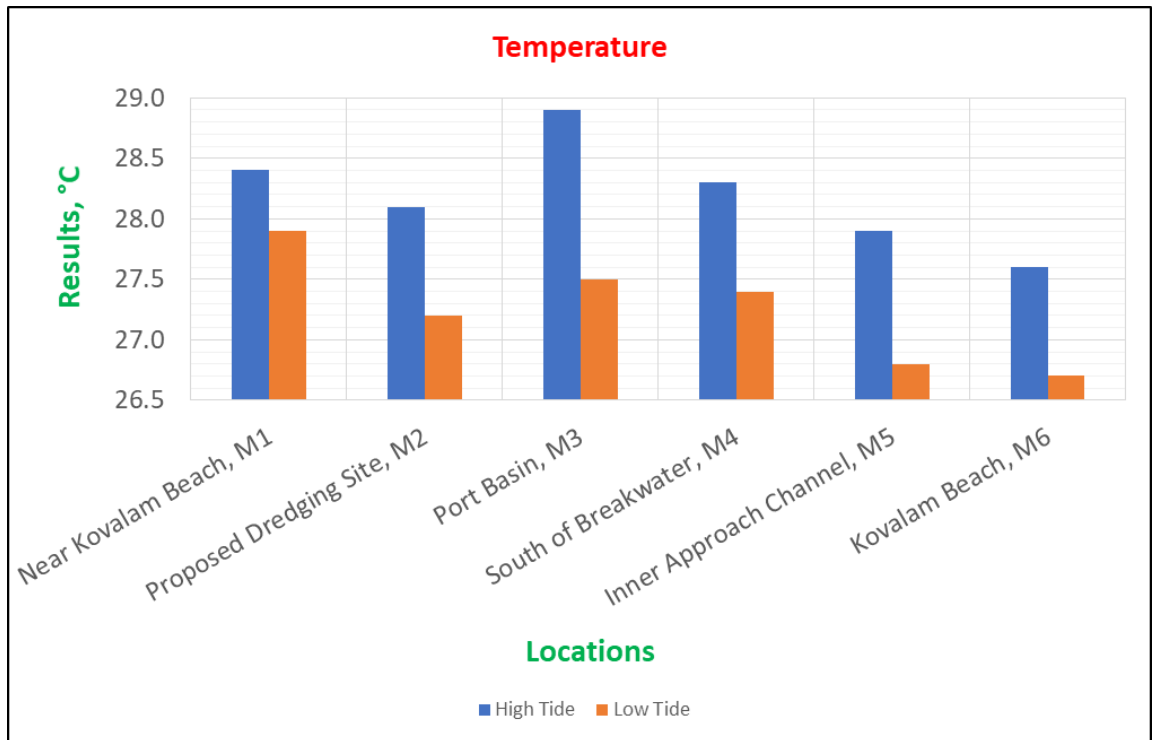
3. Ambient Noise

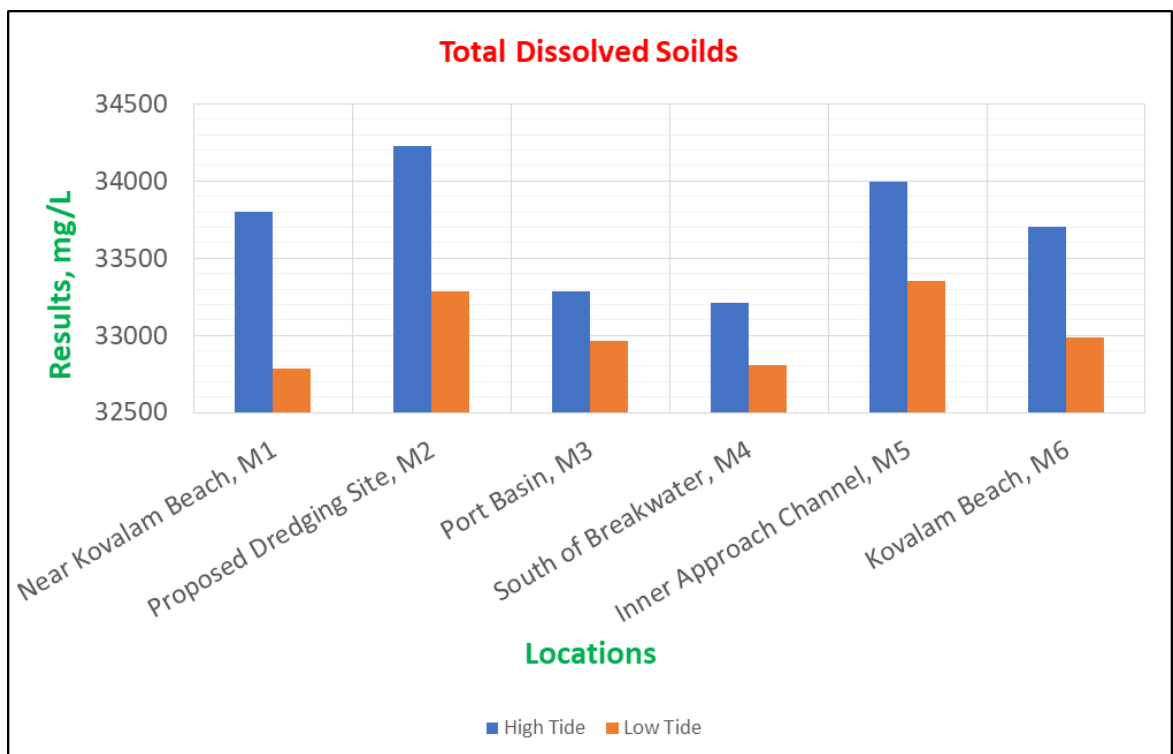
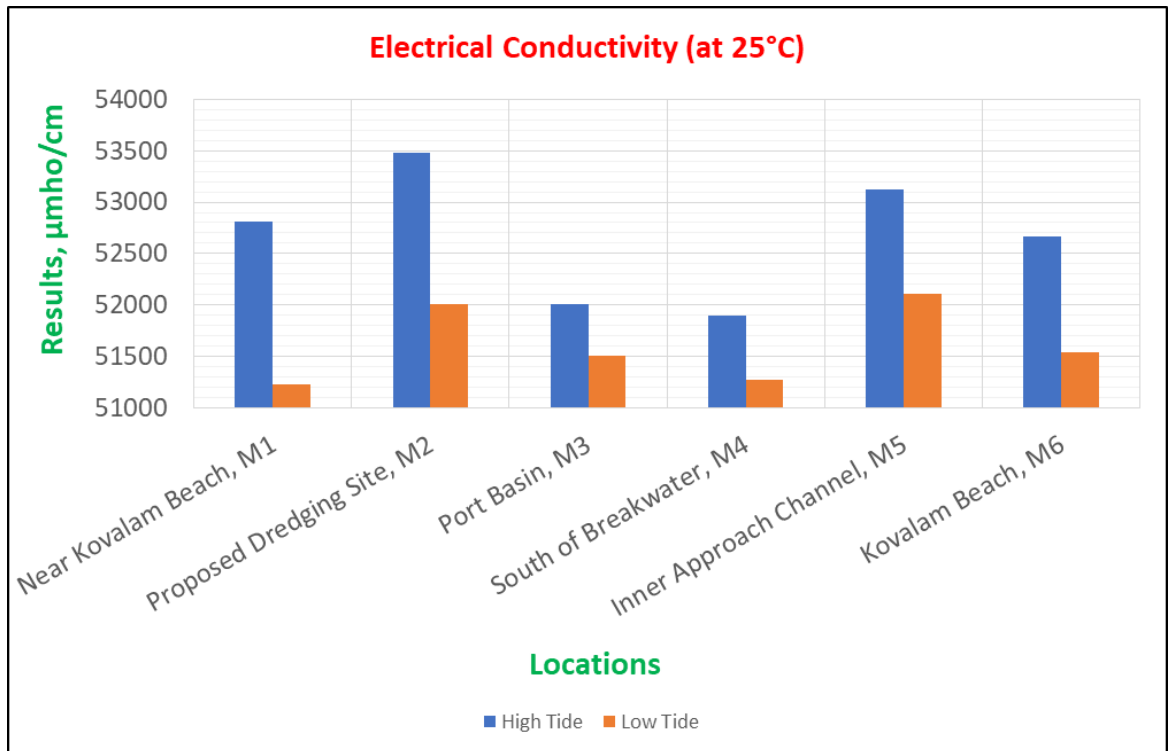


