Memo

To: Michael Brown, City Manager

From: Gene Prevatt, Sanitation Bureau Chief

CC: Taffanye Young, Chief Community Services Officer

Date: June 2, 2021

Re: Street Cleaning Division Overview

As requested, this report provides a limited overview of Sanitation’s Street Cleaning Division mission, sweeping operations, and sweeper replacement requirements.

* **Mission:** To maintain an acceptable level of cleanliness, free of litter and debris on all curbed streets throughout the city.
* **Workload and Resources:** TheDivision currently cleans over 32,000 curb miles each year using twelve street sweeping machines. Eleven of these are three wheel “pelican” sweepers and one is a truck-mounted machine capable of traveling at highways speeds when not in sweeping mode. The work is organized under forty-six sweeping routes split between day and night shifts. Schedule frequencies vary from weekly, semi-monthly, monthly, to quarterly depending on average annual cleanliness ratings, traffic volume, and on-street parking demand. This approach maximizes program efficiency while ensuring condition equity across the city.

**Street Cleaning Frequencies**

Route Frequency Number of Routes Curb Miles Annual Miles Cleaned

Weekly 17 573 20,447

Semi-monthly 17 207 8,858

Monthly 10 197 2,179

Quarterly 2 36 146

Total 46 1,013 31,630

* **Cleanliness Condition Measurement:** Cleanliness is measured through trained observer evaluations at service interval mid-points throughout the year. Acceptable cleanliness is defined as an evaluation score of 3.0 on a scale of 0.0 to 4.0 with 4.0 defined as completely clean and 0.0 defined as unacceptable. Each block on every route is evaluated once each year and scores are averaged to determine a given route’s annual cleanliness level. Sweeping frequencies are adjusted to address those routes falling below the 3.0 city-wide standard.

**Sweeper Replacement Requirements** Recommended industry practice is to replace street sweepers every five years or five thousand operating hours. While current workload (1,129 hours) exceeds recommended annual operating hours by ten percent, our adopted replacement cycle has generally been five years. However, without any consultation with Sanitation, the replacement cycle has been extended and no new sweepers have been purchased for the past two years. Equipment availability and reliability have suffered as the result requiring excessive use of the newer sweepers while old machines are down for extended periods for repair.

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| **Sweeper #** | **Total Hrs.** | **Avg. Hrs./Yr.** |
| **4717** (2014) | 6,754 | 965 |
| **5732** (2015) | 5,604 | 934 |
| **5733** (2015) | 6,231 | 1,039 |
| **6738** (2016) | 5,299 | 1,060 |
| **6739** (2016) | 5,279 | 1,056 |
| **7701** (2017) | 1,388 | 347 |
| **7702** (2017) | 4,441 | 1,110 |
| **7703** (2017) | 4,485 | 1,121 |
| **8754** (2018) | 4,103 | 1,368 |
| **8755** (2018) | 4,258 | 1,419 |
| **9739** (2019) | 3,068 | 1,534 |
| **9740** (2019) | 3,190 | 1,595 |
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The table below lists the division’s current sweepers inventory by the year acquired and cumulative operating hours.

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