

# **Release Plan**

## **Marine Plastics Monitor 2019**

### **Release 3: March 2019**

#### **Revision 2.0**

- **High level goals:**

- Clean up existing code from previous release
- Update website UX so users can easily collect and enter data into database
- Create an easily digestible way to view and analyze previously collected data
- Polish the pre-existing website's feature as well as add in more user-friendly functions
- Make the UX multi-language/nationality

#### **User stories for release:**

- **Sprint 1**

- (5) As a developer, I want to familiarize myself with the technologies needed to continue developing our website.
  - (3 hours) Learn MongoDB, Express.js, React.js, Node.js
  - (1 hour) Communicate with previous team members about the project
- (8) As a developer, I want to have a clean code base to start working on.
  - (1 hour) Modularize code and make code more readable, especially server.js
  - (1 hours) Create code style document (ESLint)
  - (2 hours) Merge API repo with regular repo
  - (1 hour) Create an .env file for local testing and deployment.
  - (2 hours) Create development database
  - (2 hours) Set up Mocha and Chai testing
  - (3 hours) Learn Google Maps API

- **Sprint 2**

- (3) As the site owner, I want my site to run smoothly and professionally
  - () I want to make sure that the accounts signing up have valid emails.
  - () Handle 404 errors
  - () Host pdfs directly on our site
- (3) As somebody inputting data from surveys, I want to be able to edit and

delete the data from my surveys.

- () Link email to surveys and only allow users to edit/delete their own surveys.
- () Ask COI how they want admin privileges given.
- (1) As a user inputting data, I want the database entry form to match all elements of the hard copy COI survey form
  - () Remove (maybe add?) the styrofoam category.
  - () Add food/organics category.
  - () Slope titled differently
- Sprint 3
  - (10) As a user browsing data, I want to be able to visualize where trash has been picked up using an improved map.
    - () "expected length NaN"
    - () Add some info that pops up when you click on a location
    - () Make map locations/pins more visible
  - (8) As a user entering information, I want my experience filling out tedious forms to be as easy as possible
    - () Ability to save static info about frequently visited beaches
    - () Make it easier to use data already entered for rib scan and reuse for accumulation sweep that occurred on the same day
    - () Prevent duplicate beaches being added under different names (e.g. New Brighton Beach vs. New Brighton) → add in a suggestion feature
    - () Tide height needs unit of measurement
    - () Wind speed needs to show knots
    - () Degree symbol for compass direction

## Product Backlog

- Create a mobile app to make data collection in the field more friendly, OR mobile optimize the site
  - Phone scanner
- Show plastic distribution on the beach through Pie chart
- Improve data visualization to analyze data
- Site should be able to display different languages/units depending on language/location
  - Latitude/longitude: account for different methods of collecting that information

Last modified: **1/28/2019** (Added to document)