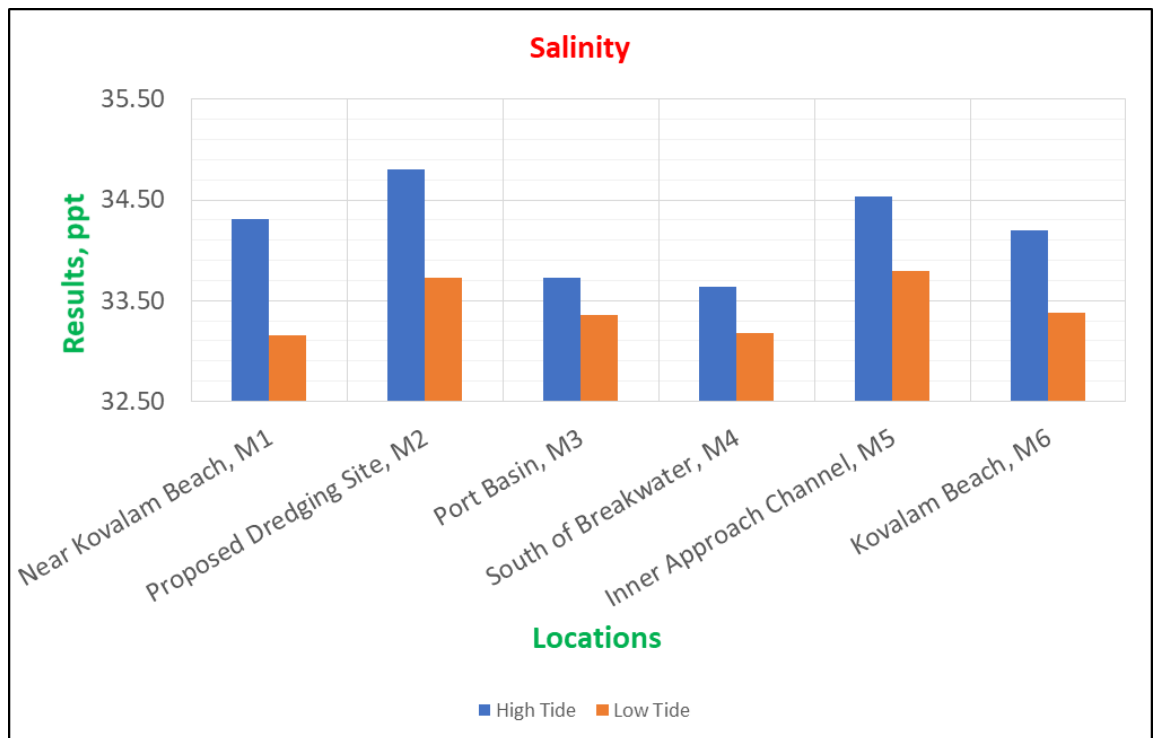
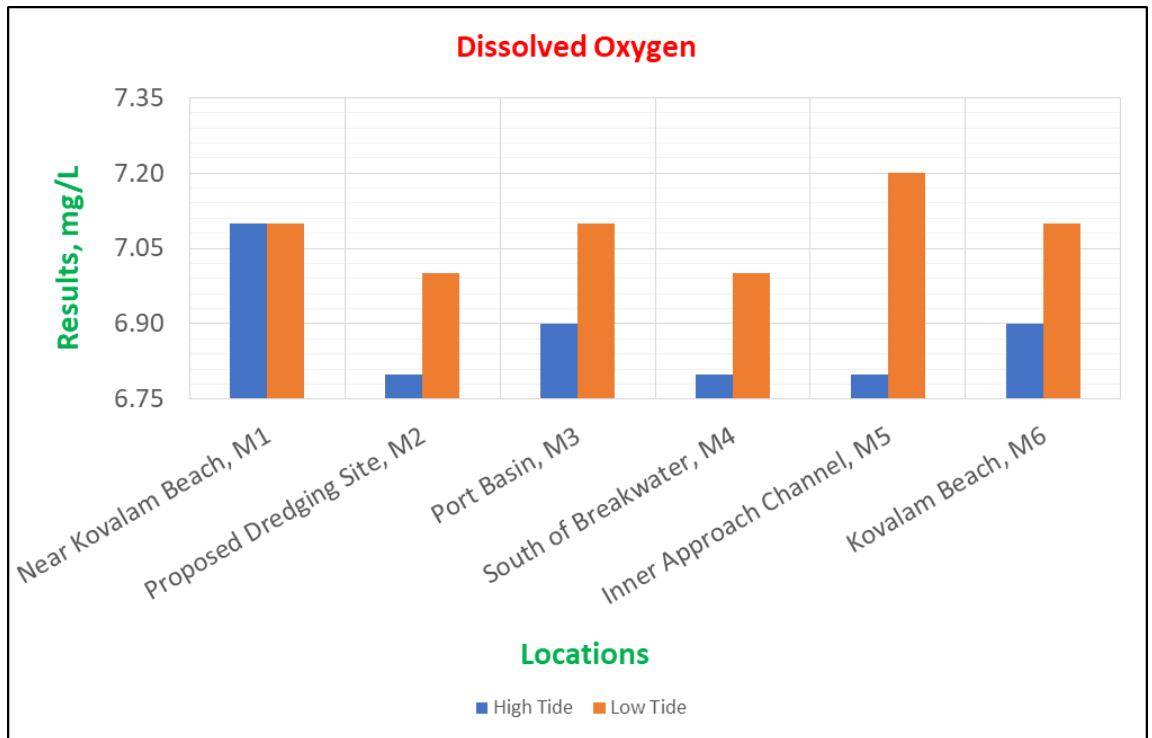


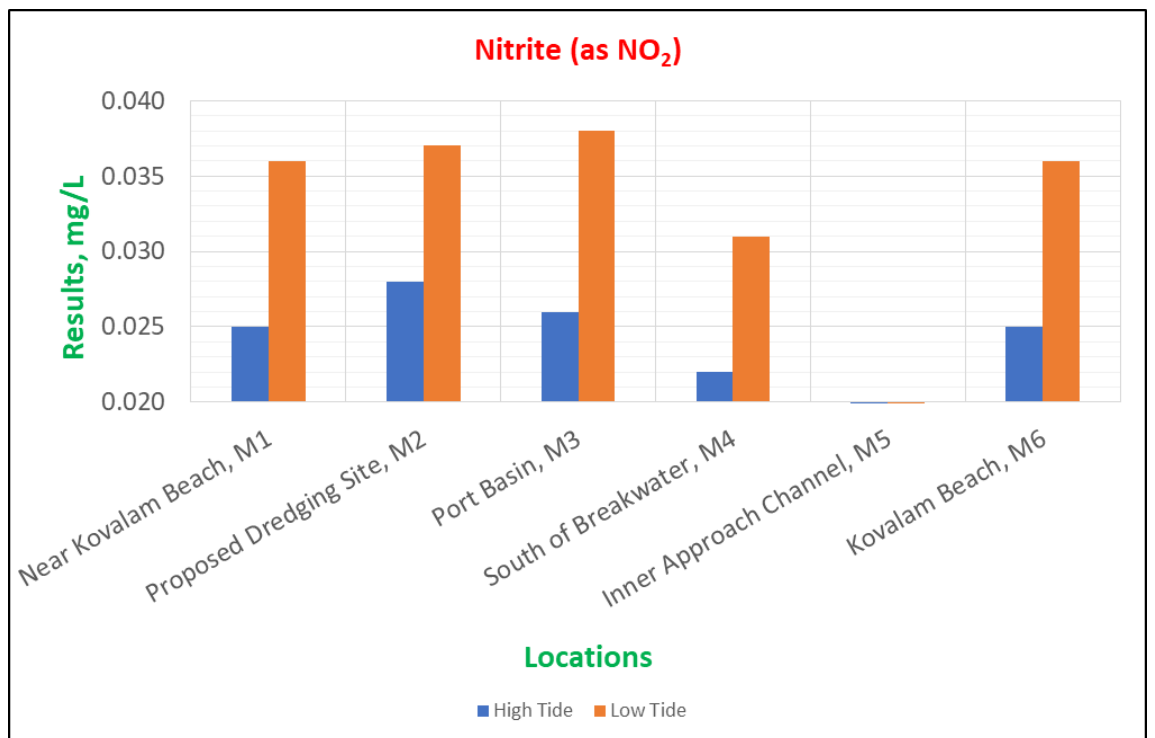
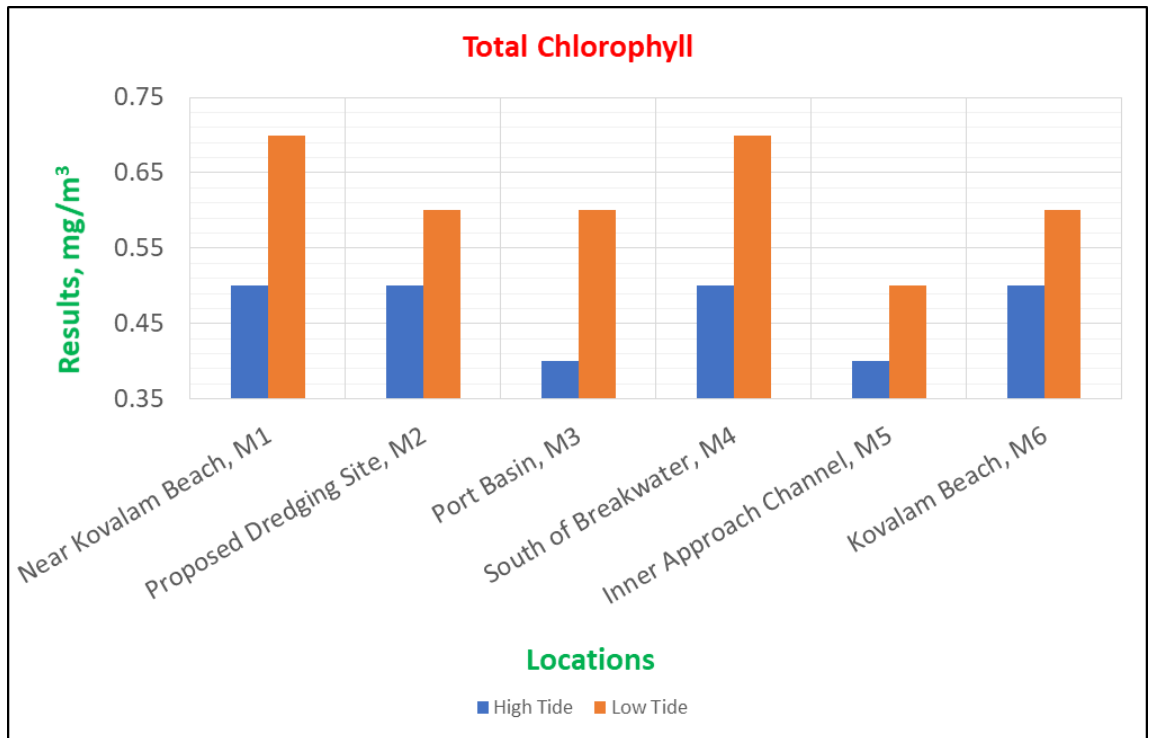
4. Marine Survey

