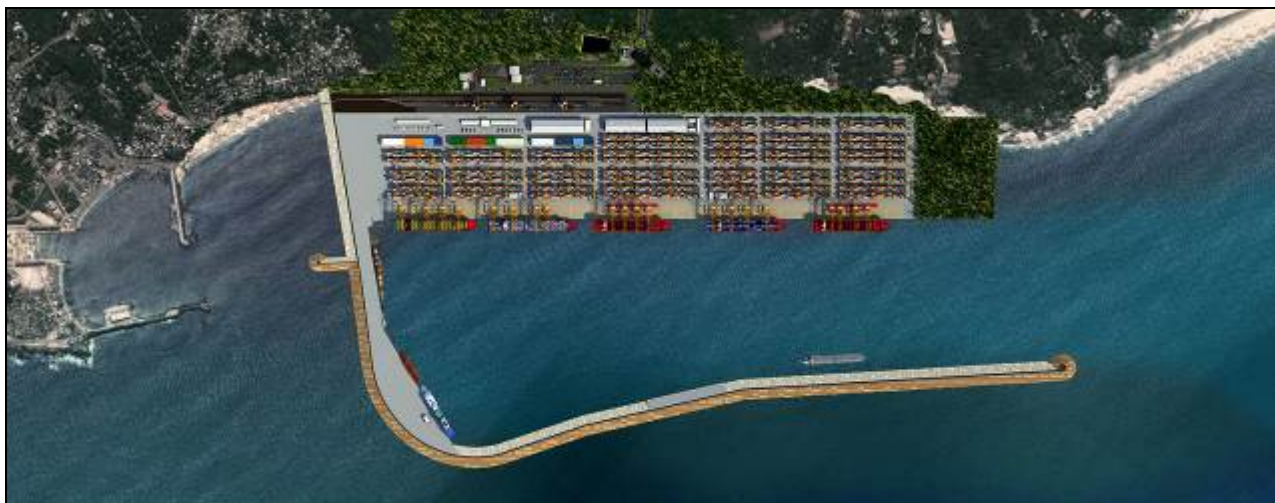


# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

March – 2020

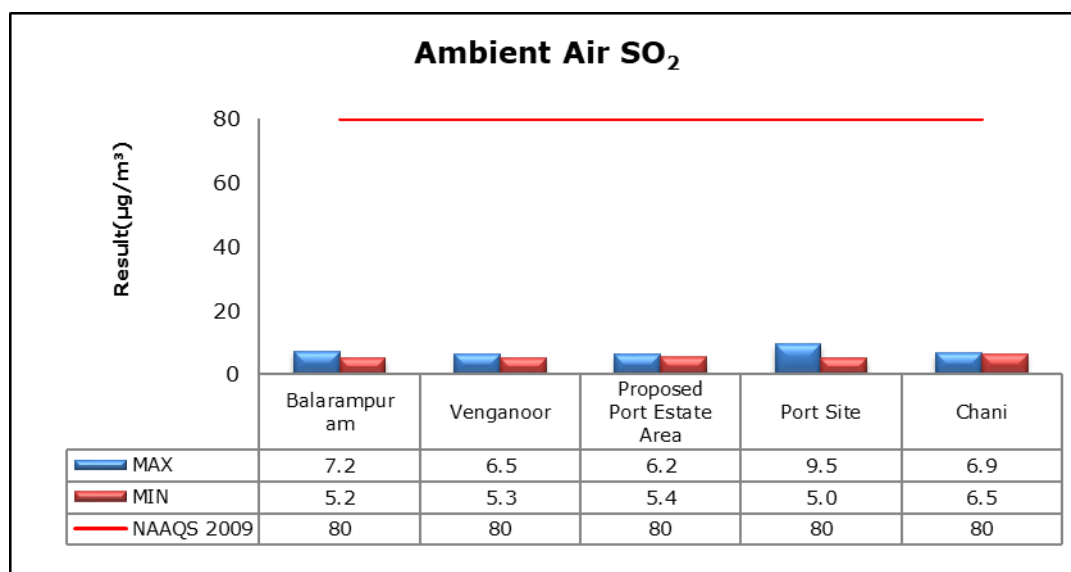
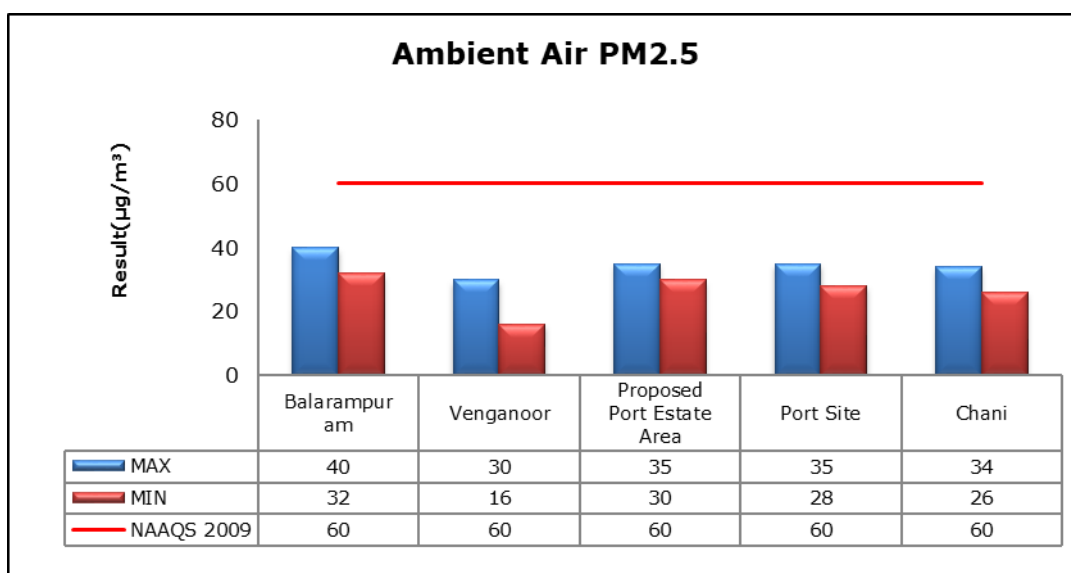
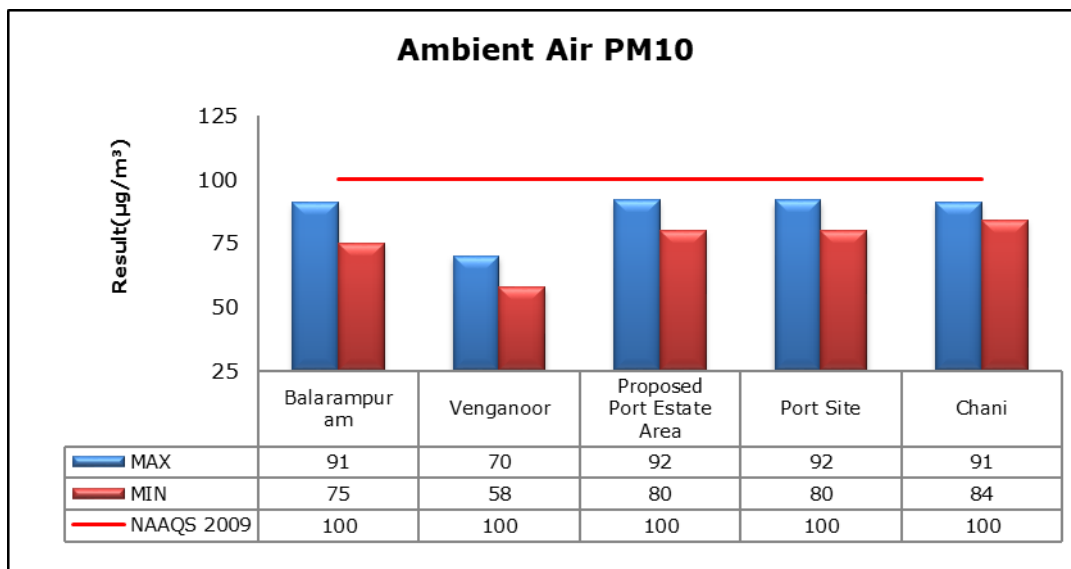
## Environment Monitoring Locations:

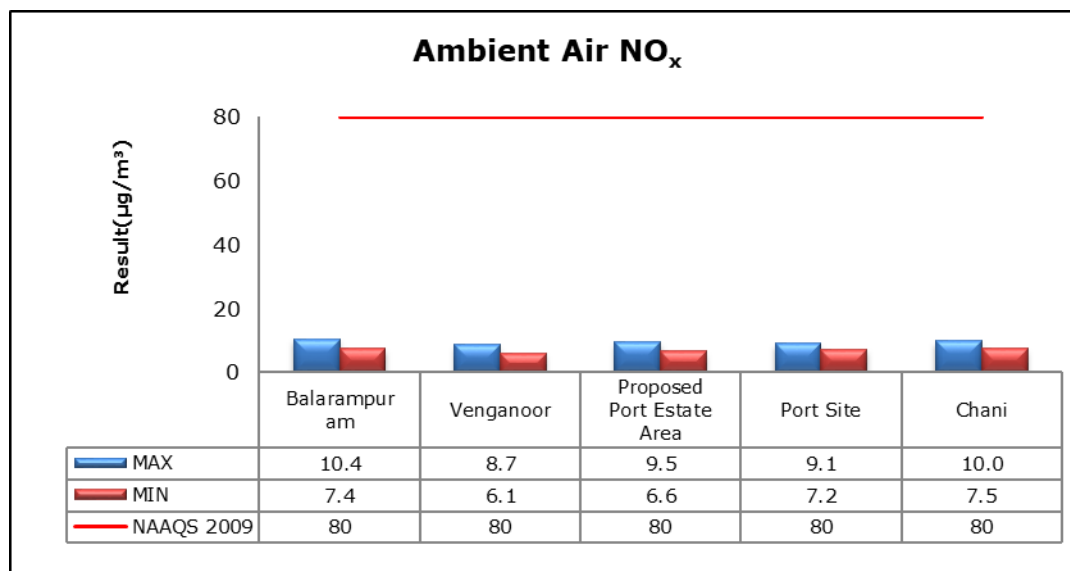
Sl. No.	Environmental Attribute	Location
1.	Ambient Air Quality Monitoring	Port Site (AQM1)
		Proposed Port Estate Area (AQM2)
		Chani (AQM3)
		Venganoor (AQM4)
		Balarampuram (AQM5)
2.	Ambient Noise	Port Site (Industrial)
		Proposed Port Estate Area (Commercial)
		Chani (Residential)
		Venganoor (Residential)
		Balarampuram (Residential)
3.	Marine Water	Near Kovalam Beach (MW1)
		Proposed Dredge Material Disposal Site (MW2)
		South of Break Water (MW3)
		Port Basin (MW4)
		Inner Approach Channel (MW5)
		Kovalam Beach (MW 6)
4.	Groundwater	Port Site (GW 1)
		PAF Area (GW 2)
		Proposed Port Estate Area (GW 3)
5.	Surface Water	Poovar West Canal (SW 1)
		Vizhinjam Branch Canal (SW 2)
		Vellayani Lake (SW 3)
6.	Soil	Port Site
		Proposed Port Estate Area
		Mullor (Along the road network)
		Balarampuram (Along the rail network)

