

## Handout - ShoreWatch Cheat Sheet!

### Downloading the apps:

Download Field Maps and Survey 123 from your app store; login provided through VIMS. Log in to both apps with the same login information. Make sure you click on the ShoreWatch 4.0 map in Field Maps (good practice is to reload the map every time you go to use it to update all the data).

### Set up the site:

- **Monitoring Site:** bigger box where all your shoreline treatments will live; you can set this up at home before going in the field. You will need to insert all the information (E.g., permit number). If adding a first-time site, click the blue + button and add site.
- **Living Shoreline Treatment:** the various Living Shoreline (LS) Treatments within the monitoring site (E.g., marsh with rock sill, marsh with oyster castles). This is the smaller box within the bigger box and will contain all the different LS features.

- Click on your Monitoring site → Related → Living Shoreline Treatments → Choose treatment type → Add points → Enter background information → Submit.

### Tier I

#### - **Connect mobile device to GPS unit:**

- Connect to GPS in your phone/tablets Bluetooth settings and in the GPS unit settings.
- In Field Maps, click: Top left “profile” icon → Location → Provider → Switch provider from “integrated” to whatever GPS you are using (E.g., Bad Elf).
- LS Treatment features: once you have mapped the LS Treatments, you need to create all the different features that make up that treatment (E.g., the shoreline structures, marsh zones).

- **Shoreline Structures:** you can draw the structure you have present (E.g., rock sill or oyster structure). You need a GPS to accurately take the points for this, and once you have created it, you can indicate if you will take plot measurements for the structure. If you click yes, this will unlock the feature to add structure plot points (See “Tier II” for more information).

- To navigate to structures: Click on your LS Treatment polygon (either click it on the map or click your Monitoring Site and scroll down to “Living Shoreline Treatments” → Scroll down to “Related” → “Shoreline Structures”).
- If recording a new monitoring data event, select the already created structure layer → click the green “Record Structure Measures (Overall Structure)” button → opens the S123 form.

- **Marsh Zones (LM & HM):** You can delineate the marsh using periodically spaced points or by continuously streaming; you will need your GPS for both. The following steps are to be taken for the HM zones as well.

- Click your LS treatment → Related → Marsh vegetation zones (low & high marsh) → Add → Low Marsh (or High Marsh) → Add Point.
- To delineate continuously using GPS, do not click “Add Point”, instead, click the three dots to the right of Marsh Vegetation Community → “Start streaming”.
- To collect monitoring data for the marsh area, click the marsh polygon → “Marsh Zone (Overall Assessment)” → opens Survey123 form.
- IF only collecting Tier I data, take Marsh Width: under “Monitoring site” → “Related” → “Marsh Width Transect”. You will need to delineate this line with a GPS. The width measurement taken will be entered in the Survey123 form “Marsh Zone”.

- **Planted Marsh Area:** If any portion of your marsh is planted, you will have to create a polygon for this feature. The steps to add a polygon are the same as for Marsh Zones.

- Monitoring site → Related → Living Shoreline Treatments → Planted Marsh Area → Add

- **Wildlife Observations:** You can record the presence of wildlife.

- Monitoring site → Record Wildlife Observations.

- **Grazing Exclusion Status:** Add presence or absence of grazing exclusion structure.

- **Tide Stage:** Add tide information every time you go out to monitor.

- **Overall Upland Bank Condition:** Information on veg cover, type, bank height and slope.

- **Erosion & Other Problem Areas:** Add a point where you can specify marsh or bank erosion.

- **Photo Station:** Monitoring Site → related → Photo Station.

## Tier II

- **Transects** (linear) & **plots** (points): the number of transects you will have will depend on the width of your project.

- Click the LS Treatment → Related → Transects → Add.
- Once you have added transect one → plot LM (or HM, etc.) → “record transect plot measures” → Survey123 → You will also need to insert Marsh Width information here.

- **Specific Bank Measurements:** LS Treatment → Related → Specific bank measurements → Add (adds point) → submit → Survey123.

**Important:** Every time you go out to monitor, go to Monitoring Site → “New Monitoring Event” to add information about your site visit.