4 a. Marine Water Analysis

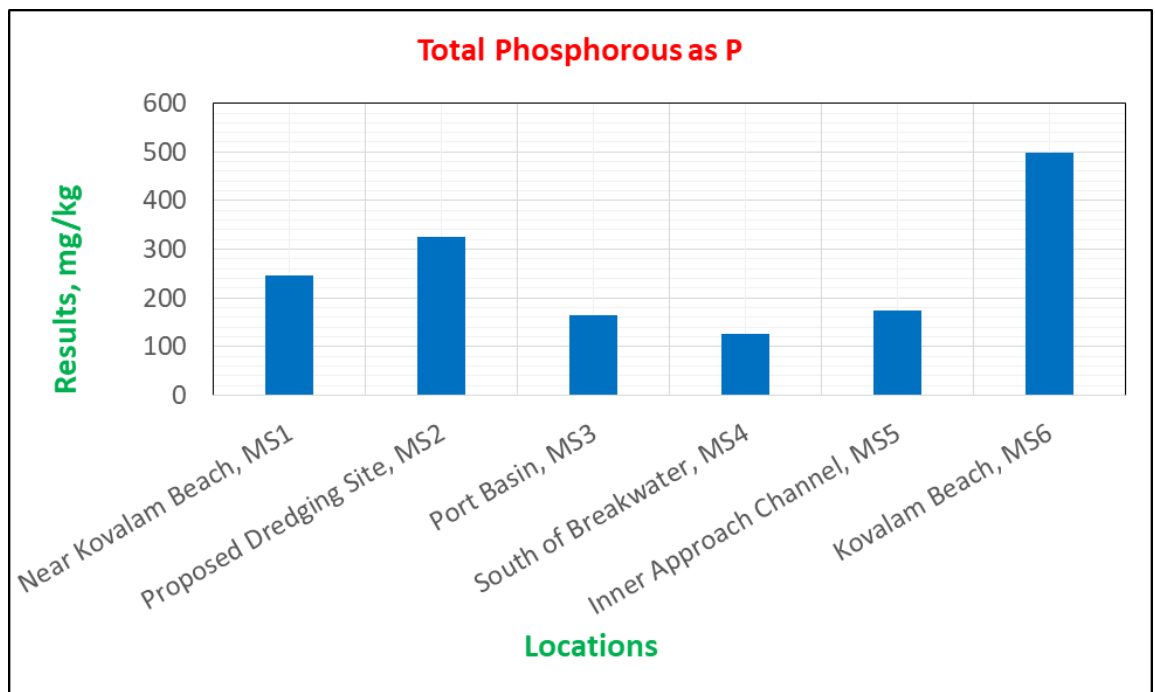
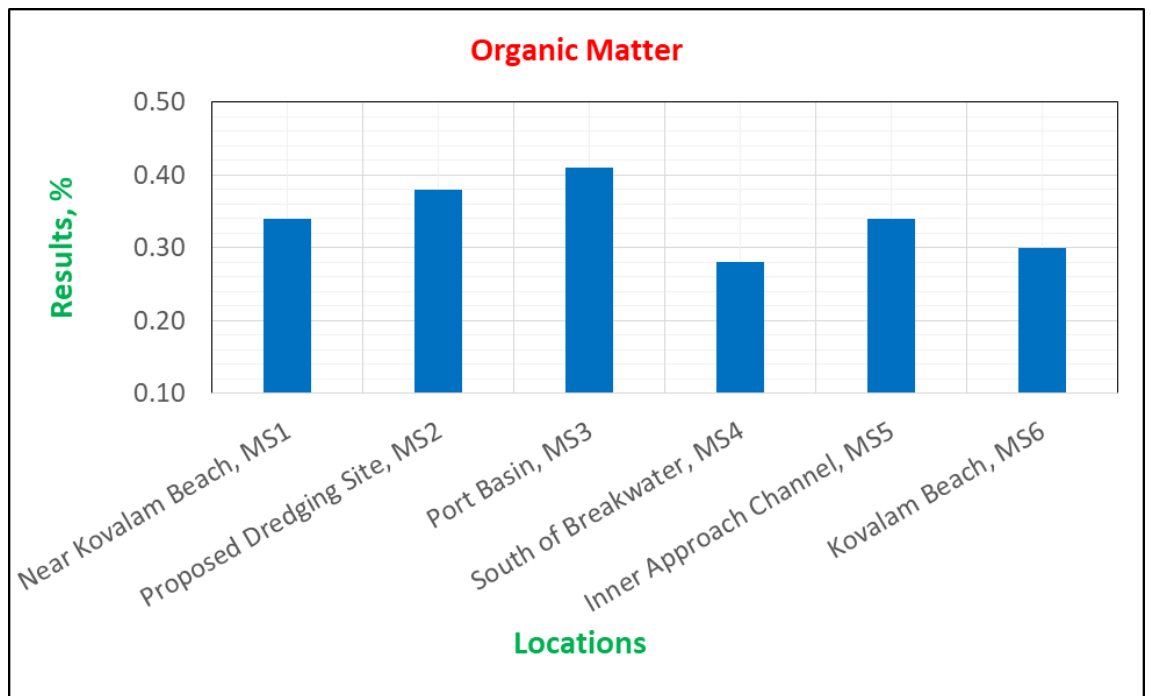


