

### SKAGIT COUNTY PUBLIC WORKS DEPARTMENT

1800 Continental Place, Mount Vernon, WA 98273-5625 (360) 416-1400

## INVITATION TO BID MRSC VENDOR ROSTER

Sealed bids will be accepted for the following project:

PROJECT NO'S.: WM50-512, ES50-13, ES50-14

TITLE: 2025 Landscaping Maintenance

AGENCY: Skagit County Public Works

PROJECT MANAGER: Rachael Simms

ESTIMATED BID COST RANGE: \$45,000 to \$55,000

SUBMITTAL TIME/DATE/LOCATION: No later than 1:00 PM PST, Thursday, March 6,

2025.

Bidders must be registered on the MRSC Vendor Roster. Bids received from firms not on the MRSC

Vendor Roster will be rejected.

All bid envelopes must be plainly marked on the outside, "<u>Sealed Bid, 2025 Landscaping</u> Maintenance, ES50-13, ES50-14, and WM50-512"

**Bids may be hand delivered to:** The Reception Desk of Skagit County Commissioners Office, located at 1800 Continental Place, Mount Vernon, WA.

Bids may be mailed to: Skagit County

Commissioners

1800 Continental Place,

Suite 100

Mount Vernon, WA, 98273

BID OPENING TIME/DATE/LOCATION

Bids will be opened and publicly read in the County's Quartz conference room located at 1800 Continental Place, Mount Vernon WA after 1:00 PM PST on Thursday, March 6, 2025

Bidder attendance is optional.

Bid Results will be available on Skagit County's

website

https://www.skagitcounty.net/Departments/Rfp/within three (3) business days following the bid

opening.

#### PRE-BID WALK-THROUGH:

10:00 A.M. on Thursday, February 27, 2025 at Skagit County Transfer Station, **14104 Ovenell Road, Mount Vernon, WA 98273.** 

A non-mandatory Pre-Bid walkthrough of the Solid Waste Transfer Station will be held at the time and place listed above. The County Project Manager will be on site to answer questions regarding all three sites. The Contractor shall be responsible for visiting the Conway Roundabout and South LaVenture Road Median sites prior to submitting bids to verify square footages and existing conditions of landscaped areas.

**QUESTIONS:** 

Questions shall be submitted in writing via email to <a href="mailto:bethanyz@co.skagit.wa.us">bethanyz@co.skagit.wa.us</a> no later than Friday, February 28, 2025, at 4:00 PM PST.

Answers will be available on Skagit County's website <a href="https://www.skagitcounty.net/Departments/Rfp/">https://www.skagitcounty.net/Departments/Rfp/</a>
by Monday, March 3, 2025, at 2:00 PM PST.

ADDENDA:

Any addenda will be available on Skagit County's website <a href="https://www.skagitcounty.net/Departments/Rfp/">https://www.skagitcounty.net/Departments/Rfp/</a> by Monday, March 3, 2025, at 4:00 PM PST.

The State of Washington prevailing wage rates are applicable for this public works project located in Skagit County. Bidders are responsible to verify and use the most recent prevailing wage rates. The "Effective Date" for this project is the bid submittal time and date above. The applicable prevailing wage rates may be found on the Department of Labor & Industries website located at <a href="https://secure.lni.wa.gov/wagelookup/">https://secure.lni.wa.gov/wagelookup/</a>.

BID GUARANTY: No bid will be considered unless accompanied by a surety company bid bond, or a certified or cashier's check payable to the order of Skagit County for a sum not less than five percent (5%) of the total amount of the bid. A Contract Bond covering performance and payment will be required with the contract. Washington State Prevailing Wage Rates apply to this contract and bidders are advised to consider this charge when tabulating bids. Retainage laws apply to this contract per RCW 60.28.011.

Skagit County reserves the right to reject any or all bids, and the right to waive any informalities or irregularities in any bid or in any bidding and to further award the Project to the lowest, responsive, responsible bidder whose bid complies with all of the prescribed formalities, as it best serves the interest of Skagit County. After the date and hour set for the opening of bids, no bidder may withdraw its bid unless the award of the contract is delayed for a period exceeding forty-five (45) calendar days following bid opening. All bidders agree to be bound by their bids until the expiration of this stated time-period.

The Skagit County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

#### **Scope of Work**

Skagit County (County) Public Works seeks landscaping maintenance services for sites including but not limited to the Conway Roundabout (Schedule A), South LaVenture Median (Schedule B), and Solid Waste Transfer Station (Schedule C). The initial contract will be for one (1) year, with an option to extend for two (2) additional years.

By submitting a bid, the Contractor agrees to adhere to the County's Integrated Pest Management Plan (R20110118) as well as Ordinance #O20230002, which established our compost procurement policy. Both have been attached for reference.

Anticipated services include, but shall not be limited to:

Regular service for a total of eight (8) months, from March through October, at each of the three (3) specified sites. *Please note payments for the month of March will be prorated based on the number of regular service site visits.* 

Removal and disposal of all weeds, branches, trimmings, cuttings, and other debris from each contracted landscaped area location, including blackberry vines/bushes, morning glory, holly, or other invasive vegetation growing in, or encroaching onto, the contracted areas.

Annual application of 2-inch layer 50/50 mix of medium bark & compost/mulch to be completed during the regularly scheduled service in April at South LaVenture Road and Solid Waste Transfer Station locations.

The Contractor shall provide the County with documentation from the supplier, including details on the source of the medium bark & bark compost/mulch, the volume to be used at each site, and the cost of the bark/compost/mulch, by **March 31**st.

The Contractor shall provide the County with documentation from the supplier showing where the medium bark & compost/mulch was purchased, the volume of compost/mulch used per site, as well as receipts showing the cost of the bark/compost/mulch, along with the **April** invoice.

Anticipated deliverables include, but shall not be limited to:

Deliverable:	Due:	Submit To:
Monthly Service Schedule	Contract execution and any schedule updates	bethanyz@co.skagit.wa.us rsimms@co.skagit.wa.us
Proposed Bark/Compost/Mulch Documentation • Source of bark/compost/mulch • Volume to be used at each site • Estimated cost per site	March 31, 2025	bethanyz@co.skagit.wa.us rsimms@co.skagit.wa.us

Actual Bark/Compost/Mulch Documentation • Source of bark/compost/mulch • Volume used at each site • Receipts showing cost per site	Submission of April invoice	bethanyz@co.skagit.wa.us rsimms@co.skagit.wa.us
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#### **Schedule A: Conway Roundabout**

Maintain all existing landscaped beds and lawn at the roundabout located at the intersection of Pioneer Highway and Fir Island Road in Conway, WA. The service areas are referred to as:

#### **Area 1) Center Island Landscaping:**

All areas of landscaped bed in the center island (approximately 13,000 sq. ft.), concrete apron, curbs, and gutters.

#### Regular Service:

Center Island Landscaping site visits shall occur every month from March through October.

- Maintain trees, shrubs, ground cover, and flowerbeds in a healthy growing condition by fertilizing, deadheading, pruning, and removing yard waste (leaves and clippings shall not be blown into the roadway).
- Remove litter in all landscaped areas.
- Remove damaged or dead shrubbery.
- Water planted area as necessary to maintain trees, shrubs, ground cover and flowerbeds in a healthy growing condition. Above ground water spicket is located northwest of the center island.
- Re-apply herbicide in cobblestone areas only as necessary to control unwanted vegetation; protect ground cover, trees, bushes, and shrubs from herbicide over-spray.
- Remove and haul away all weeds and invasive vegetation from the center island landscaped area (including cobblestone) concrete apron, curbs, and gutters.

