

# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

May 2023

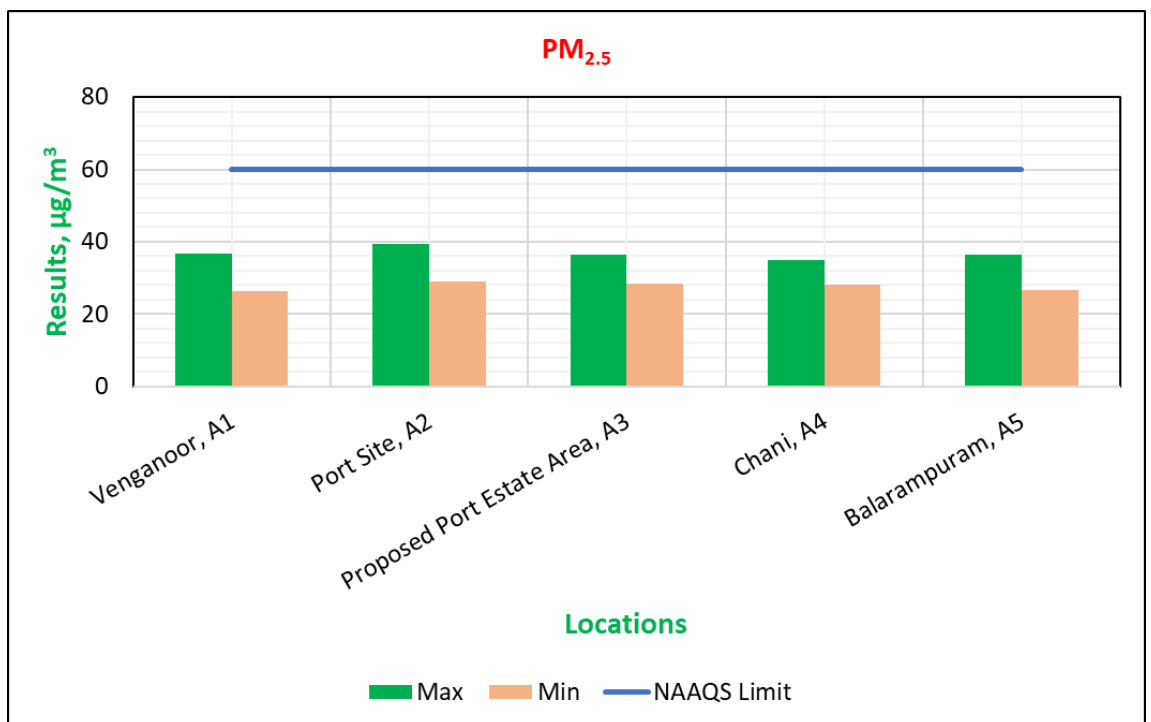
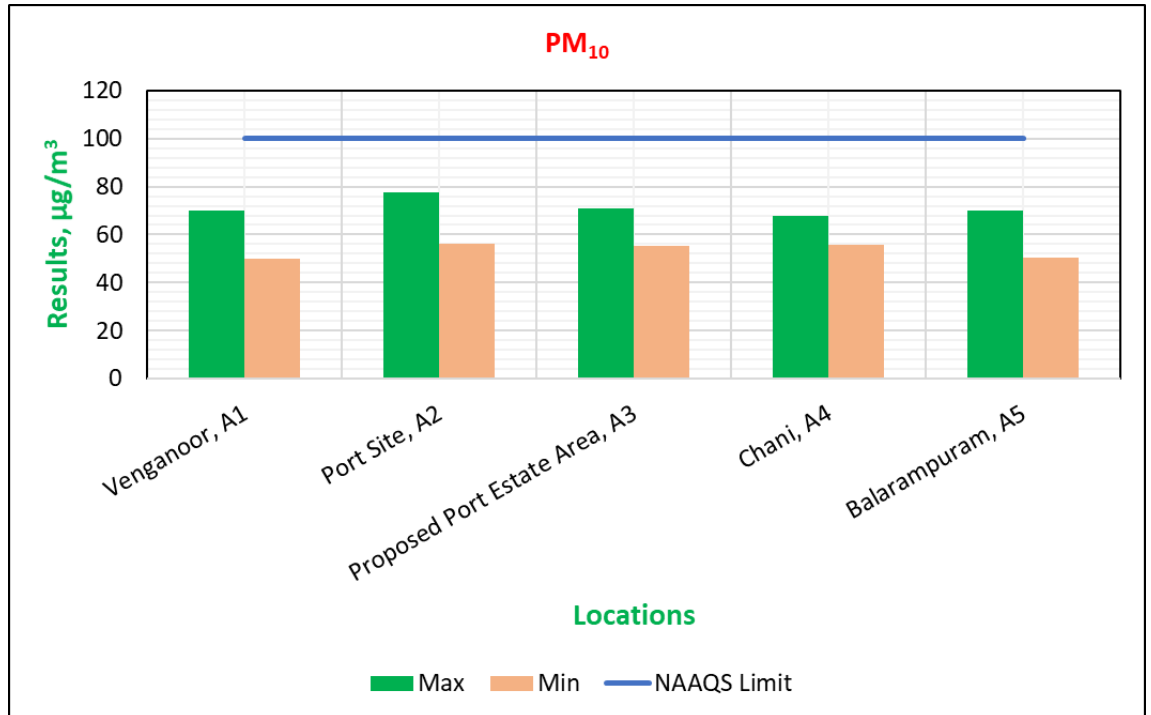
## Environment Monitoring Locations:

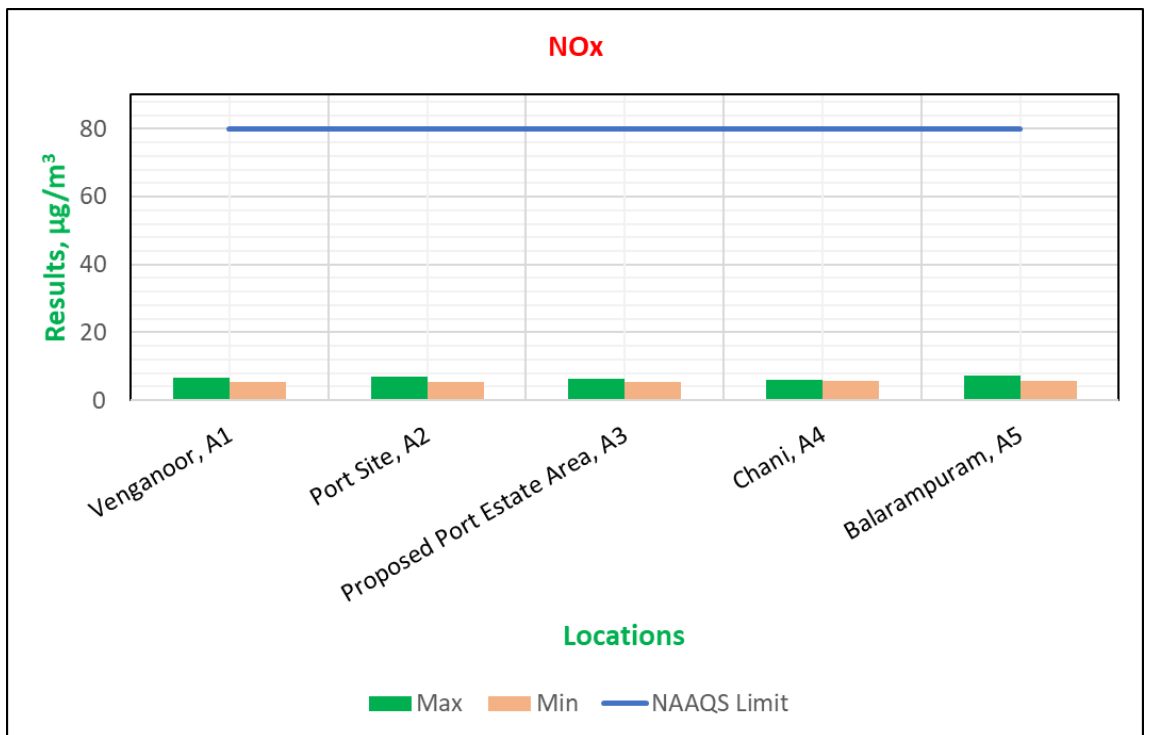
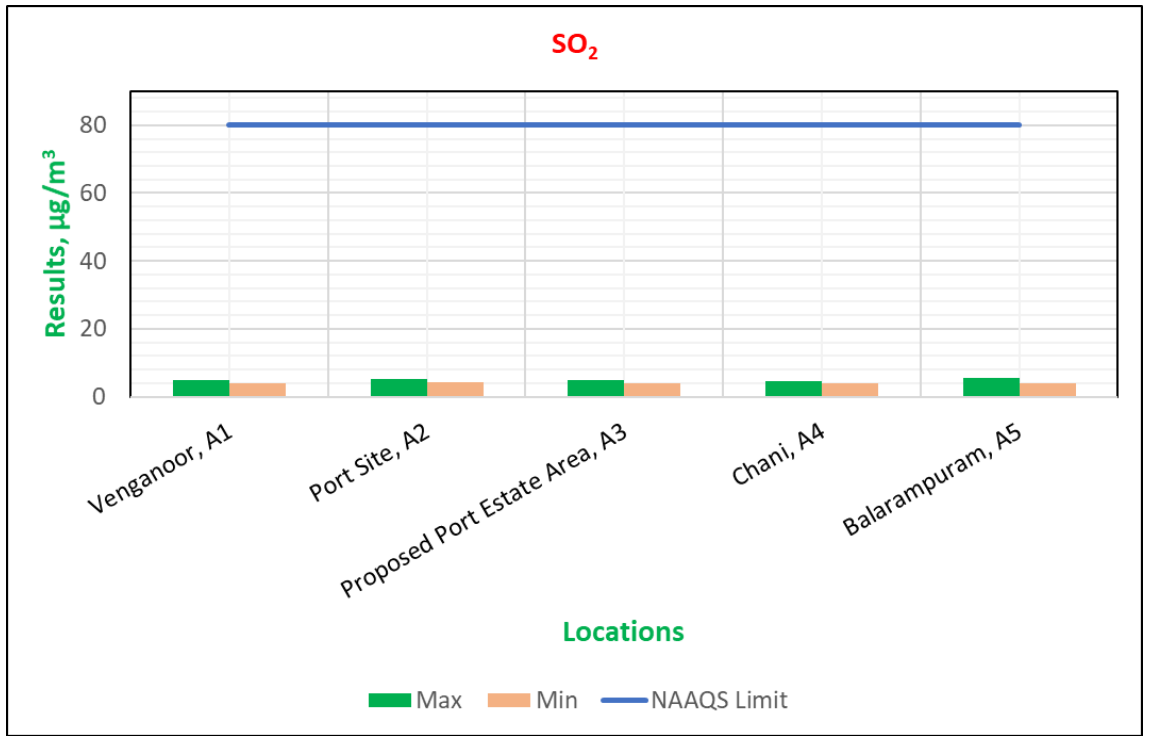
Sl. No.	Environmental Attribute	Location
1.	Ambient Air Quality Monitoring	Venganoor (A1)
		Port Site (A2)
		Proposed Port Estate Area (A3)
		Chani (A4)
		Balarampuram (A5)
2.	Ambient Noise	Venganoor (Residential) (N1)
		Port Site (Industrial) (N2)
		Proposed Port Estate Area (Residential) (N3)
		Chani (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)
6.	Soil	Port Site
		Proposed Port Estate Area
		Mullor (Along the road network)
		Balarampuram (Along the rail network)