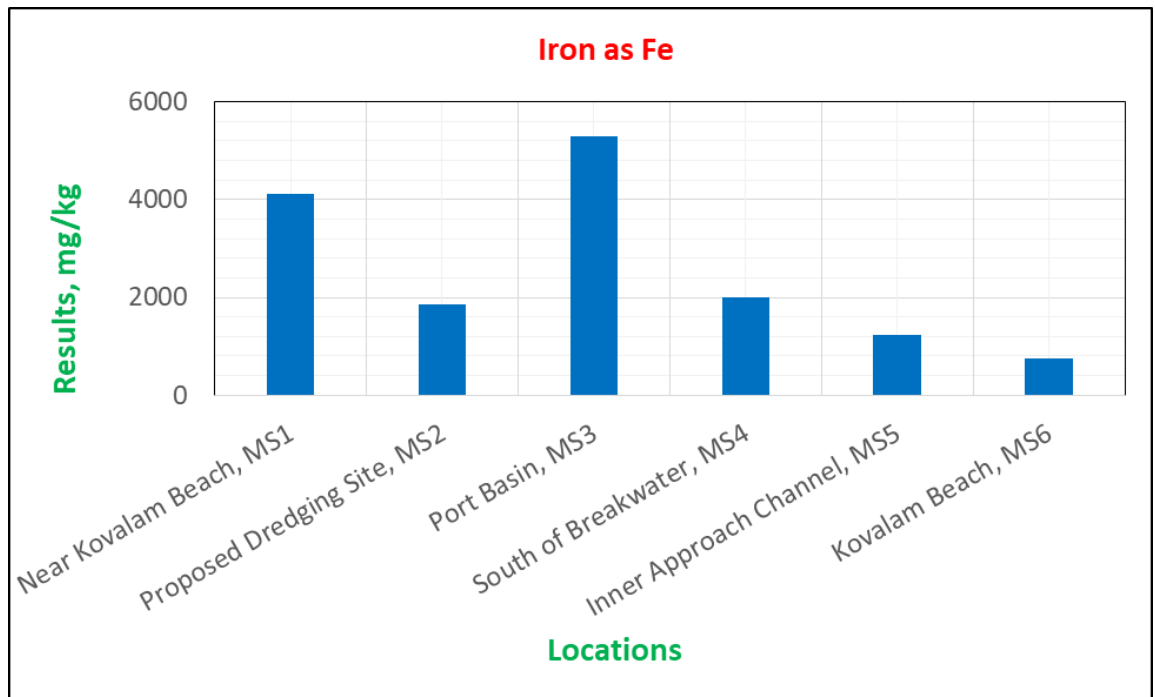
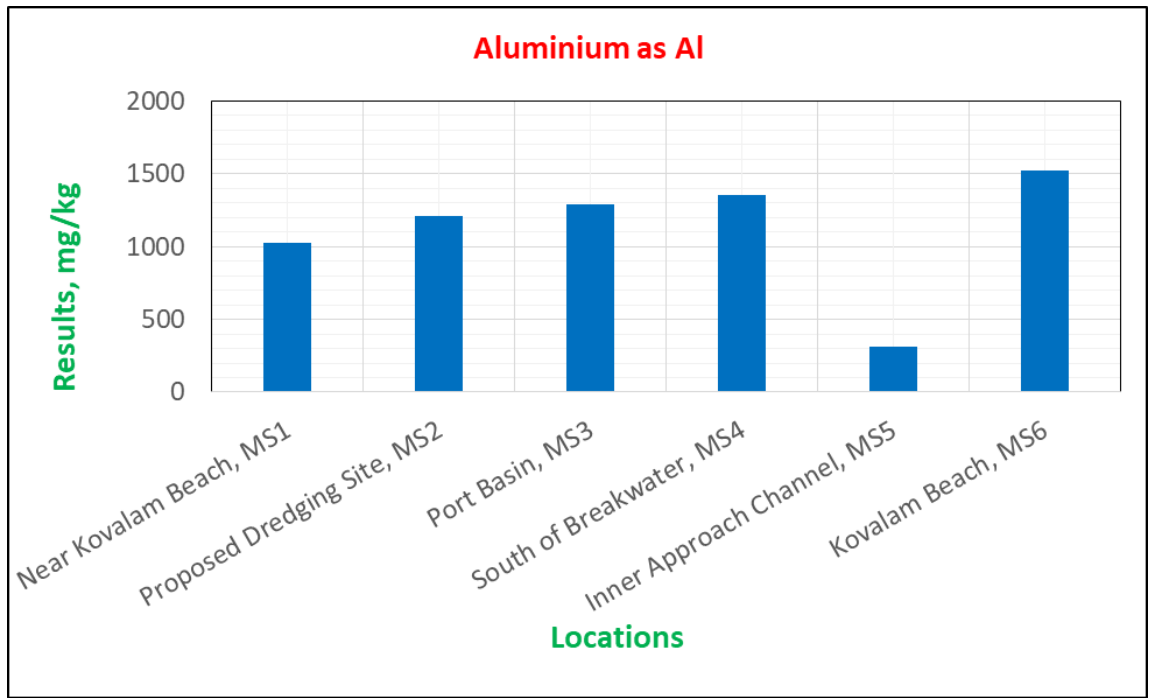


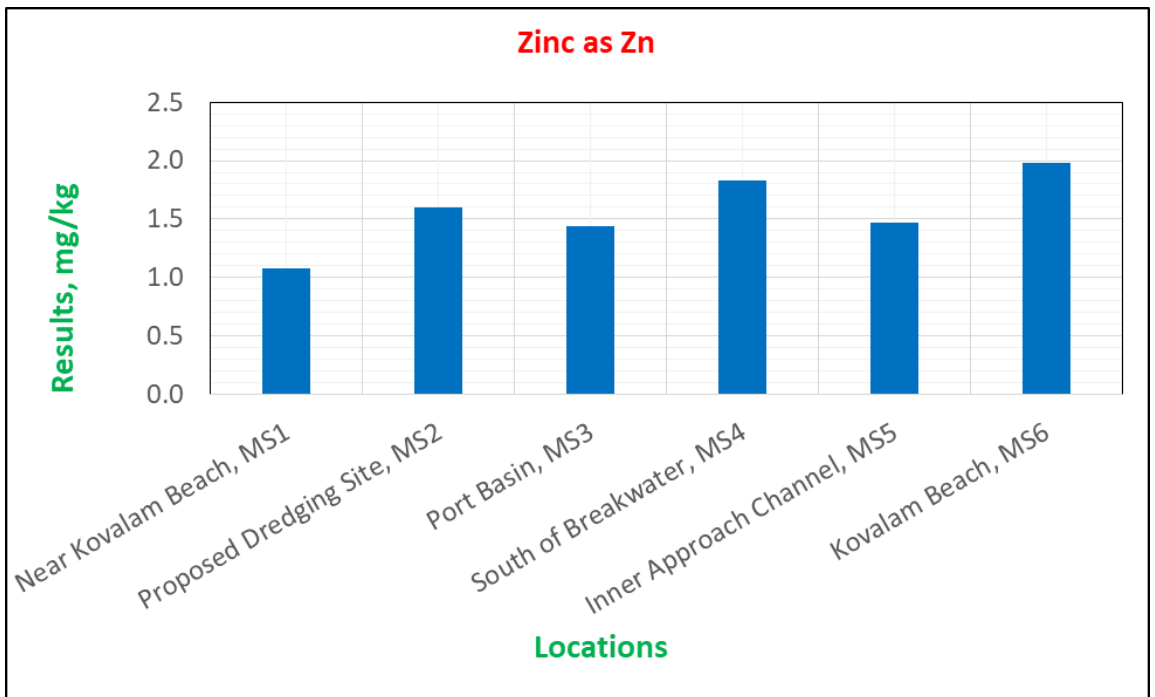
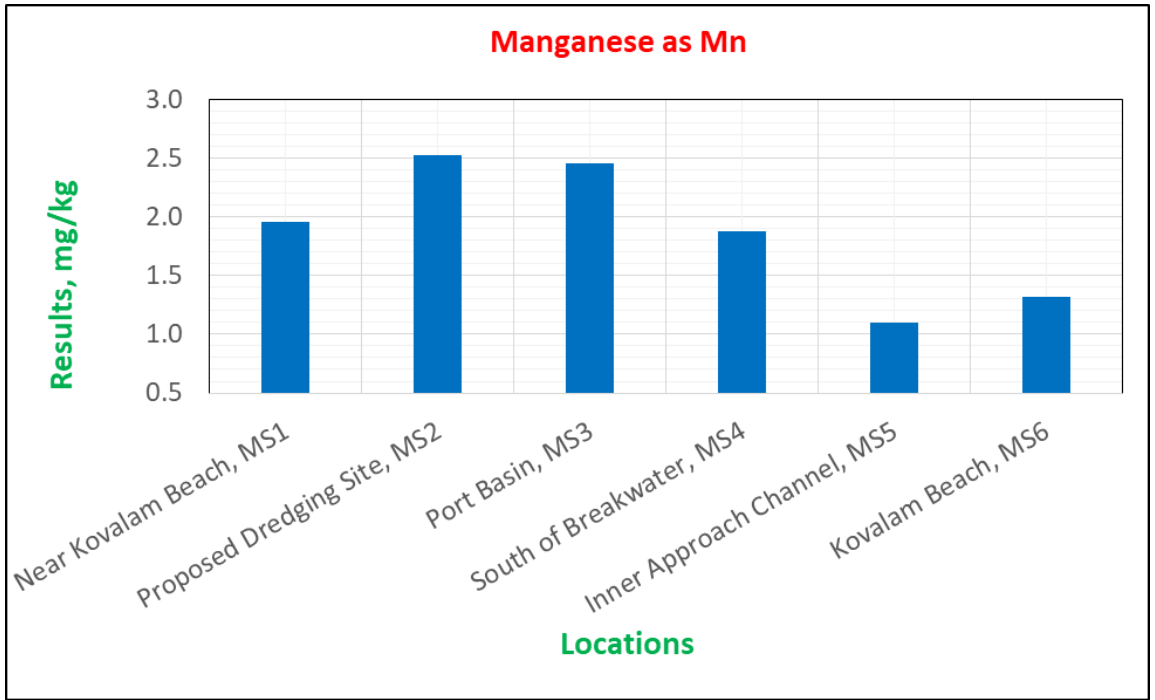


