The dataset contains rainfall precipitation data as measured by the City's rain gauge network. The City's rain gauge network consists of a number of rain gauges distributed across the City that measure precipitation at five (5) minute increments (interval). The data recorded is the amount of precipitation at the location during a five (5) minute interval. The City's rain gauge network consists of 3-season and 4-season gauges. The 3-season gauges measure and record precipitation from April 1st to October 31st. The 4-season gauges are operational all year-round. The number of gauges fluctuates due to addition or removal of a few temporary gauges.

The tentative list of 3-season gauges is as follows:

RG\_001, RG\_002, RG\_003, RG\_004, RG\_006, RG\_007, RG\_012, RG\_013, RG\_014, RG\_015, RG\_020, RG\_021

RG\_022, RG\_023, RG\_024, RG\_025, RG\_027, RG\_028, RG\_030, RG\_031, RG\_033, RG\_034, RG\_035, RG\_036, RG\_037, RG\_039, RG\_040, RG\_041, RG\_042, RG\_044, RG\_045, RG\_046, RG\_047, RG\_048, RG\_049, RG\_050, RG\_051, RG\_052, RG\_053

The tentative list of 4-season gauges is as follows:

RG\_016, RG\_017, RG\_018, RG\_019, RG\_038

Dataset Files and Packaging:

The data for a respective year is packaged into a zipped file containing data in either CSV or JSON format as rainfall[yyyy]\_csv.zip or rainfall[yyyy]\_json.zip.

(Data is available from June 2015)

The Zip contains data for each month in that year in two files depending on the format chosen as follows :–

rainfall[yyyymm].[json/csv] and sites[yyyymm].[json/csv]

(For current year data is updated till the previous month)

The file, sites[yyyymm].[json/csv] contains details pertaining to the sites active during that month with information on id, name, longitude & latitude

The file, rainfall[yyyymm].[json/csv] contains site specific details and includes rainfall measurements during that month at that site with information on - id, name, longitude, latitude, rainfall(amount and timestamp).

Any anomalies in any of the rain gauges is noted and is available in a separate file raingaugenotes.zip. The file contains all notes pertaining to a specific rain gauge.

Glossary of dataset contents:

Rain gauge: a device for collecting and measuring the amount of rainfall

Sites: Currently installed Rain gauges are referred to as sites. Unique identifiers like ID and name can be used to distinguish a site and are listed along with the location of the site

Date: The date-hour-minute (time stamp at which) the rain was measured and logged in the format of YYYY/MM/DD hh:mm:ss

Rainfall: Rainfall in the dataset refers to the amount (mm) collected during the time period.

Notes: Any anomalies to be noted in the dataset.

Note: CSV data can be viewed in MS Excel.

Disclaimer:

The data provided by the City is for your information only and City does not warrant accuracy of the data and will not take any liability. Precipitation accumulation can be impacted by a number of factors including: non-functioning

equipment, uncalibrated equipment, vandalized equipment, frozen equipment( in the case of 3-season gauges, jamming of the equipment (fallen leaves and twigs), errors in collection, errors in transfer of data, error in downloading and posting of data, and interference to the natural flow of air from adjacent structures (building, trees etc).