## 1. Summary

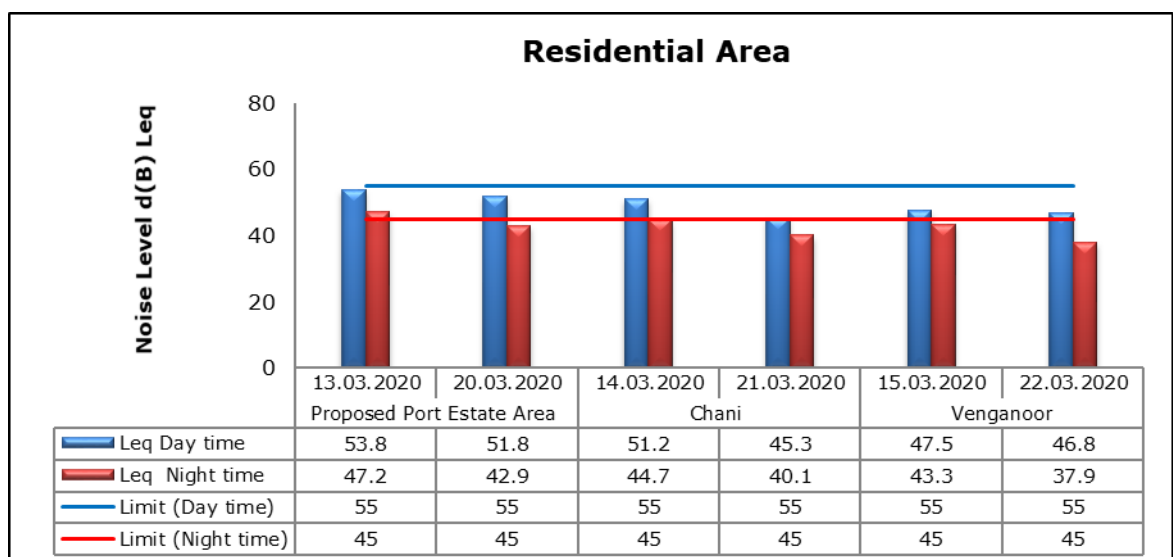
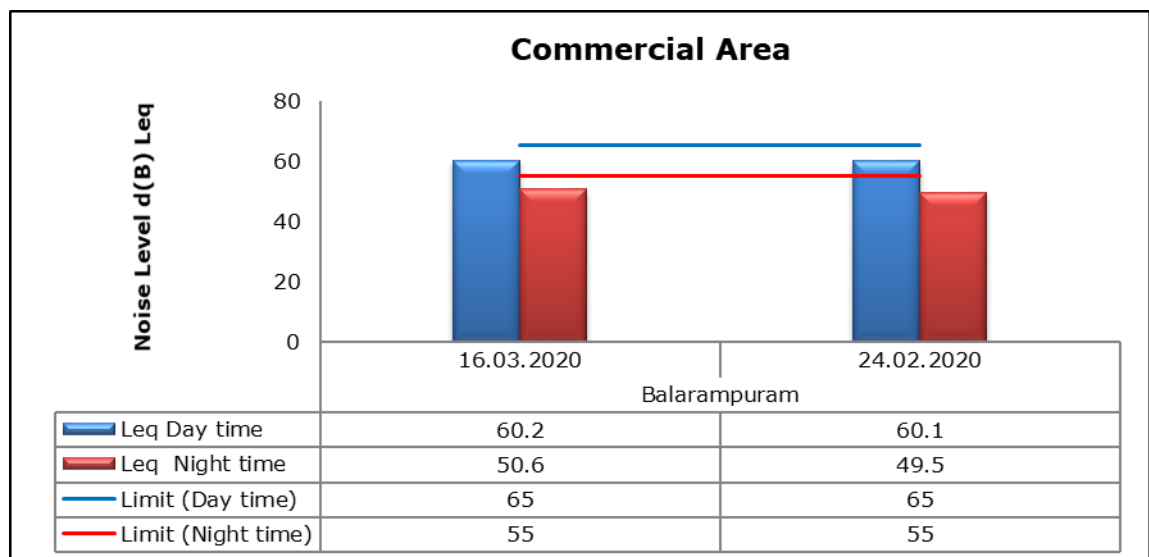
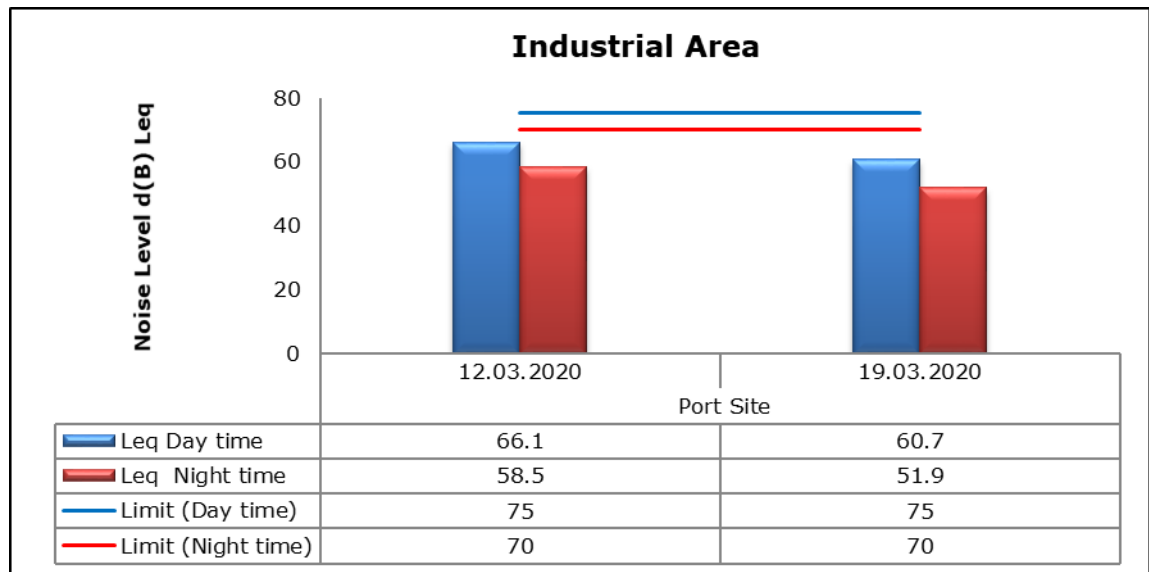
- For the month of March 2020, Ambient Air Quality Monitoring was conducted on the 2<sup>nd</sup>, 5<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup>. Samples for the 16<sup>th</sup>, 19<sup>th</sup> and 23<sup>rd</sup> of March 2020 were collected but could not be sent to the laboratory due to restrictions in courier service due to the COVID-19 situation. Monitoring was not conducted on 26<sup>th</sup> March 2020 due to the nationwide lock-down imposed. The ambient air quality monitoring results for samples which were analysed were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations during the month of March 2020.
- Noise readings were within limits at all the monitoring locations during the month of March 2020.
- All the parameters of groundwater were recorded within the acceptable limits at all the locations.
- Surface water sample and marine water results were observed to be comparable with the baseline.

