

## Tuna Assist System Entering Environment Data

There are 2 different screens to enter in Environment Data, the first method is using the Site Environment Monitoring Screen and as the name suggests that its for the whole site location and not to an individual cage.

The screenshot shows a software window titled "Site Environment Monitoring" with a blue title bar and standard Windows window controls. The interface is divided into several sections:

- Navigation Tabs:** "Details" (selected), "Secchi Depth", "Zooplankton / Jellyfish", "Dinoflagellates", "Diatoms".
- Form Fields:**
  - "Company Name" with a search icon.
  - "Site Name" and "Monitor Date" (set to 20/05/2006).
  - Temperature readings at 0, 1, 3, 5, 10, and 15 meters for both AM and PM.
  - Salinity readings at 0, 1, 3, and 5 meters for both AM and PM.
  - Dissolved Oxygen (DO) readings at 0, 3, and 5 meters for both AM and PM.
  - "Halocline Depth(m)" field.
  - "Comment" field with a right-pointing arrow.
  - "Monitor Time" field.
  - "Extra Parameters" button.
- Footer:** A row of navigation buttons: "Save", "Find", "Delete", "Reset", "Print", "Refresh", "Cancel", "Help", and "Import". Above these are keyboard shortcuts: "K", left arrow, right arrow, and ">".

There are many additional pages to this screen for many environment fields.

The other method is the Cage Environment Monitoring Screen. Where this method has 2 screens to fill out the first being the Cage Environment Monitoring Screen

**Cage Environment Monitoring**

Date: 20/05/2006

Site Name: [?]

Collector: [?]

Comment: [ ] >>

Environment Items:

| Location | Cage Id | Temp 1 (m) | DO (ppt) | DO (%) |
|----------|---------|------------|----------|--------|
|          |         |            |          |        |
|          |         |            |          |        |
|          |         |            |          |        |

