

# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

December – 2021

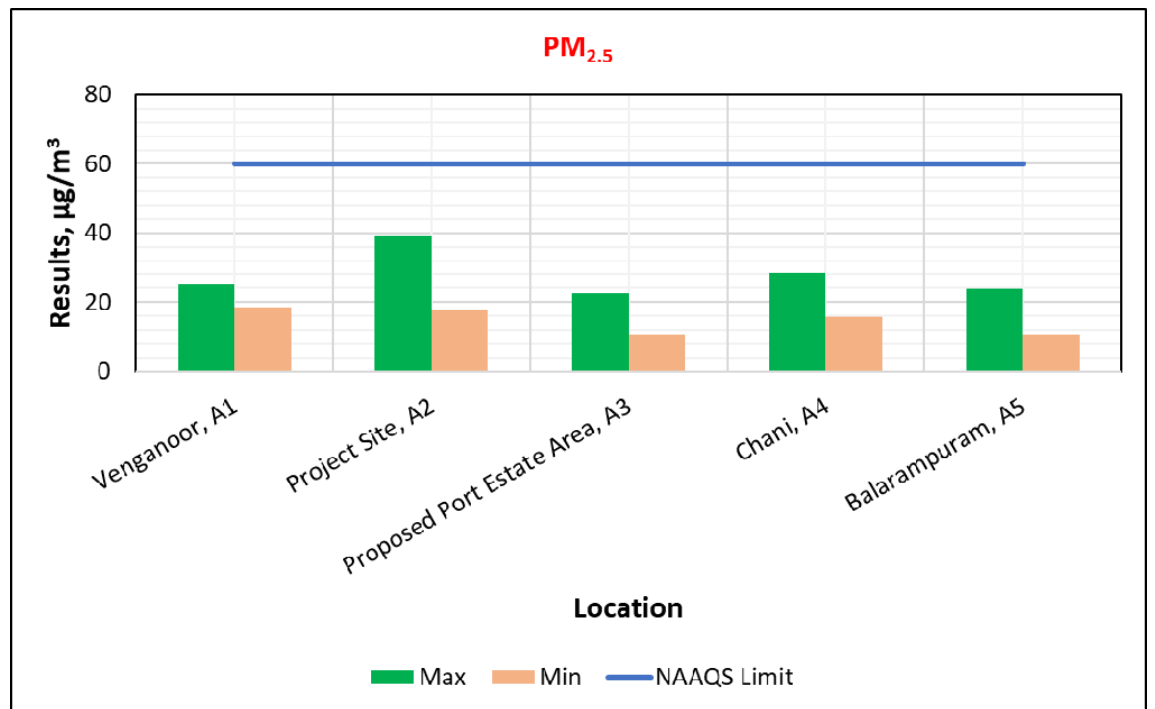
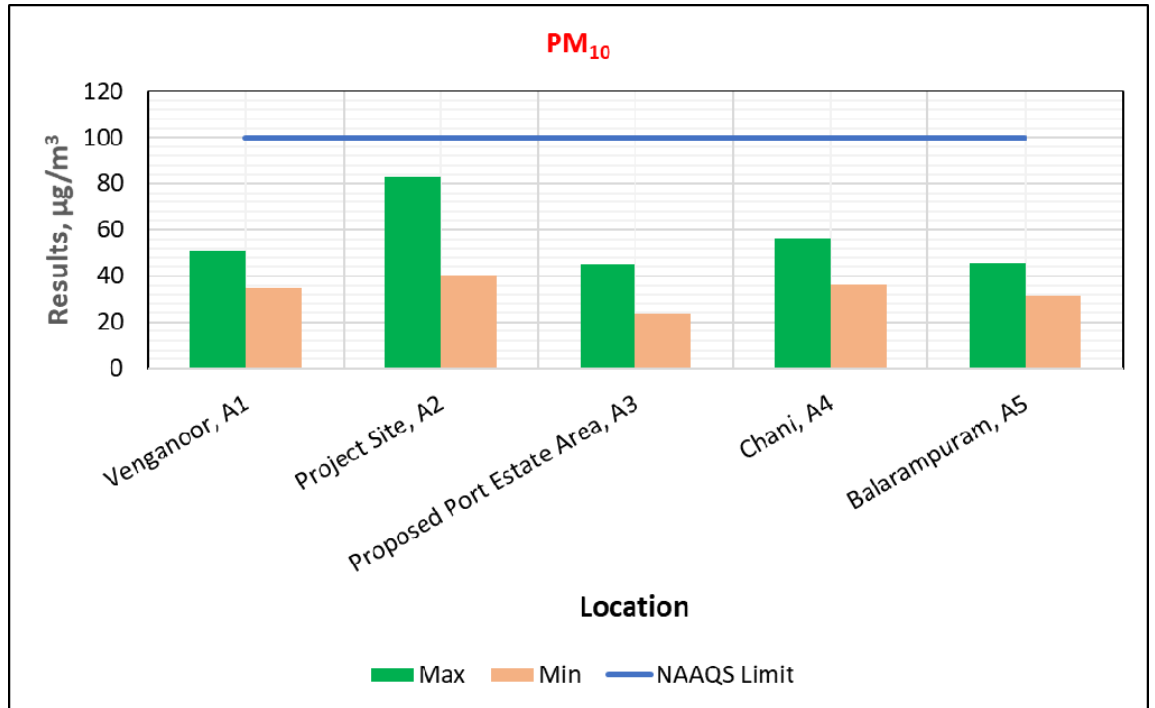
## Environment Monitoring Locations:

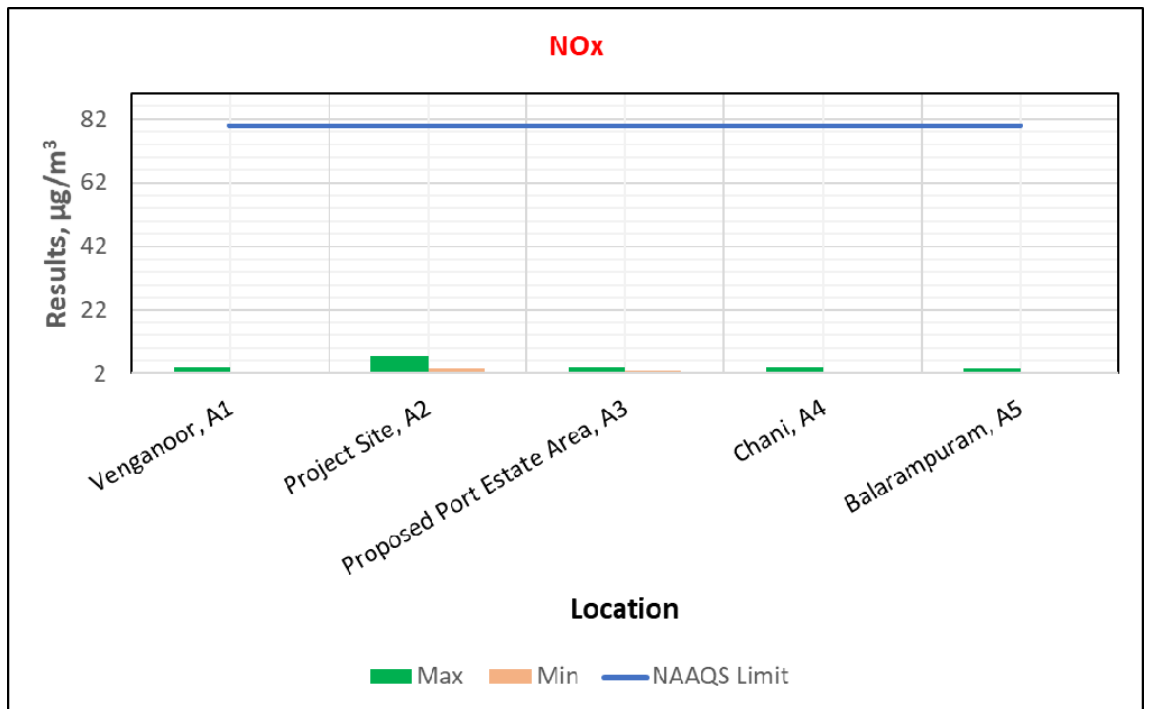
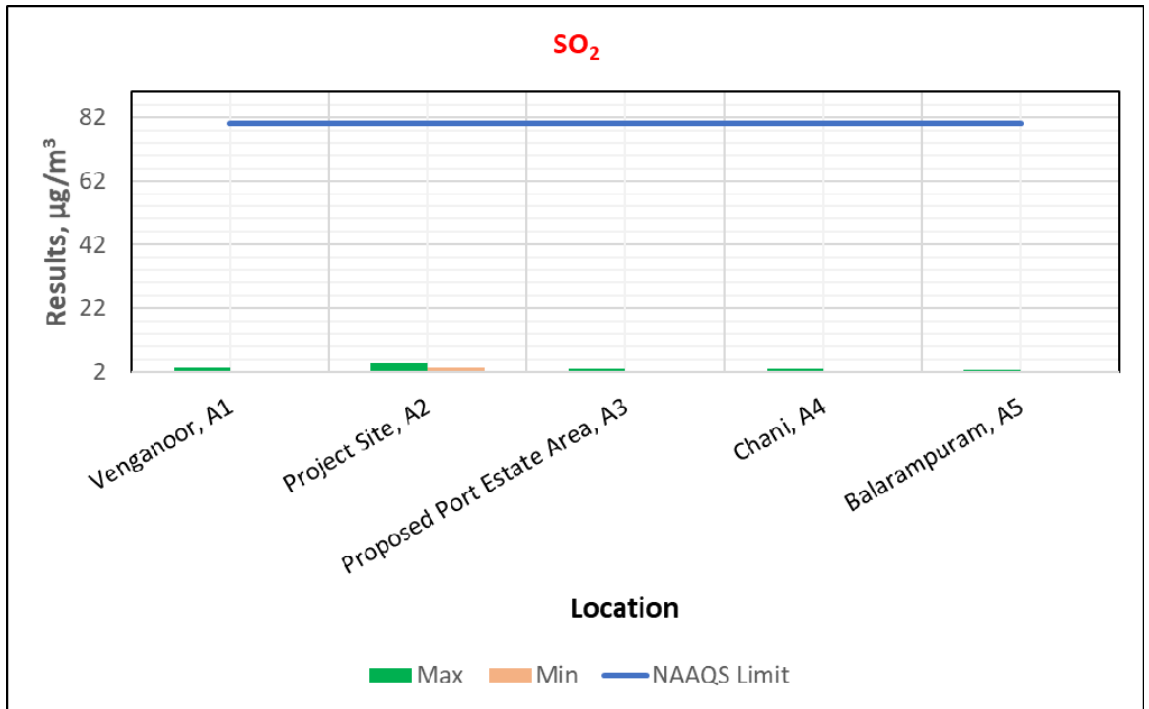
Sl. No.	Environmental Attribute	Location
1.	Ambient Air Quality Monitoring	Port Site (A1)
		Proposed Port Estate Area (A2)
		Chani (A3)
		Venganoor (A4)
		Balarampuram (A5)
2.	Ambient Noise	Port Site (Industrial) (N1)
		Proposed Port Estate Area (Commercial) (N2)
		Chani (Residential) (N3)
		Venganoor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