## 1. Summary of Environmental Monitoring Results for the Month of May 2023:

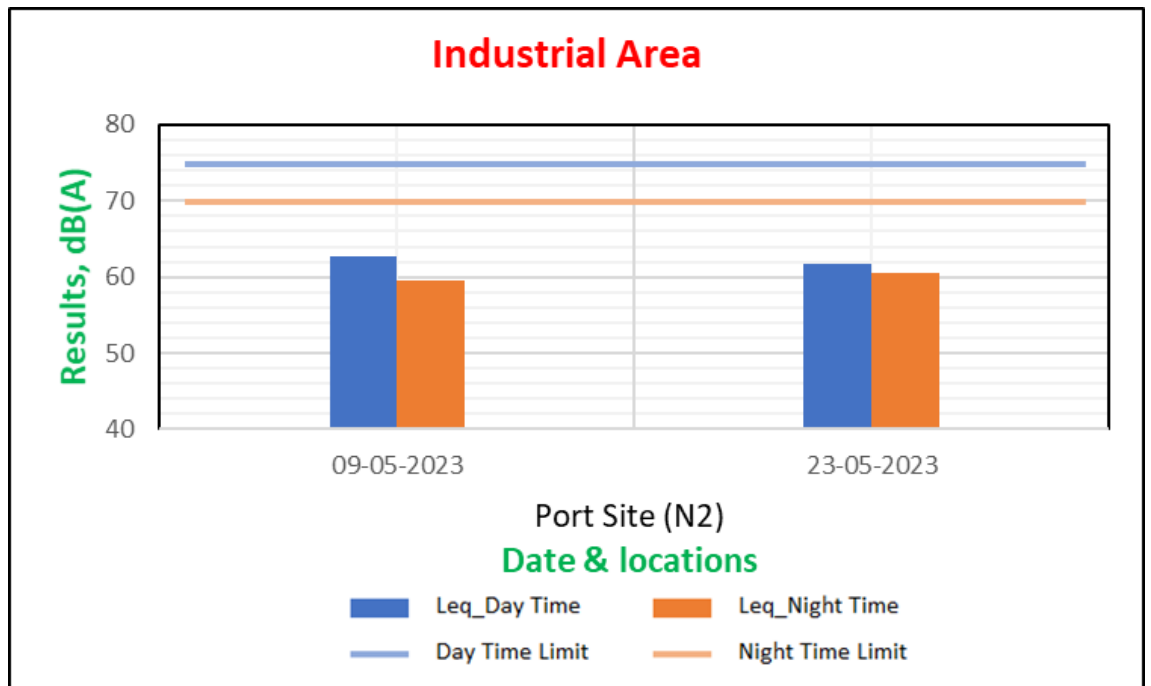
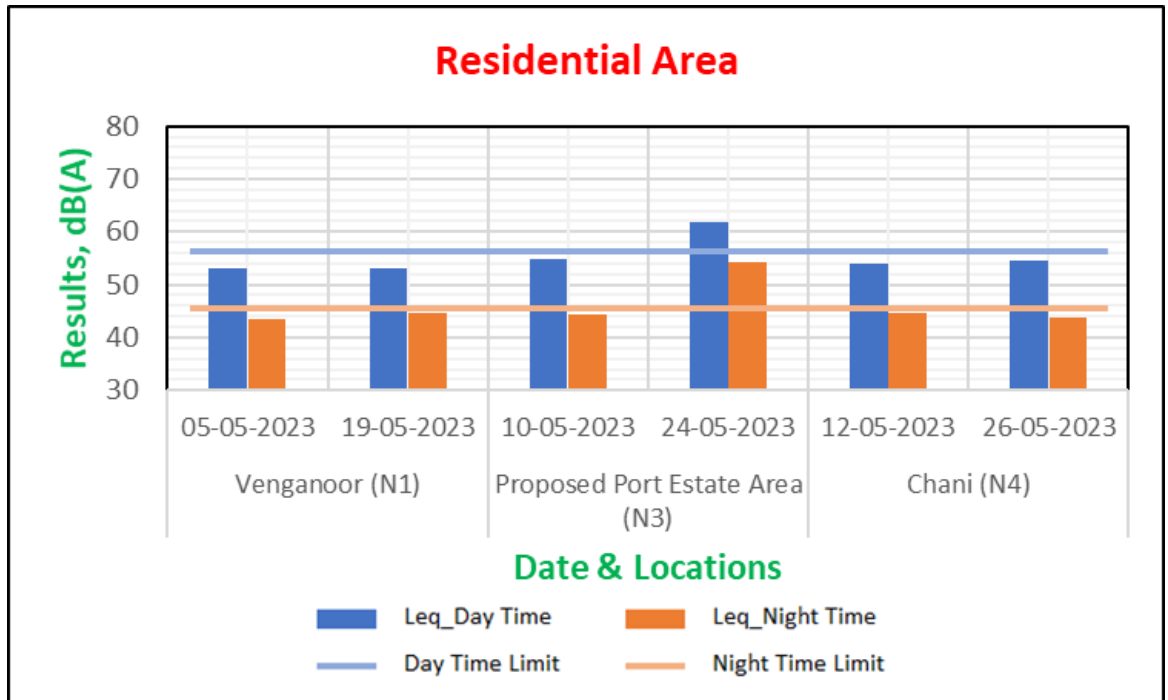
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations.
- Noise readings were within limits at all the monitoring locations except Proposed Port Estate Area on 24-05-2023.
- Marine water and sediment samples 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 is not used for drinking purposes.
- Surface water sample results were observed to be comparable with the baseline.