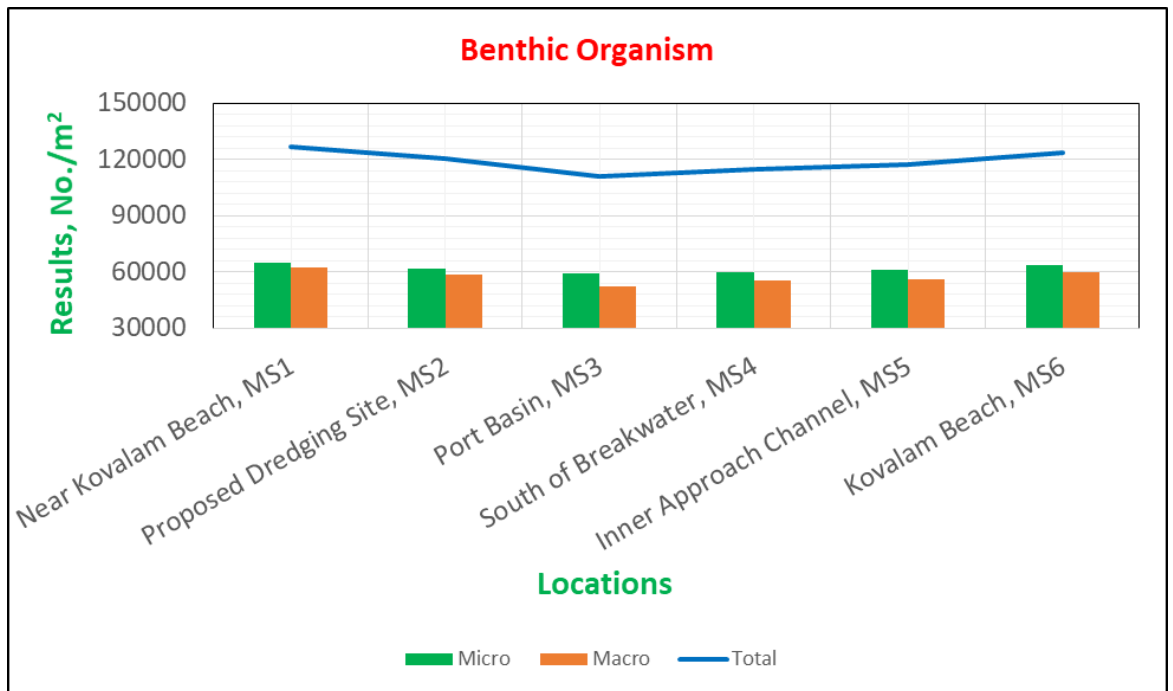


4 b. Sediment Analysis

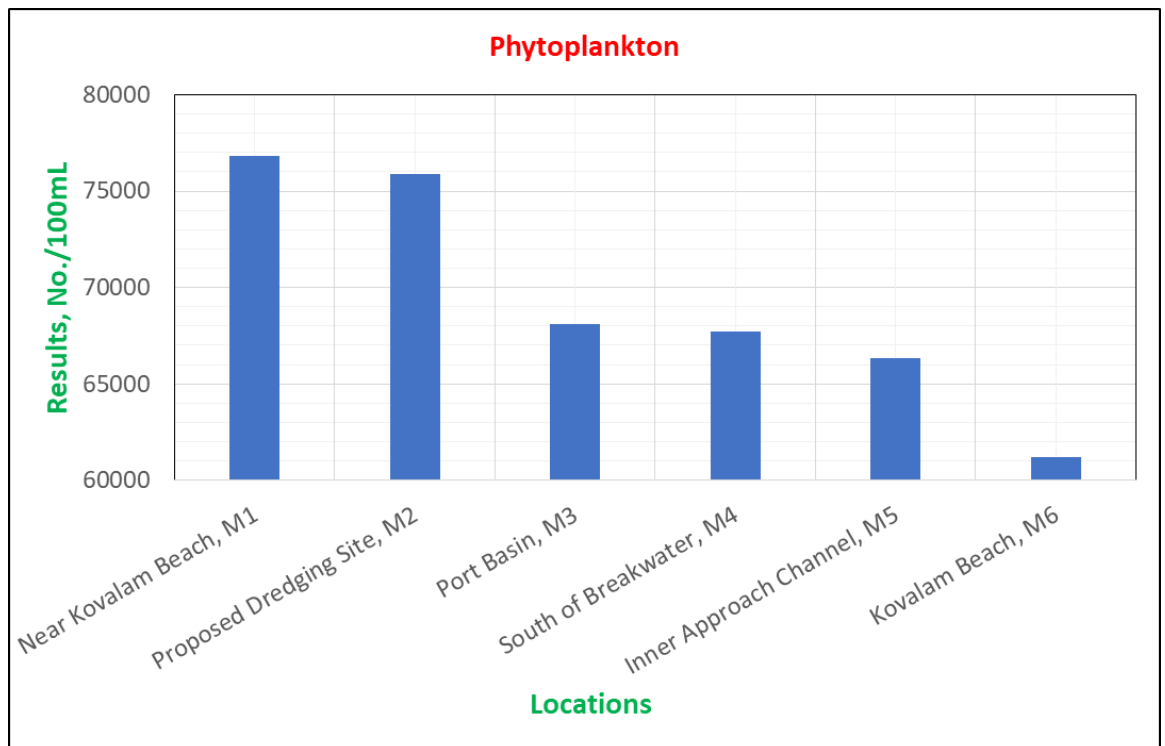




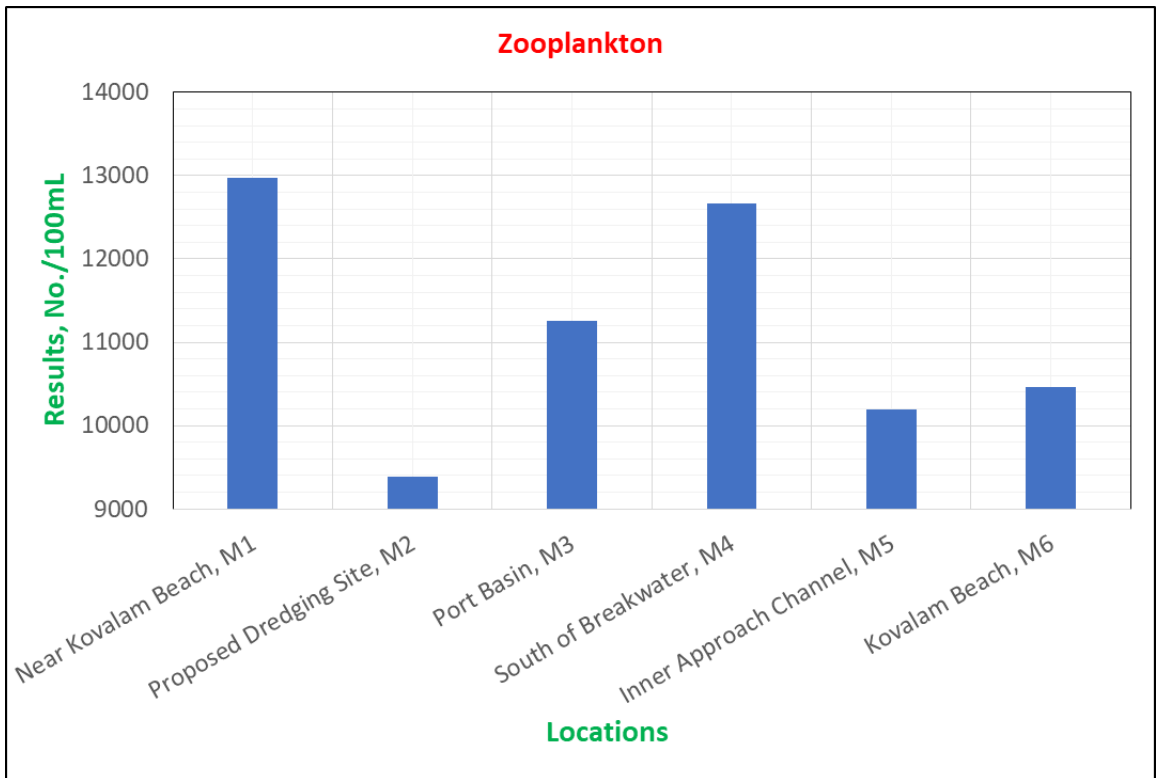