## 1. Summary of Environmental Monitoring Results for the Month of December 2021:

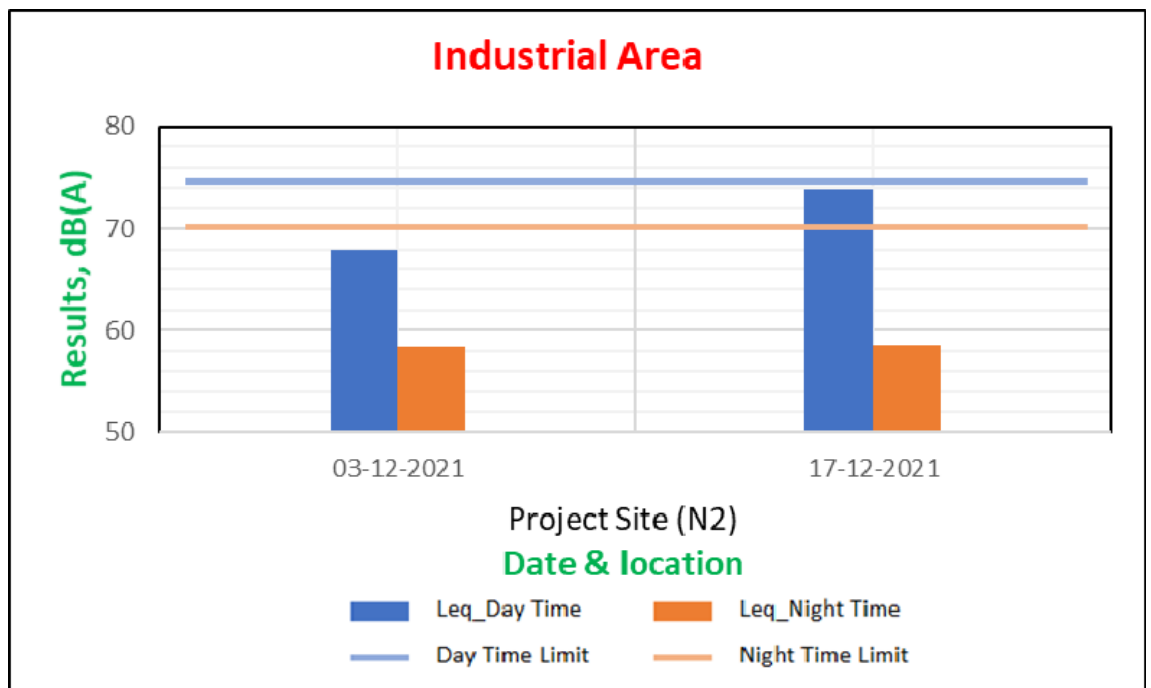
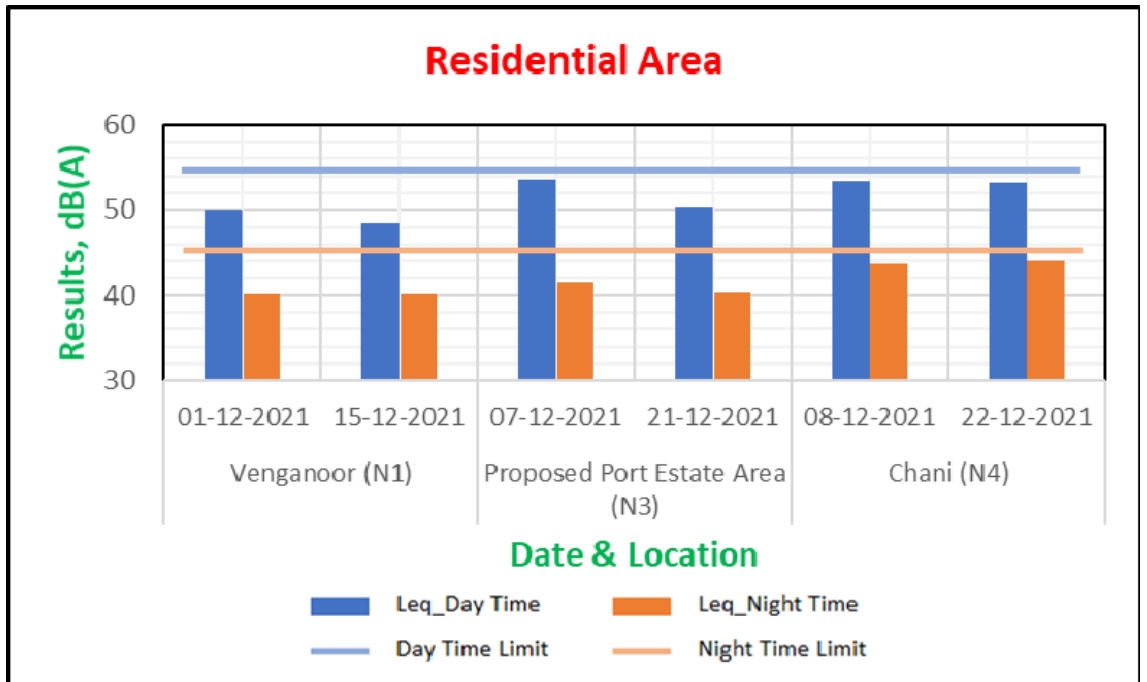
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations.
- Noise readings were within limits at all the monitoring locations.
- Marine water and sediment samples results were observed to be comparable with the baseline.
- Ground water samples at all locations excluding the parameters Turbidity at Port Site Area, Turbidity & Iron at PAF Area and Turbidity, Ammonia & TDS at Proposed Port Estate Area 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.

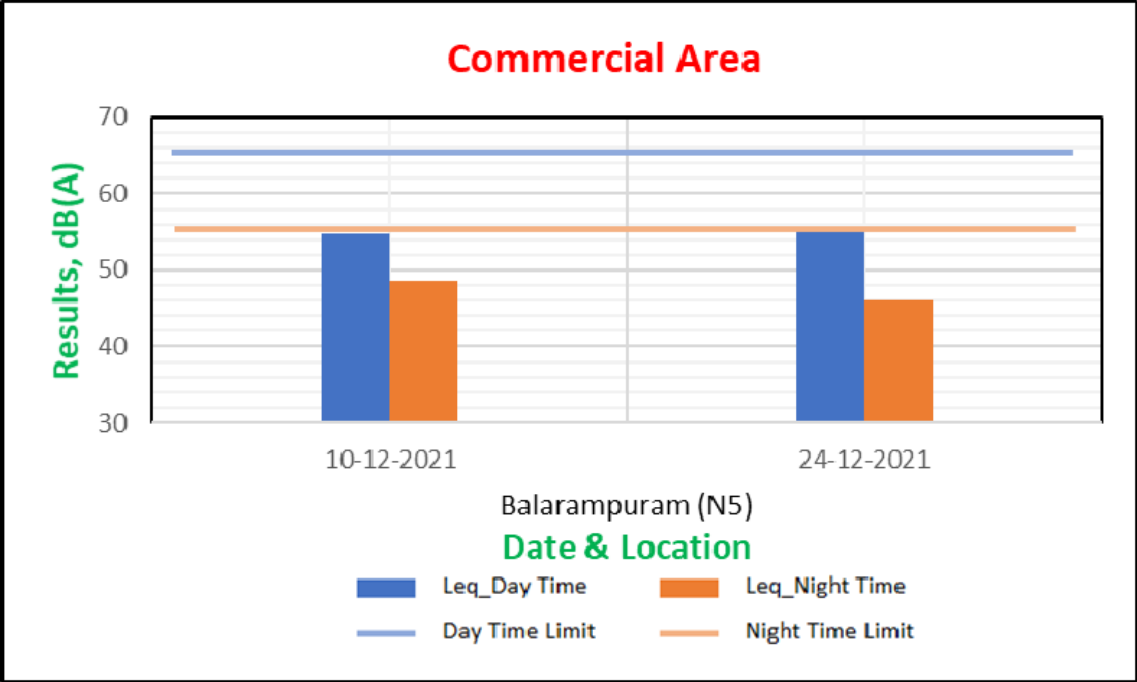
## 2. Ambient Air Quality





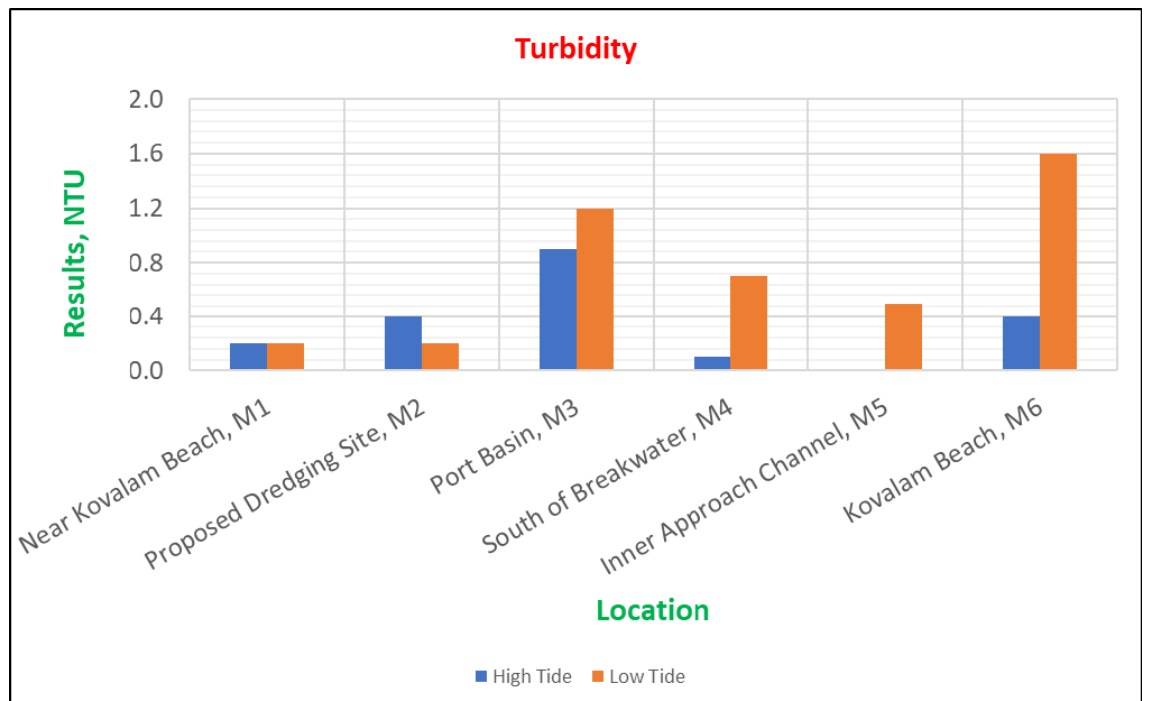
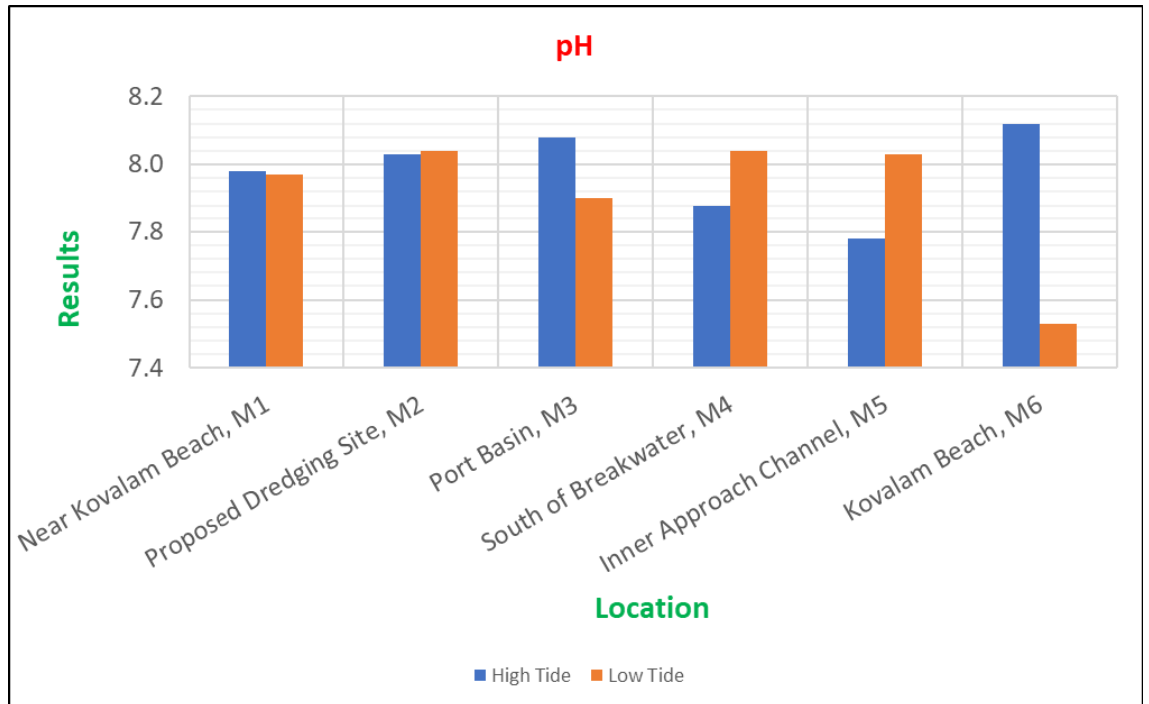
### 3. Ambient Noise