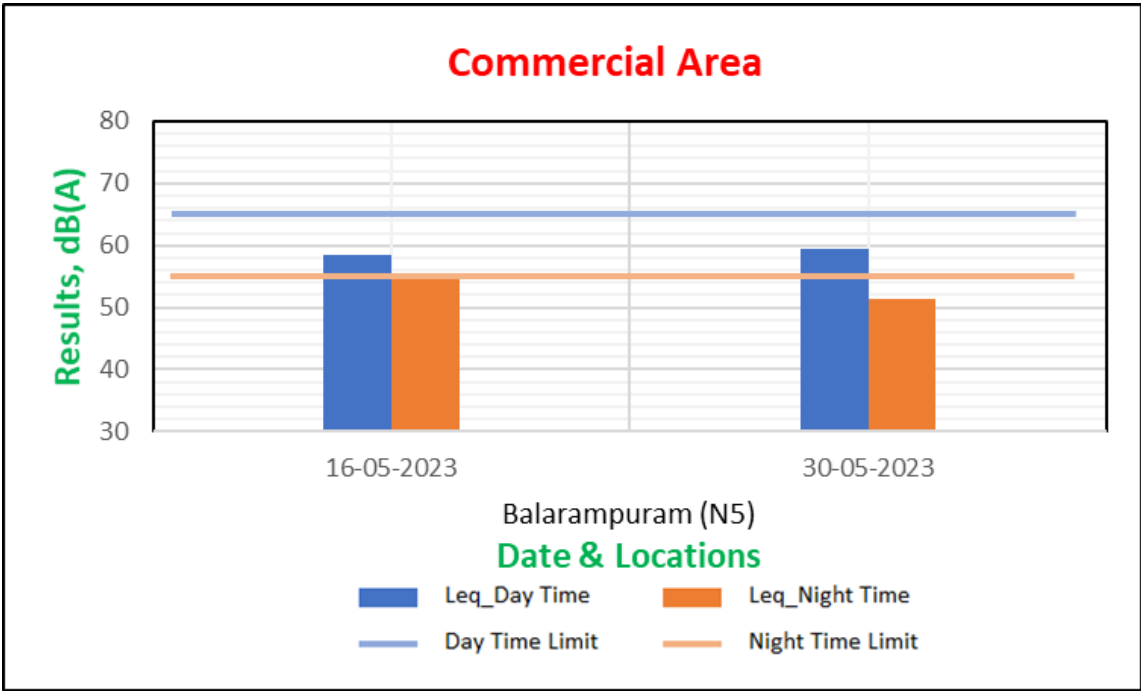
## 2. Ambient Air Quality





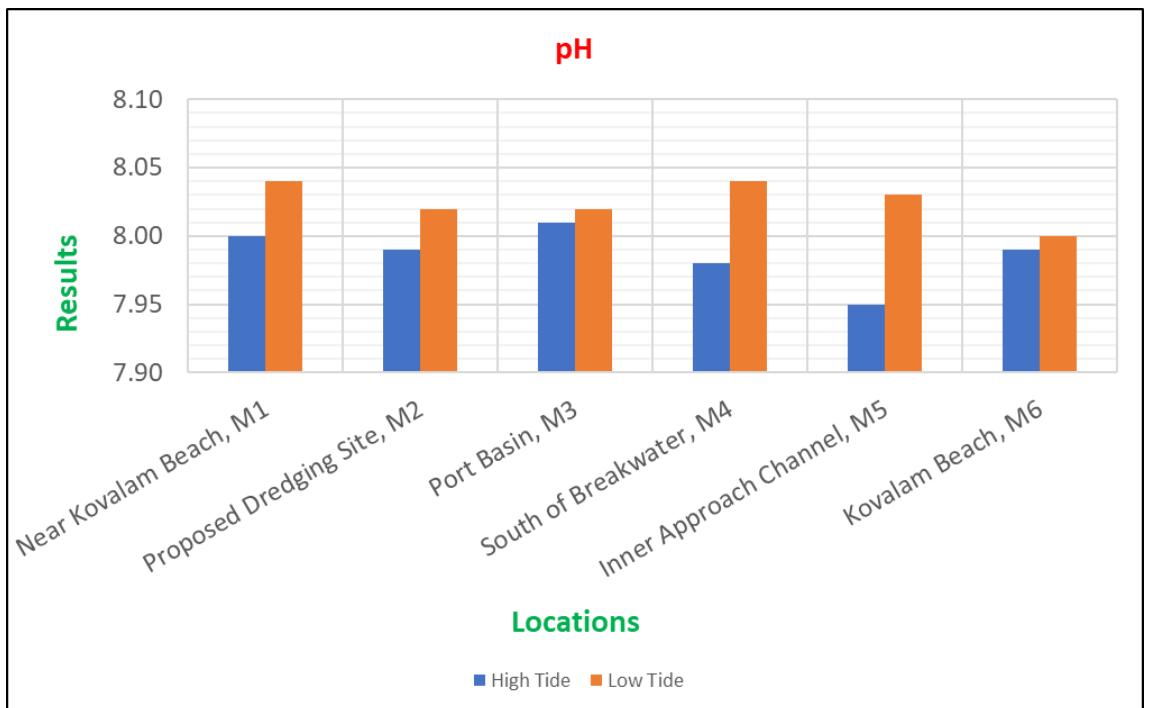
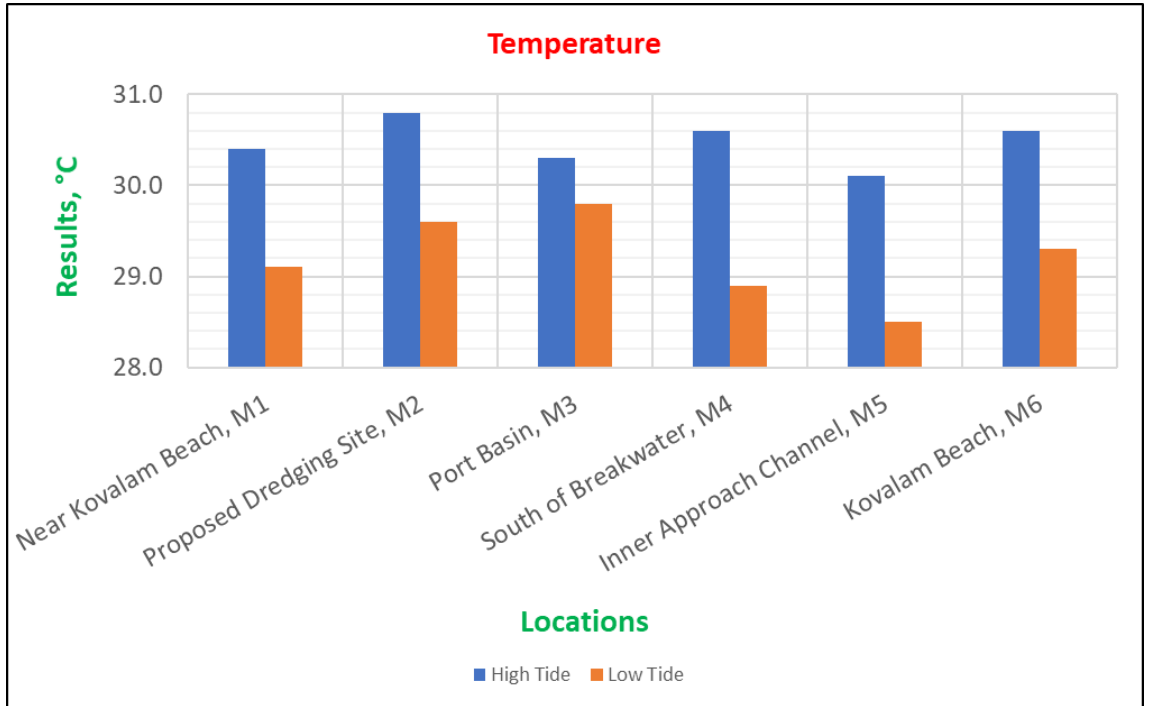
### 3. Ambient Noise



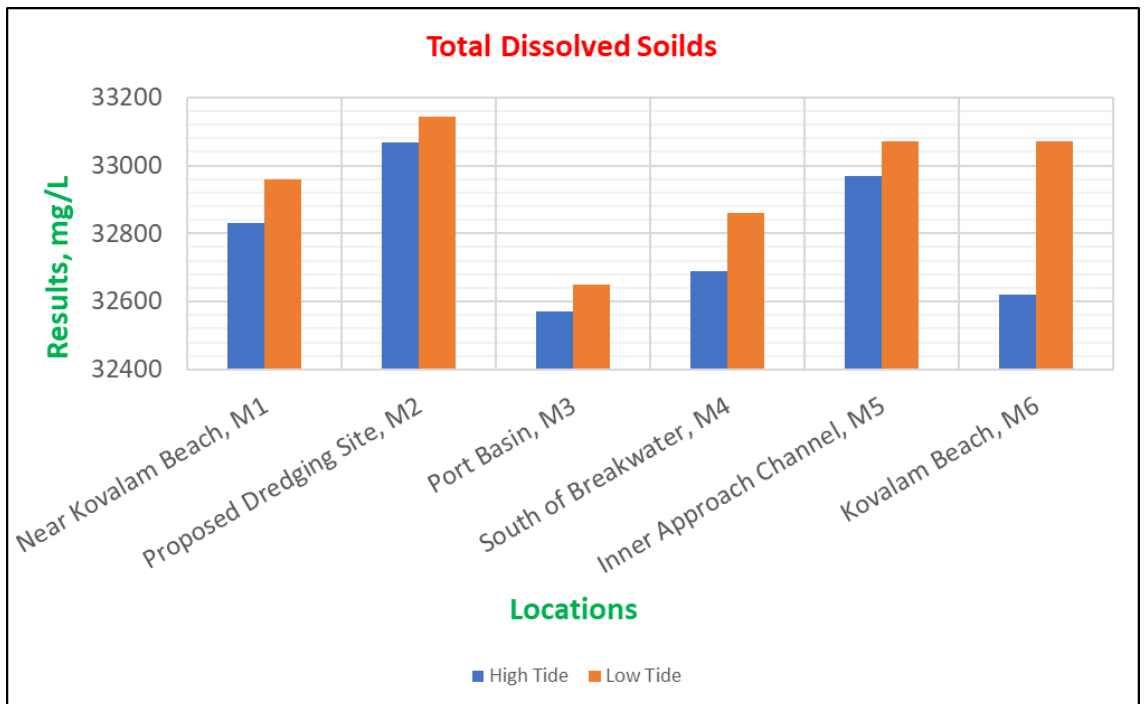
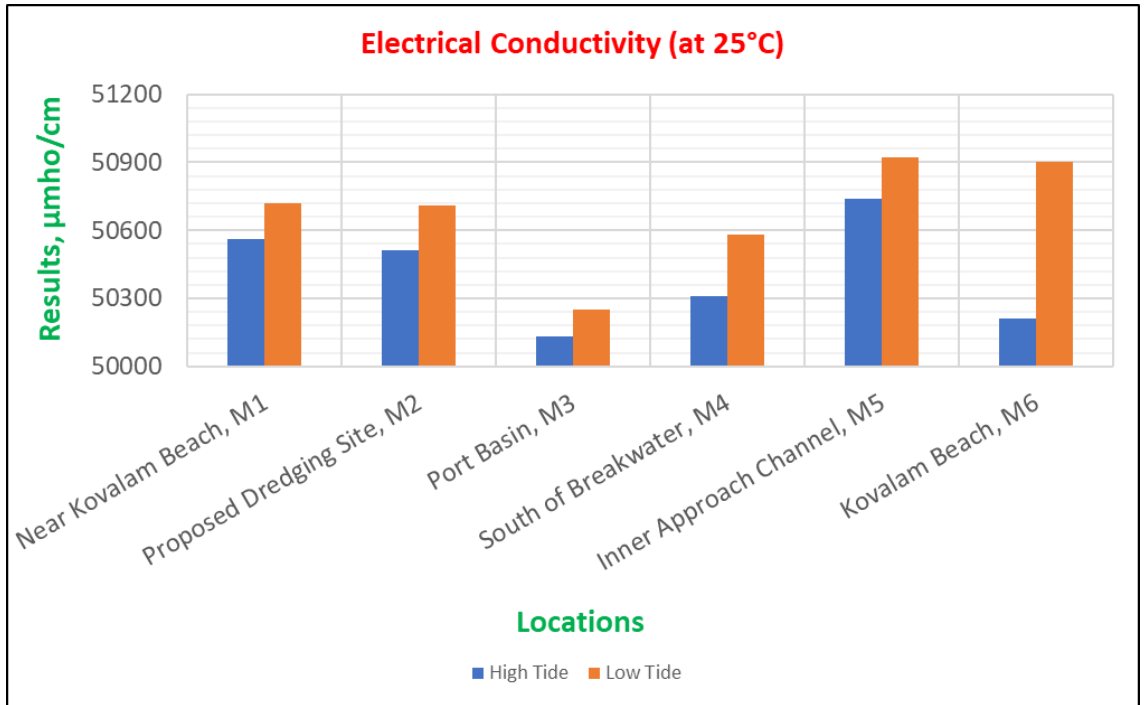