#### **Area 2) Lawn Mowing:**

Lawn on the north side of the roundabout, towards the vicinity of the Conway Skagit Barn, bounded by Conway Frontage Road, the concrete sidewalk, and the commercial parking lot (approximately 4,450 sq. ft.)

#### Regular Service:

Lawn Mowing site visits shall occur every two (2) weeks from March through October.

- Remove litter from lawn area.
- Mow and edge the areas where sod has been planted.

All weeds, branches, trimmings, cuttings, and other debris shall be removed from each location and disposed of by the Contractor.

#### Schedule B: South LaVenture Road

Maintain all existing landscaped beds in the South LaVenture Road median located between Blackburn Road and Blodgett Road in Mount Vernon, WA. The landscaped area (Schedule B) is referred to as:

#### **Area 1) South LaVenture Road Median:**

All landscaped beds in the South LaVenture Road median planting strip (approximately 24,903 sq. ft.).

#### Regular Service:

Site visits shall occur every month from March through October.

- Maintain shrubs, bushes, and groundcover within the median landscaped area in a
  healthy growing condition by fertilizing, deadheading, pruning, and removing yard
  waste (leaves and clippings shall not be blown into the roadway). Plants shall be
  trimmed so that they remain within the median curbs.
- Remove litter in all landscaped areas.
- Remove damaged or dead shrubbery.
- Remove and haul away all weeds and debris from all planting strip landscape area; protect ground cover, trees, bushes, and shrubs that are to remain. Remove all blackberry and other invasive vegetation.

#### **Annual Service:**

Annual application to be completed during the regularly scheduled service in April

 Apply 2-inch layer 50/50 mix of medium bark & compost/mulch to all landscaped beds per the requirements above.

All weeds, branches, trimmings, cuttings, and other debris shall be removed from each location and disposed of by the Contractor.

#### Schedule C: Solid Waste Transfer Station

The County Solid Waste Transfer Station facility is located at 14104 Ovenell Road, Mount Vernon, WA. Clippings and debris resulting from routine service work at the Transfer Station may be disposed of on-site, with prior approval from County staff.

Landscaping maintenance is required in three areas at the Solid Waste Transfer Station. The landscaped area (Schedule C) is referred to as:

#### Area 1) Ovenell Road Area:

Includes three beds between Farm to Market Road and the East Entrance to the Transfer Station.

#### Regular Service:

Site visits shall occur every two weeks from March through October.

 Maintain trees, shrubs, ground cover, and flowerbeds in a healthy weed-free growing condition by fertilizing, weeding, deadheading, pruning, and removing yard waste and litter from maintained beds.

#### **Annual Service:**

Annual application to be completed during the regularly scheduled service in April

• Apply 2-inch layer 50/50 mix of medium bark & compost/mulch to all landscaped beds per the requirements above.

#### **Area 2) Transfer Station:**

Seven maintained beds and or cobbled areas within the fenced area of the Transfer Station.

#### Regular Service:

Site visits shall occur every two weeks from March through October.

- Maintain trees, shrubs, ground cover, and flowerbeds in a healthy weed-free growing condition by fertilizing, weeding, deadheading, pruning, and removing yard waste and litter from maintained beds.
- Mow the grass area in the landscaped islands.
- Remove and dispose of all weeds and vegetation in the cobblestone islands.

#### Area 3) Farm to Market and South Perimeter Lawn:

The Farm to Market and South Perimeter Lawn consists of the Lawn within the fenced area along the West and South sides of the site.

#### **Regular Service:**

Site visits will occur every two weeks from March through October.

- Pick up all litter.
- Mow the grass area.
- Edge trim around curbs and cement slab/vault area.

#### **PUBLIC WORKS PROJECT - PREVAILING WAGE**

This work is considered a public works project as defined in RCW 39.12, and therefore, subject to state prevailing wage rates as set forth by the Washington Department of Labor and Industries. Bidders are advised to consider this charge when computing bids.

If awarded the project, the Contractor and each Subcontractor shall complete and have on file with the county a current Statement of Intent to Pay Prevailing Wages before payment will be made for work performed. An Affidavit of Wages Paid shall be required at the end of the contract period. These forms are available from the Washington State Department of Labor and Industries and can be filed electronically at:

https://secure.lni.wa.gov/wagelookup/rates/journey-level-rates

#### Insurance will be required:

Commercial General Liability Insurance on an occurrence basis in an amount not less than \$1,000,000 per occurrence and at least \$2,000,000 in the annual aggregate, including but not limited to: premises/operations (including off-site operations), blanket contractual liability and broad form property damage.

Business Automobile Liability Insurance in an amount not less than \$1,000,000 per occurrence, extending to any automobile.

# APPENDIX A Schedule A, B, and C Maps



LANDSCAPING & MAINTENANCE NOTES:

1. CENTRAL ISLAND LANDSCAPING AREA
2. LAWN MOWING AREA



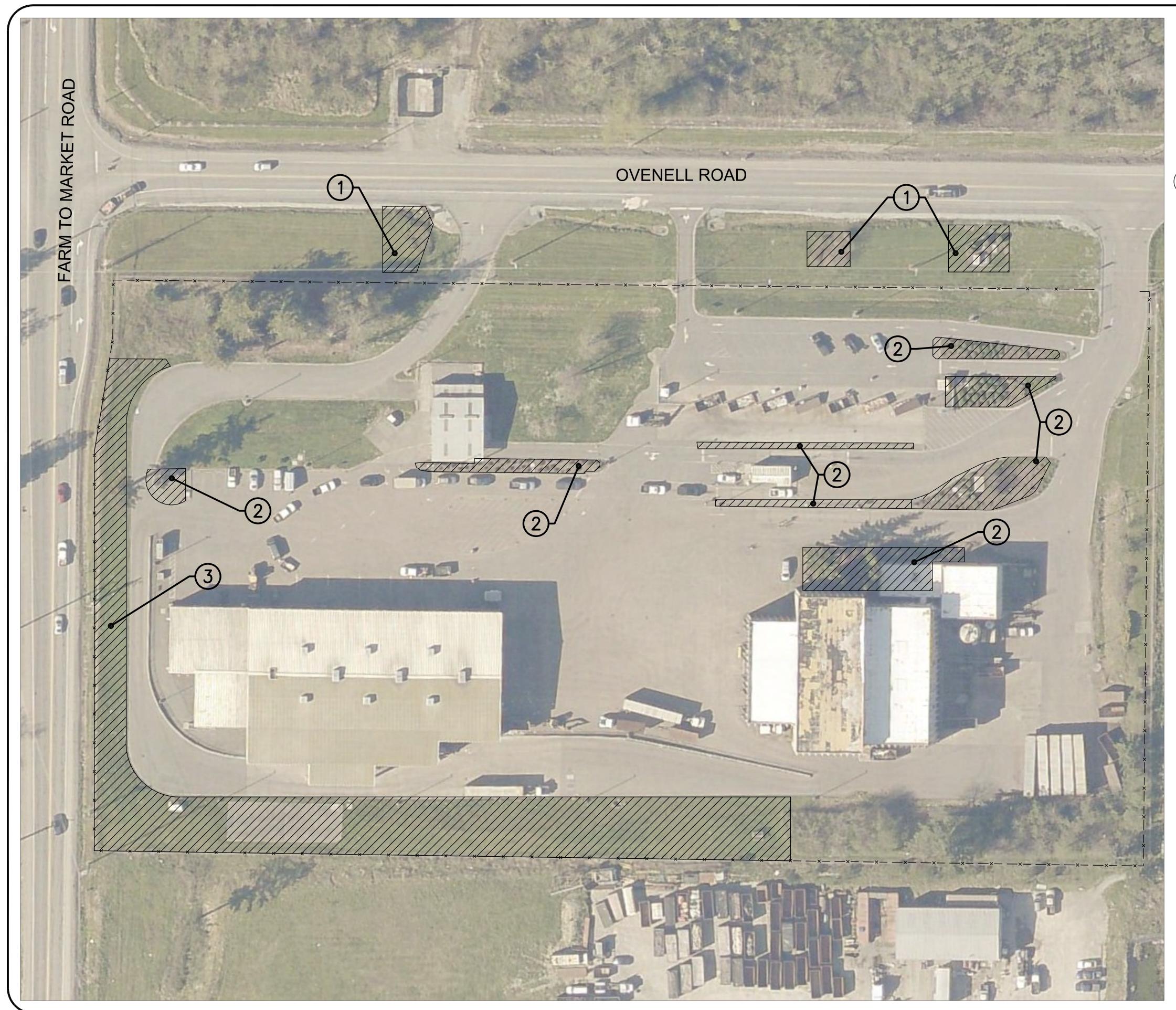
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LANDSCAPING & MAINTENANCE NOTES: 1. SOUTH LAVENTURE ROAD MEDIAN AREA.