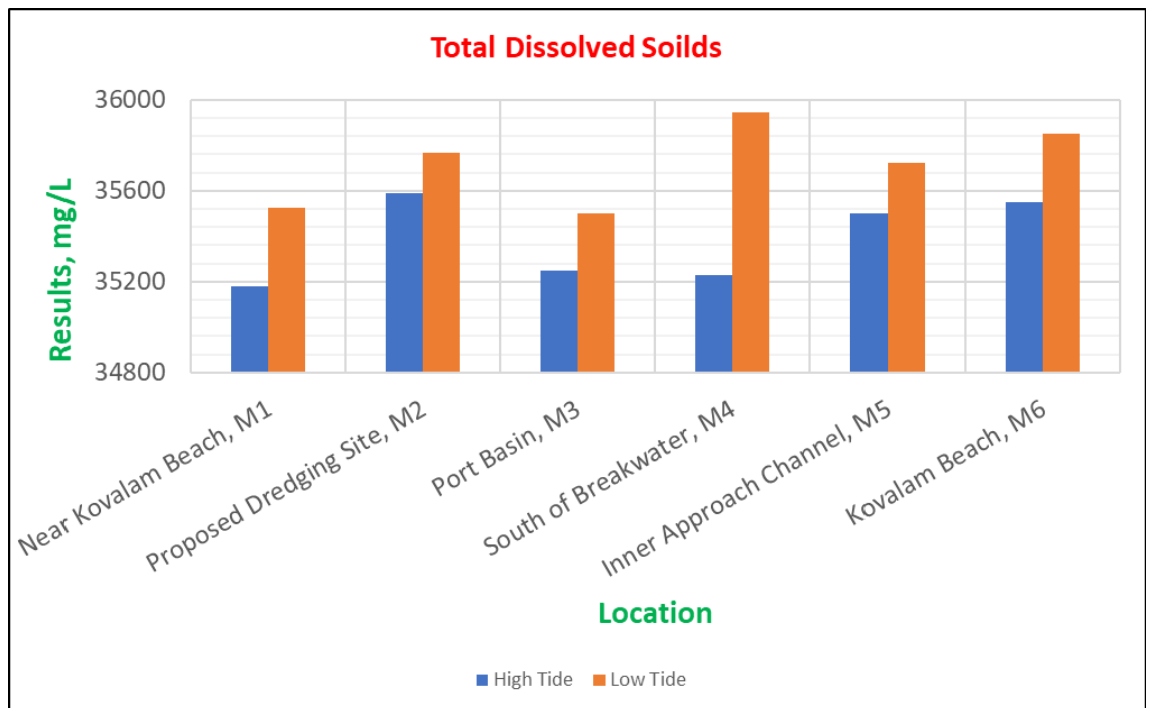
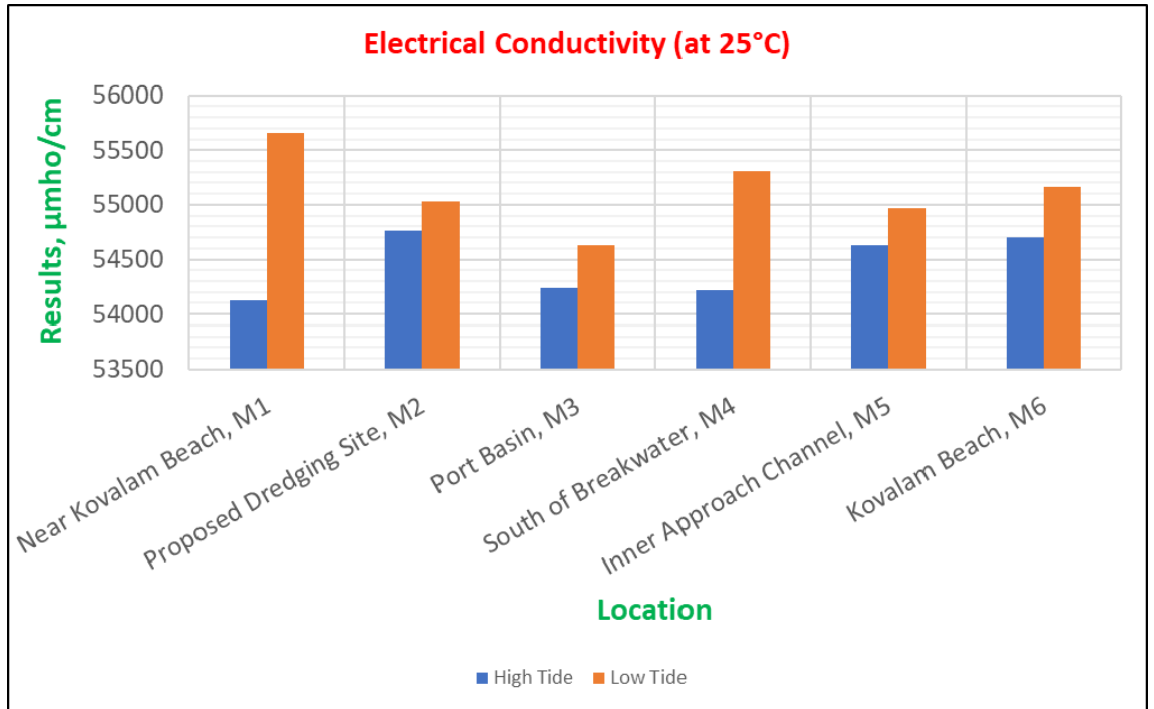


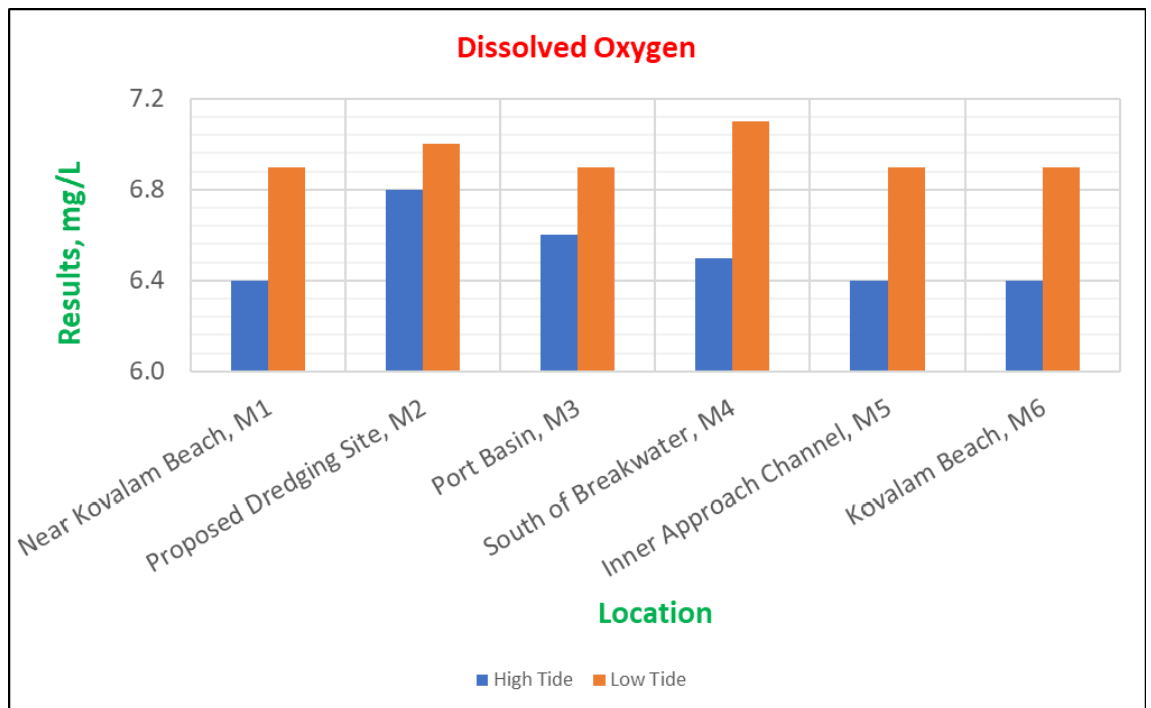
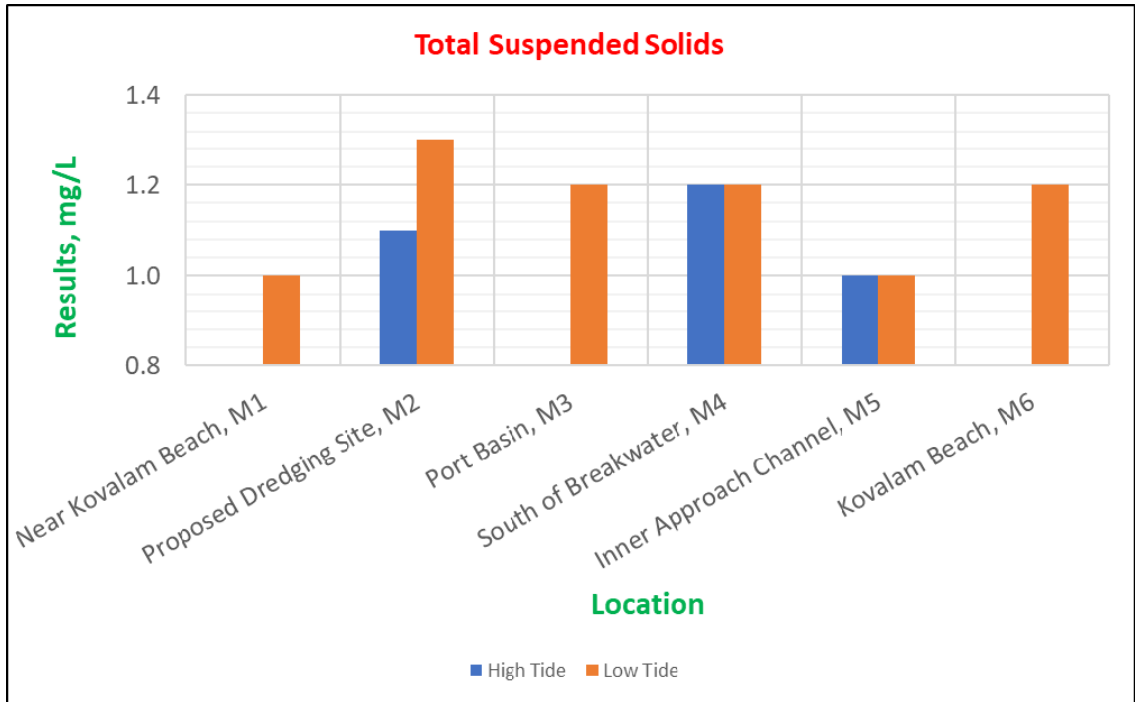
## 4. Marine Survey