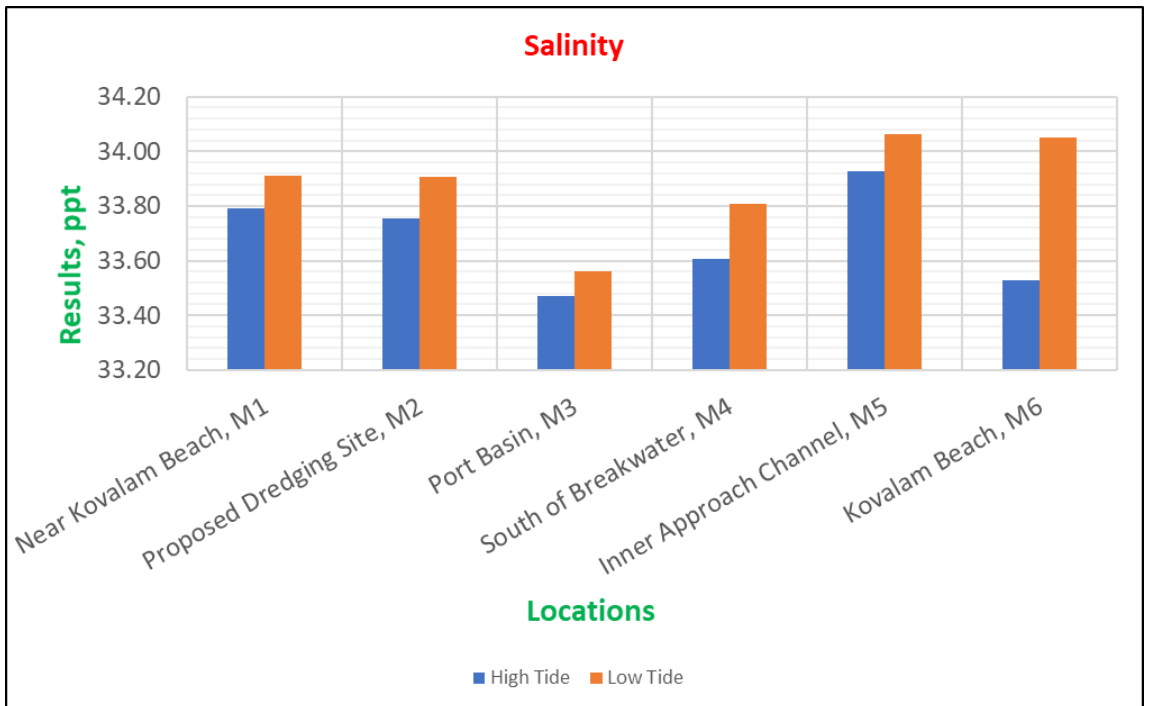
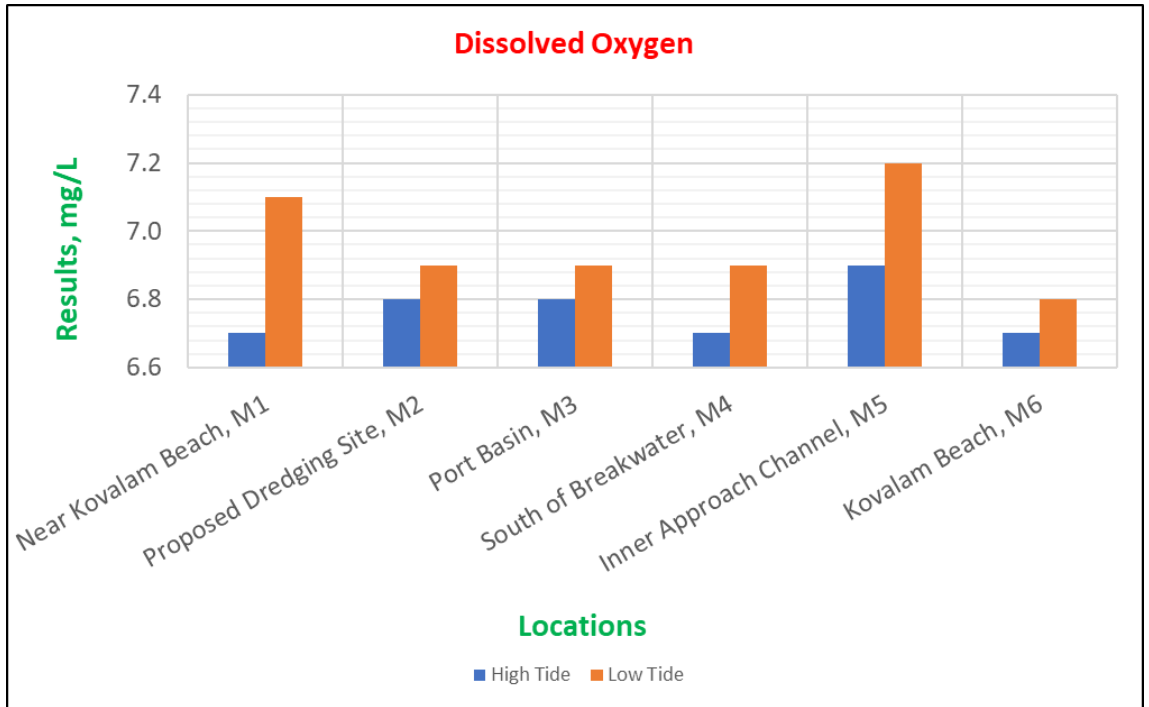
## 4. Marine Survey

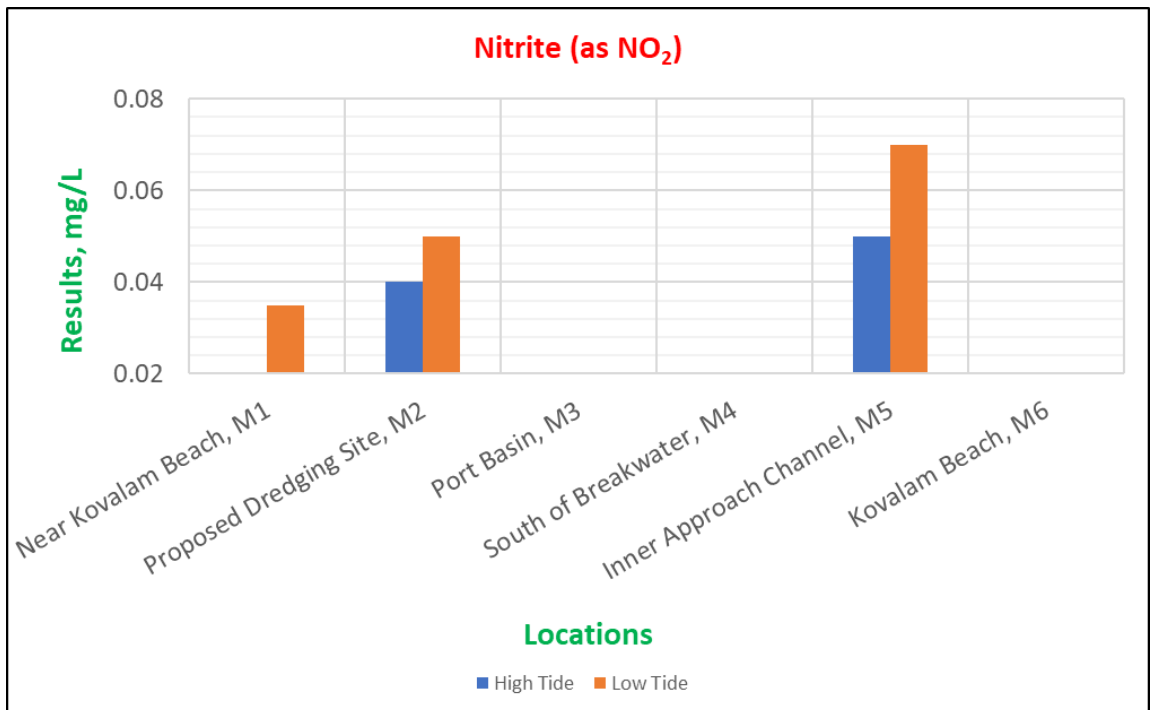
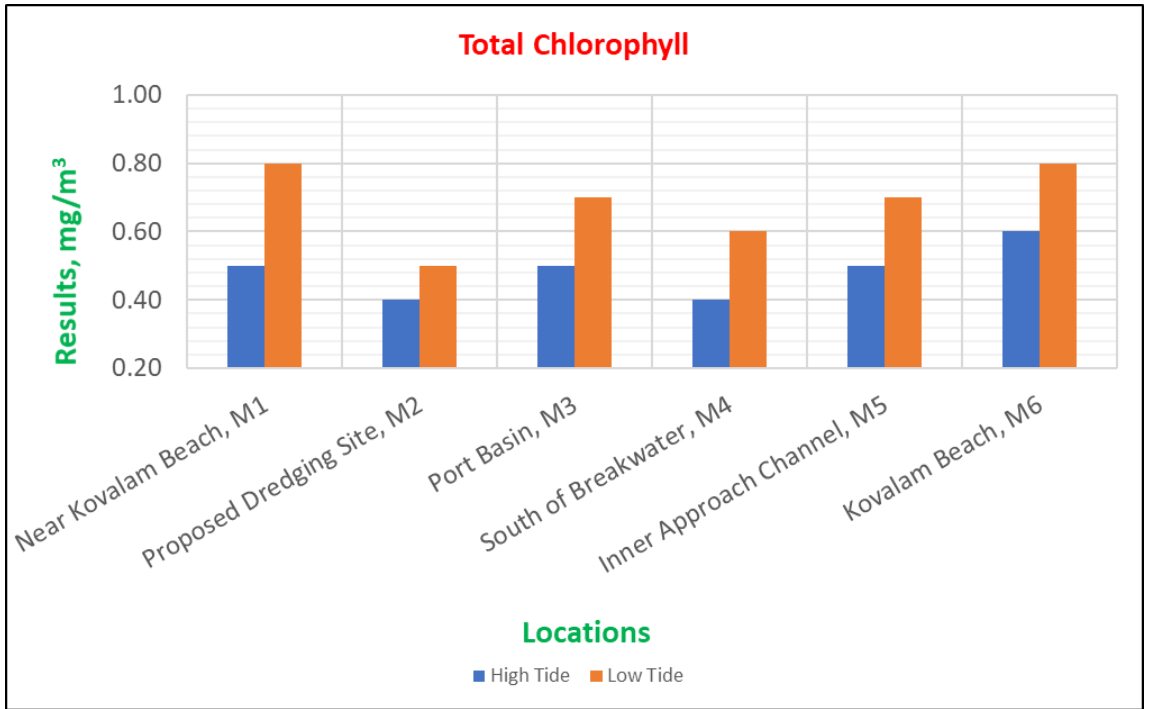
### 4 a. Marine Water Analysis