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LANDSCAPING &
MAINTENANCE NOTES:

1. OVENELL ROAD AREA
2. TRANSFER STATION AREA
3. THE FARM TO MARKET &
SOUTH PERIMETER LAWN



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## **APPENDIX B**

# Integrated Pest Management Plan Ordinance to Establish Compost Procurement Policy

#### RESOLUTION NO.

#### SKAGIT COUNTY Resolution # R20110118 Page 1 of 48

# A Resolution Adopting the Integrated Pest Management Plan for Roads, Parks and Open Space and the Property and Facility Management Plan for Pollution Reduction

WHEREAS the federal Clean Water Act requires urban areas that collect stormwater runoff in municipal separate storm sewers and discharge it to waters of the United States to have a National Pollution Discharge Elimination System (NPDES) permit; and,

WHEREAS the U.S. Environmental Protection Agency's NPDES permit program is divided into Phase I, which covers the largest cities and counties, and Phase II, which covers all small municipal separate storm sewer systems located within an "urbanized area"; and,

WHEREAS the U.S. Bureau of the Census determines "Urbanized Areas" and generally defines them as a land area comprising one or more places that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile; and,

WHEREAS the Washington State Department of Ecology has issued a Phase II permit for western Washington that covers the Census-defined "Mount Vernon Urbanized Area," that includes the cities of Mount Vernon, Burlington, Sedro-Woolley, and portions of Bay View Ridge, Big Lake, and several other surrounding unincorporated areas; and,

WHEREAS Skagit County is required to comply with the conditions of the NPDES Phase II Stormwater Permit for the areas under its jurisdiction within the Census-defined Mount Vernon Urbanized Area and any urban growth area (UGA) associated with a city inside the Urbanized Area and any adjoining UGA; and,

WHEREAS Requirement S5.C.5.g of Skagit County's NPDES Phase II Stormwater Permit requires the County to implement policies and procedures to reduce pollutants in discharges from all lands owned or maintained by the County; and,

WHEREAS Skagit County Public Works has coordinated with the Skagit County Parks and Recreation Department, Facilities Department, and the Noxious Weed Board to develop an Integrated Pest Management Plan (IPM) for Roads, Parks, & Open Space and the Property and Facility Management Plan for Pollution Reduction; and,

WHEREAS the Board of Commissioners acknowledges the value towards protecting water quality by implementing the policies in the IPM and Facility Management Plan of Pollution Reduction countywide.

#### NOW, THEREFORE, BE IT RESOLVED AND IT IS HEREBY ORDERED THAT:

Section 1. The Board of County Commissioners adopts the attached Integrated Pest Management Plan for Roads, Parks, & Open Space and the Property and Facility Management Plan for Pollution Reduction.

Section 2. The Board of County Commissioners directs staff from relevant departments to implement the policies outlined in each plan:

PASSED this 4th day of April , 2011

BOARD OF COUNTY COMMISSIONERS SKAGIT COUNTY, WASHINGTON

SEAL COURT OF WASHING

Ron Wesen, Chairman

Kenneth A. Dahlstedt, Commissioner

Sharon D. Dillon, Commissioner

Attest:

Amber Klogni, Assistant

Approved as to form:

Skagit County Prosecuting Attorney

# PROPERTY AND FACILITY MANAGEMENT PLAN FOR POLLUTION REDUCTION

Prepared for Skagit County, Washington February 2011



Brown AND Caldwell

701 Pike Street, Suite 1200 Seattle, Washington 98101

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# SKAGIT COUNTY PROPERTY AND FACILITY MANAGEMENT PLAN FOR POLLUTION REDUCTION

#### 1. Plan Purpose

This Skagit County (County) Property and Facility Management Plan for Pollution Reduction is intended to establish operating policies to achieve the following objectives:

- Protect the health, safety, and welfare of the community
- Protect water resources and help meet the requirements of the Western Washington Phase II Municipal Stormwater Permit, Section S.5.C.5.g
- Provide efficient, cost-effective maintenance of the County's facilities.

#### 2. Existing County Operating Policies

In addition to this plan, Skagit County has a number of documents relating to pollution reduction efforts associated with property and facility management. In general, the latest version of the Department of Ecology Surface Water Management Manual, Volume IV, Source Control BMPs is a good source of information on pollution-reducing measures for municipal operations.

County facilities presenting opportunities for pollution-reducing maintenance efforts include, but are not limited to, the following:

- Parks and Open Space: Pollution-reducing measures can be found in the Skagit County Integrated Pest Management Plan for Roads, Parks and Open Space.
- Road right-of-way maintenance: Pollution-reducing measures followed by the County are contained in the Skagit County Roads Division Activity Guides, Skagit County Integrated Pest Management Plan for Roads, Parks and Open Space and the Skagit County Roadside Vegetation Management Objectives.
- Maintenance yards: Pollution-reducing measures can be found in the Stormwater Pollution Prevention Plan (SWPPPs) for the Burlington Road Shop.
- Stormwater treatment and flow control facilities: Pollution-reducing measures followed by the County are contained in the Western Washington Phase II Municipal Stormwater Permit (as adopted by Skagit County), and the Stormwater Management Manual for Western Washington (Ecology Manual).
- Buildings, driveways, and parking lots: Pollution-reducing measures followed by the County are contained in the Skagit County Roads Division Activity Guides and the Property and Facility Management Plan for Pollution Reduction.

The above-noted documents establish operating policies to reduce pollutants discharged from all lands owned or maintained by the County through a variety of activities including the following:

- Application of fertilizers, pesticides, and herbicides: See the Skagit County Integrated Pest Management Plan for Roads, Parks, and Open Space.
- Sediment and erosion control: See the applicable sections of the Western Washington Phase II Municipal Stormwater Permit (as adopted by Skagit County) and the Ecology Surface Water Management Manual.