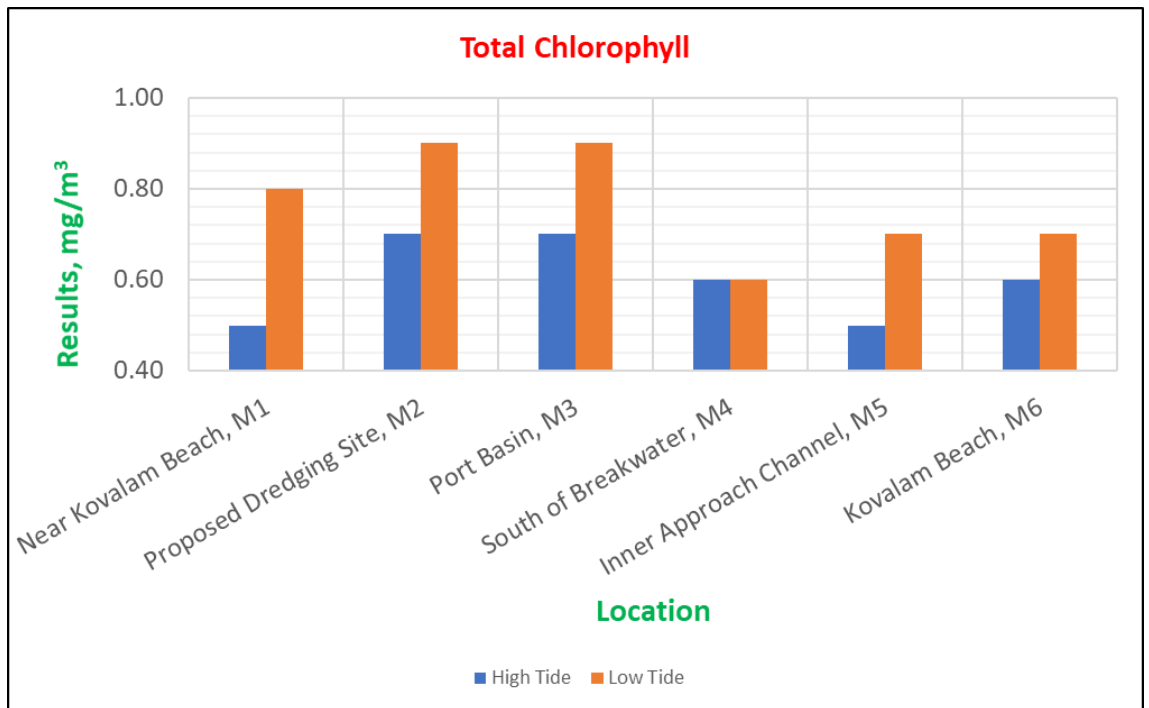
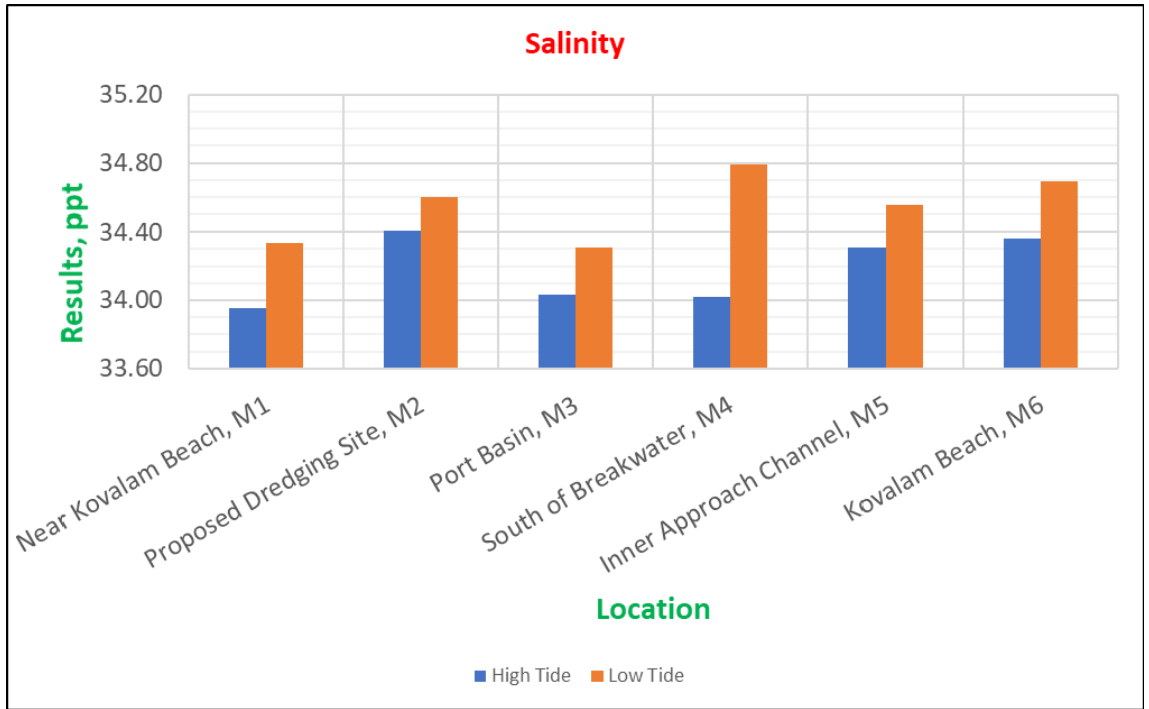
### 4 a. Marine Water Analysis



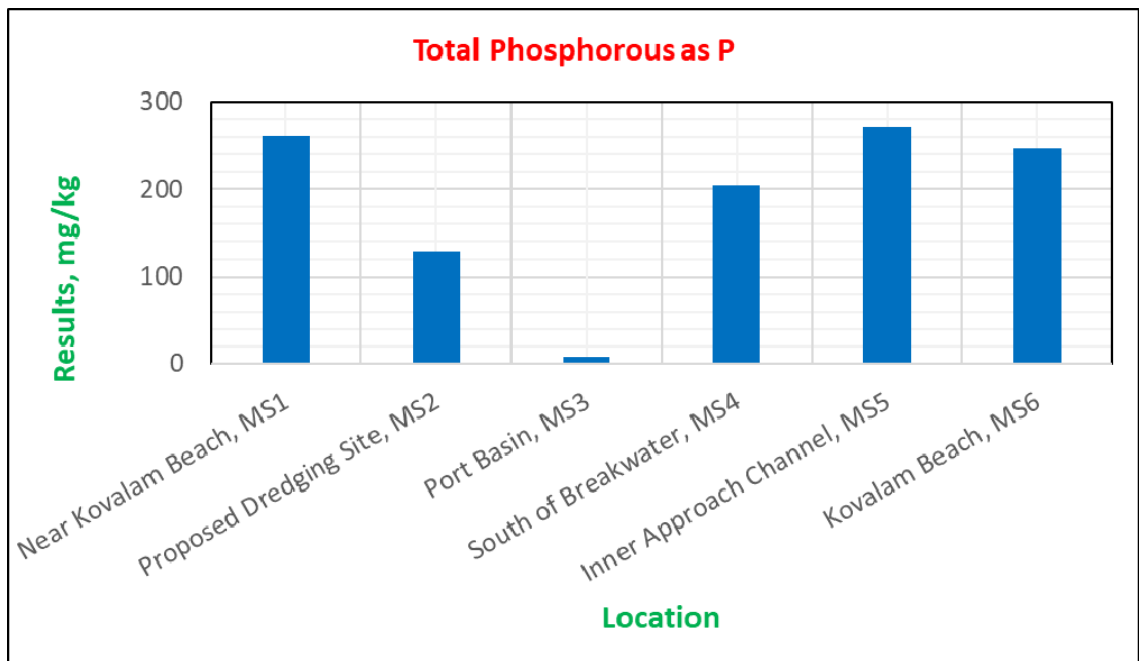
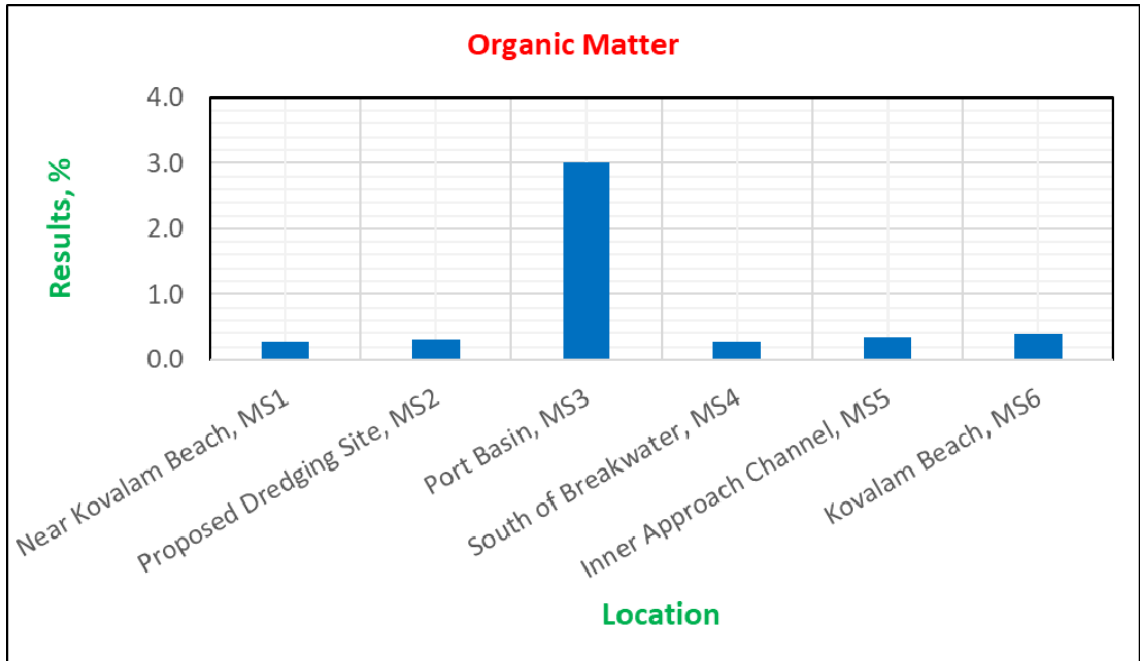