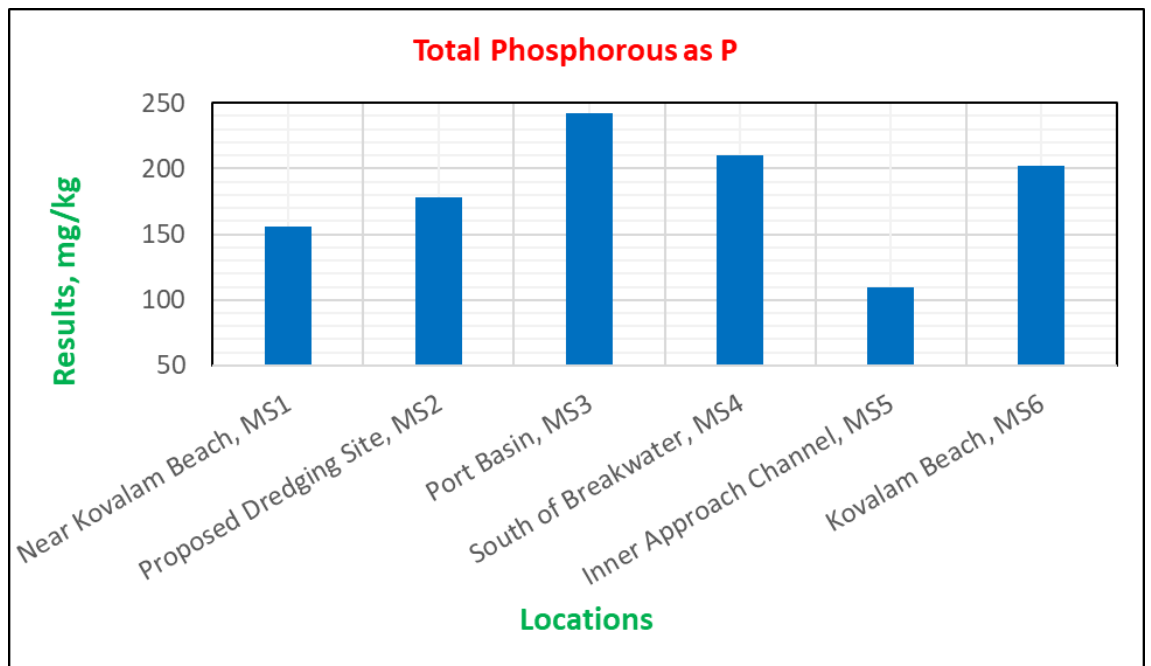
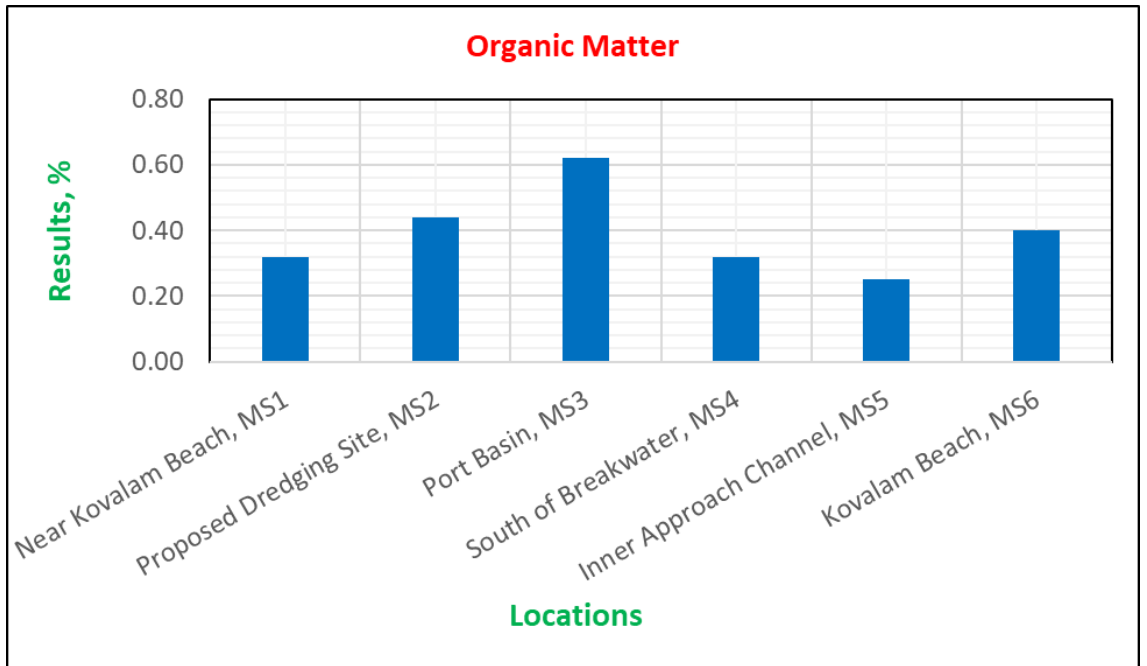


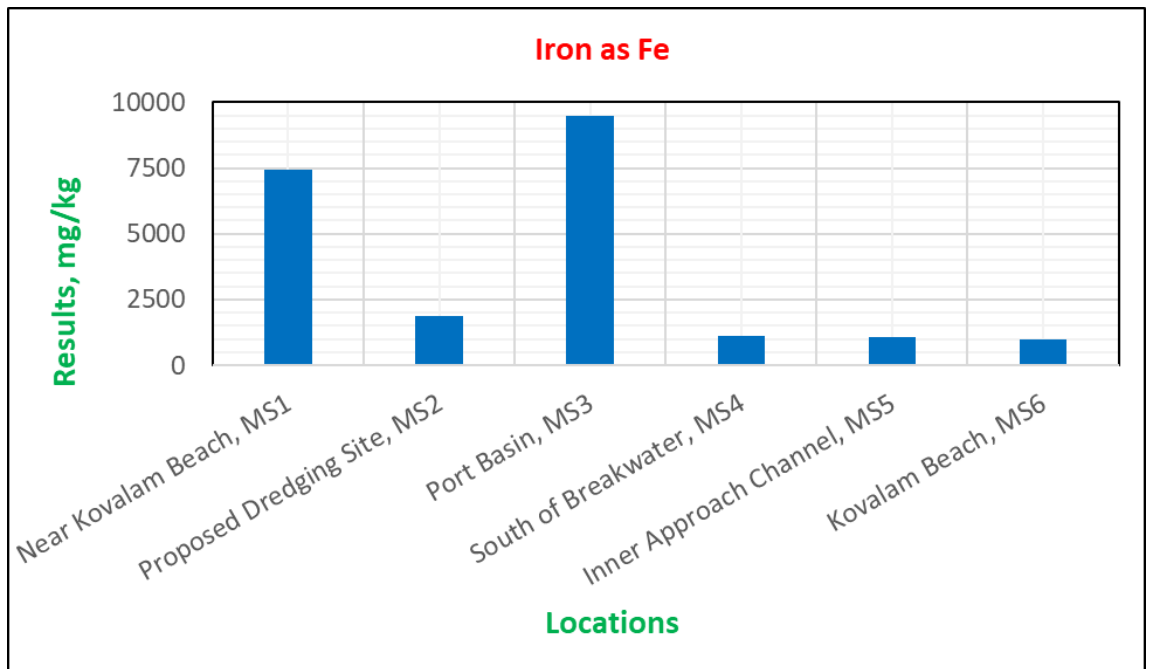
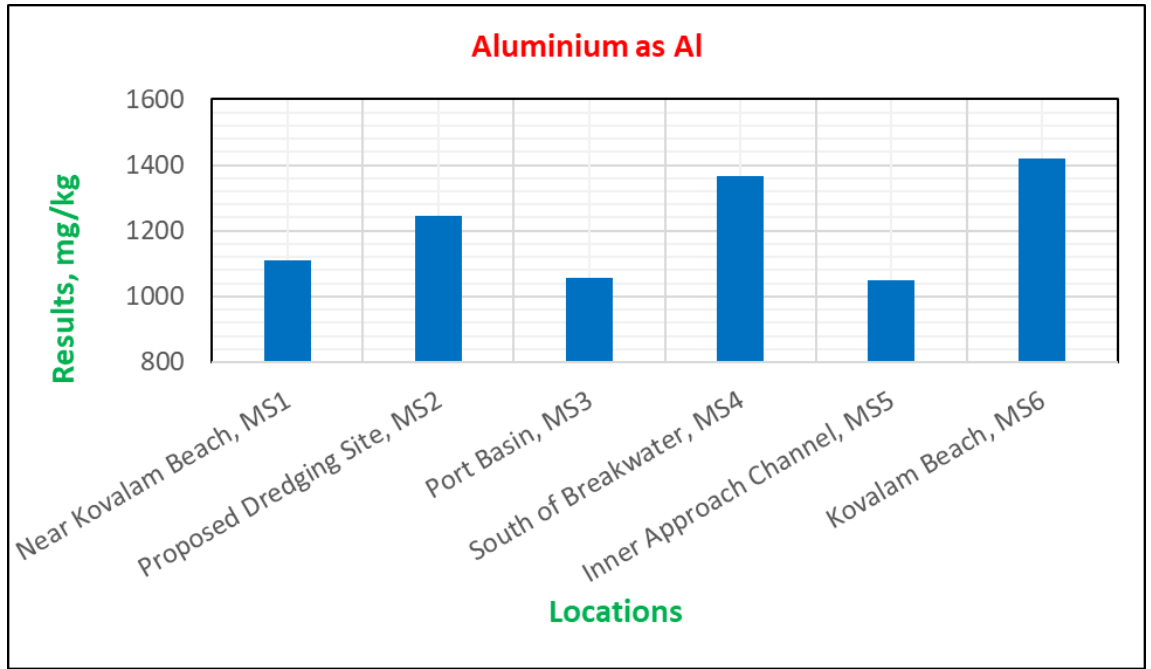