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- Landscape maintenance and vegetation disposal: See the Skagit County Integrated Pest Management Plan for Roads, Parks, and Open Space
- Driveway and parking lot maintenance: See the Regional Road Maintenance Endangered Species
  Act Program Guidelines, the Skagit County Roadside Vegetation Management Objectives, and the
  Ecology Manual.
- Trash management: The pollution-reducing measures followed by the County are contained in Section 3 of this Property and Facility Management Plan for Pollution Reduction.
- Building exterior cleaning and maintenance: The pollution-reducing measures followed by the County are contained in Section 4 of this Property and Facility Management Plan for Pollution Reduction.
- Lake Management: see Integrated Aquatic Plant Management Plans

In general, the Ecology Manual, Volume IV, Source Control BMPs is a good source of information on pollution-reducing measures for municipal operations.

#### 3. Trash Management

To reduce pollutant discharges from municipal facilities, the following guidelines should be followed:

- Monitor trash bins, dumpsters, and other receptacles to ensure that they have sufficient volume to accommodate trash between pickups.
- Assess the appropriateness of the receptacles for the conditions in which, and purposes for which, they
  are used.
- Ensure that receptacles are located so as to facilitate their intended uses.
- Monitor receptacle condition and ensure proper functioning, including appropriate lids and no leakage.
- Perform routine good housekeeping to protect public health, prolong the usability of trash receptacles, curtail pollutant discharge, and minimize pest attractants.
- Monitor pests and take pest management actions in accordance with the County Integrated Pest Management Plan.

#### 4. Building Exterior Cleaning and Maintenance

To reduce pollutant discharges from repair, maintenance, and cleaning activities, a good strategy is to ensure that storm drains accept only uncontaminated runoff. It is generally easier and more cost-effective to keep pollutants out of storm drains than it is to remove them from stormwater runoff.

Actions to protect the stormwater system and reduce pollution in streams, wetlands, rivers, and other waters include the following:

- Washing and cleaning up with as little water as possible
- Minimizing use of cleaners, chemicals, and other potentially polluting materials
- Discharging wash water to areas other than to storm drains (e.g., discharging to a sanitary sewer with permission of Skagit Public Utility District, or discharging to lawns or other vegetated areas)
- Blowing materials away from gutters or drains during cleanup operations
- Using ground cloths when painting, sandblasting, scraping, etc.
- Using ground cloths or oversize tubs as containment areas for mixing paints, cleaners, etc. and for tool cleaning
- Preventing spills and immediately cleaning up any spills that may occur (see Section 5, Spill Response)
- Cleaning structural stormwater BMPs (e.g. catch basin filter inserts, oil water separator, etc.)

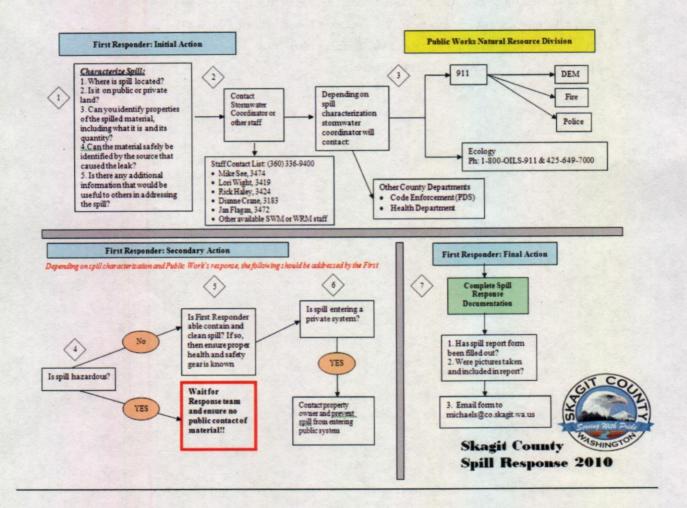
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 Ensuring that all contractors performing maintenance and repairs for the County follow all County pollution reduction and prevention procedures

For pollution-reducing measures for specific facilities, see the SWPPP for that facility.

#### 5. Spill Response Procedures

In case of a spill, County staff will follow the matrix shown below to ensure proper reporting and cleanup occurs to prevent contamination of stormwater.



#### 6. References and Further Information

This Property and Facility Management Plan for Pollution Reduction was developed relying on information from the following sources:

- Skagit County Roadside Vegetation Management Objectives
- Skagit County Roads Divisions Activity Guides
- Stormwater Management Manual for Western Washington Volume IV, Source Control BMPs, prepared by Washington State Department of Ecology, Water Quality Program, February 2005
- Western Washington Phase II Municipal Stormwater Permit: National Pollution Discharge Elimination System and State Waste Discharge Permit for Discharges from Small Municipal Separate Storm Sewers in Western Washington
- Lake McMurray Integrated Aquatic Plant Management Plan, 1998
- Integrated Aquatic Plant Management Plan for Lakes Erie and Campbell, 2000
- Big Lake Integrated Aquatic Vegetation Management Plan, 2004
- Skagit County Noxious Weed Control Board

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# SKAGIT COUNTY INTEGRATED PEST MANAGEMENT PLAN FOR ROADS, PARKS AND OPEN SPACE

Prepared for Skagit County, Washington February 2011



## Brown AND Caldwell

701 Pike Street, Suite 1200 Seattle, Washington 98101

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# SKAGIT COUNTY INTEGRATED PEST MANAGEMENT PLAN FOR ROADS, PARKS AND OPEN SPACE

#### 1. Plan Purpose

The Skagit County Integrated Pest Management Plan (IPM) is intended to achieve the following objectives:

- · Protect the health, safety, and welfare of the community
- Protect water resources and help meet the requirements of the Western Washington Phase II Municipal Stormwater Permit, Section S5.C.5.g.
- Provide efficient, cost-effective maintenance of the County's parks, rights of way, facilities, and other resources through the use of an IPM strategy
- Protect, environmentally valuable areas such as wetlands, riparian areas, and aquatic and terrestrial wildlife habitat
- Design new and renovate existing landscape areas that suit site conditions while encouraging sustainable maintenance practices
- Limit chemical application as much as practicable.

Sediment and Erosion control standards and methods are not part of this plan. The County follows the standards and methods listed in Volume IV of the *Stormwater Management Manual for Western Washington* (Ecology Manual).

#### 2. Integrated Pest Management Principles

IPM is a series of pest management evaluations, decisions, and controls rather than a single pest control method. In practicing IPM, County staff that are aware of and responsible for managing the potential for pest infestation follow a six-tiered approach, which is summarized below:

#### 2.1 Identify Pests

Correctly identify problem pests and understand their life cycles.

#### 2.2 Set Action Thresholds

Before taking any pest control action, IPM first sets an action threshold, a point at which pest populations or environmental conditions indicate that pest control action must be taken. Sighting a single pest does not always mean that control is needed. The level at which pests will threaten public health, safety, resources, or facilities is critical in guiding pest control decisions.

#### 2.3 Monitor and Identify Pests

IPM programs monitor for pests and identify them accurately so that appropriate control decisions can be made in conjunction with established action thresholds. Not all insects, weeds, and other organisms require control. Many organisms are innocuous, some are beneficial, and some populations are not significant enough to pose a potential threat. Monitoring and identification reduces the possibility that pesticides will be used when not needed or that the wrong kind of pesticide will be used.