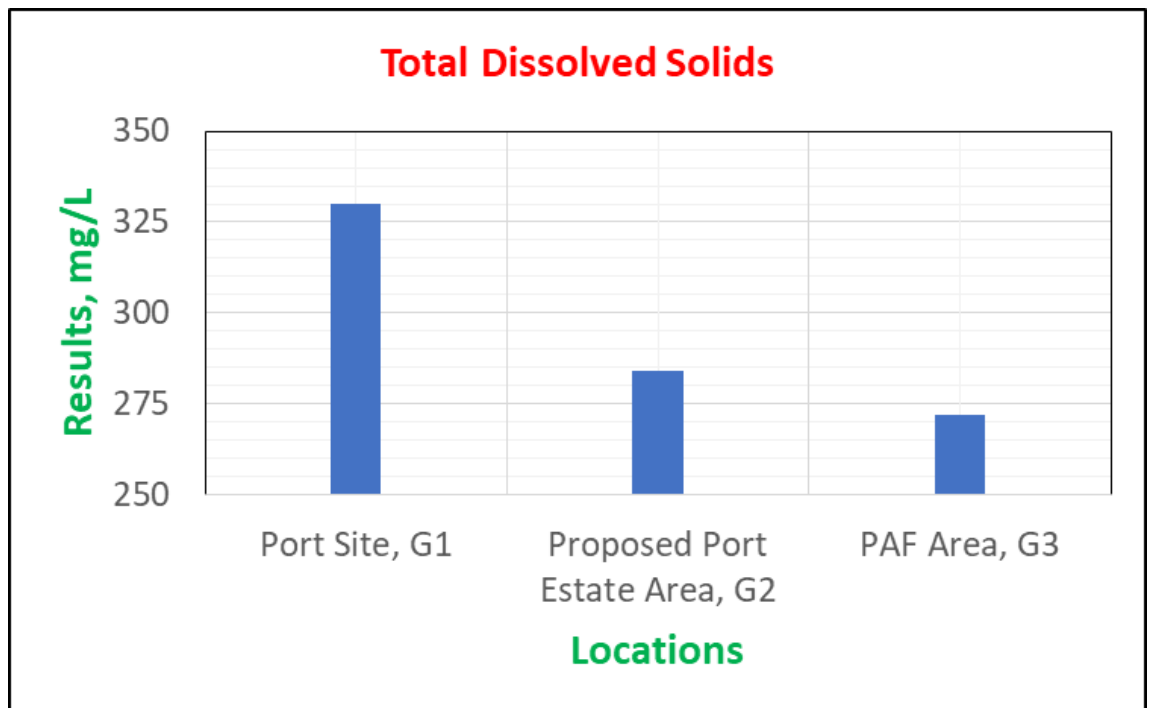
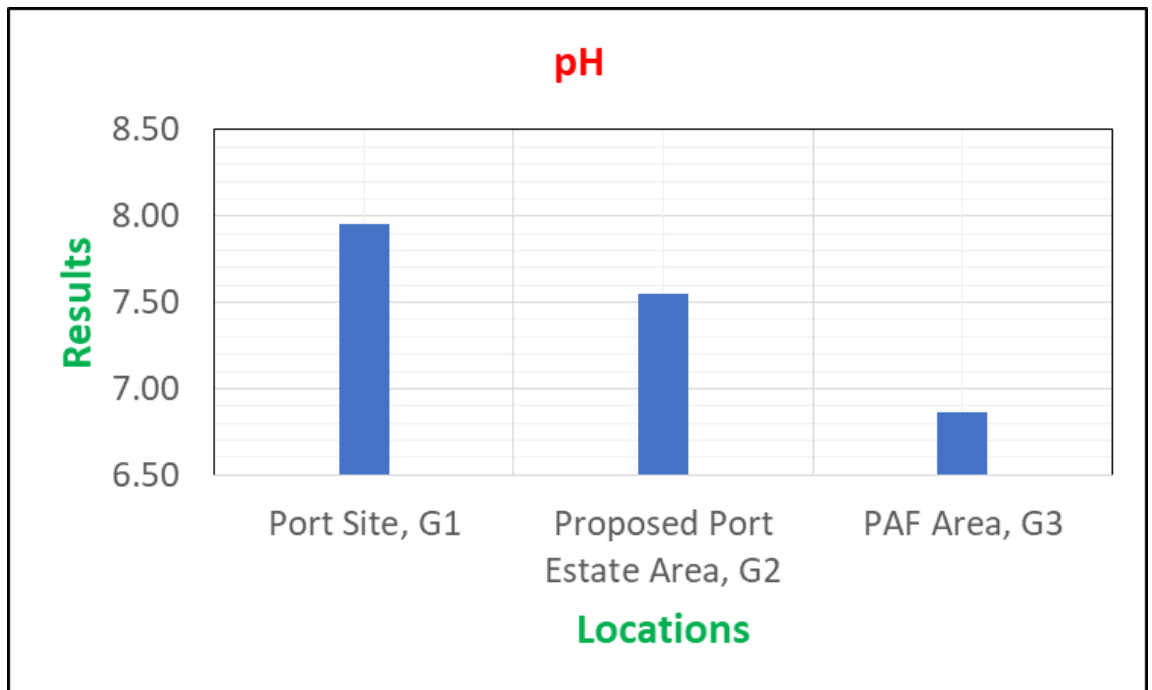
4 c. Phytoplankton Analysis from Marine Samples