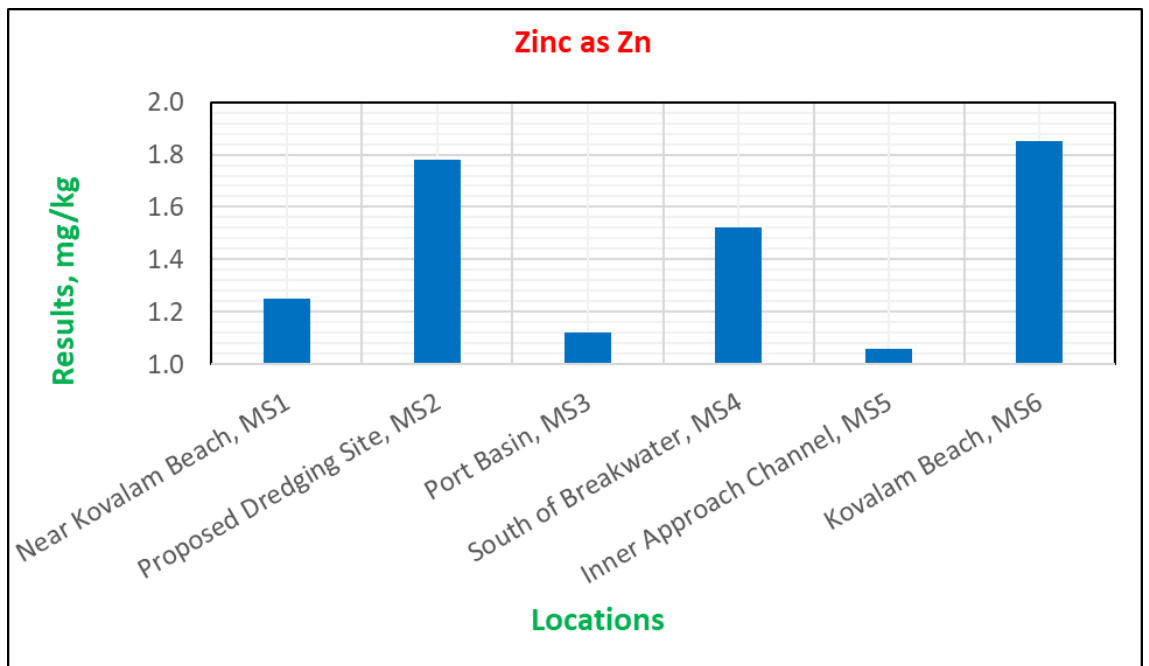
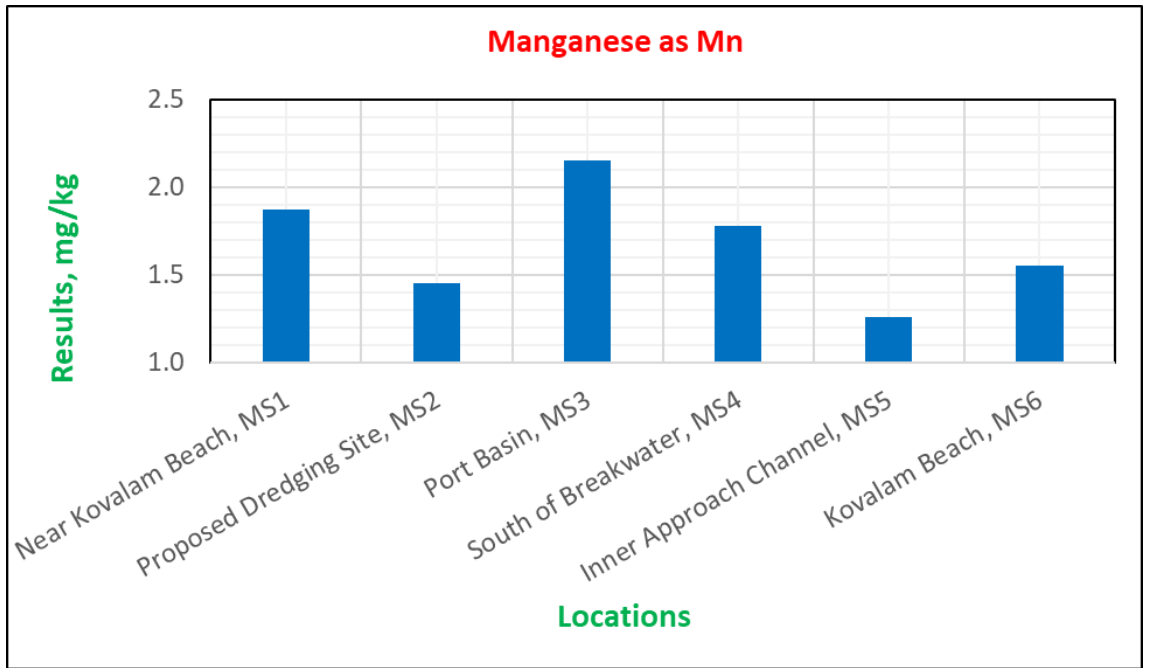