#### 2.4 Prevent Pest Habitat and Pest Introduction

IPM programs work to manage roadways, parks, open space, facilities, and other resources so as to minimize the potential for pests posing a threat. This management approach may mean selecting pest-resistant plant varieties and planting pest-free rootstock. These control methods can be very effective and cost-efficient while presenting little to no risk to people or the environment.

#### 2.5 Control Pests

Pest monitoring and identification efforts together with established action thresholds may indicate that pest control is required, particularly where preventive methods are no longer effective or available. IPM programs then evaluate the available proper control method both for effectiveness and risk. Effective, less risky pest controls are preferred. Highly targeted or pest-specific chemicals (such as pheromones to disrupt mating) or mechanical controls (such as trapping, weeding, or screening) are preferred to more general pesticide applications. If further monitoring, identifications, and action thresholds indicate that less risky controls are not working or are not a viable option, then additional pest control methods would be employed (such as targeted spraying of pesticides). Broadcast spraying of non-specific pesticides is a last resort.

#### 2.6. Evaluate and Record Control Effectiveness

Evaluate and record the effectiveness of the employed control and modify maintenance practices to support landscape recovery and prevent recurrence of pests beyond action thresholds.

#### 3. Pest Controls

The IPM decision-making process is to determine if, where, when, and how pest problems will be managed. The IPM program includes all potential pest control strategies, but focuses on non-chemical controls whenever possible, in order to support a sustainable environment. Sound horticultural practices should be used to control pests. It is important to also apply sound principles to chemical fertilizer application decisions and to other chemical applications—use minimum quantities, follow product directions, and comply with all regulatory requirements. Attachment 1 to this plan contains a list of herbicides and pesticides that the County uses along with active ingredients and uses for the chemicals.

The following four pest control methods, in order of preference, may be employed with the IPM program:

#### 3.1 Cultural Control

Cultural control involves using sound horticultural practices to optimize plant health and to suppress insects, disease, and weed growth. Other cultural controls include site-appropriate design and the use of disease or drought-resistant plants.

#### 3.2 Mechanical Control

Mechanical control involves using a variety of pest removal techniques, tools, and equipment for eliminating pests.

#### 3.3 Biological Control

Biological control involves using agents that act as predators or parasites of pest species and using other beneficial organisms that improve plant health by enhancing soil quality.



#### 3.4 Chemical Control

Chemical control involves applying various products such as herbicides, insecticides, fungicides, fertilizers, or other chemical compounds to a target pest as a means of control. Whenever pesticides or fertilizers are used, they must be applied according to the directions on the pesticide container label. Due to constantly changing labels, laws, and regulations, it is important to verify that the products used are appropriate for the intended application. Attachment 1 is a list of chemicals that the County uses, but is not limited to due to the changing nature of chemicals on the market. Applicators can determine the least toxic chemical by referring to the signal word on the EPA approved label. Material Safety Data Sheets (MSDS) for pesticides should be available at all times.

The Washington State Department of Agriculture sets the overall policy for pesticide use in the state of Washington. The approved chemical list can be viewed on the department's Web site at <a href="www.agr.wa.gov">www.agr.wa.gov</a>. All pesticide use procedures shall conform to the requirements of Chapter 17.21 RCW and Chapter 16-228 WAC (Appendix IV-D R.7). Attachment 1 contains a list of all the chemicals used within Skagit County.

The Washington Department of Ecology requires a special permit for all aquatic herbicide applications. This permit allows herbicide control for all listed noxious weeds within an aquatic environment and monitors impact levels on non-target plants. The following link contains more information: http://www.ecy.wa.gov/Programs/wq/pesticides/final\_pesticide\_permits/noxious/noxious\_index.html

In addition, the County has four Integrated Lake Management Plans addressing aquatic vegetation management for Lake McMurray, Big Lake, Lake Erie, Lake Campbell, Clear Lake, and Beaver Lake.

The Washington State Stormwater Manual states that a pesticide-use plan include at a minimum:

- A list of selected pesticides and their specific uses
- Brands, formulations, application methods and quantities to be used
- Equipment use and maintenance procedures
- Safety, storage, and disposal methods
- Monitoring, record keeping, and public notice procedures

The State Stormwater Manual also states that pesticide applicators should:

- Mix the pesticides and clean the application equipment in an area where accidental spills will not enter surface or ground waters, and will not contaminate the soil.
- Store pesticides in enclosed areas or in covered impervious containment with appropriate product labels on containers.
- Ensure that pesticide contaminated stormwater or spills/leaks of pesticides are not discharged to storm drains
- Ensure that pesticide contaminated paved areas are not hosed down to a storm drain or conveyance ditch.
- Store and maintain appropriate spill cleanup materials in a location known to all near the storage area.
- Clean up any spilled pesticides and ensure that the pesticide contaminated waste materials are kept in designated covered and contained areas.
- Ensure that the pesticide application equipment be capable of immediate shutoff in the event of an emergency.
- Not spray pesticides within 100 feet of open waters including wetlands, ponds, and streams, sloughs
  and any drainage ditch or channel (containing standing water) that leads to open water except when

approved by Ecology or the local jurisdiction. See Volume IV Section 2.2 of Ecology Surface Water Manual.

- Flag all sensitive areas including wells, creeks and wetlands prior to spraying.
- Complete public posting of the area to be sprayed prior to the application as required by RCW 17.21.410. Markers shall be a minimum of four inches by five inches and include the words "THIS LANDSCAPE HAS BEEN TREATED BY" and "FOR MORE INFOMRATION PLEASE CALL." Markers shall remain in place for 24 hours post application unless longer time is specified by the pesticide label.
- Spray applications only during weather conditions as specified in the label directions.
- Have all MSDS for pesticides being applied on hand and readily available.
- Not apply during rain or immediately before expected rain.
- Not dispose of collected vegetation into waterways or storm drainage systems.
- Conduct mulch-mowing whenever practicable.
- Dispose of grass clippings, leaves, sticks, or other collected vegetation by composting, if feasible.

# 4. IPM for Natural Areas, Forested Areas, Right of Way and Stormwater Facilities

Generally, the use of chemical products within 100 feet of a watercourse should be prohibited in favor of an alternative control method whenever possible. Exceptions may include applications for noxious weed control, riparian restoration activities, permitted Lake Management District activities, and public safety. All known and mapped sensitive areas including wells, creeks and wetlands must be flagged prior to spraying. Weather conditions must be monitored carefully to avoid applying a chemical near a watercourse immediately before forecasted heavy rains. Soil conditions and site topography must be studied to determine whether a chemical application is appropriate and to determine the appropriate timing of any chemical application.

#### 4.1 Pest Tolerance Thresholds

For all natural and sensitive areas, the following guidelines should be observed:

- Invasive plants are generally not acceptable. Invasive plants should be controlled in conjunction with
  natural resource enhancement efforts in these environments as resources permit and where control can
  be practically achieved.
- Noxious weeds should be controlled, when found, according to state of Washington requirements.
   The following links contain information for noxious weed boards in Washington State:
  - http://apps.leg.wa.gov/Rcw/default.aspx?Cite=17.10
  - http://www.nwcb.wa.gov/weed\_list/regions/region2.htm
  - <a href="http://www.skagitcounty.net/Common/asp/default.asp?d=Noxiousweeds&c=General&P=main.htm">http://www.skagitcounty.net/Common/asp/default.asp?d=Noxiousweeds&c=General&P=main.htm</a>
- Insect pests that pose a risk to the public (such as hornets) or to the resource (such as gypsy moths) should be controlled.
- Plant diseases will generally be tolerated unless control is necessary to ensure the health of particularly valuable assets or if they pose an unacceptable risk to the public.
- Attachment 1 lists chemical and surfactant controls approved and recommended by the Skagit County Noxious Weed Control Board

#### 4.2 Controls

Herbicide use in any natural environment must be carefully considered. Herbicides should be used for weed control in natural areas only when necessary and other control measures have been unsuccessful. For wetlands or water environments, only approved wetland herbicides should be used.

