CIE Engineering Capstone: Health and Local Environment Impact Assessment

1. Summarize general demographics for the location in which the work is being scoped; include characterization information on racial and ethnic composition, age demographics, wealth distribution, and one additional factor (of your teams' choice) to help understand who lives in the location in which your project is being undertaken.

2. Identify 3 communities who may be impacted by the work being scoped; '*communities*' can be defined as is relevant for your project and can be identified by: size factor (##), scale factor (geographic), or focus factor (special interest or activity; age-restricted demographic).

3. For each of the 3 communities identified, describe at least one potentially health-positive benefit of the work being scoped and at least one potentially health-negative impact of the work being scoped.

4. Provide 3 spatially-contextual details on the location in which the work is being scoped; think about this as describing the site within the neighborhood; the neighborhood within the general side of town; and the general side of town within the city; for rural projects, consider the site within the town, the town within the county and the county within the larger area or district.

5. In the vicinity of the project during implementation, identify preliminary potential impacts to:
   - waterways and water quality
   - air quality
   - soil stability
   - food-growing potential and local food security
   - community access and mobility
   - community exposure to hazards in the environment

6. Following implementation, identify potential outcomes of the project with respect to:
   - waterways and water quality
   - air quality
   - soil stability
   - food-growing potential and local food security
   - community access and mobility
   - community exposure to hazards in the environment