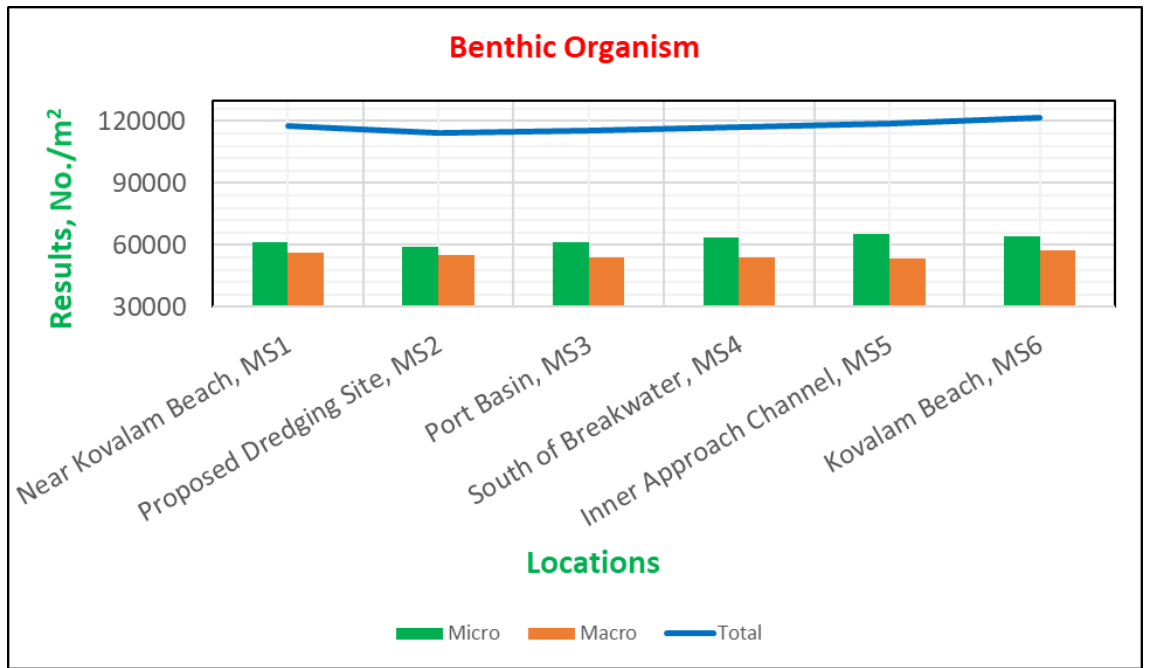


## 4 b. Sediment Analysis

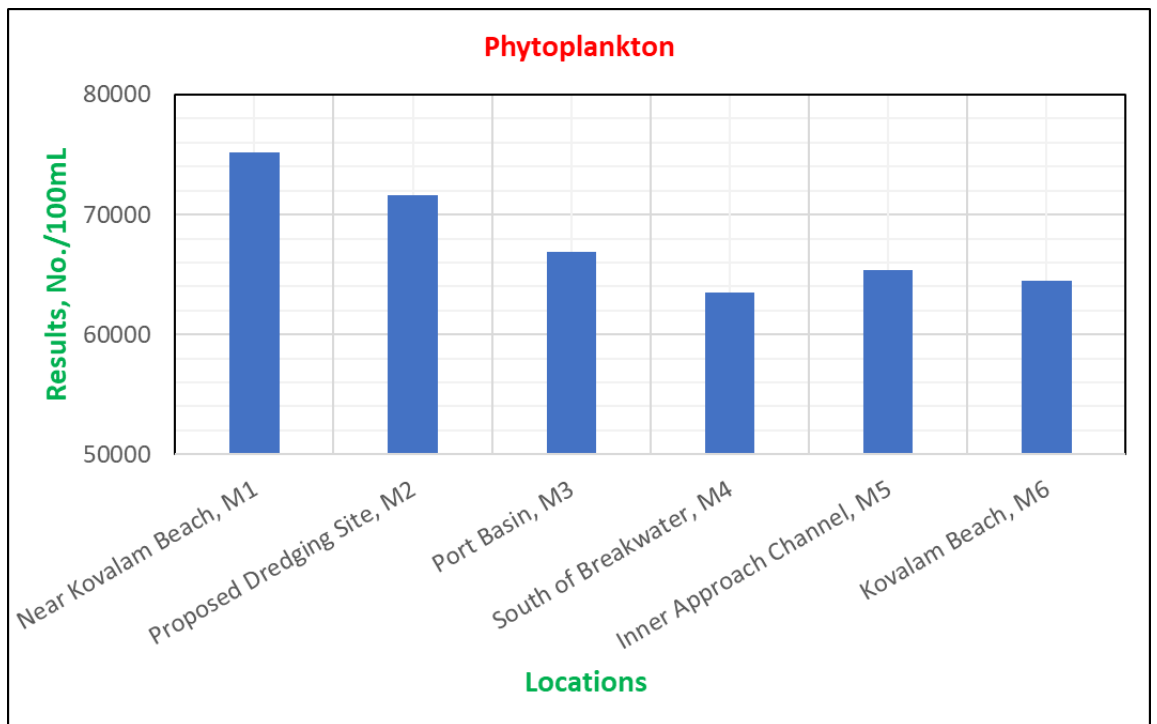




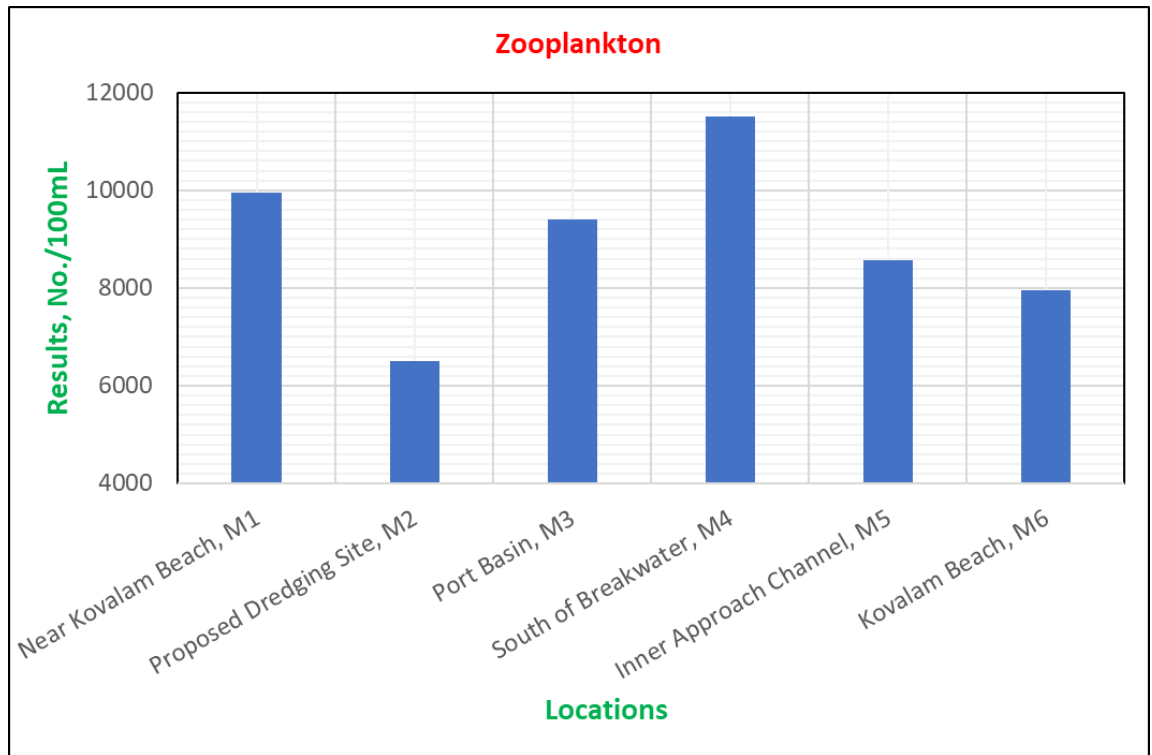




#### 4 c. Phytoplankton Analysis from Marine Samples

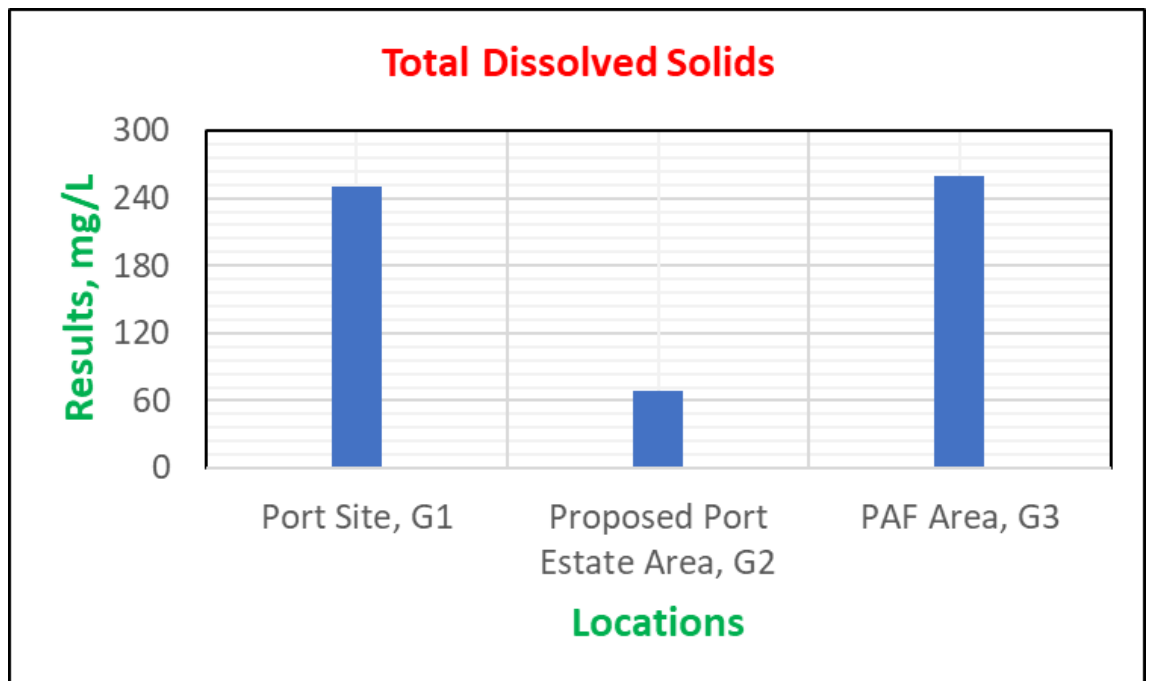
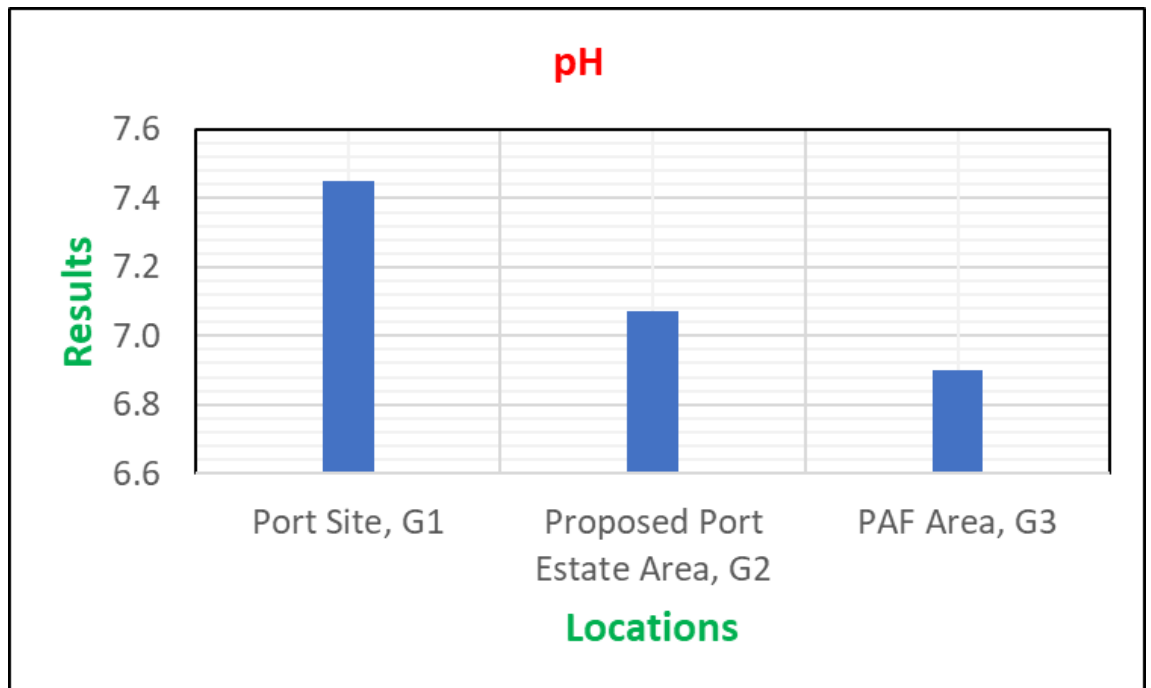


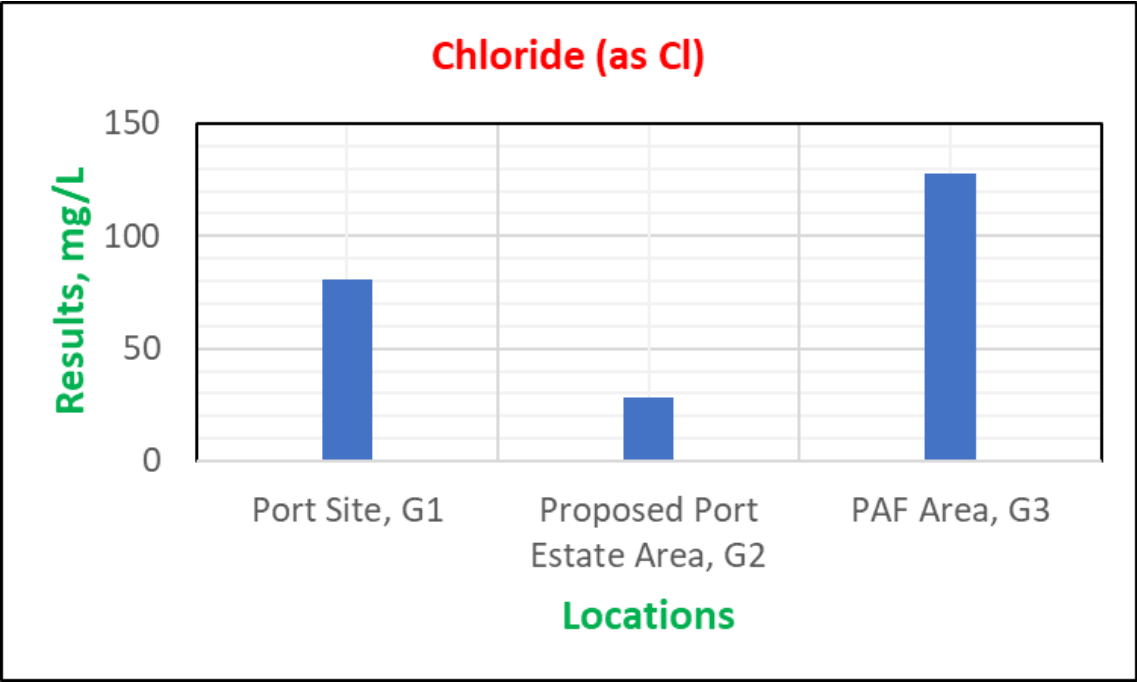
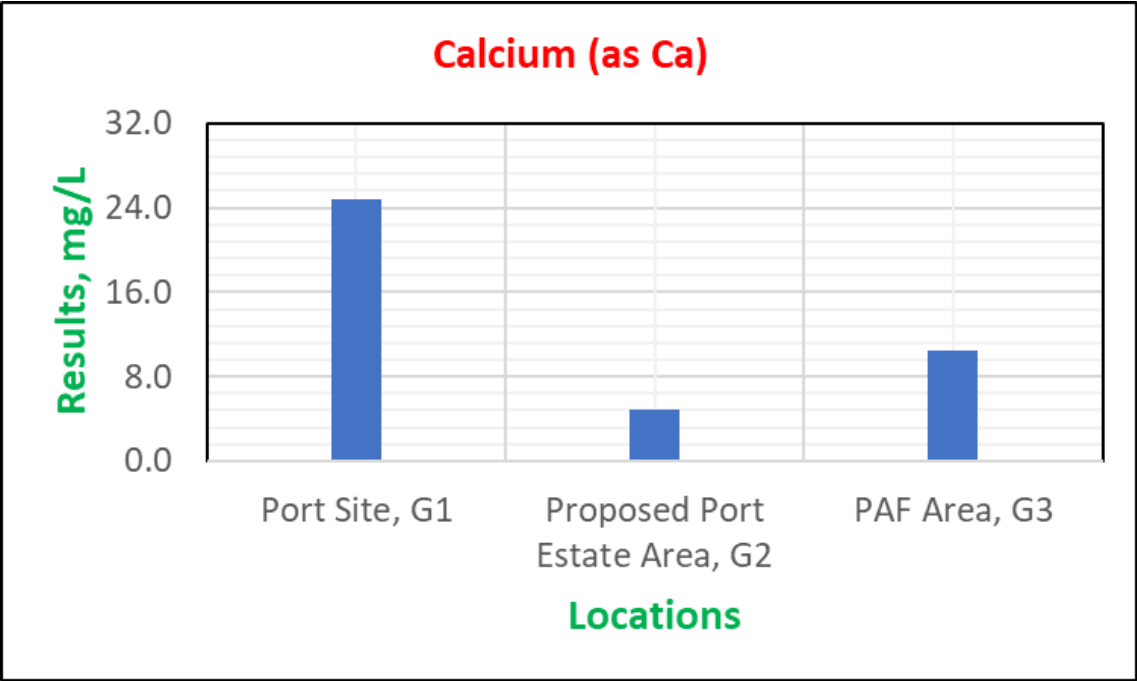
#### 4 d. Zooplankton Analysis from Marine Sample