## 2. Ambient Air Quality



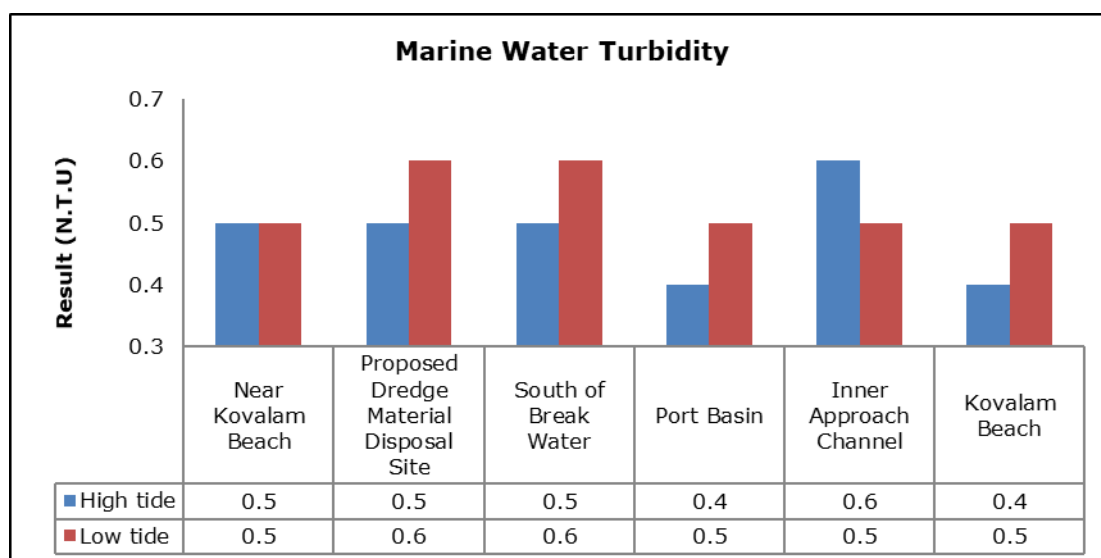
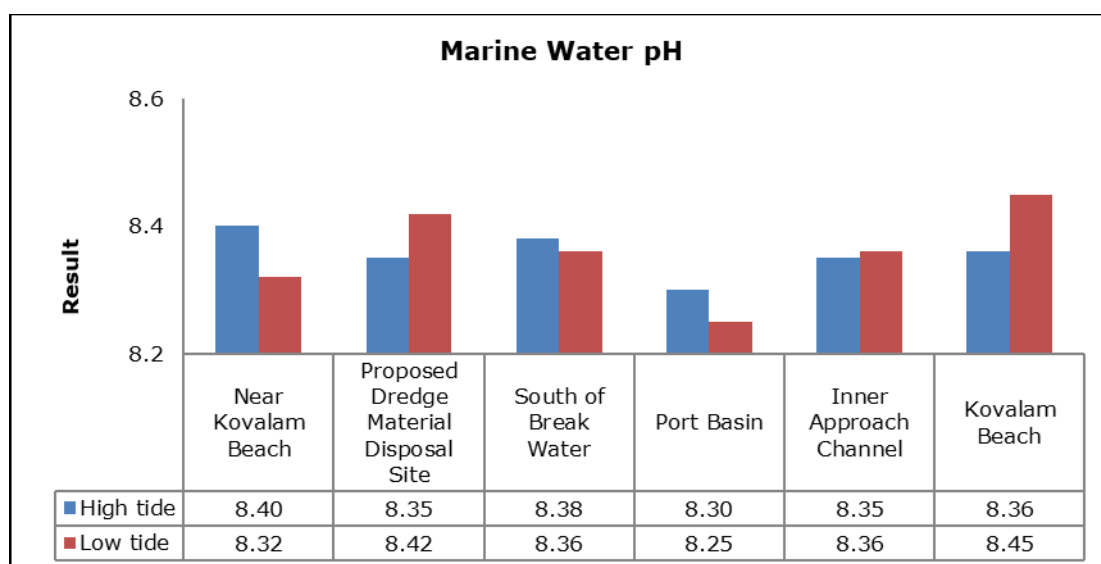
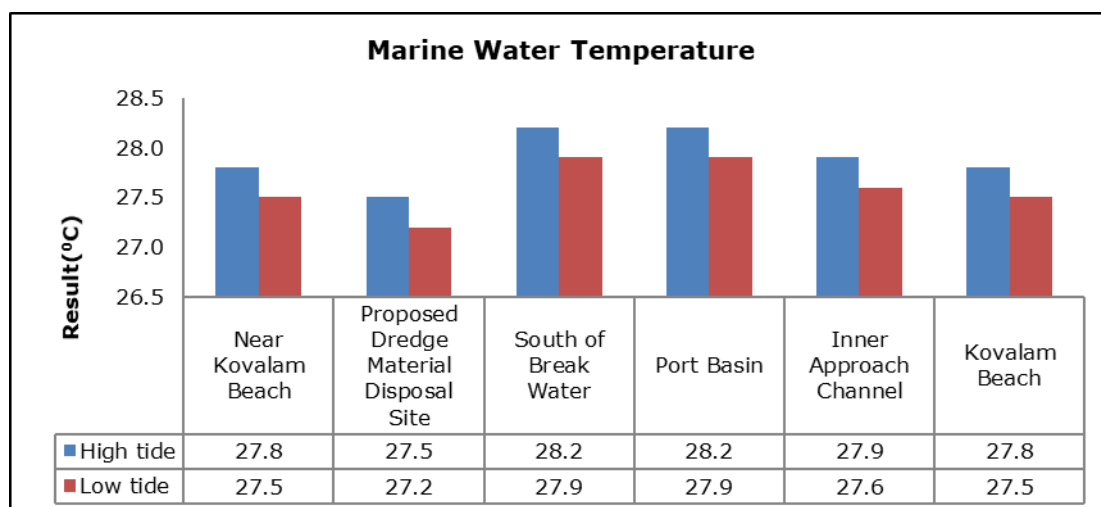


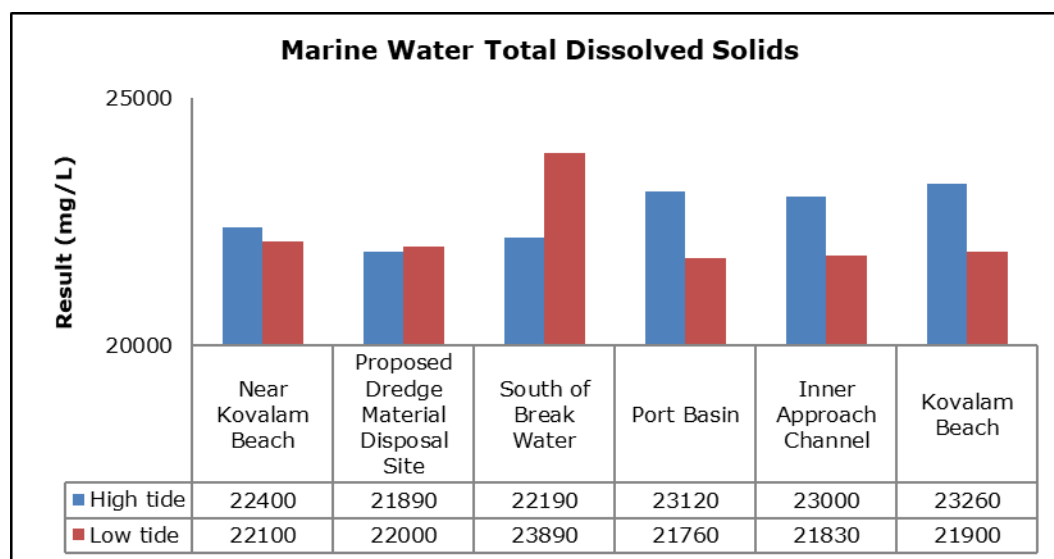
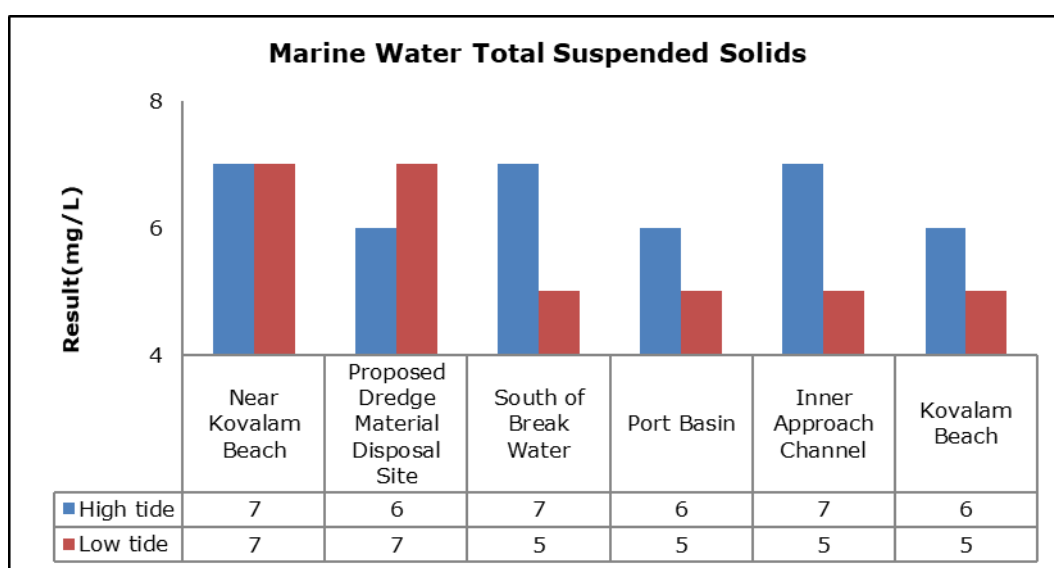
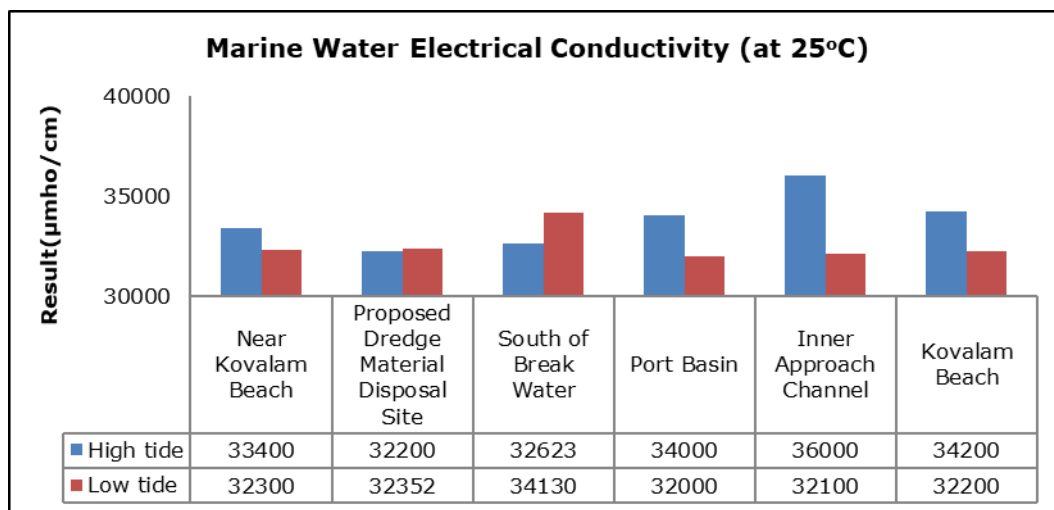
### 3. Ambient Noise



