

Water Quality Monitoring in the Peel-Harvey Catchment

ESTUARINE SAMPLING

Current sampling sites:

- 6 sites on the Peel-Harvey Estuary

Current sampling frequency:

- Physical parameters and phytoplankton are sampled fortnightly
- Nutrients are sampled monthly

Current parameters monitored:

Physical:

- Dissolved oxygen
- Salinity/conductivity
- Temperature
- pH
- Turbidity

Surface nutrients:

- Total Nitrogen and Nitrate and Nitrite (NO_x)
- Total Phosphorous and Filterable Reactive Phosphorous (FRP)



Phytoplankton:

- Chlorophyll α

CATCHMENT SAMPLING

Current sampling sites:

- Serpentine River sub-catchment
 - Nambeelup Creek
 - Dirk Brook
 - Doghill
- Murray River sub-catchment
 - South Dandalup River
- Harvey River sub-catchment
 - Meredith Main Drain
 - Old Bunbury Road
 - Mayfield Main Drain
- Drakes Brook Drain

Current sampling frequency:

- Fortnightly in winter and monthly in summer

Current parameters monitored:

Physical:

- Dissolved oxygen
- Salinity/conductivity
- Temperature
- pH
- Turbidity
- Total suspended solids
- Total organic carbon
- Dissolved organic carbon

Nutrients:

- Total Nitrogen and Nitrate and Nitrite (NO_x)
- Ammonia as nitrogen (NH₃-N)
- Particulate, total and dissolved organic nitrogen
- Total Phosphorous and Filterable Reactive Phosphorous (FRP)

Phytoplankton:

- Chlorophyll α

GAUGING STATIONS EQUIPPED WITH AUTOSAMPLERS

Current sampling sites:

- Serpentine River sub-catchment
 - Karnup Road
 - Doghill
 - Dirk Brook
 - Gull Road Drain
 - Nambeelup Creek
- Murray River sub-catchment
 - Pinjarra
- Harvey River sub-catchment
 - Old Bunbury Road
 - Mayfield Main Drain
 - Meredith Main Drain
 - Samson Brook
- South Coolup Drain

Current sampling frequency:

- Fixed interval samples are collected at all sites.
- Site visits are conducted weekly to download the data, collect the samples and transport the samples to the laboratory for analysis.

Current parameters monitored:

- Total Nitrogen
- Total Phosphorous
- Total Suspended Solids