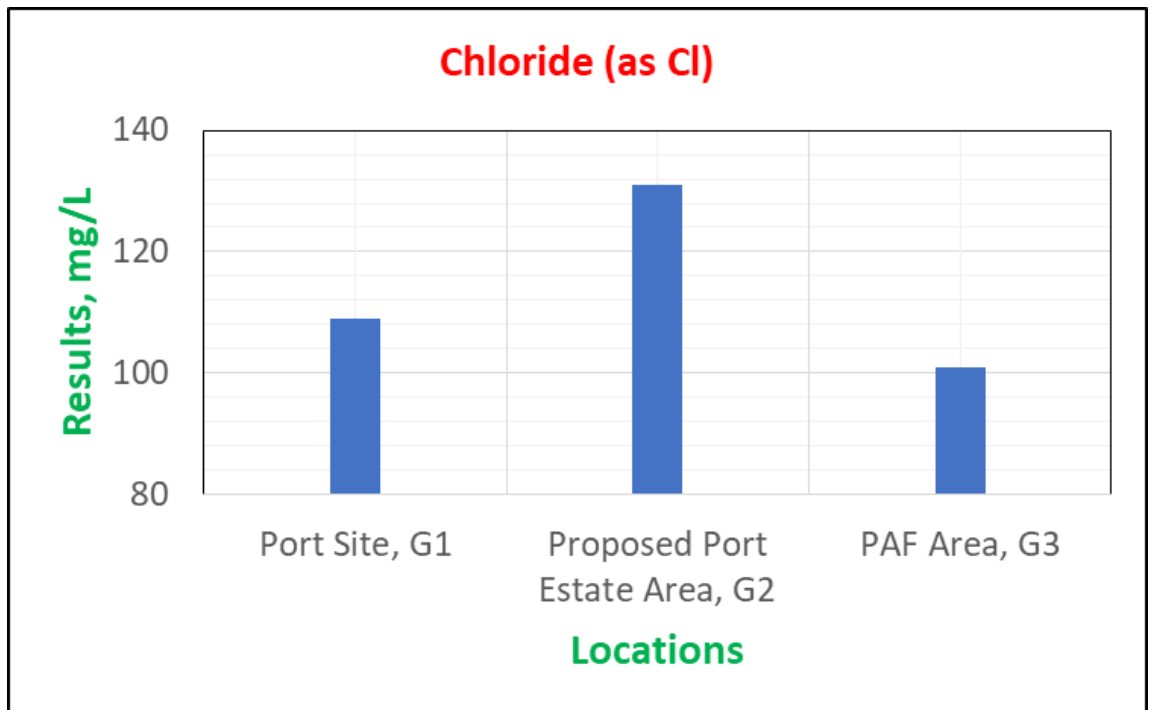
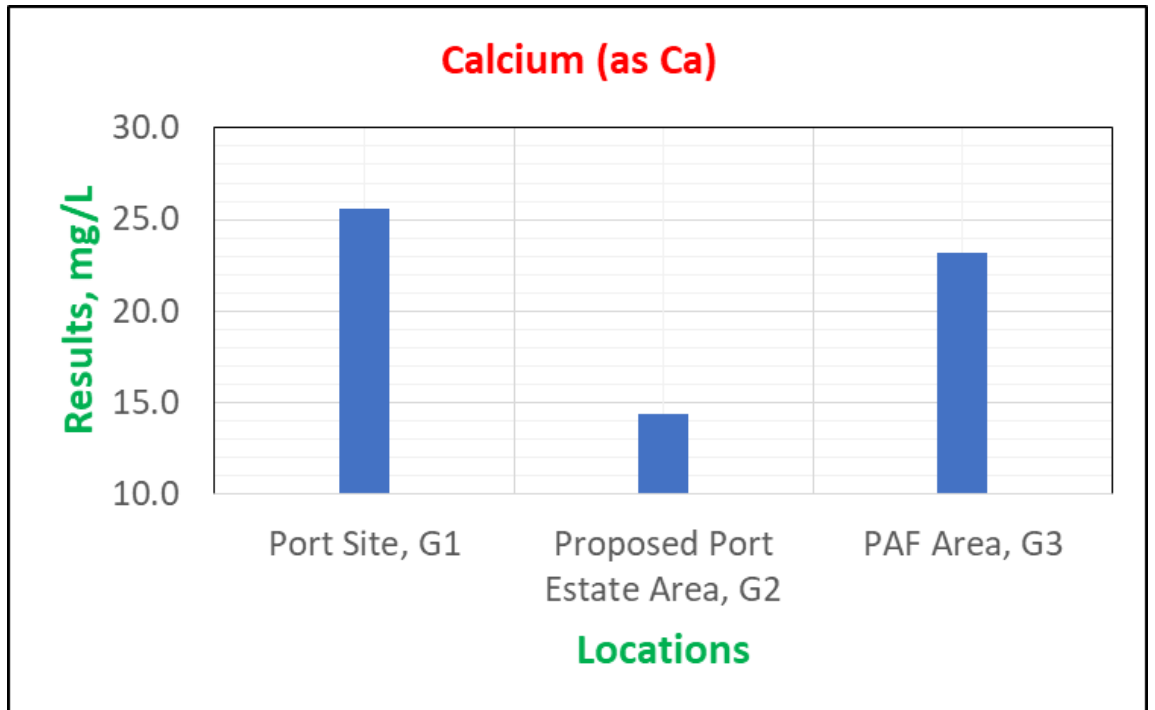


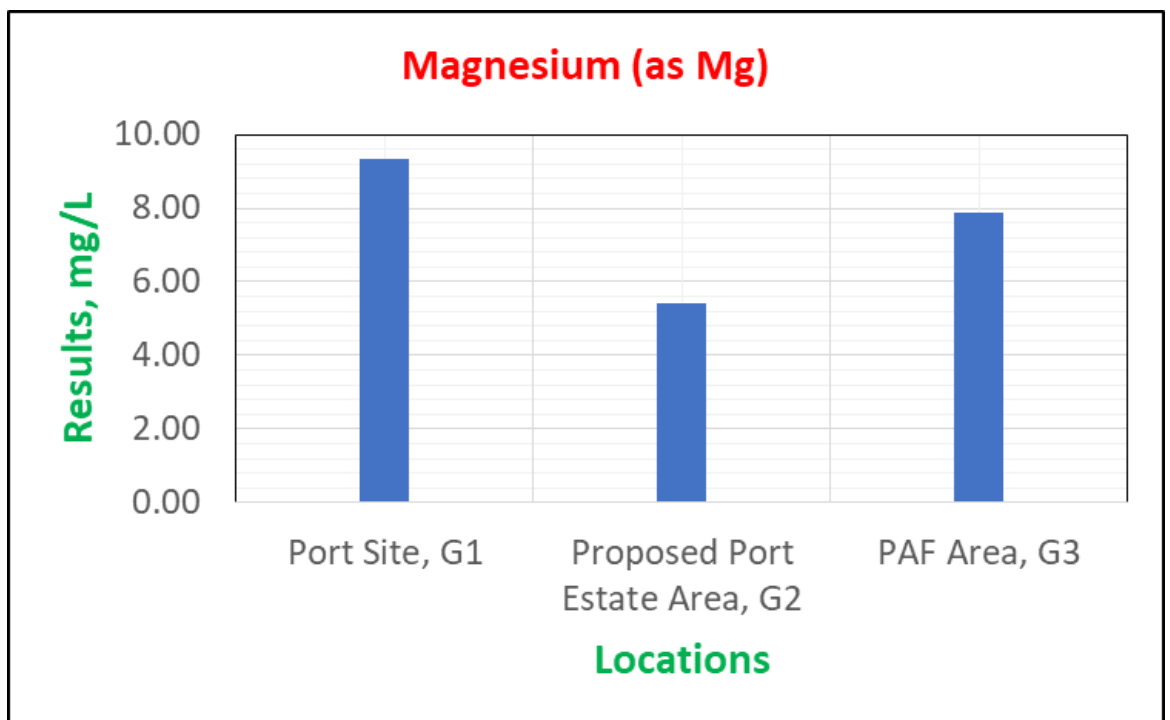
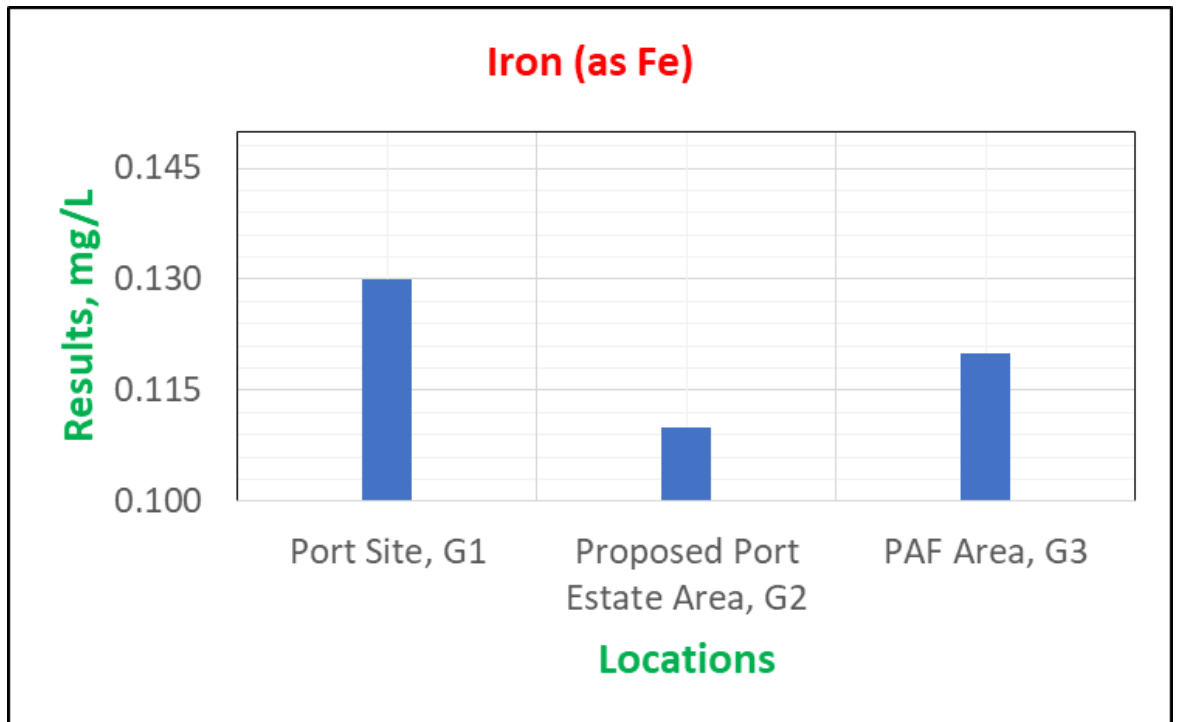
4 d. Zooplankton Analysis from Marine Sample