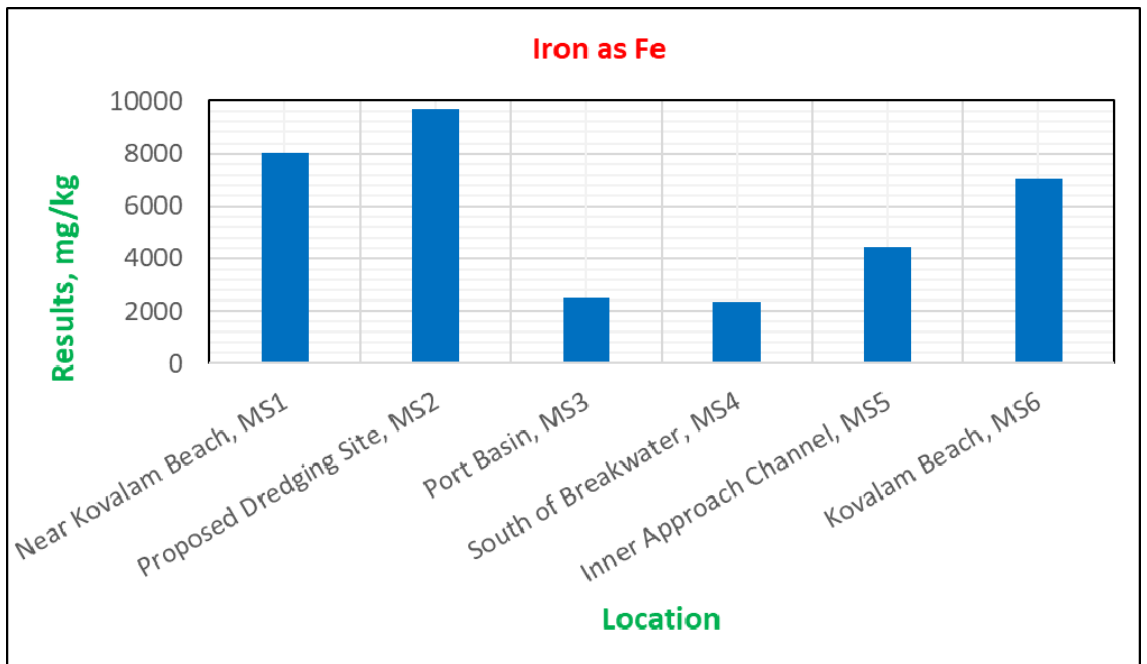
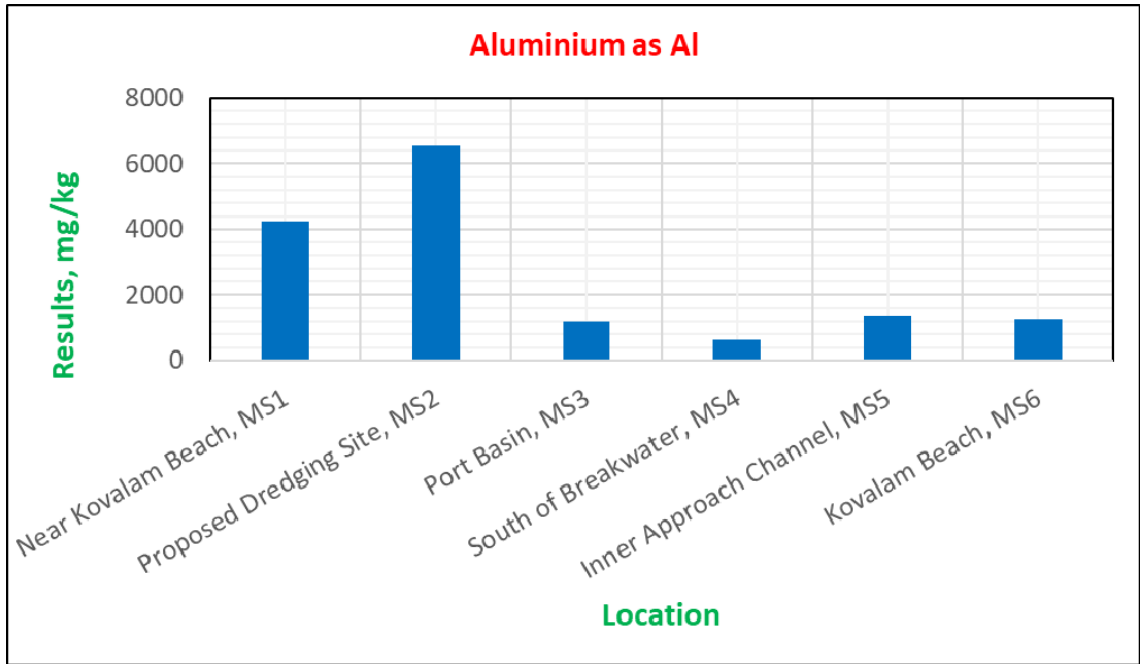


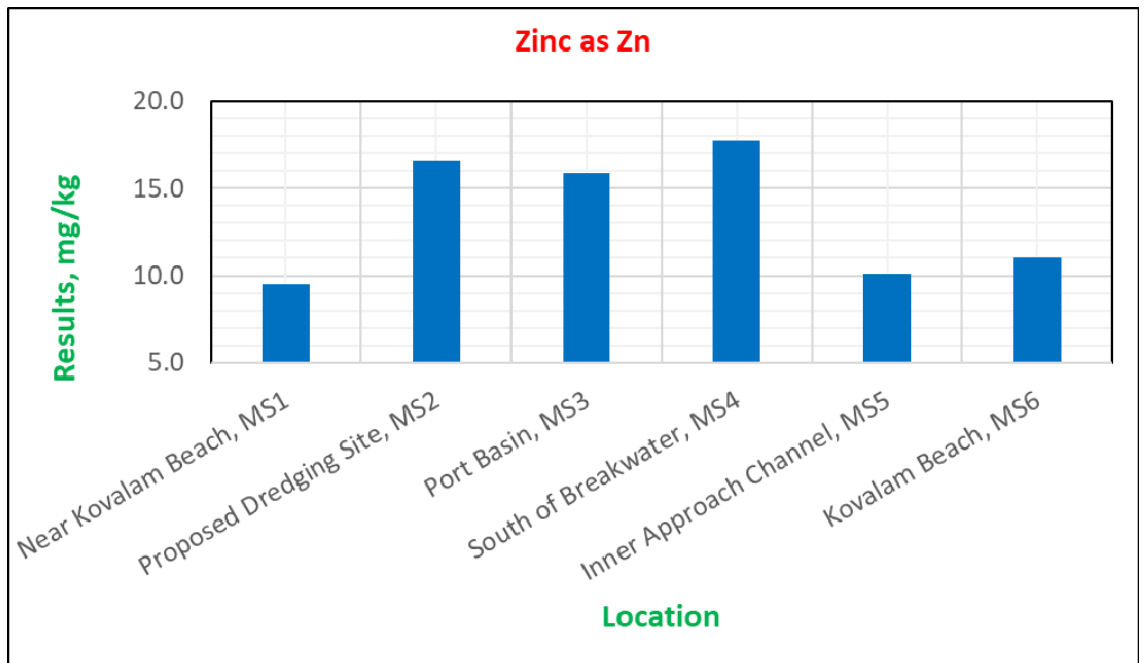
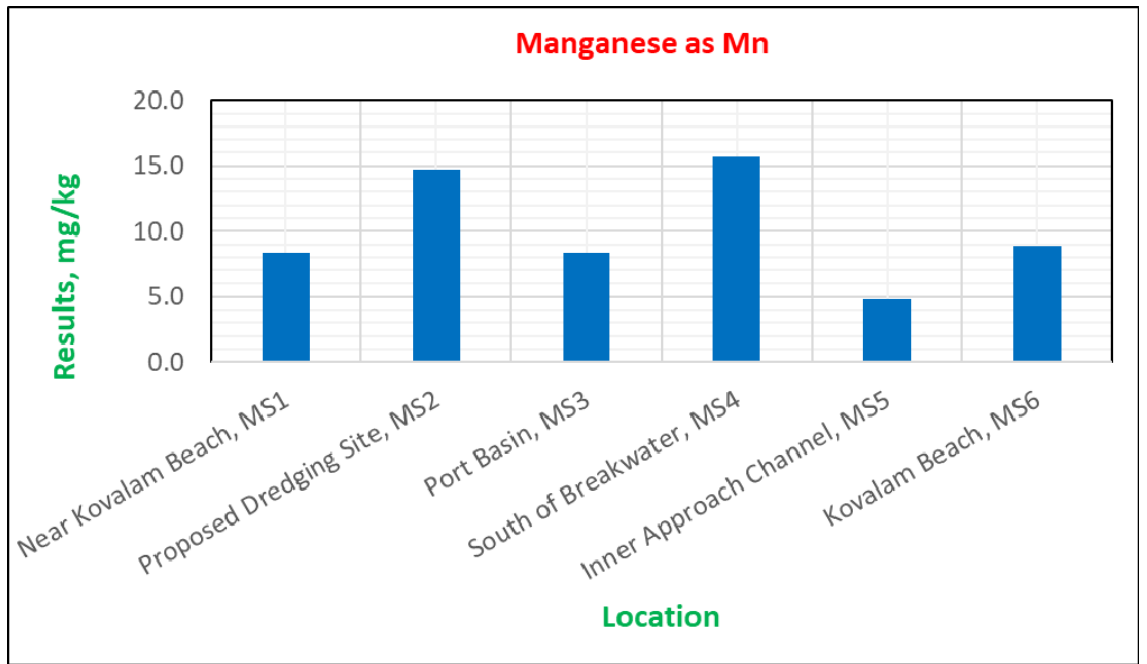


