

Design Change Document One

14 February 2017

Team Two: Wisconsin DNR Water Inspection App

1. Options of 'Yes', 'No', 'N/A' will be filled in from the backend based off of how the user selects the further information for the specific element.

- a. Element header sections will change colors when the main header questions are answered.

Rationale: This will simplify how the user moves through the web app. There are a wide range of users with varying expertises using this app so this will eliminate confusion and

2. Agency field will only be the options of 'DNR' or 'COUNTY'.

Rationale: Having just the two options will eliminate error from the user. If we were to include an 'Other' option, it just creates more confusion. If there were to be more options, they would need to be specific.

3. Corrective actions will need further validation. Corrective actions should only be allowed if at least one of the previous elements is answered with a 'Yes'. If at least one element is answered 'Yes', then a corrective action is required. If all elements are answered 'No' or 'NA' then the corrective action should not be allowed or disregarded.

Rationale: We hadn't fully thought out how the 'corrective action' would be used. This change implements the corrective actions correctly and allows the user to fill out the form completely.

4. Will be adding a character limit to input areas.

Rationale: This will allow for the information inputted by the user on the form to be inputted to the Wisconsin DNR database. In order to transfer data over, the character limit needs to be the same so all the information transfers over.

5. If an element is left unanswered then the error message will be shown before moving to the 'Review and Print' screen. The error message will also be more specific and have further description of what element is causing the error and where the buttons on the error message take you (action that is executed).

Rationale: This would keep the user on the screen and improve usability. Being descriptive eliminates confusion amongst the users. This ties into number one with color coordinating responses in order to guide the user through the app.

6. Change design so that it is more mobile-friendly.

Rationale: Majority of the users will be completing the app on mobile devices so we need the web application to be as user-friendly as possible. Currently our design is not targeted towards mobile devices.

7. Update UI features to be more appealing to the eye. This includes consistent color scheme throughout the app, utilizing font size to emphasize specific areas and changing the arrows on the form tabs to be consistent with the “standard” of right for closed and down for expanded.

Rationale: These updated UI changes will make the app easier for the users to read and follow. This ties into our goal of usability of the app.