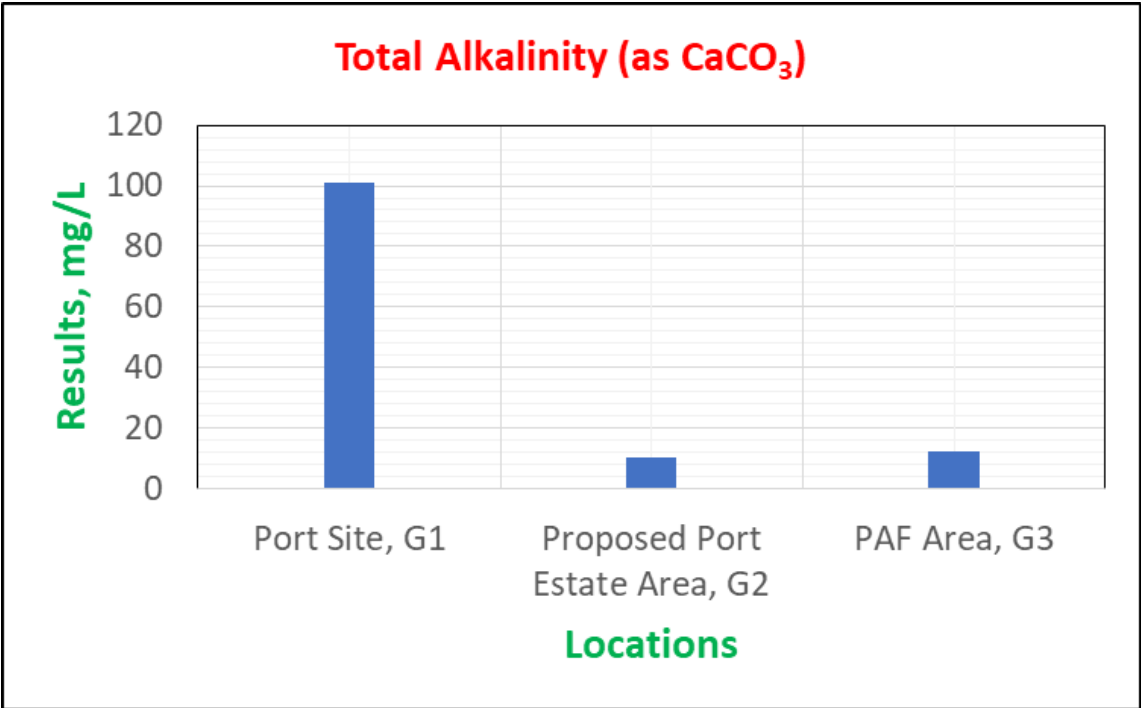
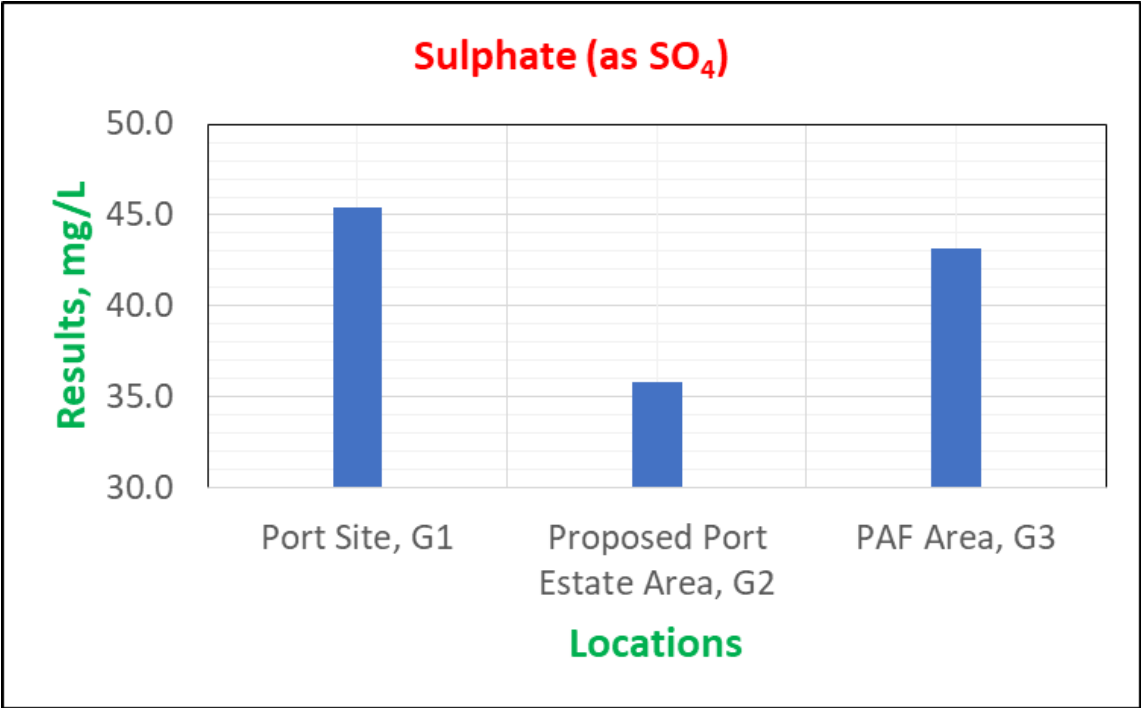


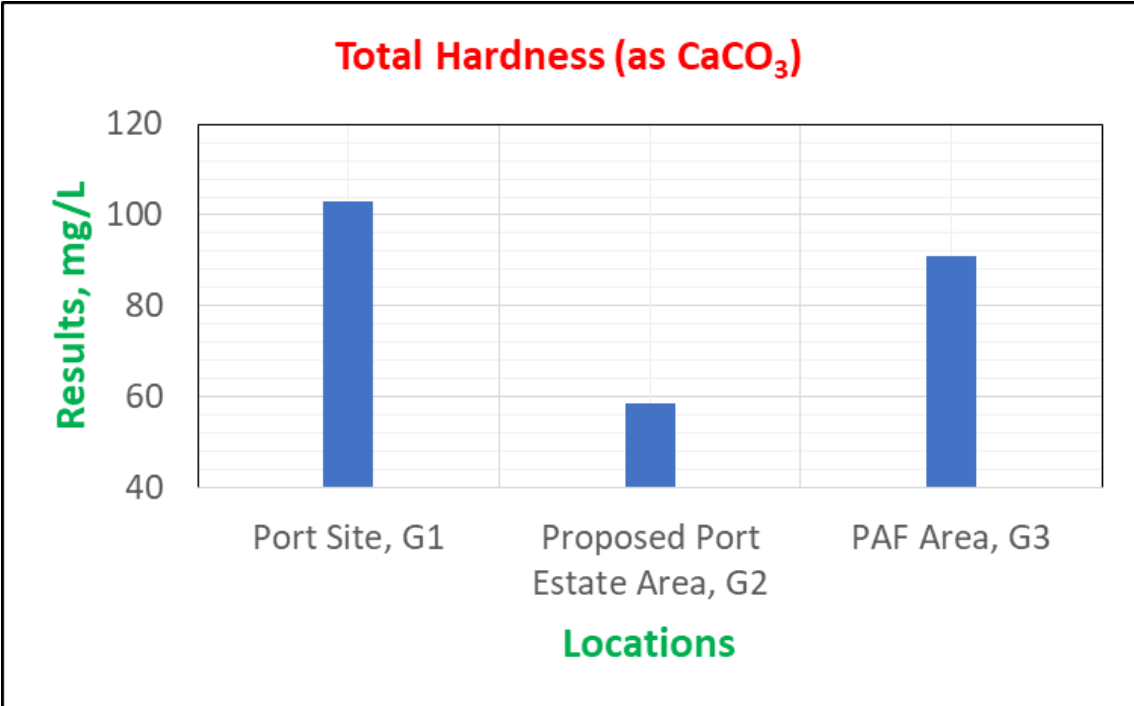
5. Groundwater Analysis











6. Surface Water Analysis