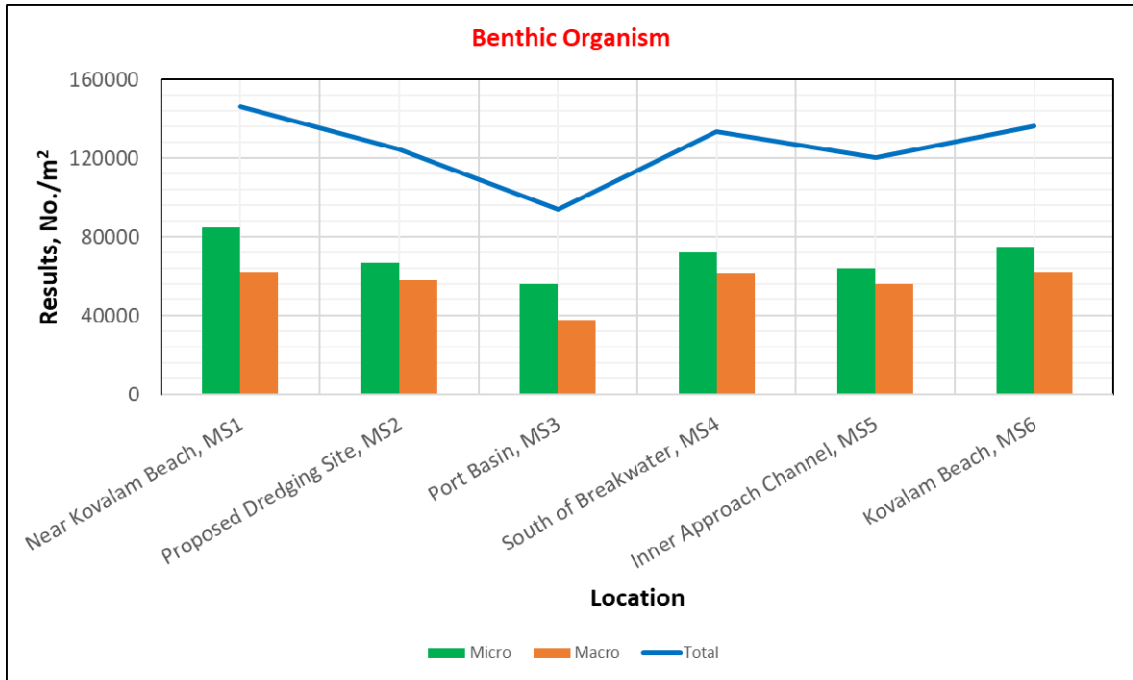


## 4 b. Sediment Analysis

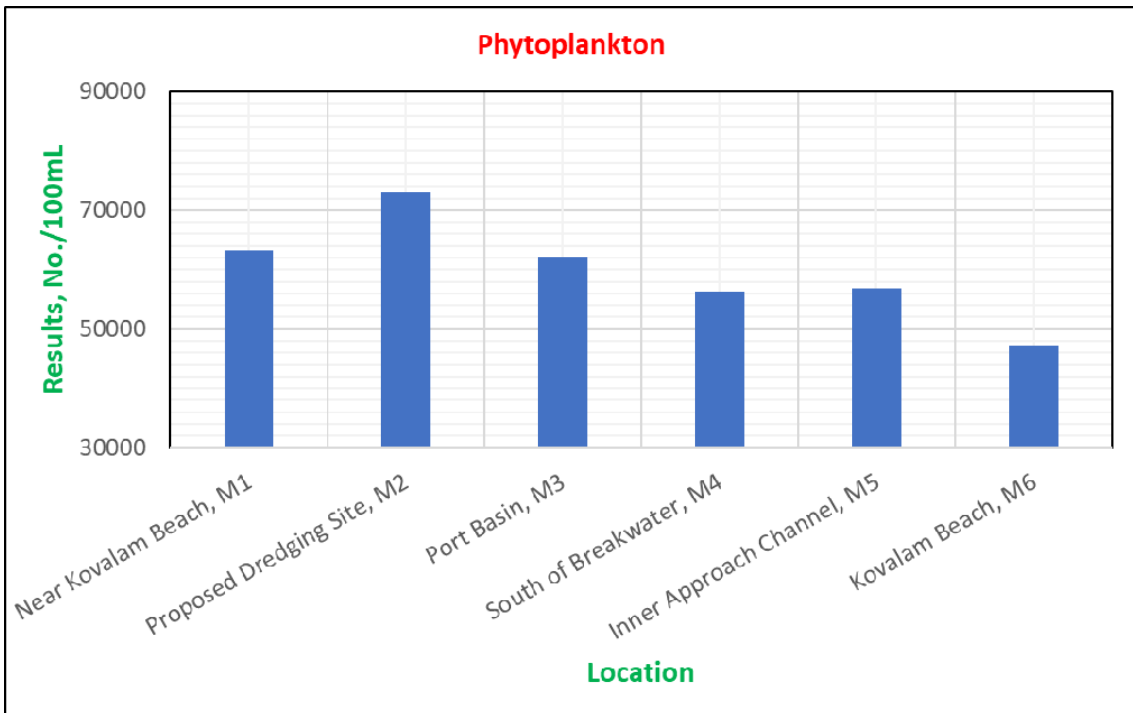




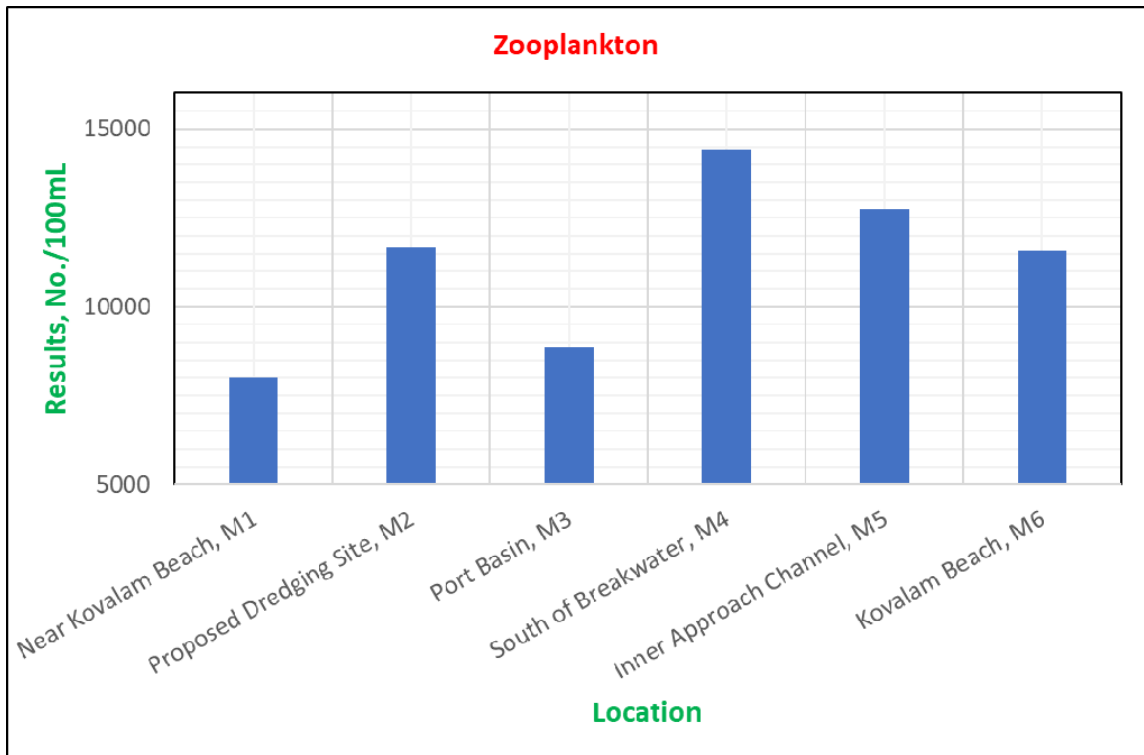




### 4 c. Phytoplankton Analysis from Marine Samples

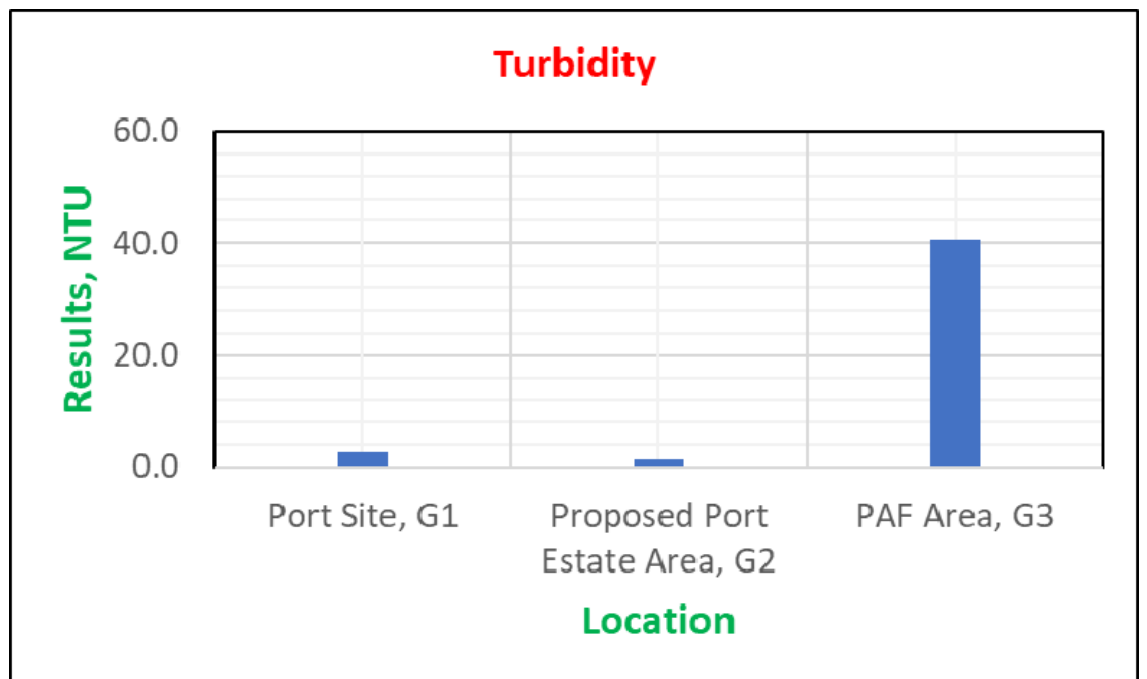
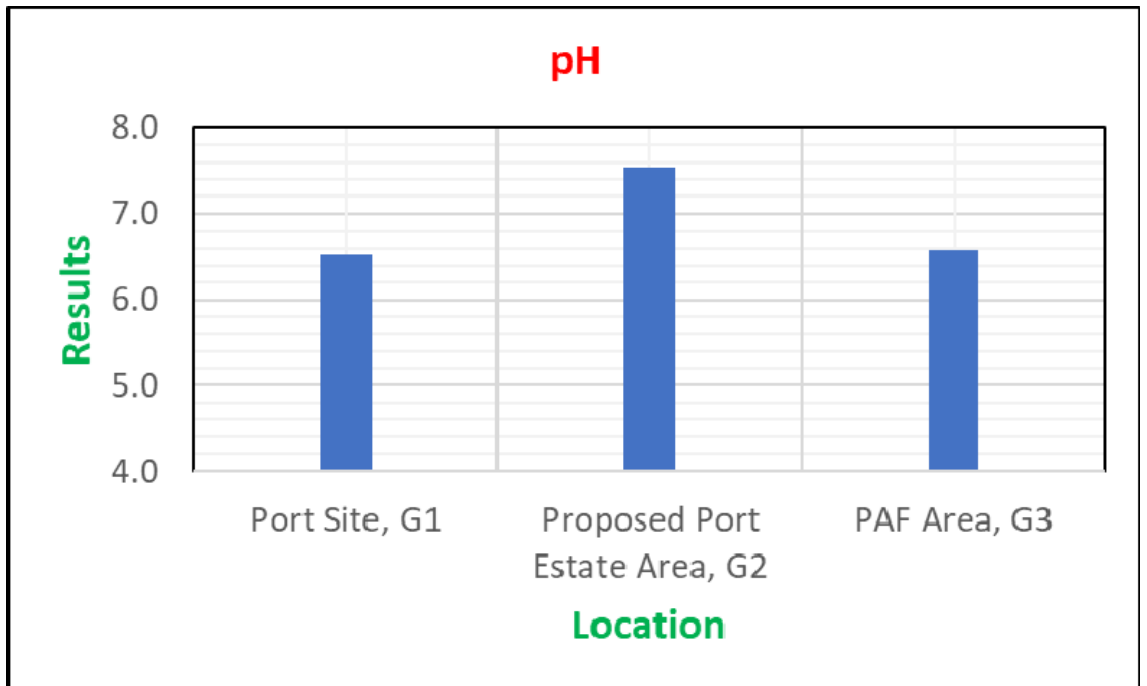


