



Arterial Sweeping Action Plan

This document addresses the City of Spokane Valley's Arterial Sweeping Action Plan and outlines the purposes, responsibilities, service areas, and approaches to the work. You are welcome to make comments, suggestions, or pose questions regarding this document to the City's Stormwater Utility (SWU).

SWU is responsible for implementing and administering the Sweeping Program. The City contracts to provide street sweeping services. The City's Street Superintendent leads the sweep operation, giving direction to the Contractor, and inspecting the work. Program details and suggested changes are referred to SWU personnel for consideration to incorporate into periodic updates.

Arterial Sweeping Purposes

Arterial sweeping keeps City streets operational, improves air quality, and protects stormwater infrastructure supporting the street system. To the extent possible and practical, the main reasons for a Sweeping Arterials throughout the year include:

1. Meet Air Quality Requirements and Standards by picking up sediments that may have accumulated over the winter months, including traction materials.
2. Reduce street flooding by clearing debris that obstructs stormwater from flowing into City street inlets and grates.
3. Extend life span of stormwater drainage fields by limiting street debris transported to City-owned stormwater systems.
4. Reduce possible pollutants to surface water and groundwater.
5. Sweep Bike Lanes for safety to the bicyclist to encourage bike lane use, and the motoring public.
6. Provide clean surfaces for traffic striping operations.

Arterial Sweeping Service Map

The City has prepared a Service Map which identifies Arterials to be swept and delineates work zones. Prioritization of the Arterial system takes into account the average daily traffic counts, zoning, bike routes, staff observance, and public service requests. A copy of the Map should be attached with this document.

Work Approach

Direction to Start

The direction to start monthly Arterial Sweeping will come through the City's Street Superintendent at the time that the Deputy City Manager concurs with recommendations from Stormwater Utility staff.

Sweep Priority

After receiving authorization to start, the Street Superintendent may indicate a priority and order of which Arterials are to be swept by the Contractor. Arterials take priority over collector or local roads.

Sidewalk Cleaning

During the first cleaning, after winter maintenance operations conclude, in the spring, and prior to sweeping the roadway, the Contractor shall clean non-separated arterial sidewalks and medians as needed or required by the City. In addition, the Contractor shall clean sidewalks at other locations as needed, prior to sweeping the roadway. The Contractor will flush sidewalks with water trucks and do their best to minimize runoff. The Contractor shall have an appropriate number of sweepers behind the truck to collect any debris and runoff to minimize impact to the storm drain system.

Frequency

Winter sweeping of Arterials is infrequent and dependent upon weather conditions and City approval. Typically, winter sweeping will only occur during periods of above freezing temperatures and only along curbs of priority one and two Arterials, or as directed. No wet cleaning of sidewalks will be permitted until average overnight temperatures are above freezing and winter operations have concluded, usually during the latter half of March.

Spring sweeping of Arterial streets will follow the prescribed manner as indicated in the Spring Sweep Action Plan.

Subsequent sweeping of Arterials during the summer and fall months will be along curbs only unless directed otherwise and in the following manner:

- Priority one areas are shown on the map with solid red lines are authorized to be swept twice a month.
- Priority two areas are shown on the map as solid orange lines are authorized to be swept once during the month.
- All other areas will be authorized by the City as determined necessary.

Inclement Weather

Street sweeping shall not be conducted when there are climatic conditions present or forecast that would make such operation ineffectual or dangerous. These conditions include, but are not limited to, heavy rain, wind and gusts greater than 20 mph, snow, sleet and ice, or freezing temperatures.

Night Sweeping

Commercial and Industrial areas shown with a dark shadow around priority lines and are allowed to be swept at night, with advanced notice to the City.

Day Sweeping

The Contractor will only be allowed to sweep near or within residential areas between the hours of 7:00 a.m. and 7:00 p.m.

Equipment

The Contractor will use regenerative air type sweepers for initial sweeping of arterials in the spring. After the initial sweep of arterials is completed, sweeping along curbs is to be accomplished using a high-efficiency vacuum sweeper. Other types of sweeping equipment may be used only with written or email permission from the City.