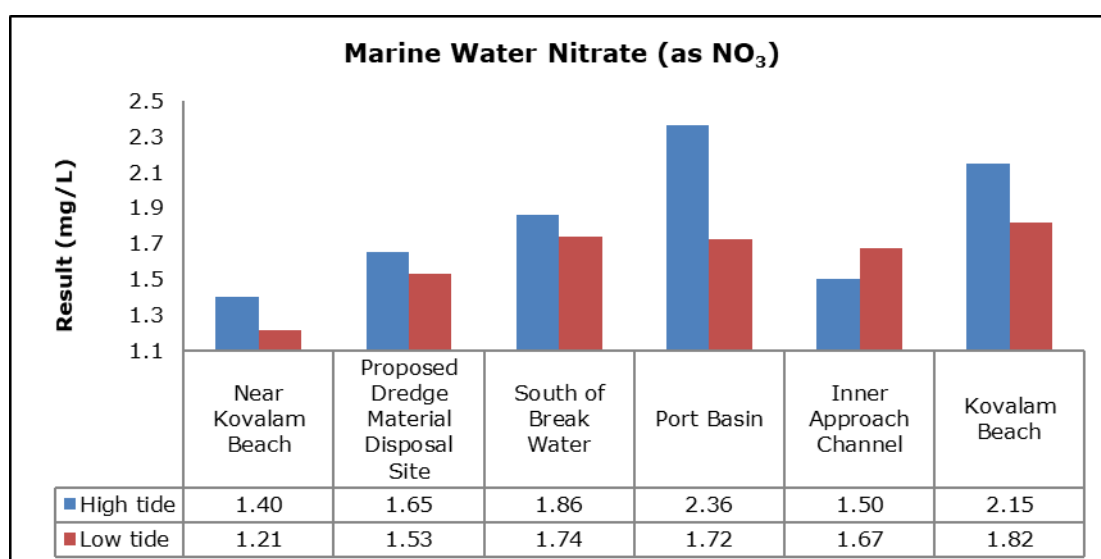
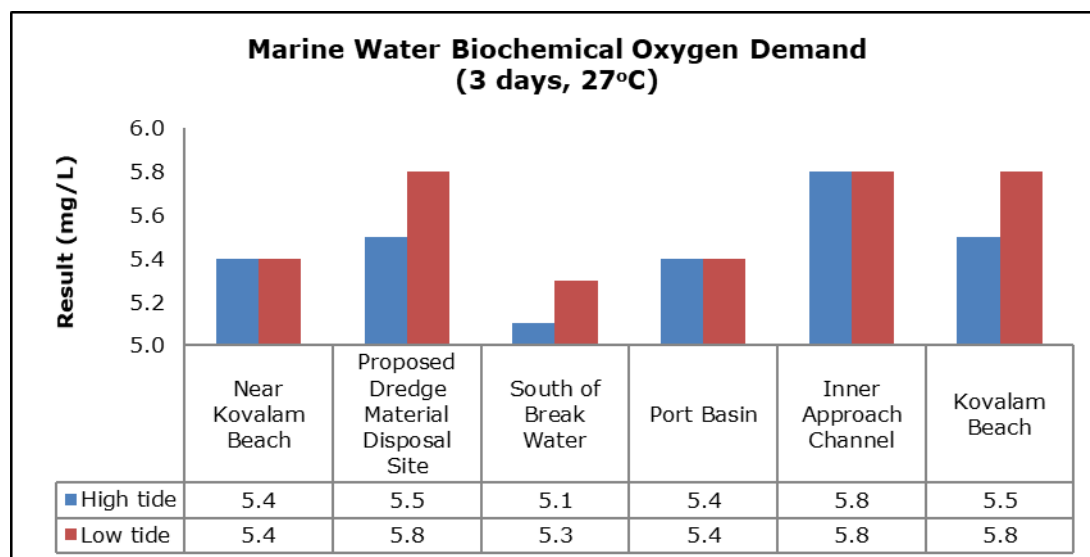
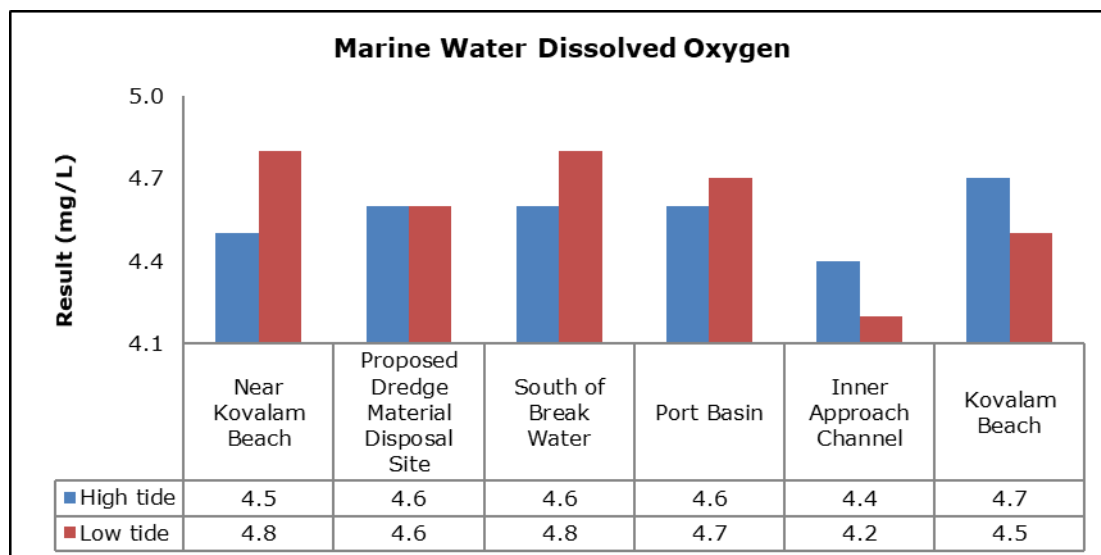
## 4. Marine Survey

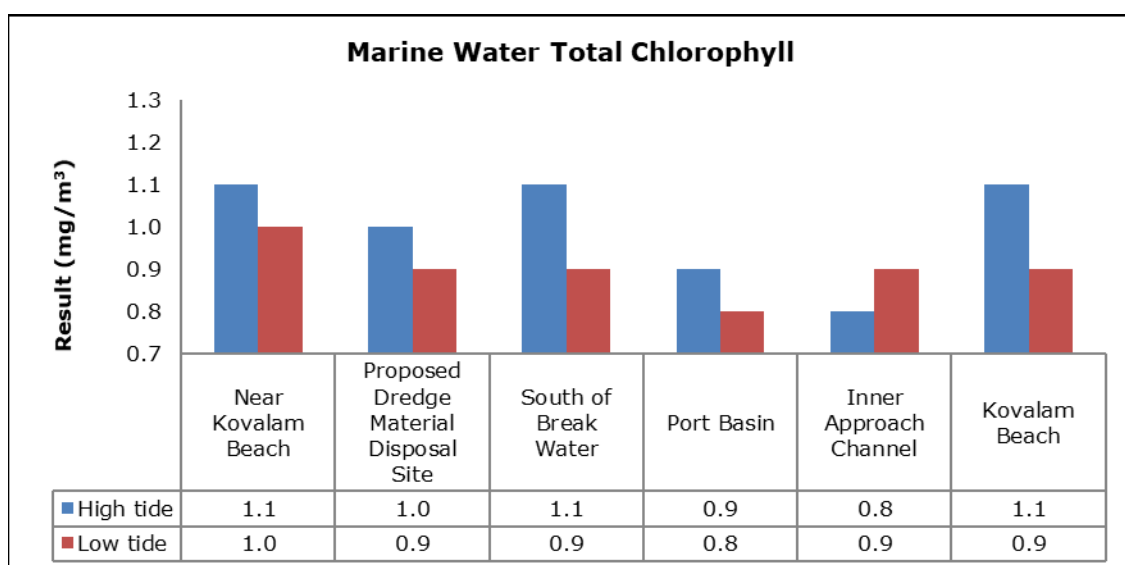
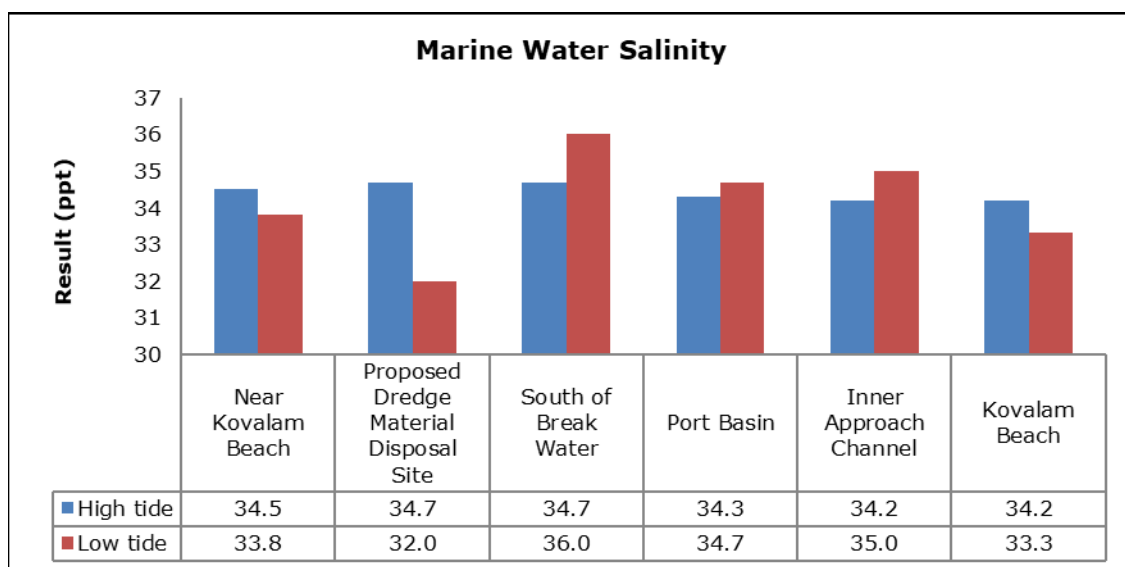
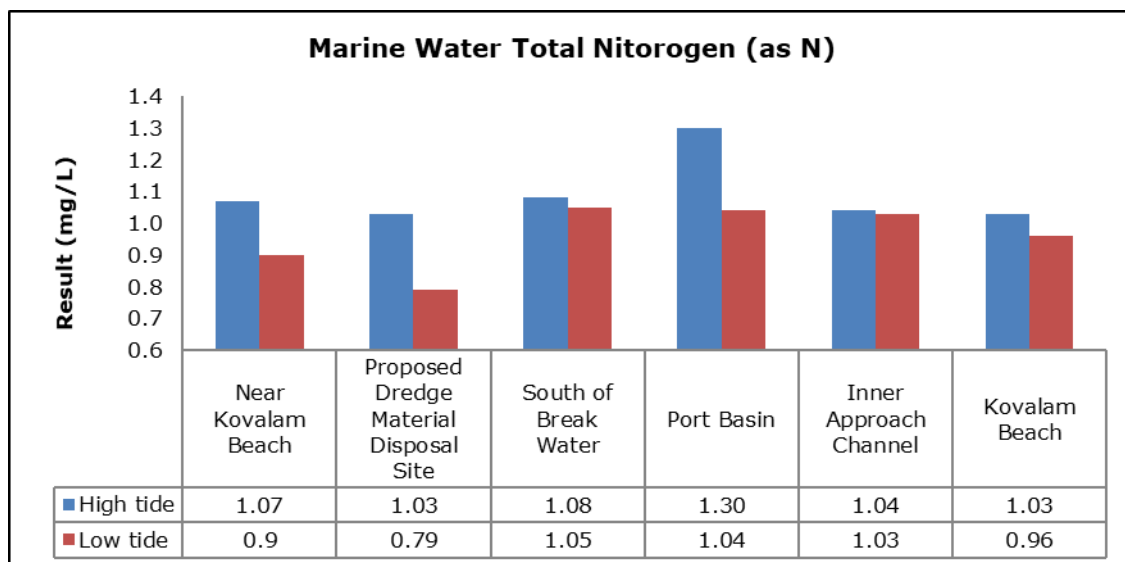
### 4 a. Marine Water Analysis