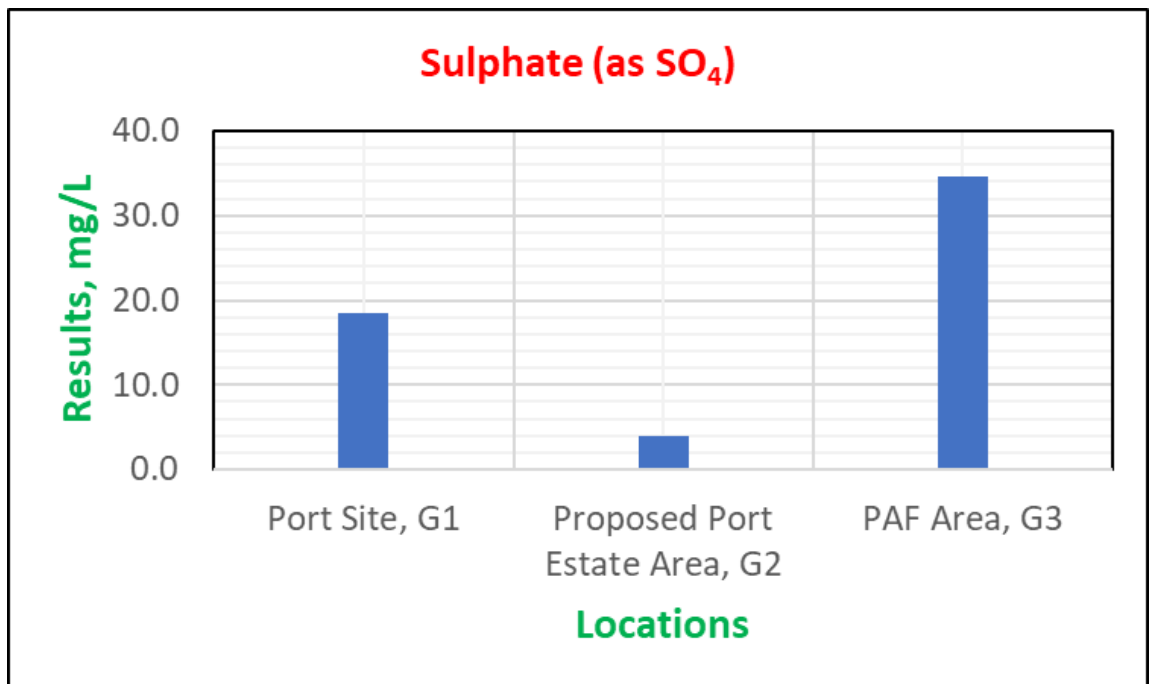
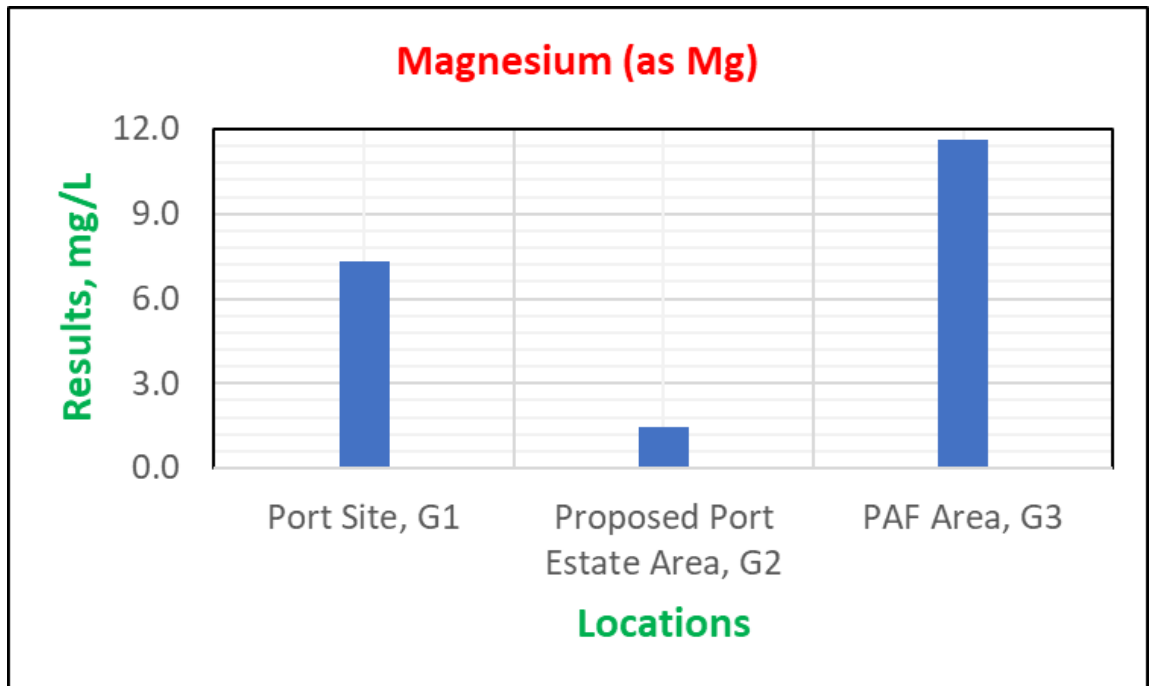


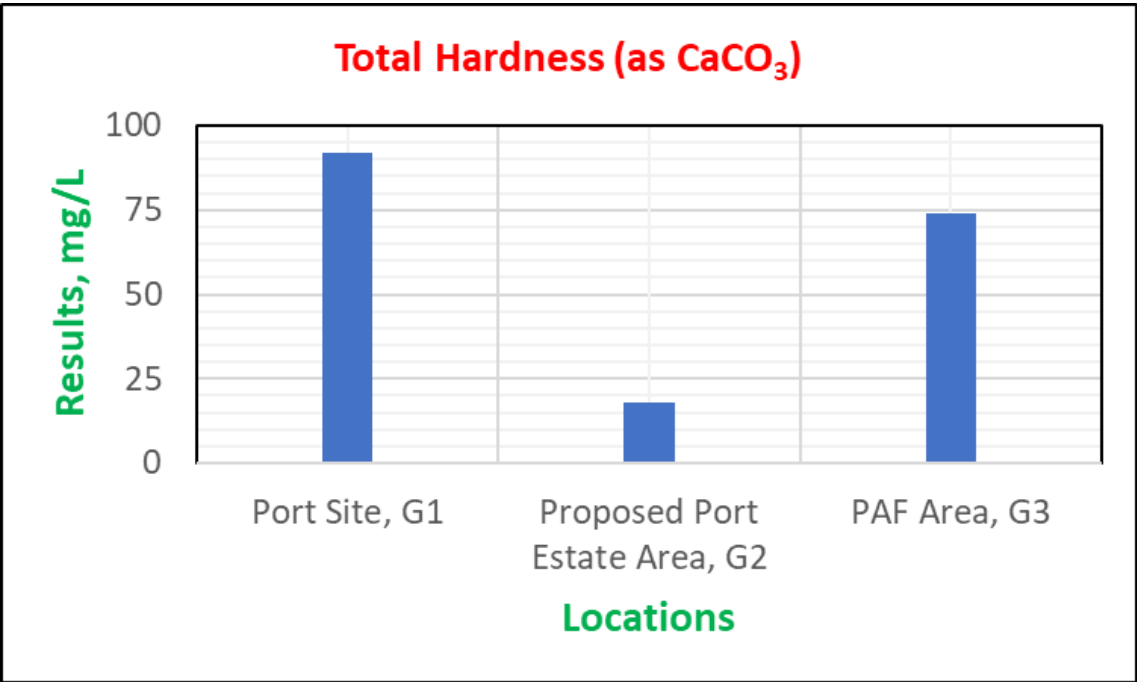
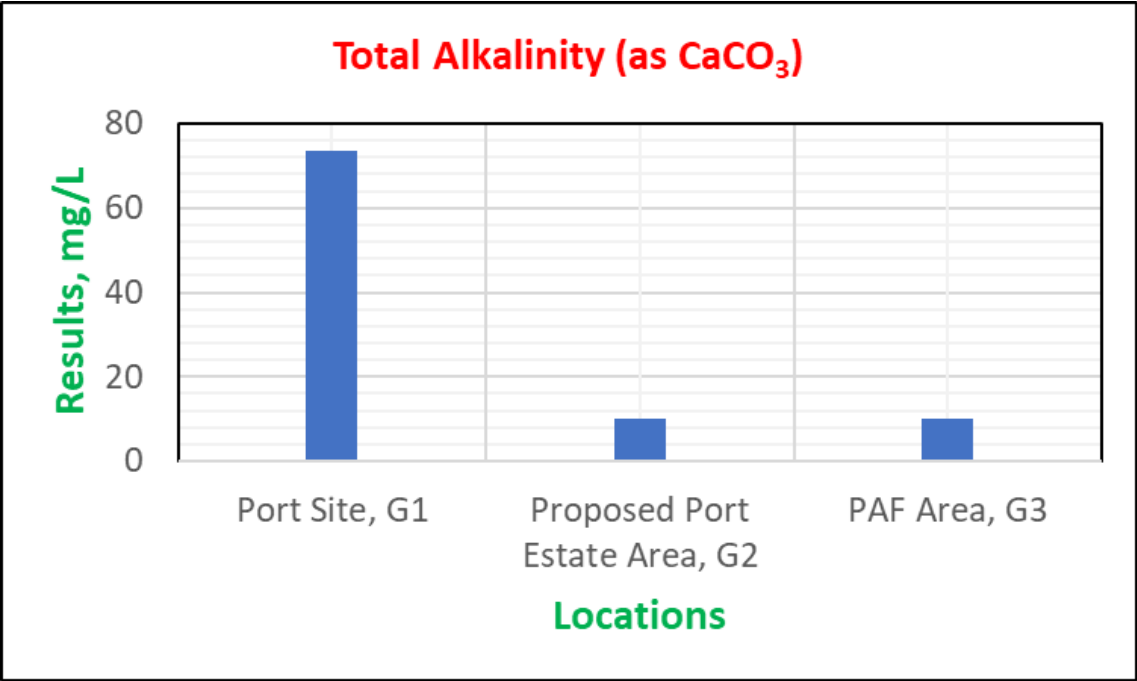


## 5. Groundwater Analysis









## 6. Surface Water Analysis