Equipment Usage

Water Trucks and Pressure Washers are allowed for the following uses:

- On arterials, for jetting debris off sidewalks adjoined to curbing, and at raised medians.
- With prior authorization of the City, the Contractor may, in areas of heavy needle and leaf debris, use a jet to move debris from the center of the road into a windrow for curb-line pass pickup by a sweeper. If allowed by the City to follow this practice, the Contractor shall in all cases keep the jetted debris in the street and collect the windrow with a sweeper within 30 minutes.

Mechanical Sweepers are allowed for the following uses:

- Use of Mechanical Sweepers is with City approval only.
- Mechanical sweepers shall only be utilized for large particle and volume pickup in specific locations where the City deems the debris load high enough to warrant use.

Regenerative Sweepers

- Regenerative Sweepers are to be the main type of equipment for sweeping in the City, with most curbed streets and lane miles being initially swept in the spring with a Regenerative Air Sweeper.
- Areas depicted by the City with permeable surfacing should **not** be swept with a Regenerative Air Sweeper.

High Efficiency Vacuum Sweepers

- Only High Efficiency Vacuum Sweepers are to be used in areas with permeable surfacing. No other form of cleaning the street should be used in these areas.
- In the spring, after street sweeping with other equipment, a High Efficiency Vacuum Sweeper should be used on Principle Arterials, Minor Arterials, and Collectors for cleaning within 36-inches of the curb. The operator should make every effort to keep the vacuum head as close to the curb as possible, if not up against the front face of curb. Using the gutter broom should be minimal.

Order of Operations

Typical order of operations is as follows:

1. Sweep roads per specific City schedule and priority, if any.

2. Clean arterial sidewalks adjoined to curb and gutter, and at raised medians with Water Trucks or pressure washers as authorized.
3. Regenerative Air Sweep all curbs, intersection curb returns, left turn lanes, and flush concrete or paved medians.
4. If debris load is significant in certain areas, a Mechanical Sweeper may be used along curblines with City authorization and then followed with a Regenerative Air Sweeper. Mechanical sweepers should only be employed when it is clear that a Regenerative Air Sweeper would not be able to pick up the load within two or more passes.
5. On arterials after the initial first pass in the spring of a Regenerative Sweeper, use a High Efficiency Vacuum Sweeper along the curb-lines.
6. Only use High Efficiency Vacuum Sweepers over porous asphalt shoulders (starting Fall 2015 on Bowdish near 26th, Adams between Trent and Wellesley, and Wellesley along the East Valley High School frontage).

Street Debris Transfer Stations, Disposal, Water Resupply

The City allows the Contractor to temporarily store collected debris at the southeast corner lot at Mission and Pierce, and at the City's street maintenance yard at 17000 E. Euclid. Storage piles of street debris must be removed within 3 months. The City of Spokane Valley currently has the Contractor permanently dispose of street debris at the Graham Road Landfill by means of loader and dump trucks from the transfer station(s).

Water resupply locations are to be coordinated by the Contractor with their water purveyor(s). All locations should be approved by the City prior to use.