When necessary, herbicide use practices are as follows:

- Cut-and-stem treatment (daubing or painting) is the preferred choice for natural area management.
- If possible, remove existing growth manually or mechanically. Wait for new growth to become established, and then treat with the appropriate herbicide.

#### 4.3 Controls within County Right of Way

Vegetation management within County Right of Way will follow management objectives defined in the Skagit County Roadside Vegetation Management Objectives (Attachment 2) and the BMP Activity Guides (Attachment 3). Skagit County has made a commitment to develop and implement an integrated roadside vegetation management program. One that uses a variety of vegetation control measures in an attempt to minimize chemical solutions wherever possible.

Vegetation must be continually managed to protect the structural integrity of the traveled way and contribute to its safe use, improve the esthetics of the roadside, minimize necessary manpower expenditures, and reduce costs. Vegetation management limits the spread of undesirable weeds while providing valuable wildlife habitat for animals and birds as well as creating a visual experience for the public.

Goals for roadside vegetation management include:

- 1. Prevent root systems and vegetation from deteriorating edges off roadway and drivable surface.
- 2. Prevent sod buildup that hinders proper roadway drainage.
- 3. Assure that traffic control devices such as signage and guardrails are visible to achieve safe travel conditions.

The Road Right-of-Way Spraying Agreement provides property owners the option of selecting from three no-spray options.

#### 5. IPM for Turf Areas

Skagit County maintains a variety of turf types including park lawn area, athletic fields, and other turf types. Different pest issues may affect each turf type and pest management practices may vary accordingly.

#### 5.1 Pest Tolerance Thresholds

The following summarizes the pest tolerance thresholds for various turf areas:

- Some levels of weed, insect, and disease pests are tolerated in general park lawn areas.
- Pests in highly maintained turf such as athletic fields are generally controlled through good turf cultural practices.

#### 5.2 Controls

The following summarizes controls for broadleaf, insects, disease, and grass for various turf areas:

#### 5.2.1 Broadleaf Weed Control

Weeds in turf are generally tolerated to some extent. When control is necessary, the primary method is through the following cultural practices:

- Careful monitoring of watering practices
- Fertilization
- Aeration
- Top-dressing
- Over-seeding.

Through the above cultural practices, park turf is made healthier and better able to compete with various broadleaf weeds. Chemical weed control should be used only as a last resort for controlling particularly difficult weeds in high-visibility turf areas. In controlling broadleaf weeds, the following guidelines should be observed:

- The least toxic, least residual pesticide should be used for spot treatments (selection based on referring to EPA approved label).
- General broadcast treatments should be avoided and only used when other control methods fail.
- Timing of such applications should be made to avoid contact with the public to the maximum extent possible.
- The site that has been treated should be posted.

#### 5.2.2 Insect Control

Chemical control is to be used only in limited circumstances in high-visibility/high-use park turf areas and according to the following guidelines:

- Chemical applications should be spot treatments directed specifically at the turf areas containing the pest.
- The preferred initial choice for application in high-use areas is the safest, least toxic product available.

#### 5.2.3 Disease Control

Disease in general park turf is typically tolerated and not actively controlled; the following guidelines should be observed:

- In high-use/high-visibility park turf areas, disease should be controlled by performing sound turf cultural practices.
- Pesticides may be used as a last resort to control disease in park turf areas.

#### 5.2.4 Grass Trimming Control

The control of grass growing along fence lines and around trees, bollards, posts, and other landscape features may be necessary. Careful employment of grass control techniques is especially important around trees where impacts from mower line trimmers and other damage can lead to tree loss. The following are acceptable grass trimming management practices:

- Grass is carefully trimmed using gas-powered string trimmers or push-type lawn mowers.
- Herbicide applications are performed periodically to provide pre-emergent control of weed and grass seed not yet germinated.
- Herbicide applications to control existing weeds and grass should only be used minimally.

■ Concrete mow strips are sometimes a good alternative to herbicide application or grass trimming.

#### 6. IPM for Trails

Skagit County maintains a number of trails that may be affected by different pest issues and pest management practices may vary accordingly.

#### 6.1 Pest Tolerance Thresholds

The following summarizes the pest tolerance thresholds for trails:

- Invasive plants should be controlled in conjunction with ecosystem restoration efforts on any park trail
  as resources permit.
- Noxious weeds should be controlled, when found, according to state of Washington requirements.
- Weeds are generally found on trails and require control only when beginning to compromise trail function.
- Insect pests that pose a risk to the public (e.g., homets) should be controlled.

#### 6.2 Pest Management Strategies

The following summarizes pest management strategies for trails:

#### 6.2.1 Weed Control

Weeds on trails are generally tolerated until they begin to interfere with trail function. When control is necessary, the primary method is increasing mulch on, or re-surfacing, the trail surface. Chemical weed control is often not necessary on trail surfaces, but should be used only as a last resort for controlling particularly difficult weeds. In the cases where chemical weed control is indicated, the following guidelines should be observed:

- The least toxic, least residual herbicide should be used for spot treatments.
- General broadcast treatments should be avoided.
- Timing of such applications should be made to avoid contact with the public to the maximum extent possible.
- The site that has been treated should be posted.

#### 6.2.2 Insect Control

Only insects that can cause a health risk (such as wasps and hornets) are controlled on trails. When insect control on trails is necessary, chemical control with an approved insecticide is acceptable and only the individual nests should be treated.

#### 7. IPM for Trees

Park trees are aesthetically pleasing, contribute to wildlife habitat, provide shade and shelter from the weather, and help clean the air of pollutants. Because trees are often very large and tall, accessing and managing pets and disease may present unique challenges.

#### 7.1 Pest Tolerance Thresholds

The following summarizes the pest tolerance thresholds for areas with trees:

- Some insect and disease pests in trees are to be expected.
- Insect or disease pests in selected, high-value specimen trees may require control measures.

#### 7.2 Physical Tree Damage Control

Tree loss damage most often occurs when construction equipment, mowing equipment, or string trimmers repeatedly strike trees. Damaged bark may result in tree loss. Damage may be controlled by observing the following guidelines:

- Removing turf from around the tree base to create tree mulch rings 3 to 4 feet in diameter can substantially reduce damage caused by mowers and trimmers.
- With tree mulch rings, pruning should be conducted for tree health reasons and for hazard reduction in conformance with the International Society of Arboriculture standards.

#### 7.3 Insect Control

Conditions may make it less desirable to attempt controlling insect pests in large trees. Aerial spray equipment often involves a high probability of the applied pesticide leaving the area due to wind drift. When insect pests are to be controlled in trees, the following measures should be used:

- Trees highly susceptible to specific insect pests may be removed from the landscape and replaced with resistant species.
- The portion of the tree affected by the insect (such as tent caterpillars) can be physically removed, eliminating the pest.
- An insecticide may be applied to control a specific insect pest only in certain situations. Such situations include pests on specimen-quality trees, in high-visibility locations, or where the presence of the pest threatens the life of the tree. When pesticide applications are made, product drift should be controlled.
- Injection technology may allow for systemic control of certain insect pests with minimal or no impact to human or environmental health.

