Statement of Work: Hyattsville SMART Waste Management Study

SCOPE

<u>General</u>

This study shall build on the August 27, 2021 Hyattsville Solid Waste Collection Study prepared by SCS Engineers, providing greater detail on the relative benefits and costs of SMART waste management programs.

Describe and generally discuss the costs of benefits of each of the four main SMART strategies:

- Variable sized receptacles
- Bags
- Tags
- Weight-based

Research shall include engaging with subject matter experts with expertise in SMART and zero waste including nonprofits, agencies, and for-profit companies to ensure the resulting analysis provides current and accurate information.

Case Studies and Data Selection

- To the greatest degree practicable, identify and present three (3) case studies from communities that reasonably match Hyattsville in the following ways: number of residents, housing mix, mean and median income, and existing recycling and composting programs. At least one (1) of the three (3) case studies shall include an example where SMART has been implemented in a community where municipal waste collection services are provided to multi-family building residents, including renter-occupied and owner-occupied garden apartments, mid-rise and high-rise buildings, and shall discuss the impacts of and challenges to those programs.
- 2. Where appropriate, elaborate on whether and how changes to current billing practices may help support a transition to a SMART program. Identify examples of how communities that have implemented successful SMART programs present waste management costs and revenues to enhance public understanding and program performance.
- 3. To the greatest degree practicable, use empirical, up-to-date data in discussing the relative costs and benefits of each SMART strategy and in modelling the potential impacts of each SMART strategy.

Analysis of Environmental and Public Health Impacts

Provide data and information on the following impacts for each SMART strategy:

- Total tons burned or buried before and after implementation
- Per-capita tons burned or buried before and after implementation
- Tons (per capita and total) and percentages diverted and conserved through reuse, recycling, composting, or other strategies before and after implementation
- Based on the potential reductions in disposed waste and increases in reuse, recycling, composting, or others strategies, model the following environmental impacts:
 - o Cubic yards of landfill space consumed
 - Global warming emissions
 - Air pollutant emissions
 - Energy consumption
 - Water use

Analysis of Fiscal and Operational Impacts on the City

- 1. Project whether and how each SMART strategy may affect the budget and operations of the City's waste management program.
- 2. Discuss and, to the greatest extent practicable, model or estimate the following gross and net fiscal costs to the City of Hyattsville for each SMART strategy, examining the following costs categories:
 - Start up and implementation, including capital costs, public education and engagement, implementation of new accounting tools or procedures, etc.
 - Annual Public Education
 - Annual Administration
 - Annual Capital
 - Annual Operations
- 3. Model the overall annual fiscal cost of municipal trash collection services utilizing the various SMART strategies. Based on this data, provide a recommendation for the cost of fees associated with SMART programs that would be calibrated to recoup municipal expenses (i.e., cost per tag, cost per bag, cost for various sized trash receptacles etc.).

Analysis of Financial and Behavioral Impacts on Residents and Households

1. Discuss whether and how each SMART strategy may require residents to: a. purchase new equipment or materials; and b. change how they handle waste, recycle, and compost disposal.

2. Discuss and, to the greatest extent practicable, model or estimate how each SMART strategy may increase or decrease the amount each household is likely to spend annually for waste collection and disposal.

Factors That Affect Outcomes: Commodity Prices, Rate Structures, Reporting and Billing Practices, and Recycling Operations

- 1. Because of how dynamic the recyclables market has been over the past few years, run more than one cost-revenue scenario and more than one environmental impact scenario.
- Discuss whether and how the City's current rate structures and approaches to accounting, billing and presentation of costs in budgets and on tax bills affect the potential success of a SMART program and of the City's efforts to maximize reuse, recycling, and composting. Where appropriate, discuss changes that may enhance the impacts of the City's efforts.

Addressing Concerns about SMART's Potential Negative Impacts

- 1. Discuss whether implementing SMART may impose regressive or unsustainable costs on low-income residents or families and identify strategies that jurisdictions with successful programs have implemented to reduce or eliminate those burdens.
- 2. Discuss whether SMART has resulted in increased illegal dumping in other communities and if increased illegal dumping would be likely to occur in Hyattsville.
- 3. Discuss whether SMART has resulted in increased contamination of recyclable material in other communities and identify strategies available to minimize these concerns.