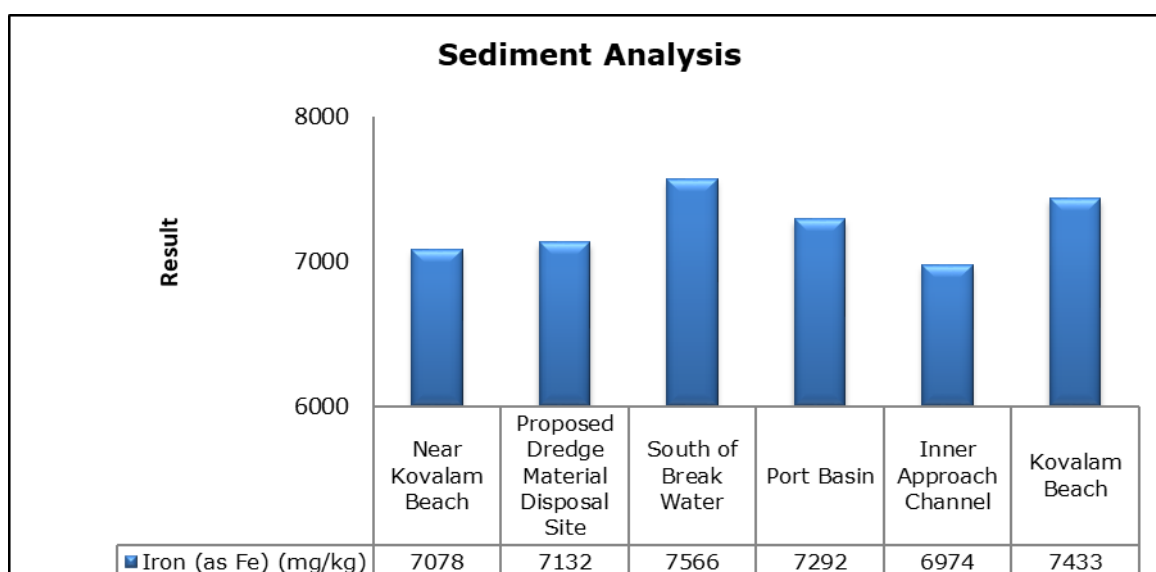
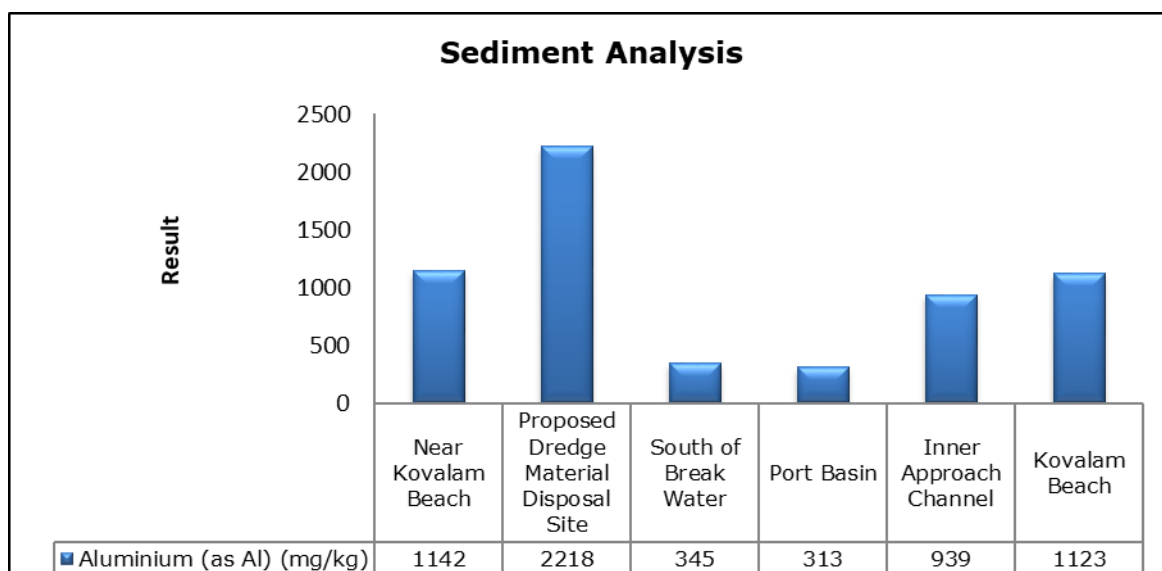
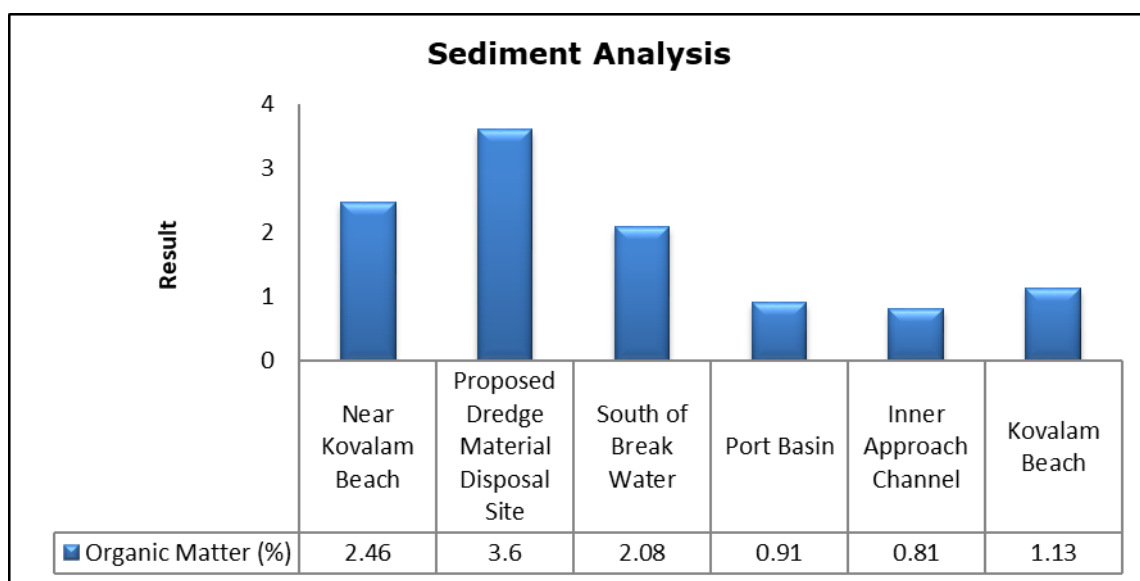


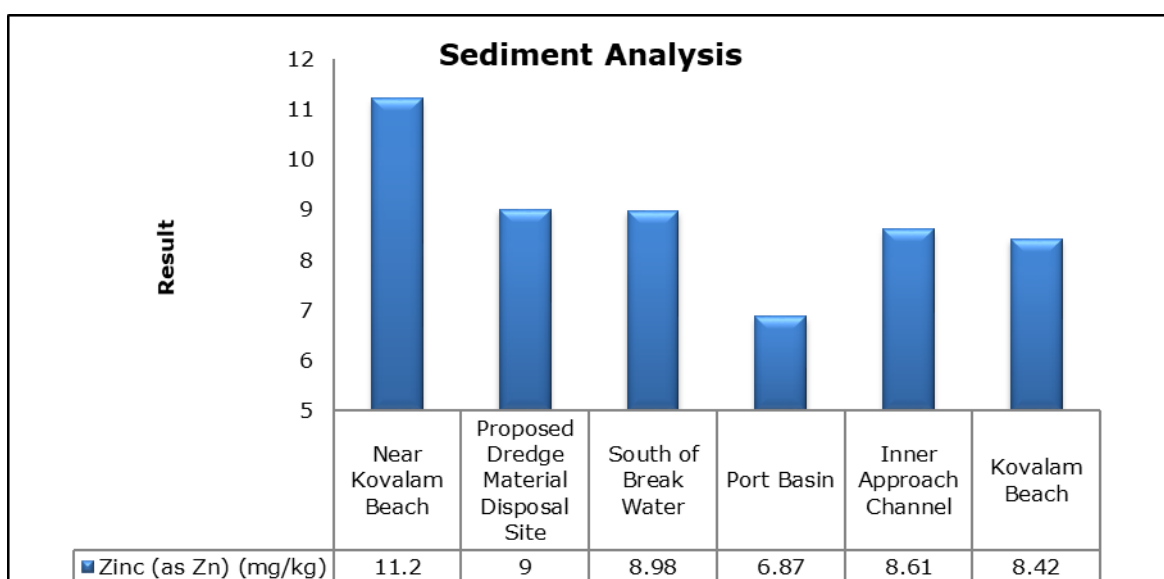
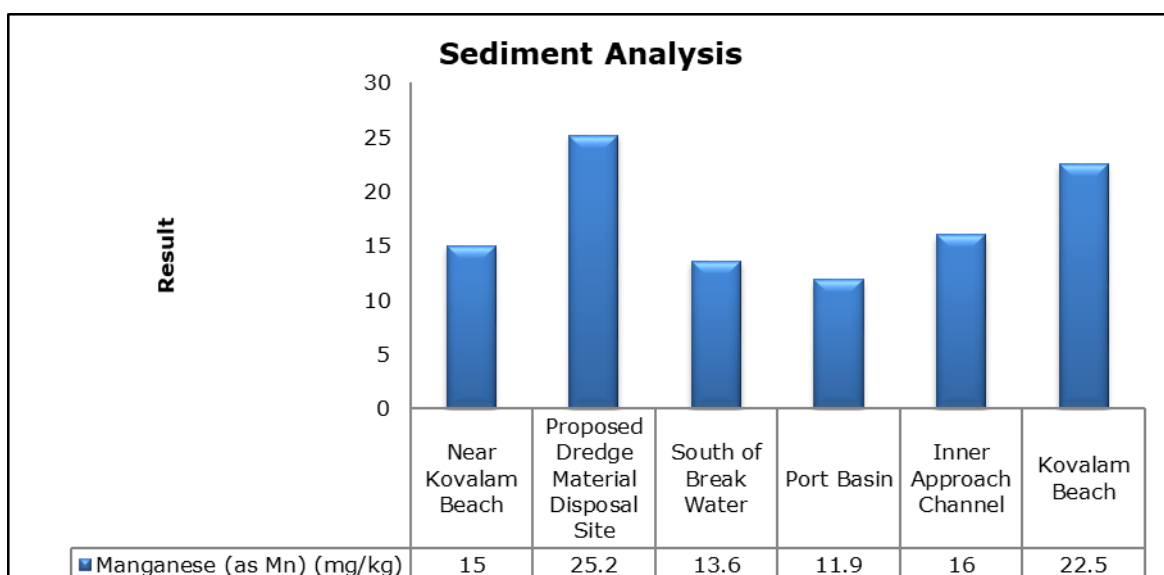
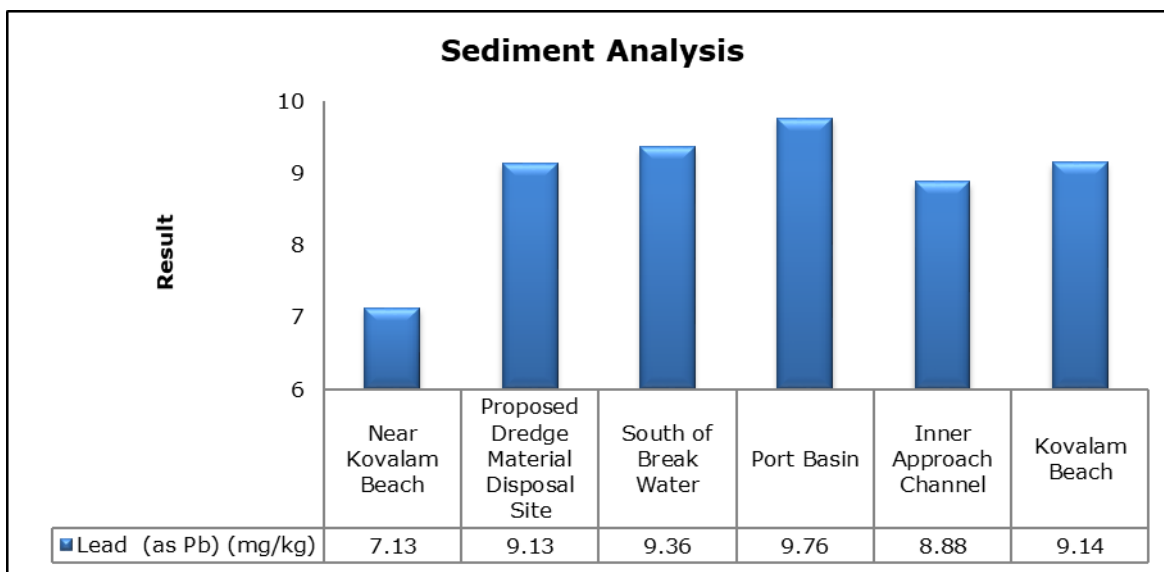