#### 7.4 Disease Control

Tree diseases may lead to a tree becoming a hazard to the public or the surrounding environment. The following control measures may be appropriate under certain conditions:

- Trees susceptible to particular diseases may be removed from the landscape and replaced with diseaseresistant varieties.
- When possible, parts of trees affected by disease should be pruned out and properly disposed of to stop the spread of disease within the tree and to adjacent trees.
- An appropriate fungicide may be applied to control a specific disease pathogen only in certain cases. These cases include specimen-quality trees in high-visibility park locations where the presence of the disease compromises public safety or threatens the life of the tree. Pesticide applications should not be made unless the potential for product drift can be controlled.
- Injection technology may allow for systemic control of certain disease in trees pests with minimal or no impact to human or environmental health.

#### 8. IPM for Plant Beds

Plant beds are defined as non-turf planted areas that include woody plant material such as shrubs, trees, and ground covers. This category also includes floral color displays containing herbaceous plants such as perennials, annuals, and bulbs.

The most serious pest management issue in plant beds is weed control. If not controlled, weeds not only make a plant bed look unkempt but, more importantly, can out-compete desirable landscape plants resulting in a loss of assets.

#### 8.1 Pest Tolerance Thresholds

The following summarizes the pest tolerance thresholds for plant beds:

- In general, weeds are not tolerated in park plant beds.
- Insect pests are tolerated unless they pose a threat to humans or threaten the health of the desirable plant.
- Diseased plants are not tolerated and are usually removed.

#### 8.2 Weed Control

The following summarizes weed control guidelines for plant beds:

- Weeds are controlled by hand pulling, or by mechanical methods in larger plant beds.
- Plant beds may be mulched after planting to suppress new weed growth.
- Use of landscape fabric can be used.
- Herbicides can be sprayed, if necessary.

#### 8.3 Disease Control

The following summarizes the disease control guidelines for plant beds:

- Diseased plants should be hand-pulled from plant bed and discarded appropriately.
- Disease-resistant plants should be planted in all park plant beds, whenever possible.

#### 9. IPM for Certain Specific Pests

Certain specific pests require special management consideration. These pests include blackberries, English ivy, horsetail, knotweed, mice and rats, nuisance wildlife, Scotch broom, slugs, vector-borne disease, yellow jackets, hornets, and wasps.

#### 9.1 Blackberries

Effective mechanical control of blackberries may be difficult by itself. Combined with chemical control measures and replanting of the site, effective control can be maintained. Chemical applications should be limited to the area of infestation. Chemical applications should be suspended during berry production season until berries have fallen to protect against accidental chemical ingestion. Control measures should include revegetating the site with desirable plant species.

#### 9.2 English Ivy

Ivy is difficult to control or eradicate. Manual or mechanical control is somewhat effective though time-consuming. A combination of mechanical and chemical control may be more effective and spread can be kept to a minimum, with continuous control measures. Chemical applications should be kept to the area of infestation.

#### 9.3 Horsetail

Horsetail may be almost impossible to control manually or mechanically. Horsetail can be controlled with herbicides. Horsetail is an indication of high water content in soil, so any use of herbicides should be well thought out and carefully timed to avoid contamination beyond the application area. Chemical application should be contained to the area of infestation.

#### 9.4 Japanese Knotweed

Knotweeds are a habitat-degrading problem along riparian corridors in western Washington and are very difficult to control because they have an extensive rhizome system and the ability to re-sprout. It is generally not considered possible to eradicate knotweed species from Washington, but it may be possible to eliminate them from high quality riparian areas. Control methods in order of preference include prevention, cultural, and chemical controls. Mechanical controls are no longer considered effective as they tend to spread the plant. A combination of mechanical and chemical control may be more effective. Chemical applications (Habitat/Polaris) should be kept to the area of infestation.

#### 9.5 Mice and Rats

Rats and mice may pose a human health risk when present and should be controlled in given situations. Mice and rat control is not currently a major pest control issue in parks facilities, but increased control measures may be indicated in the future. The common method of control is baiting with an approved rat or mouse bait/trap. Extreme caution must be taken to place bait/traps in locations where people and domestic animals cannot access them. Potential effects of bait on predators or other wildlife should be considered.

#### 9.6 Nuisance Wildlife Control

Beavers, coyotes, moles, mountain beavers, opossums, raccoons, waterfowl, and other species can be destructive to park lands and natural areas when their activities are excessive. Generally, interference with wildlife is undesirable. If control of wildlife is deemed necessary, the County will work with the state (Department of Wildlife) agency to formulate a control solution.

#### 9.7 Scotch Broom

Scotch Broom can thrive on disturbed sites. It may be difficult to control, and spreads rapidly. The seeds and flowers are toxic, making it a high priority for eradication. Manual control can have some effect, but must be done at the proper time of year. Chemical control can also be effective, but requires follow-up management techniques until full eradication occurs. Chemical applications should be kept to the area of infestation.

#### 9.8 Slugs

Slugs can have a significant impact on park floral beds and other vegetation. Approved control strategies include manual control and careful use of chemical control products. One non-toxic chemical that is found to work is iron phosphate, which is biodegradable and, in appropriate concentrations, healthy for garden soil.

#### 9.9 Poison Hemlock

The entire plant is toxic to animals and humans; it contains the poisonous alkaloid conline and other alkaloids. It can infest large areas of pasture as well as open waste areas quickly. Poison hemlock is a very tall biennial plant that can reach up to 12 feet in height and prefers rich, moist soil, but is highly adaptable to other conditions. Manual control can have some effect, but must be done at the proper time of year. Chemical control can also be effective, but requires follow-up management techniques until full eradication occurs. Chemical applications should be kept to the area of infestation.

#### 9.10 Vector-Borne Disease

Vector-borne diseases are rarely an issue in the Pacific Northwest. The most significant such disease at this time is the mosquito-borne disease, West Nile Virus. Complete control of mosquito infestations is nearly impossible, but cultural controls can have some effect, such as removing any standing or stagnant water. Larvicides may also be used to control mosquito infestations if it is determined that public health concerns warrant their use. West Nile Virus control efforts should be coordinated with public health authorities.

#### 9.11 Yellow Jackets, Hornets, Mosquitoes, and Wasps

Control is typically through use of an approved insecticide or larvacide. Only individual nests or defined mosquito areas are treated and only if the nest or mosquitoes pose an imminent risk to humans using park facilities.

#### 10. Definitions

BMP: Best management practices are the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by the Department that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to waters of Washington State.

MSDS: Material Safety Data Sheets or MSDS are prepared by manufacturers of chemical products to relay the necessary safety and protective information to users about the said chemical compounds.

Pesticide: Any material including agricultural chemicals, herbicides, insecticides and fungicides, or biological agents applied to a target pest as a control measure.

Pest: The word "pest" has been broadly defined in this document to include "injurious" insect species, plant pathogens, noxious or invasive vegetation, vertebrate animals such as rodents, structural pests, or any other factor that creates an unhealthy environment for landscapes and structures.

Plant beds: Non-turf planted areas that include woody plant material such as shrubs, trees, and ground covers and may also include floral color displays containing herbaceous plants such as perennials, annuals, and bulbs.