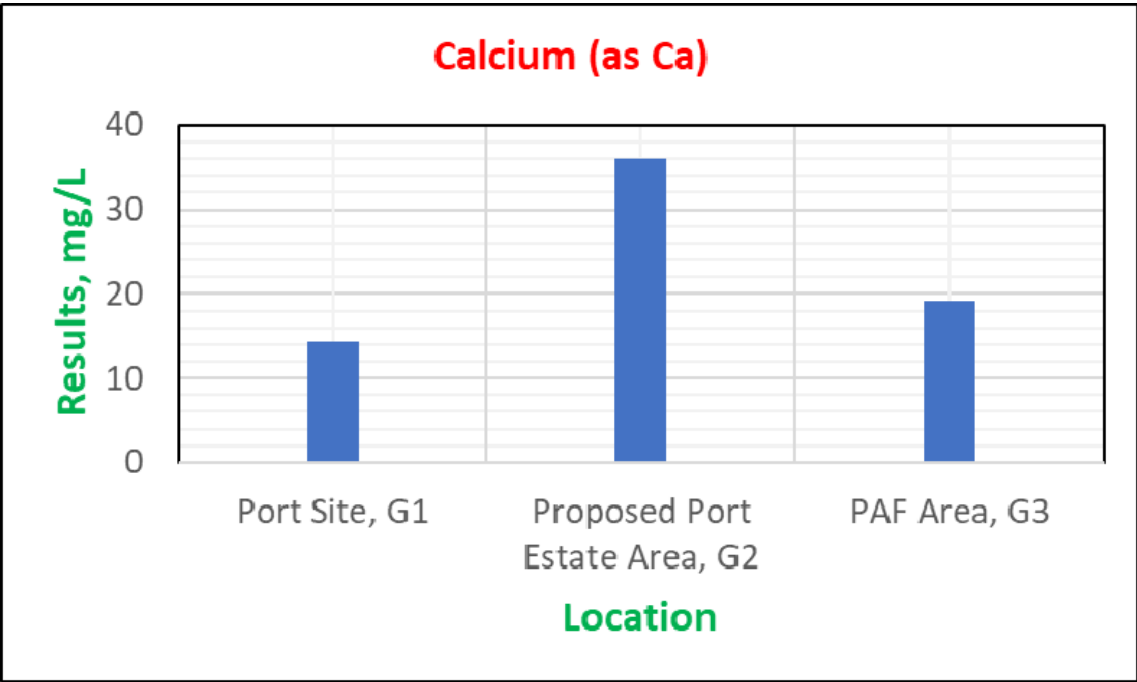
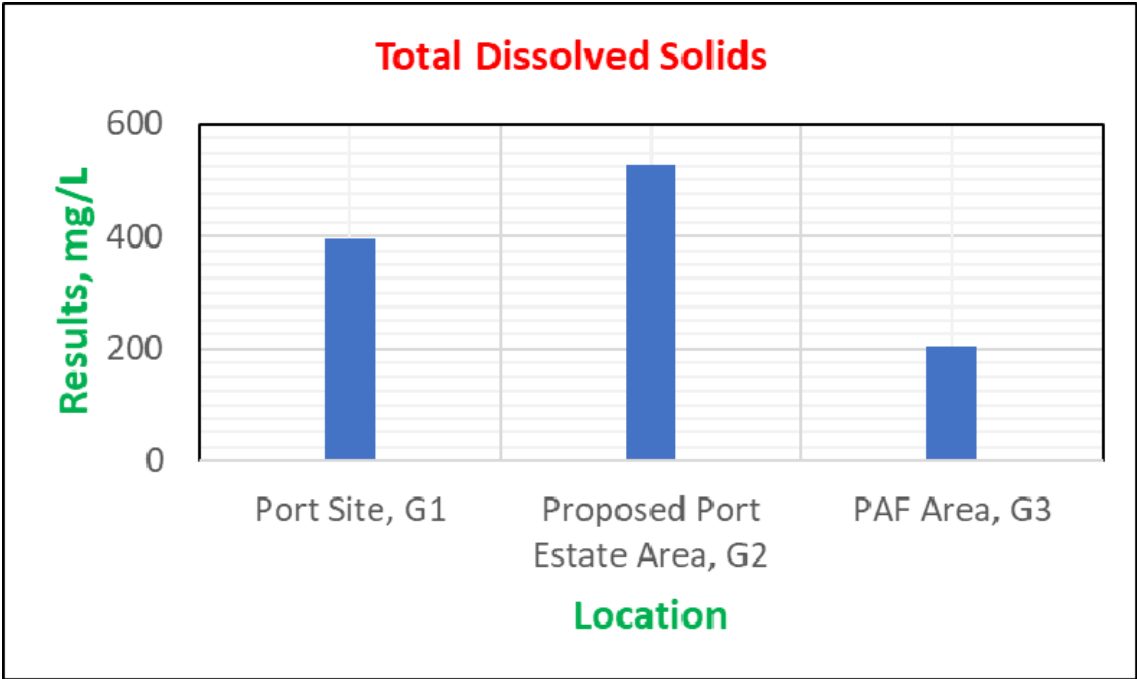
#### 4 d. Zooplankton Analysis from Marine Sample

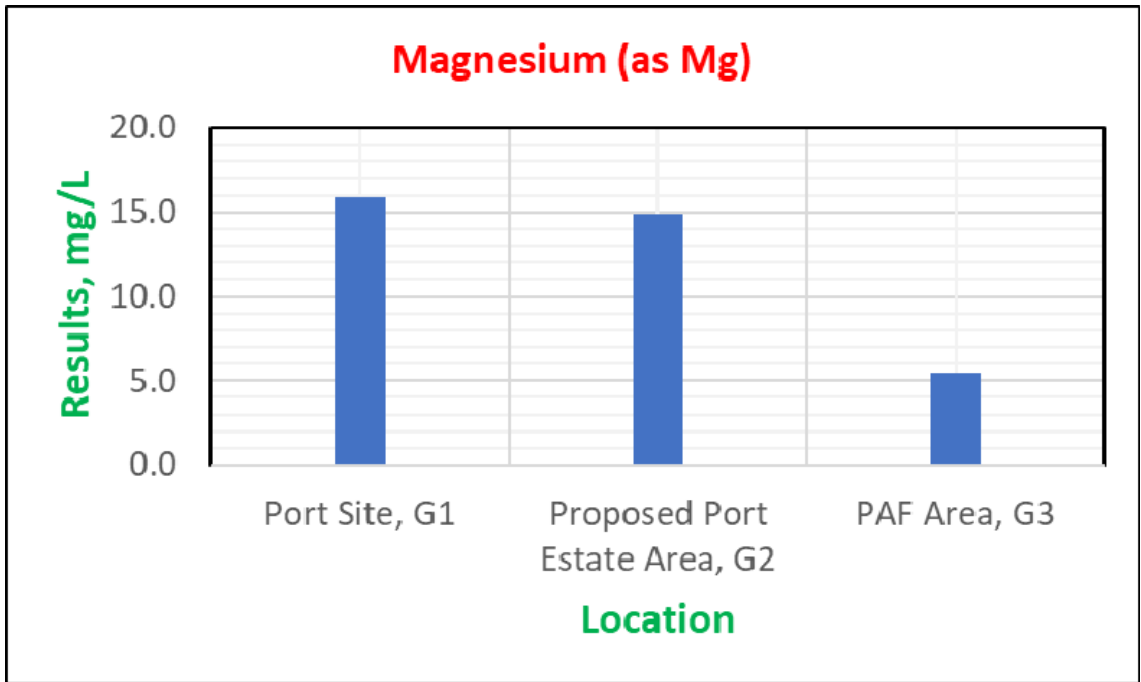
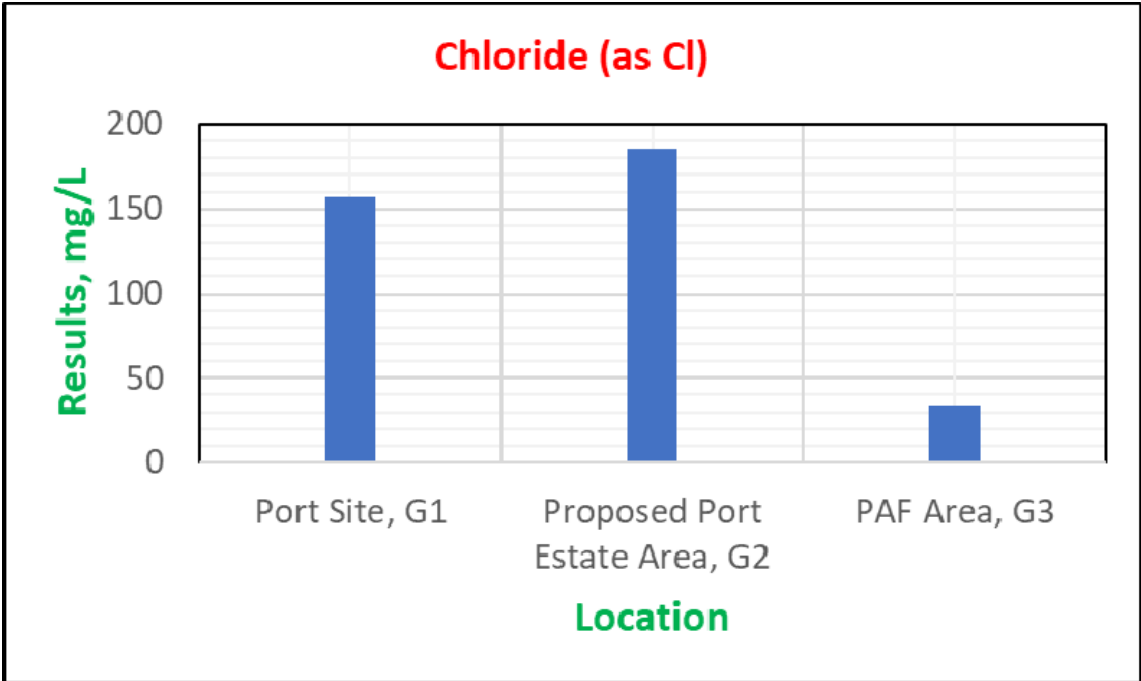