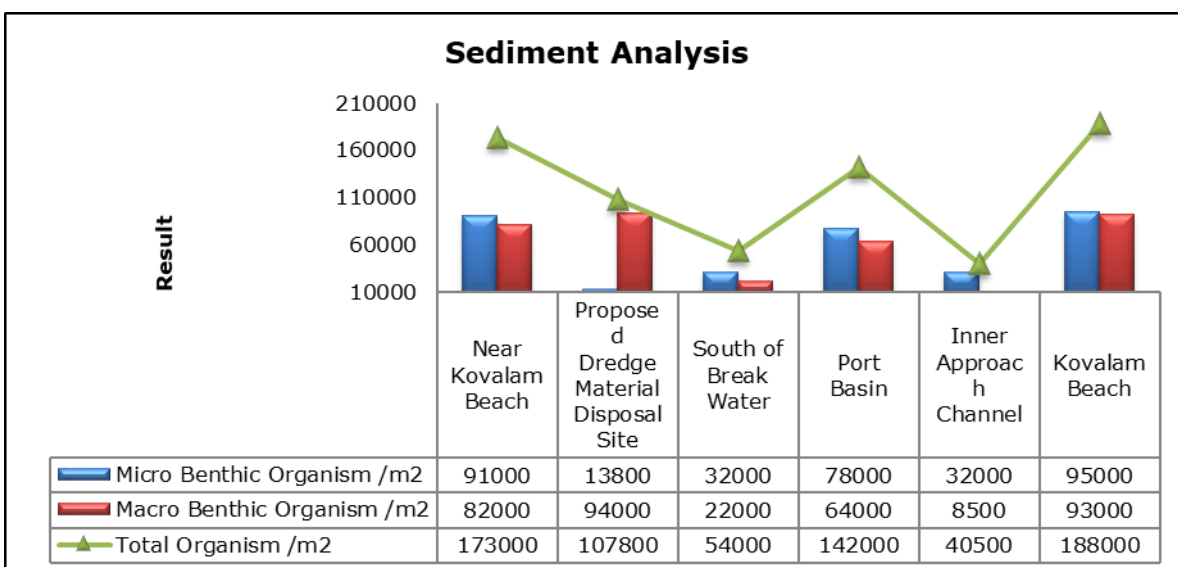
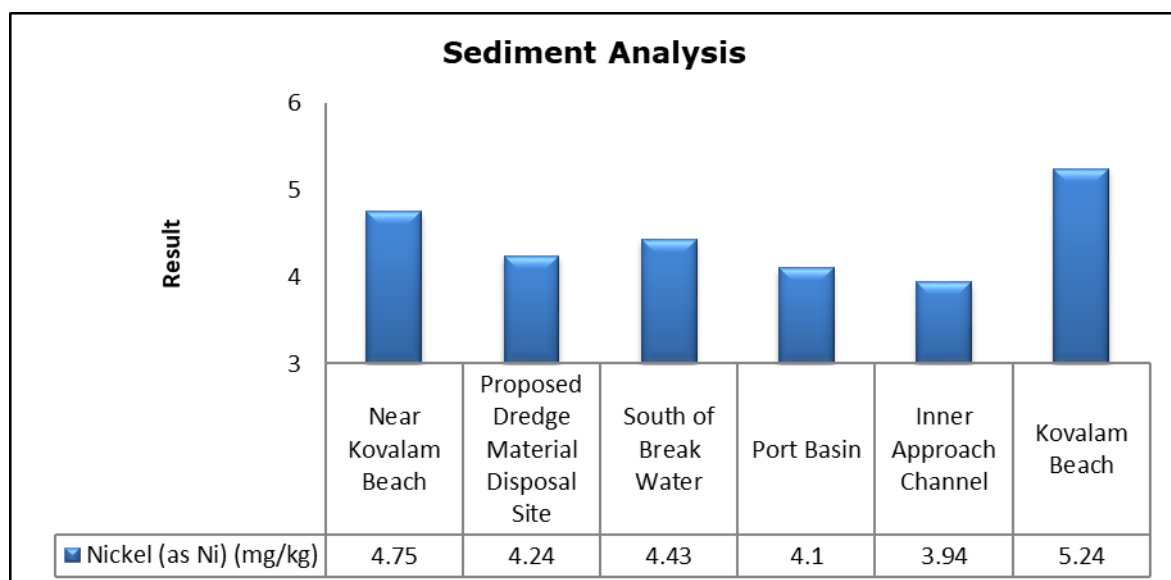
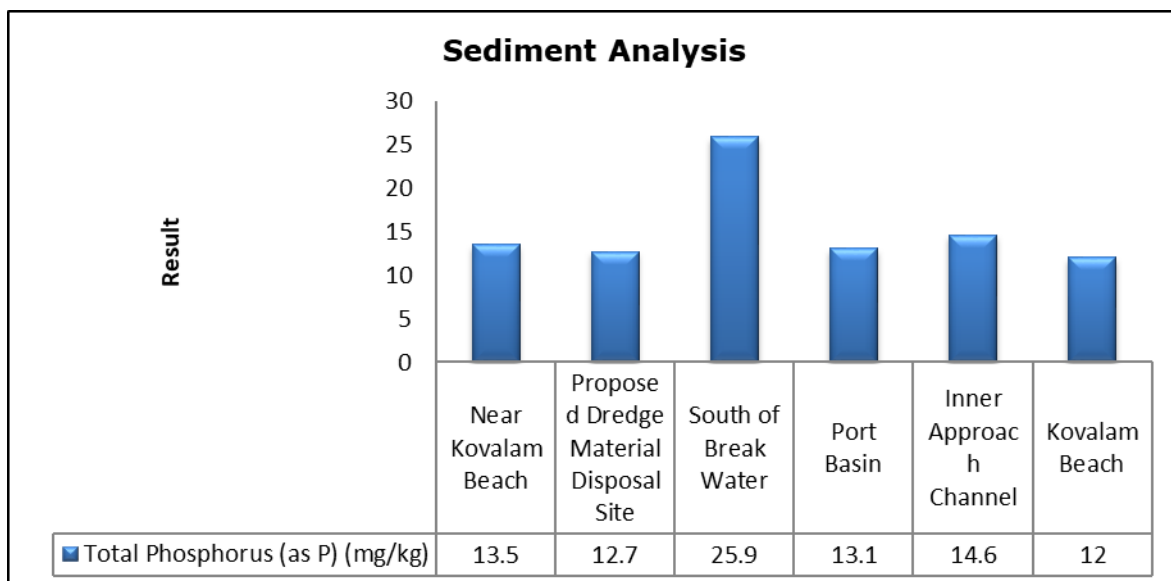