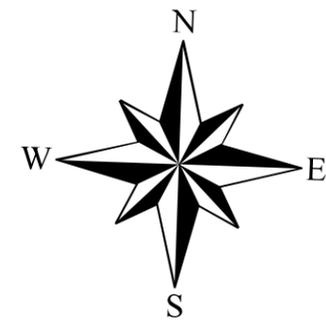
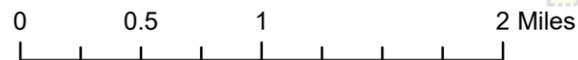
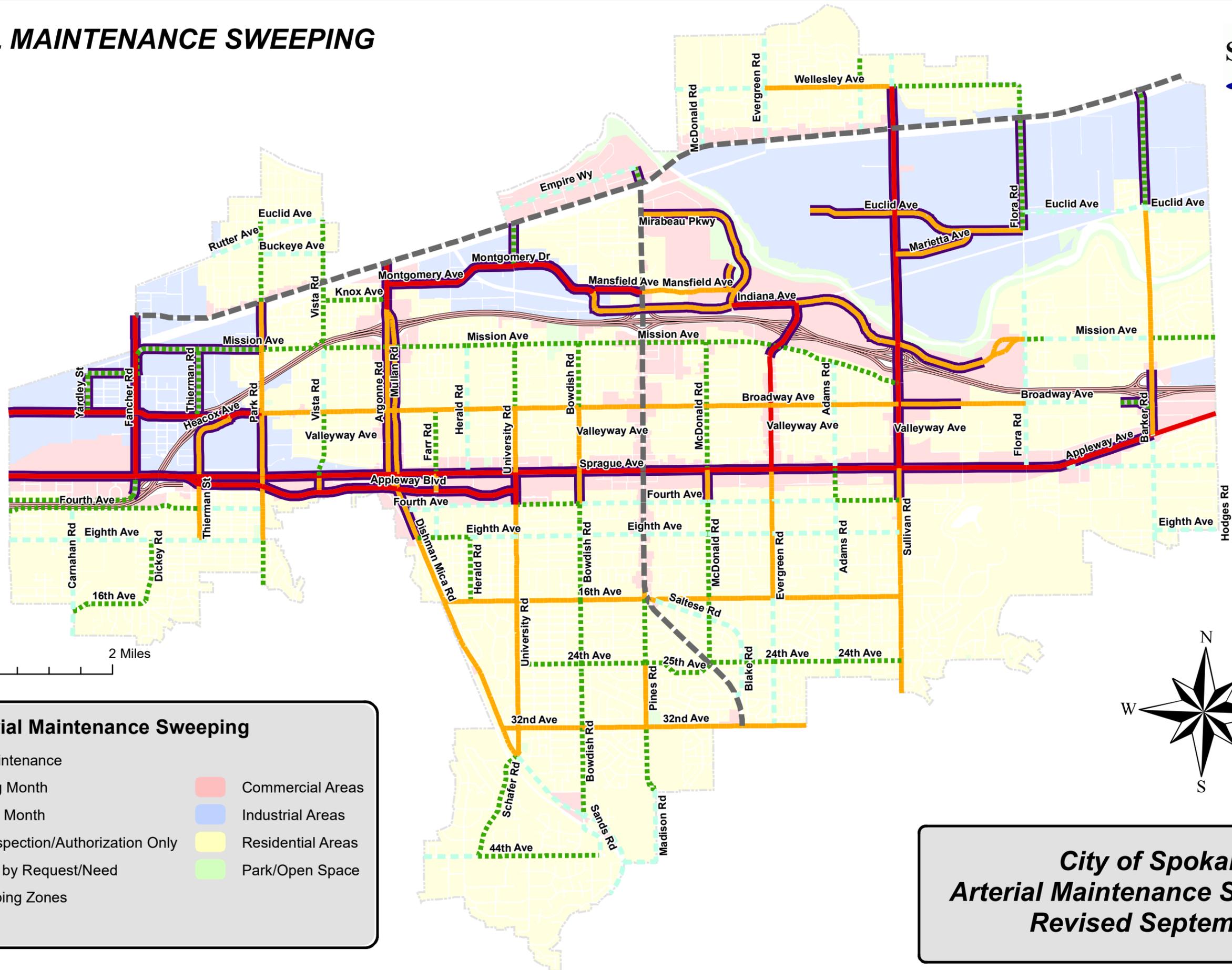
Parked Vehicles

Parking is not restricted for street sweeping purposes; residents are asked to voluntarily not park vehicles on the street on their designated sweeping day. The Contractor shall sweep around any vehicle parked on the street.

Feedback and Review

The City strives to improve response and value it gives to citizens, property owners, and rate payers. Any feedback is appreciated, both positive and/or negative with the overall sweeping program, this plan, implementation, equipment used, weather response, etc. The Stormwater Utility will take all comments and use those to revise and improve future sweeping plans.

ARTERIAL MAINTENANCE SWEEPING



Legend - Arterial Maintenance Sweeping

- WSDOT Maintenance
- Twice during Month
- Once during Month
- City Staff Inspection/Authorization Only
- Other Areas by Request/Need
- Night Sweeping Zones
- I-90
- Commercial Areas
- Industrial Areas
- Residential Areas
- Park/Open Space

City of Spokane Valley
Arterial Maintenance Sweeping
 Revised September 2017