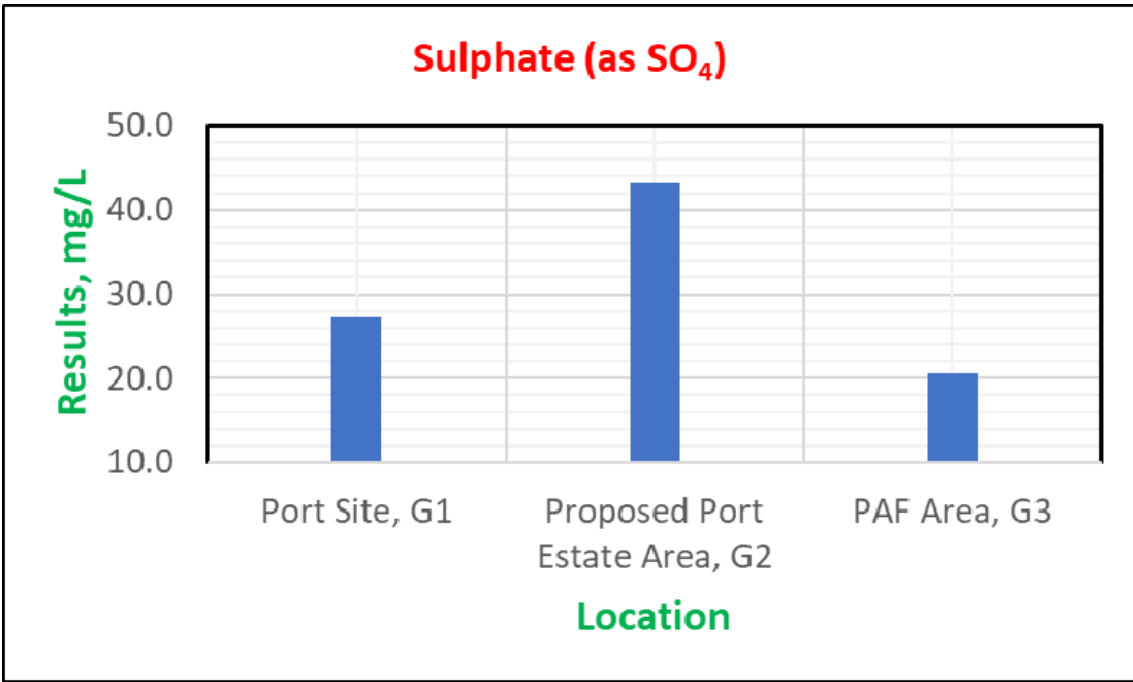
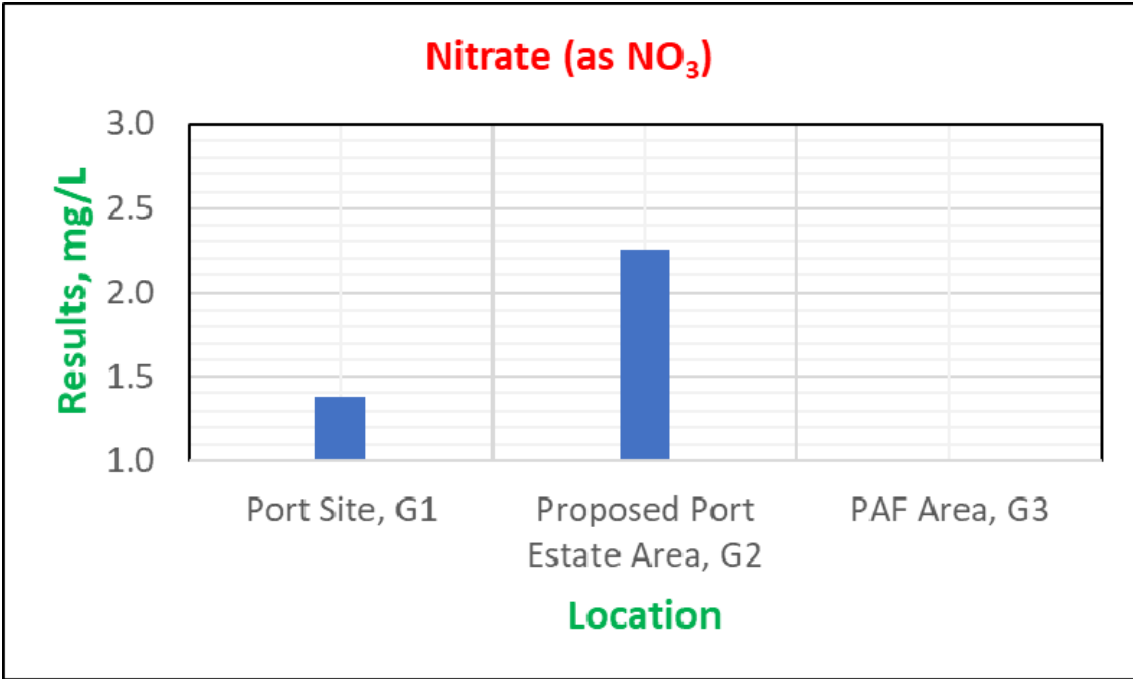


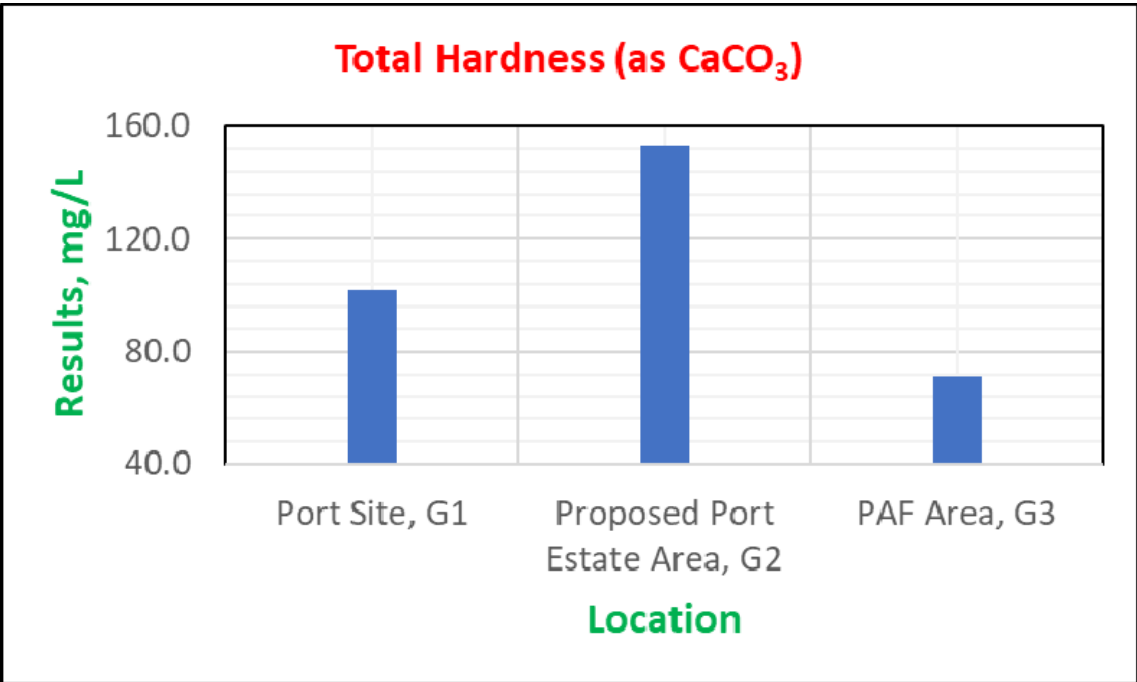
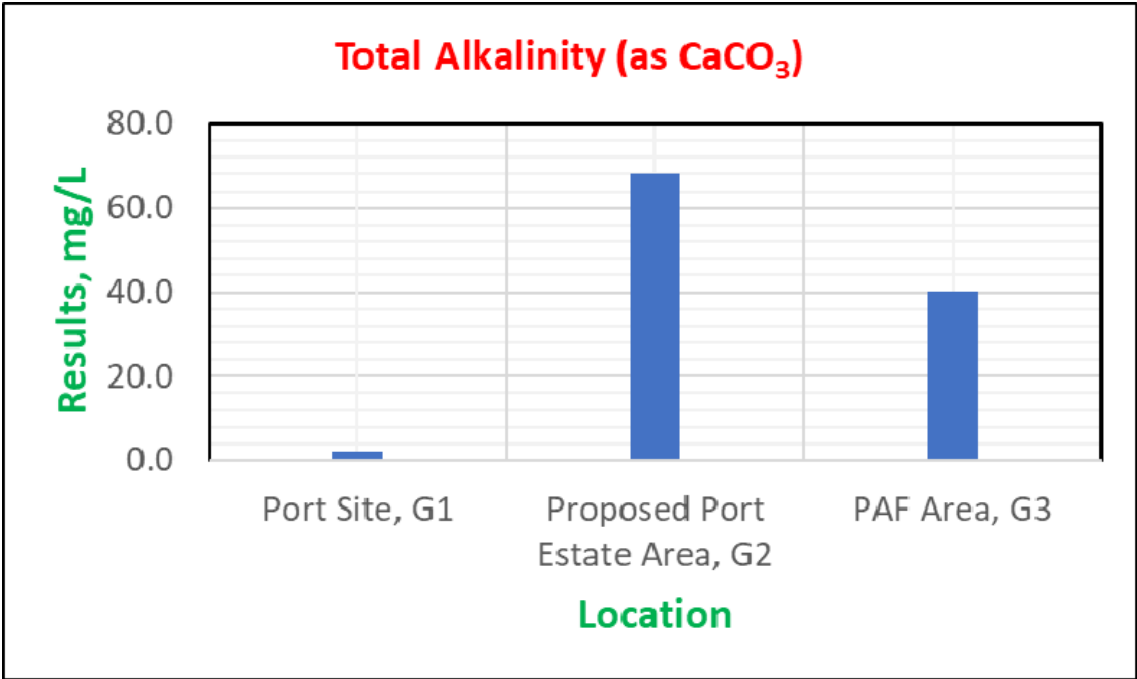
## 5. Groundwater Analysis

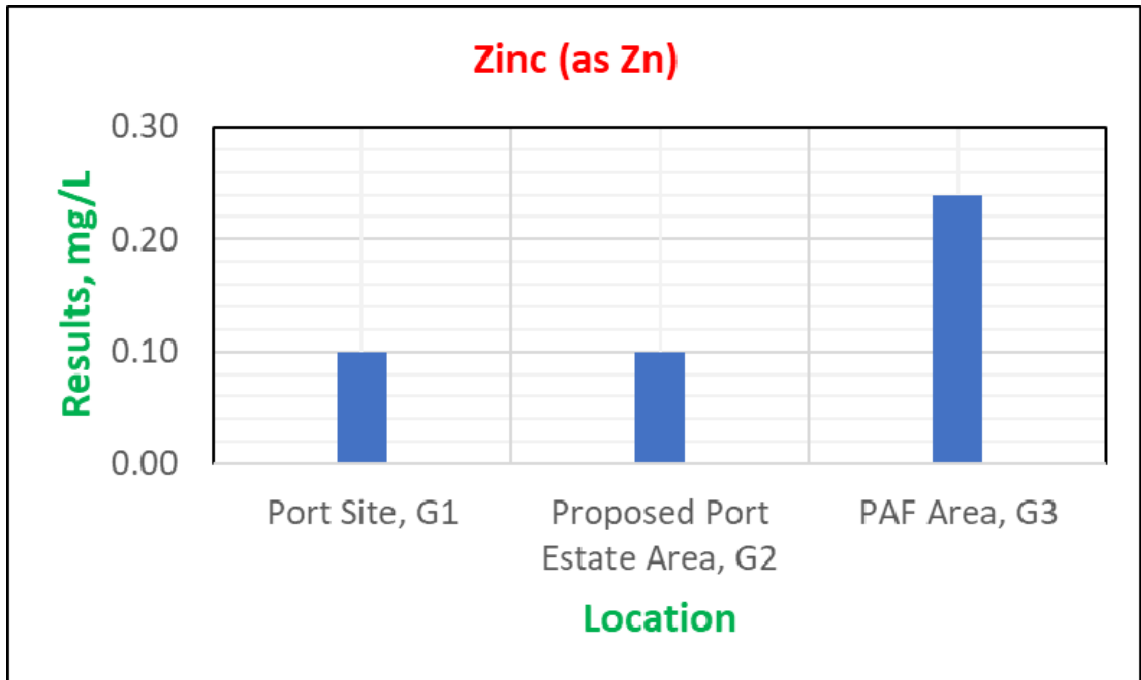












## 6. Surface Water Analysis