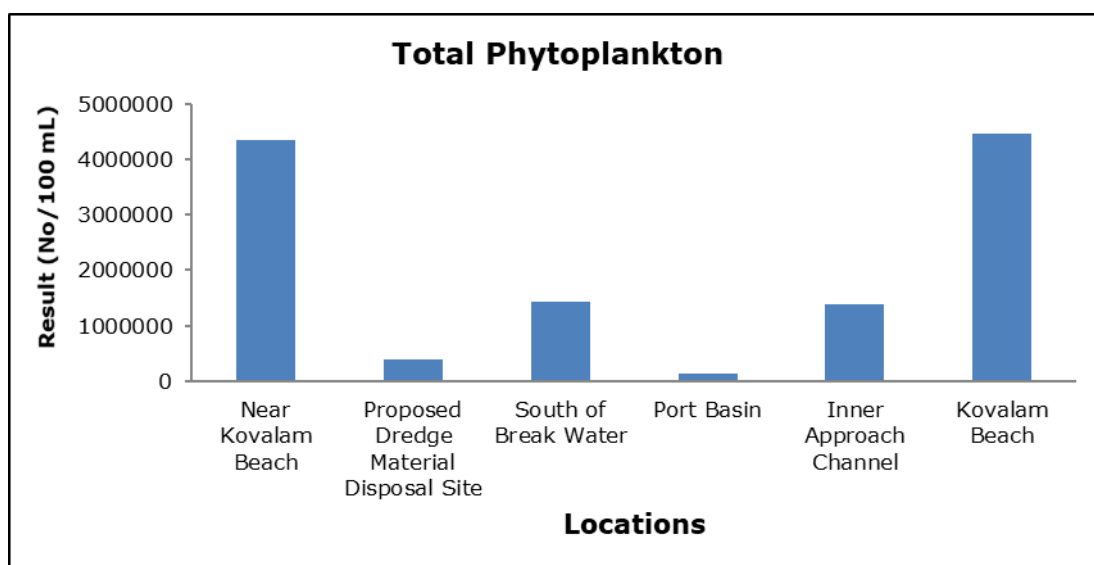
## 4 b. Sediment Analysis



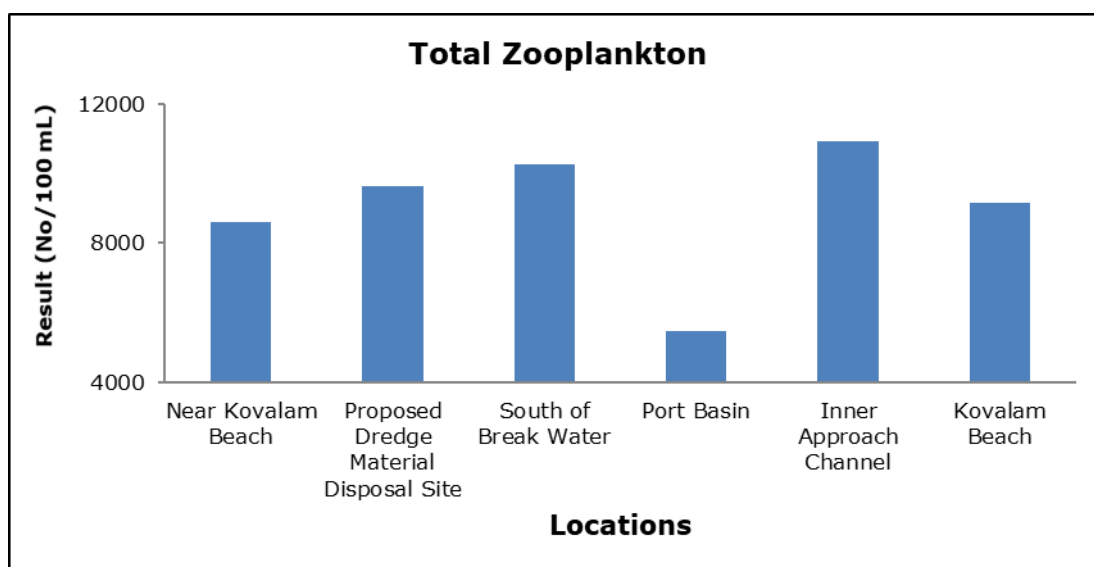




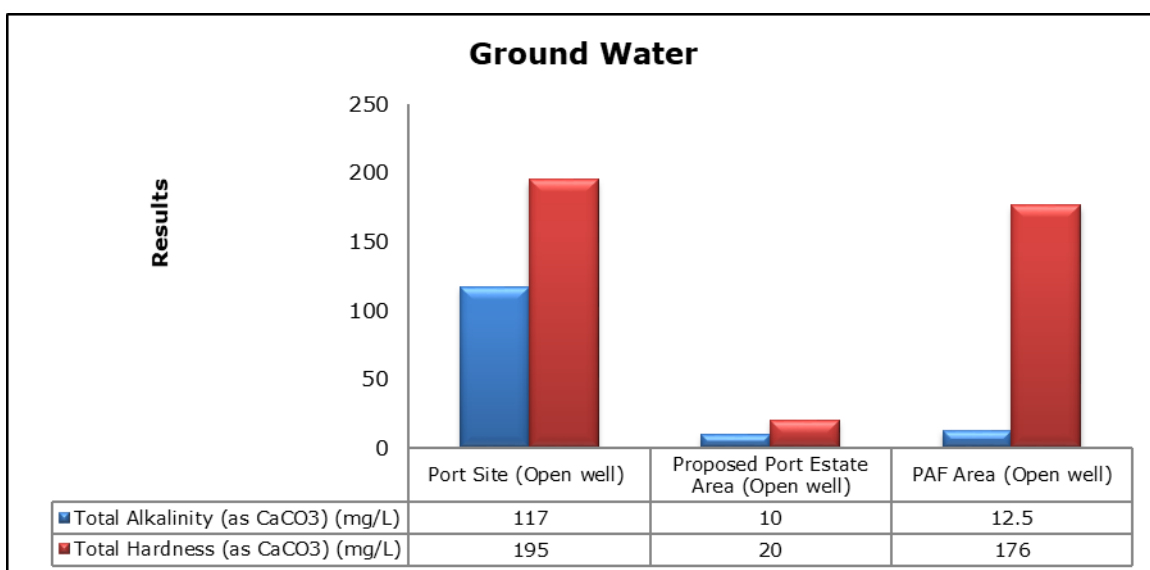
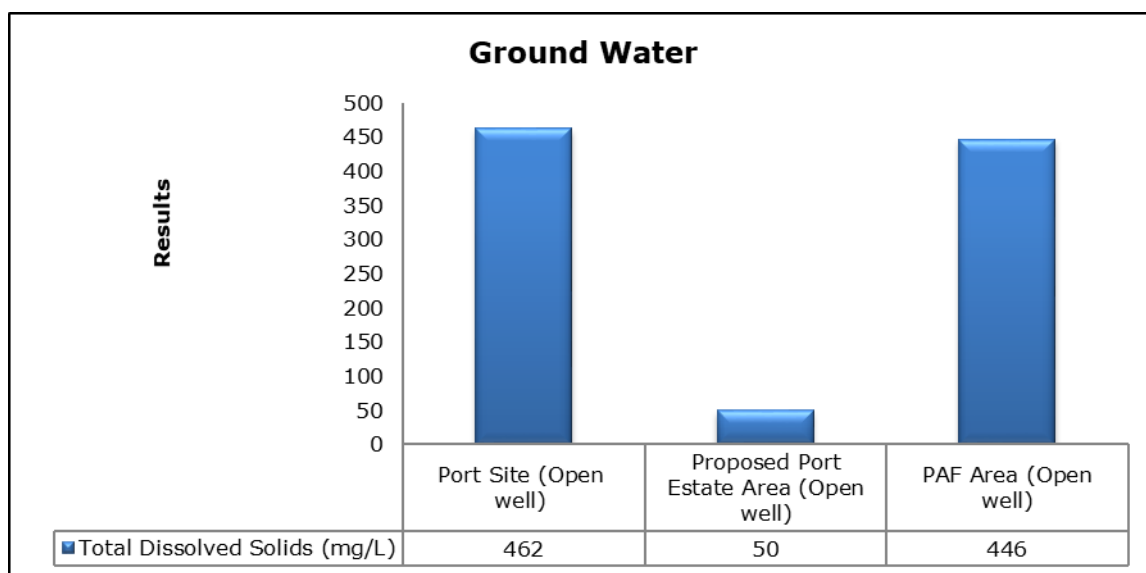
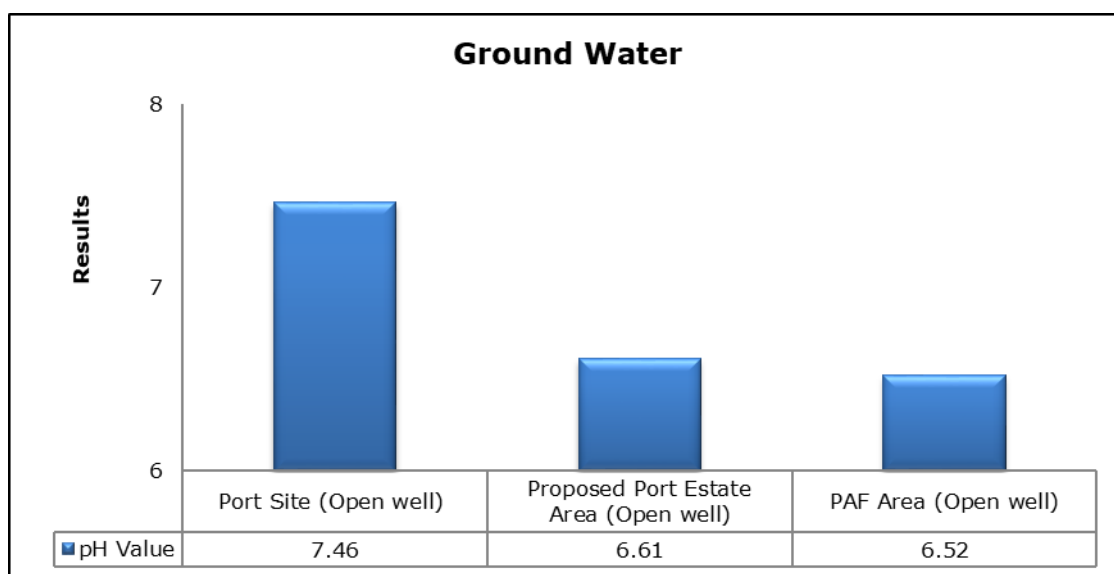
#### 4 c. Phytoplankton Analysis from Marine Samples

