**Meter Number Data:**

Meter numbers categorized into appropriate pressure zones with below changes incorporated:

1. 34 Hydro
2. 59 Hydro
3. 101 Hydro
4. 149 Hydro
5. Baldridge Cyn -> Foothill
6. Canal -> Canal 1, 2, and 3
7. Foothill
8. Highland Upper -> Intermediate
9. Intermediate
10. Lower
11. Mercedes -> Foothill
12. Mountain
13. Upper

After the changes, the dataset should have the following zones:

1. 34 Hydro
2. 59 Hydro
3. 101 Hydro
4. 149 Hydro
5. Foothill (Foothill, Baldridge Cyn, and Mercedes)
6. Canal 1
7. Canal 2
8. Canal 3
9. Intermediate (Intermediate and Highland Upper)
10. Lower
11. Mountain
12. Upper

Final output should have meter numbers and associated pressure zone numbers

**Daily Consumption Data:**

Range: 2020-09-30 to Present (likely until early 2022-04-10)

Final output should have account numbers, meter numbers and consumption numbers

**Aggregated Consumption Data:**

All the daily consumption data from the available date range should be stacked

Remove San Manuel Band of Mission Indians: account numbers are 0132-0248-01, 0115-0205-00, 0115-0201-00 and 0021-0210-00

\*Remove all negative consumption data <- will consult with Rocky to figure out if we should remove them since they could be corrections for misread consumption or returns back to the system

The daily consumption data should be tagged with corresponding pressure zone number via meter number

Aggregate by date and then zone; the resulting data should have each zone’s total consumption daily

The resulting consumption+zone data should be divided into separate consumption data by zone, that is, each zone’s data should be by themselves

Winsorize at 0.1% to correct for outliers at the top and the bottom for each zone

Final output should be a consumption dataset for each zone

**Final Data:**

Merge each zone’s consumption data with the daily climate data and create day variables (Mon, Tues, Wed, etc. so that the Mon column, for example, has 1 if Data is Mon and 0 otherwise)

Final output should have each zone’s consumption data with date, consumption, zone, climate variables, and day variables

Things to ask Rocky:

1. Negative Consumptions
2. Outliers
3. Highland Upper part of intermediate or upper?
4. More consumption data past 2-27-2022 (2-28-2022 to 4-10-2022 at least)
5. Past water usage data by zone
6. Some of the meters assigned to two zones

- PRV108 is not in the hydralic map. What zone does it come from and where does it go?

-I know we have talked about the Highland Upper Zone before, but I wanted to confirm with you again today because I noticed that it connects to both the intermediate and the upper zone in the hydralic map. For our purposes, should we include Highland Upper as a part of the Intermediate Zone or the Upper Zone?

- PRV301, PRV302, PRV306, and PRV308 are PRVs that we are not sure which zones to designate to.

Flag about the data usage issue to professor Park