**Base File:**

***LinkID*** = unique link ID for each link (road segment)

***YearID***= year of analysis in this case 2020

***MonthID***= Month of analysis 1-12, however, in the emission file all rates are averaged over the 12 months period.

***DayID=*** 5 & 7, Weekday and weekend, We only consider week days

***HourID=*** 1-24,

***CountyID***= ID of the county that link is located in, 1-10, we only work with Counties from 1-5, The NYC area.

***DirectionID*** = 1,-1 one-way or two-way roads

***Lanes*** = number of lanes in on link

***Fclass:*** type of road 1-16, for instance highway versus minor local rodas

***MOVESRoad Type ID***: similar to Fclass but it ranges from 1-6

***Link Length:*** Link Length in mile

***Flow:*** Traffic volume per hour

***Total travel time:*** travel time on the link that consider congestion

***Speed***: travel speed on the line

Emission per link is generally a function of:

Travel activity (VMT = Traffic Flow \* link length) & speed & fleet mix (type: light versus heavy, age) & Fuel type

**Emission Rate File**

The emission rate file contains emission rate (gr/mile) and total emission in gram (emission rate \* VMT) for each link for each hour (1-24).