Documentation on Using Street Sweeping Resources

In order to input an address and output a street sweeping schedule, a two-step lookup is required.

The first lookup uses the locator service to resolve an address to a street segment “carteid”. The second step queries the pavement layer on the city’s street centerlines file to return the sweep_left and sweep_right route fields for the given carteid. The sweeping schedule can then be extracted directly from the Routes table that contains all of the sweeping schedules.

The locator service (address to carteid and side) is located at: http://maps.pittsburghpa.gov/primary/rest/services/PGH_Sweep_Locator/GeocodeServer/findAddressCandidates

The pavement layer (carteid to sweep_left and sweep_right) is located at: http://maps.pittsburghpa.gov/primary/rest/services/PGH_Centerline/FeatureServer/0/query

Demo:

Step 1: Lookup “carteid”

Using the URL below, the locator service takes a street address as input and returns some candidate street segments. The “Street_ID” is the “carteid” field in the pavement layer.


We’ll take note of the “Street_ID” field, and also the “Side” field:

**Address Candidates: (# address candidates : 2)**

*Shape:*

*Point:*

  *X*: -8896823.093870372  
  *Y*: 4928817.657408136

*Score*: 89.04  
*Address*: 2306 SHERBROOK ST ST, 15217  
*Score*: 89.04

**Street_ID**: 2306 SHERBROOK ST ST, 15217  
*Side*: R

*From Addr*: 2300  
*To Addr*: 2366  
*Pre Dir*:  
*Pre Type*:  
*Street Name*: SHERBROOK  
*Suf Type*: ST ST  
*Suf Dir*:  
*City*:  
*State*:  
*ZIP*: 15217  
*Ref ID*: 14127  
*X*: -8896823.093871  
*Y*: 4928817.657408  
**Street_ID**: 11229

*Addr Type*: StreetAddress

So, the carteid street segment ID is 11229.
Step 2: Next, we’ll query the pavement layer (available via a different service) to lookup the details for segment 11229:


This returns all of the fields for the given road segment, including the “sweep_left” and “sweep_right” columns, which are populated with the route IDs for the sweeping routes that that street segment is on:

We know from our first lookup that the address is on the relative right-hand side of the street. Thus, we conclude that this address is swept on the 4th Tuesday of the month, and the opposite side of the street is swept on the 4th Monday of the month.

In order to determine the day of the week/week of the month, you can either look at the last two characters of the route ID (4M = 4th Monday) or you can use the RouteID in the “sweep_left” and “sweep_right” as a lookup to the Routes table.