BRIDGEPORT CHARTER TOWNSHIP STRUCTURAL STORMWATER CONTROL OPERATION AND MAINTENANCE ACTIVITIES

Bridgeport Charter Township has used its zoning map as basic decision criteria for the prioritization for catch basins in those zones. The DPW will look at the areas every two years to determine if there exists a need to change the priority of an area or zoning section of a region in the community due to an increase in litter or other refuse that may get into the street catch basins. For example; a large box store develops and there is an increase in litter from shopping bags or discarded drink containers; a residential area has significant increase in leaf litter due to trees that have reached maturity. It should be noted that this is only for catch basins owned by the township, in the township owned streets. It does not apply to MDOT roads or private developments.

Procedure steps: Use a municipal or zoning/land use map and develop districts based on residential, business/commercial, industrial and open spaces. Overlay the storm drainage system over this map and then proceed to prioritize the areas. Look at age of drainage systems, known drainage problems, areas in floodway or floodplain, areas with gravel roads or parking spaces, and known areas of potential contaminants in proximity to the municipal system. Interview DPW staff for their opinions on problem areas, and review drainage complaints to assist in the prioritization.

This inventory will be updated annually following the construction of a catch basin or a change in the priority level.

Priority A (High):

Commercial/Business Areas, Industrial Areas, Educational Institutions and similar high pedestrian traffic areas. Other areas to consider are commercial areas that have several restaurants or night clubs/taverns, that have a lot of activity on weekends and some evenings. These areas tend to accumulate larger volumes of trash due to heavy foot traffic, material handling issues, large parking areas, or business activities. The inlet grates to the catchbasins in these areas have a lot of trash in them after significant storm events. Other areas to consider are those that potentially can contribute large sediment loads in stormwater runoff and can deposit large quantities of sediment in the catchbasin sumps.

The specific areas are as follows:

- 1. Educational districts.....
- 2. Business district.....
- 3. Restaurant / Tavern district.......
- 4. Industrial Area......
- 5. Park areas, sports areas......
- 6. Gravel/Dirt roads, parking areas......

Priority B (Medium):

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These areas include residential, industrial and commercial areas with low foot traffic, for example, high density residential areas, commercial, medical clinics, small industries where all operations are inside and there are few employees (generally less than 30 staff or employees). These areas can also be located at major intersections that generate moderate amounts of trash. Overall, the DPW staff or drain staff know the area generates moderate levels of trash that collects at the catchbasin inlets or in the open drains and detention areas on public properties.

The specific areas are as follows:

- 1. Commercial district.....
- 2. Light industrial areas......
- 3. High Density housing......

Priority C (Low):

These areas include residential areas that are medium density or single-family homes and have very low foot traffic. These areas are typically well kept up and do not generate much volume are far as trash or debris are concerned.

The specific areas are as follows:

- 1. Residential areas......
- 2. Open Space & Recreational areas.......
- 3. Mixed Urban areas......

Table 1. Catch Basin Priority Designation Summary

Priority	Number of Catch Basins
Priority A (High)	7
Priority B (Medium)	0
Priority C (Low)	4
Total Catch Basins =	11
See map entitled SASWA_BCT_2019_SSWC	

Measurable Goals:

- # of changes in priority per year.
- # of revisions or updates annually after new construction or reconstruction.
- # of individual Catch Basins prioritized after inspection annually.

The catch basins will be reprioritized after the initial inspection according to the criteria in Table 2. When inspecting individual catch basins during routine inspection cycles the following prioritization method will be used to assist in reprioritizing catch basins for inspections and maintenance:

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Table 2. Individual Catch Basin Priority Designation

Catch Basin Condition*	Priority Level
No problems - new system	Low
Sump has no sediment	Low
Sump has 6" of sediment	Medium
Sump has 12" of sediment	Medium
Sump is half full of sediment (within 18 inches of pipe invert)	High
·	TI: al.
Sump has sediment at pipe invert	High
Sump has bad odor	High
Catch basin interior is cracked; sand is coming	High
into the cracks; no displacement is noted at the cracks	
There is settling around the rim; the interior	High
has gaping cracks and displacement; sinkholes	ð
are nearby; the sump is full	
If built out of brick; bricks are failing; bricks	High
are missing; the rim is settling into the street or	
parking lot; the sump is full	

Catch Basin Inspections and Cleaning:

Cleaning all the catch basins at once is more economical than trying to inspect/clean some and not others on different years. The permittee will check all catch basins with a low priority once every 5 years and will clean out the catch basin(s) if sediment or debris is within 18 inches of the pipe invert (half full of sediment) *. The permittee will check all catch basins with a medium priority once every 2 years and will clean out the catch basin(s) if sediment or debris is within 18 inches of the pipe invert (half full of sediment) *. For the high priority catch basins, the permittee will inspect each structure every year and will clean out the catch basin if sediment or debris is within 18 inches of the pipe invert (half full of sediment) *. When a catch basin is cleaned the depth of the sump will be documented. All documentation/reports of these activities will be presented in their permit progress reports.

Please see the Drainage System Maintenance Standard Operating Procedure for additional recommended protocols for the maintenance and cleaning of catch basin/inlet structures.

*For purposes of this procedure, a conservative assumption will be made that the sump is 36 inches deep and the catch basin will be cleaned if sediment is within 18 inches of the pipe invert of the discharge pipe (half full of sediment).

Measurable Goals:

- # of revisions or updates annually after new construction or reconstruction.
- # of individual Catch Basins prioritized after inspection annually.