**Test Plan(s):**

**Task 1 – Research Web Services and API’s:**

* N/A

**Task 2 – Pull weather data from NOAA:**

* Perform Unit testing to ensure all weather variables were collected for all 168 hours of the week.
  + # of predictions received from NOAA
    - Temperature –
    - Relative Humidity –
    - Wind Speed –
    - Concrete Temp (Surface water) -
* Unit test different zip codes in different states:
  + Hawaii – 96701
  + Illinois – 62034
  + Alaska - 99559
  + California – 90001
  + Florida – 32003
  + Maine – 03901
  + Texas – 73301
  + Washington – 98001
  + Michigan – 48001

**Task 3 – Parse weather data:**

* Perform Unit testing to ensure that the data is formatted correctly.

**Task 4 – Create function to calculate evaporation:**

* Using NOAA’s weather variables compare evaporation rate to Nomograph to ensure that the calculated evaporation rate is in fact the actual evaporation rate.
  + Temperature –
  + Relative Humidity –
  + Wind Speed –
  + Concrete Temp (Surface water) -
  + Evaporation rate Nomograph –
  + Evaporation rate Software -

**Integration testing**

* Test to see if the data can be pulled from NOAA, parsed, and then the evaporation calculated.