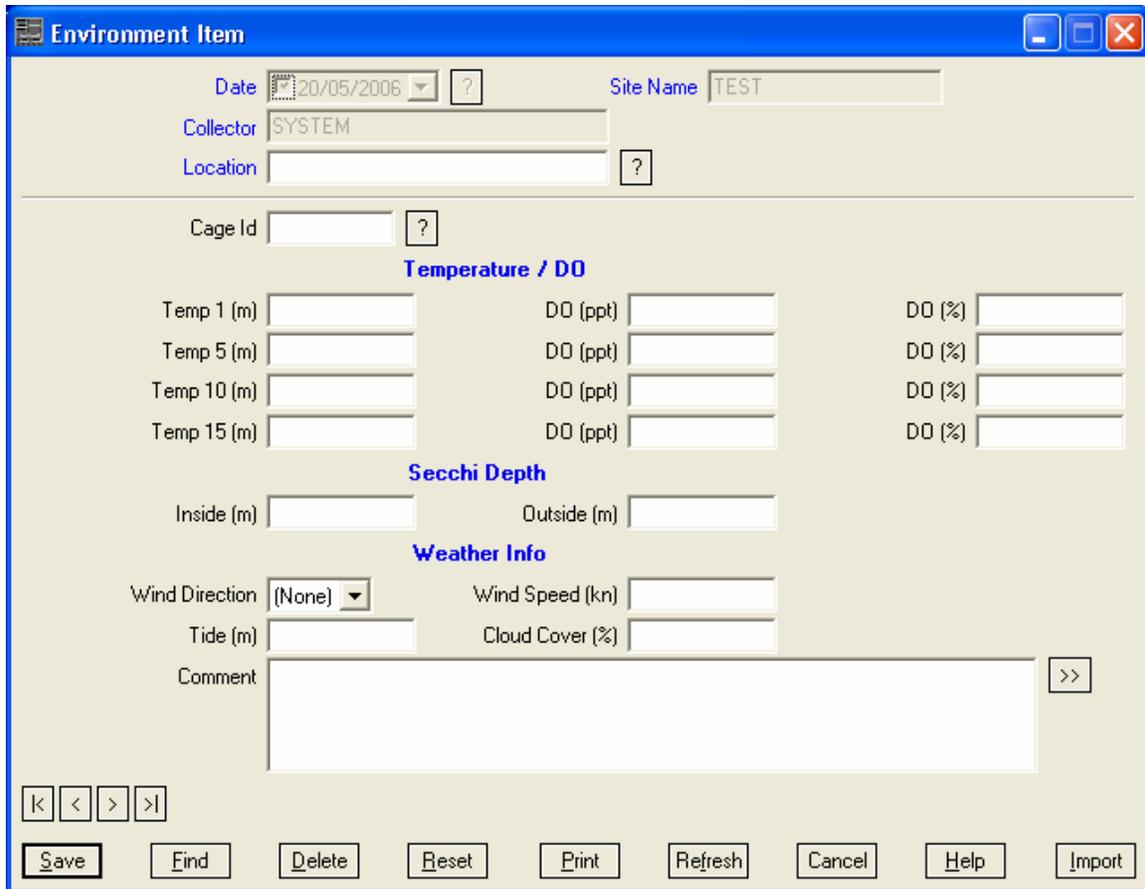
< [ ] >

[K] [ < ] [ > ] [ >> ]

Save Find Delete Reset Print Refresh Cancel Help Import

This screen must be filled in with the date, site name and collector (the person who collected the data).

After saving the record you can then click on the add button which will open the Environment Item Screen



**Environment Item**

Date: 20/05/2006 Site Name: TEST

Collector: SYSTEM

Location: [?]

Cage Id: [?]

**Temperature / DO**

|             |          |        |
|-------------|----------|--------|
| Temp 1 (m)  | DO (ppt) | DO (%) |
| Temp 5 (m)  | DO (ppt) | DO (%) |
| Temp 10 (m) | DO (ppt) | DO (%) |
| Temp 15 (m) | DO (ppt) | DO (%) |

**Secchi Depth**

Inside (m) [ ] Outside (m) [ ]

**Weather Info**

Wind Direction: [None] Wind Speed (kn) [ ]

Tide (m) [ ] Cloud Cover (%) [ ]

Comment: [ ]

Navigation: [K] [ < ] [ > ] [ | ]

Buttons: [Save] [Find] [Delete] [Reset] [Print] [Refresh] [Cancel] [Help] [Import]

This is where you select the Location and the option of choosing a particular cage id.

There are 2 other additional screens for specific environment data and they are:

Phytoplankton Monitoring

**Phytoplankton Monitoring**

Location  ?

Sample Date

Sample Time

Sample Depth (m)

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Water Temp (c)

Secchi Depth (m)

Cell Count (per Litre)  Diatom Count (per Litre)

Dino Count (per Litre)  Ichthyotoxic Count (per Litre)

Dominant Diatom sp.

Dominant Dino sp.

Ichthyotoxic sp Present

Comment  >>

[k] [ < ] [ > ] [ >| ]

[ Save ] [ Find ] [ Delete ] [ Reset ] [ Print ] [ Refresh ] [ Cancel ] [ Help ] [ Import ]

And Benthic (Sea Bed) Monitoring

**Benthic Monitoring**

Details | Animals

Monitor Date: 20/05/2006  
Cage Id: ?  
Monitor Time: 14:52  
Visibility (m):

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Degree of Bioturbation: (None)  
Amt of Undulation: (None)  
Amt Natural Organic Detritus: (None)  
Sand Colour: (None)  
Grain Size: (None)  
Degree of Macroalgal Cover: (None)  
Degree of Seagrass Cover: (None)  
Degree of Sponge Cover: (None)

Comment: >>

[K] [ < ] [ > ] [ | ]

[ Save ] [ Find ] [ Delete ] [ Reset ] [ Print ] [ Refresh ] [ Cancel ] [ Help ] [ Import ]