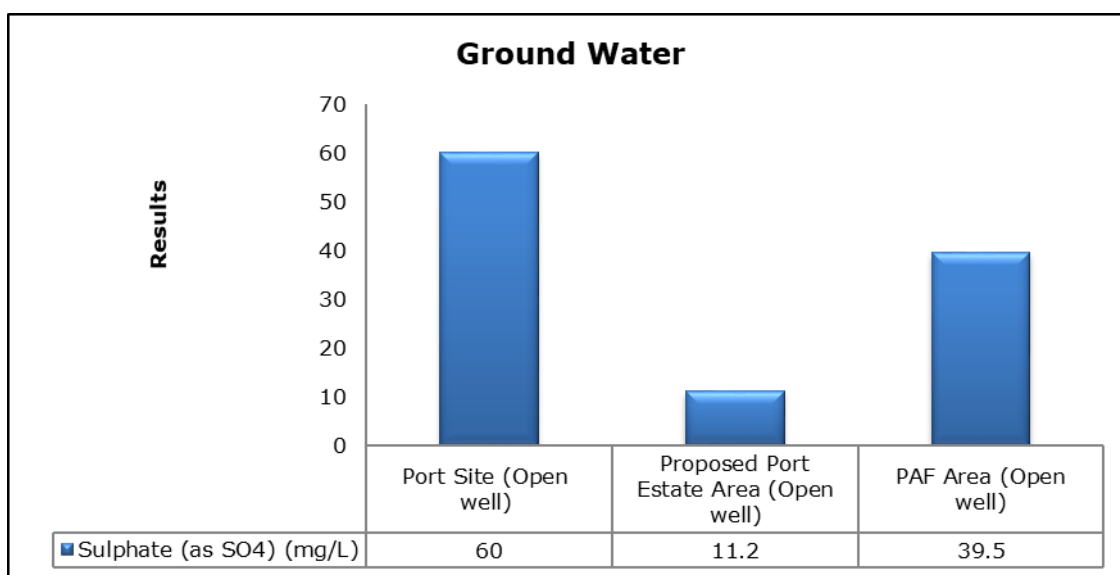
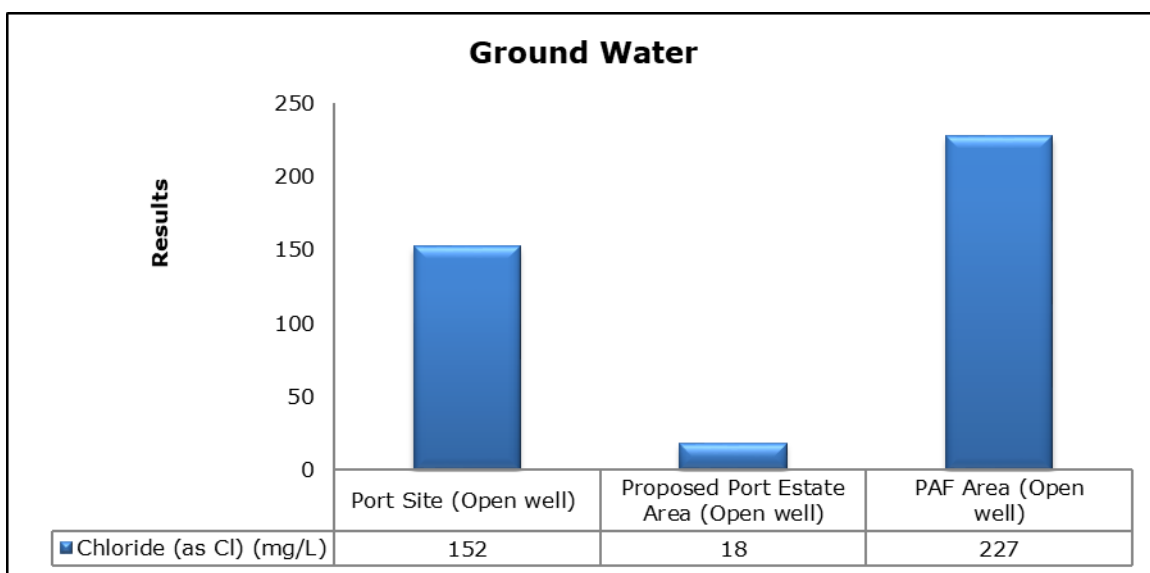
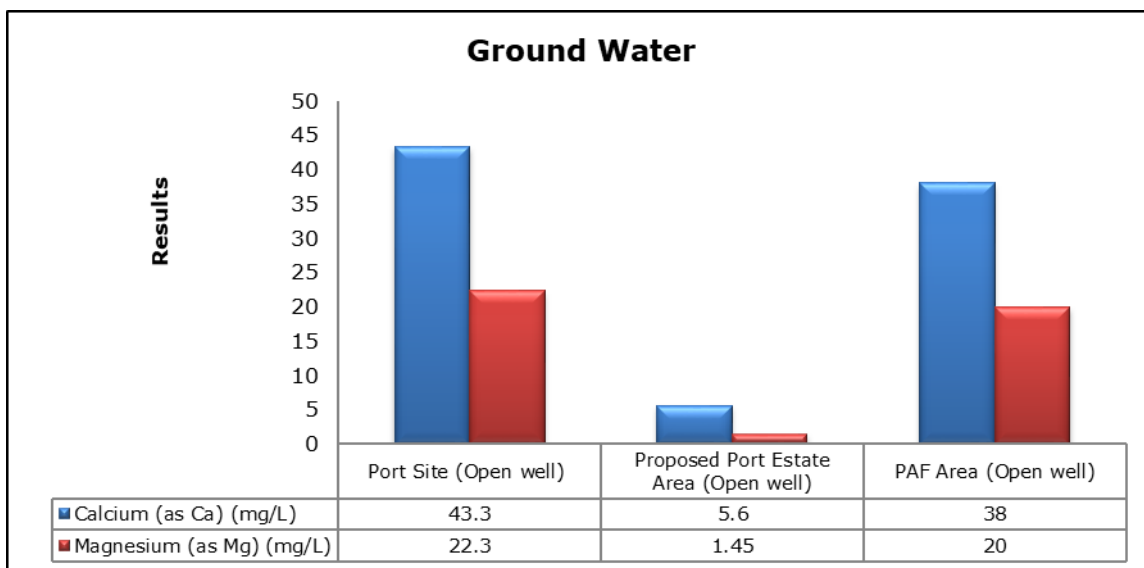


#### 4 d. Zooplankton Analysis from Marine Sample

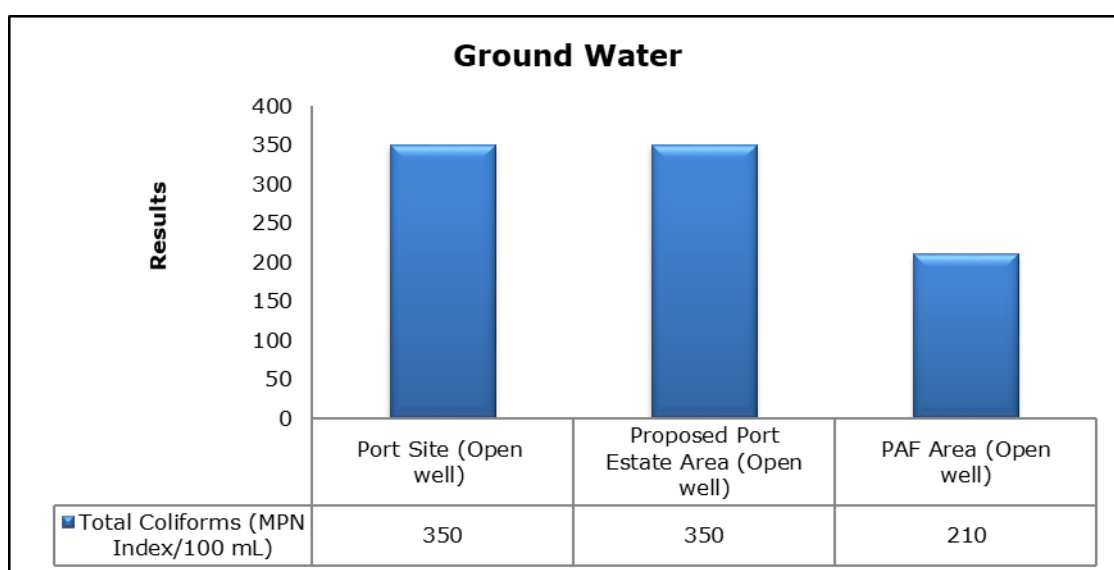
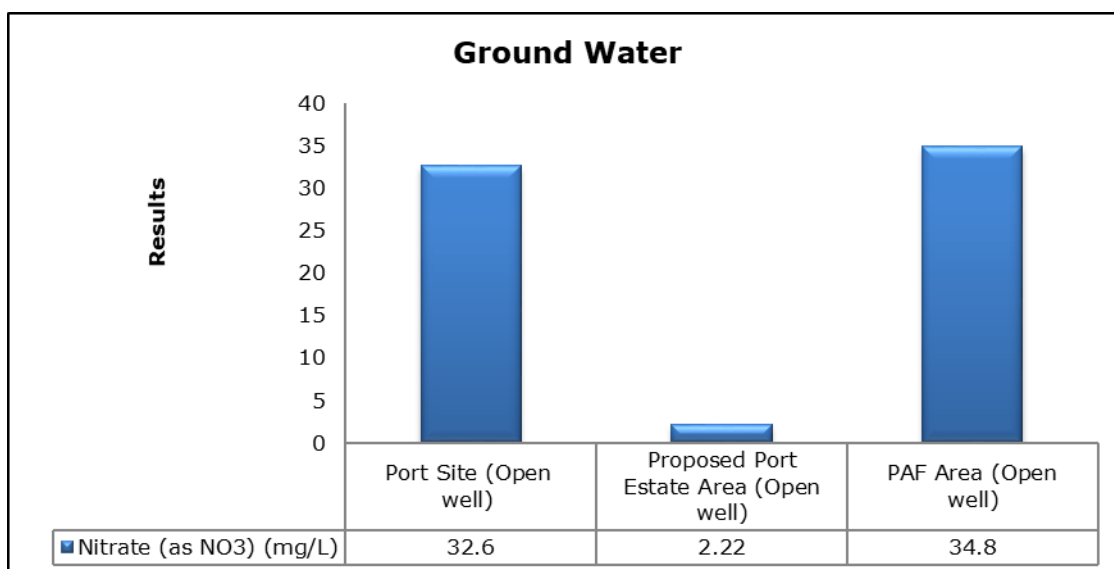
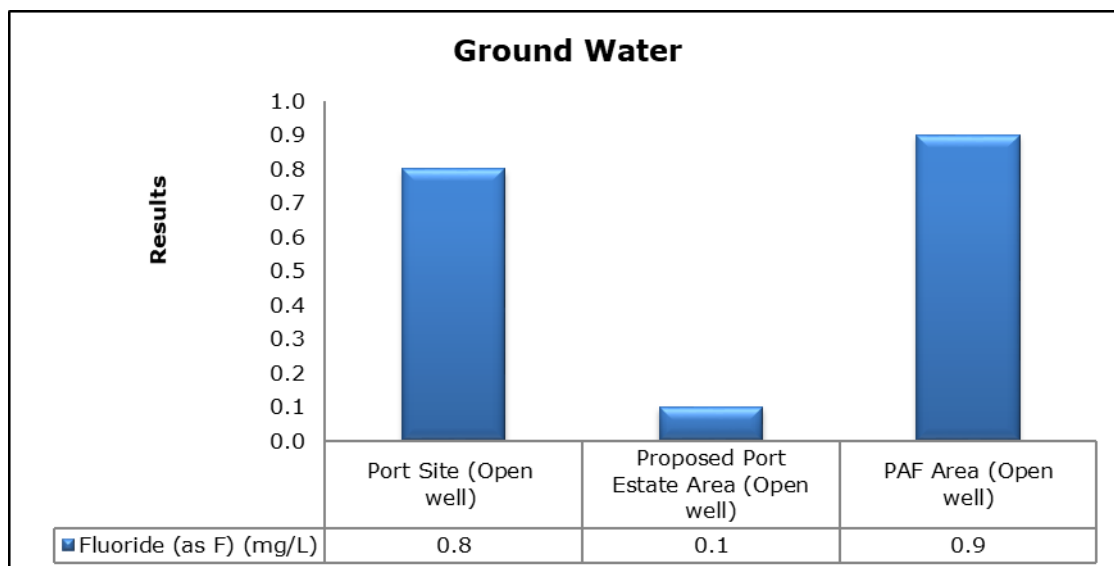


## 5. Groundwater Analysis









## 6. Surface Water Analysis