Threshold: The term "threshold" refers to the point at which pest injury can no longer be tolerated without compromising human health, the health or aesthetic value of a plant, ecosystem, or other assets of value. Once a threshold is being approached, some control measure may be necessary to suppress pest activity to acceptable levels.

#### 11. References and Further Information

In general, the Stormwater Management Manual for Western Washington, Volume IV, Source control BMPs is a good source for information on pollution reducing measures for municipal operations.

This Integrated Pest Management Plan was developed relying on information from the following sources:

- United States Environmental Protection Agency, Integrated Pest Management Principles <a href="http://www.epa.gov/opp00001/factsheets/ipm.htm">http://www.epa.gov/opp00001/factsheets/ipm.htm</a>
- Washington State University Extension, Hortsense: Home gardener fact sheets for managing plant problems with IPM or Integrated Pest Management. http://pep.wsu.edu/hortsense/
- Shaw, Andy; Skagit County Department of Public Works Maintenance and Operations Division: Roadside Vegetation Management Objectives
- Snohomish County, NPDES Integrated Pest Management Plan for Sites with Drainage Facilities Owned or Operated by the County's Surface Water Management Division
- City of Bellevue Parks and Community Services, Integrated Pest Management Plan
- Washington State Department of Agriculture, IPM Plant Profile, Japanese Knotweed, July 9, 2004, Updated August 2008, November 2007.
- http://www.nwcb.wa.gov/documents/Microsoft%20Word%20-%20Profile-knotweed%20%208-08.pdf
- Washington State Department of Ecology, Stormwater Management Manual for Western Washington, Volume IV, Source control BMPs
- Skagit County Roads BMP Activity Guides

**Skagit County Chemical List** 

## **Skagit County Pest Management Chemicals**

The chemicals used by the County for pest management include, but are not limited to, the following chemicals. Applicators can determine the least toxic chemical by referring to the signal word on the EPA approved label.

Name	Uses	Active Ingredients
	Parks	
Roundup Pro	Broad leaf and grasses (parking lots, fence lines, spot spraying flowerbeds)	Glyphosate
Garlon 3A	Blackberries. Poison Hemlock.	Triclopyr butoxyethylester
Quick fire	Moss killer.	Ammonium Salt of Fatty Acids
Speed Zone	Selective herbicide, used in turf to control unwanted broadleaf.	Carefen Trazone-ethyl, Ethylhexyl Ester, 2, 4-D, Mecoprop-P Acid
Casoron 4G	Pre-emergence weed control in flowerbeds.	Dichlobenil
	Skagit County Noxious Weed Contro	Board
Aquaneat/Aquamaster/Rodeo	For controlling broad leaves and grasses. Mainly used for Spartina and Knotweed control. Aquatic.	Glyphosate
Weedar64	Broad leaved plants. Aquatic.	2,4-D
2,4-D Amine 4	Broad leaved plants.	2, 4-D
Weedmaster	Broad leaved plants. Pasture approval rating.	2, 4-D
Crossbow	Broad leaved plants.	2, 4-D
Round up Pro	Broad leaf and grasses.	Glyphosate
Habitat	Broad leaf and grasses. Used in our Spartina and Knotweed programs.	Imazapyr
Polaris	Broad leaf and grasses. Used in our Spartina and Knotweed programs.	Imazapyr
Stinger	Scotch broom.	Clopyralid
Milestone	Broadleaved weeds. Hawkweeds.	Pyridine
	Skagit County Noxious Weed Control Boar	d Surfactants
Competitor	Spartina and Knotweed programs.	Modified Vegetable Oil.
Syltac	Terrestrial application or near water	Modified Vegetable Oil and Silicone Surfactant.
R-11	Terrestrial application or near water	N,N-Bis-2-(omega- Hydroxypolyoxyethylene/polyoxypropylene) ethy alkylamine
	Roads	
Oust Extra	Eliminates vegetation on road shoulders to maintain &clear shoulders.	Sulfometuron methyl, Metsufuron methyl
Round Up Pro	Broad leaf and grasses.	Glyphosate
Telar	Eliminate and maintain horsetail.	Chlosulfuron

Name	Uses	Active Ingredients
Land Mark	3 oz Oust and 11/5 oz Telar	Sulfometuron methyl, Chlorsulfuron
Pay Load	Maintain clear shoulders	Flumioxazin
Milestone	Eliminate vegetation and maintain clear shoulders.	Pyridine
Razor Pro	Broadleaf and grasses.	Glyphosate
Clean Amine	Broadleaved plants.	2, 4-D
Spreader 90	Non ionic surfactant.	Alkyl polyethoxy ethers & ethoxylated derivatives
Liberate	Linseed base – surfactant – drift control	Lecithin, methyl esters of fatty acids, alcohol ethoxylate
Escort	Slow kill of brush (alders, blackberries, and maple trees).	Metsulfuron methyl
Poloris	Broad leaf and grasses. Used in our Spartina and Knotweed control	Imazapyr

Skagit County Roadside Vegetation Management Objectives

# SKAGIT COUNTY DEPARTMENT OF PUBLIC WORKS MAINTENANCE & OPERATIONS DIVISION



## ROADSIDE VEGETATION MANAGEMENT OBJECTIVES

To effectively control vegetation through mechanical, manual, and chemical means.

Prepared By: Andy Shaw Assistant Operations Supervisor AS/jrr

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#### I. ROADSIDE MANAGEMENT OBJECTIVES

There are three parts of the roadway that are of concern, Shoulders, Ditches, and the Back slope area.

#### A. Roadway Shoulders – Zones I, II and III

The shoulder is considered the area between the edge of the road surface and the beginning of the ditch. The shoulder may be anywhere from 0 to approximately eight feet wide. The county has identified the general needs of shoulder maintenance by zones.

Zone I – Pavement drainage Zone. Mandatory 12 inches strip beginning at the edge of the pavement along all County roads, resulting in no vegetation.

Zone II – Vegetation Free Zone. Section up to approximately eight feet from pavement edge of road to ditch line/shoulder edge on drivable shoulders where no vegetation should grow,

Zone III - Operation Zone. Section where low growing vegetation is maintained. This section varies greatly in width and is dependent upon shoulder make-up. (non-drivable shoulders)

The following explains the importance for ensuring no vegetation growth along the road shoulder within Zone I and Zone II:

- 1. Prevent sod buildup that hinders proper roadway drainage.
- 2. Prevent root systems ad vegetation from deteriorating edges off roadway and drivable surface.

The following explains the importance for ensuring no vegetation growth or low growing vegetation maintenance along shoulder within Zone I, Zone II and Zone III:

- 1. Eliminate fire hazards.
- Road right-of-way should present no visual hazards.
- 3. Maintain shoulder area that can be used for joggers, bicyclists and provide off-road emergency parking.

Most important is the prevention of sod buildup. Vegetation growing in the shoulder area causes a buildup of sod and if left unchecked will rise two to six inches above the edge of the pavement. When this occurs, water draining from the roadway to the ditch is impeded, allowing it to soak into the shoulder surface and under the pavement. In the winter when the sub-grade is continually wet and traffic is using the road, the asphalt surface breaks up causing extreme road pavement damage at the time of a freeze.

Another problem with sod build up is the ridge it forms along the pavement edge. This ridge is a danger to traffic in the same manner as a

rut along the pavement edge. The roots developed by the sod tend to grow under the pavement edge that ravels and breaks out into small chunks under traffic.

#### B. <u>Ditches - Zone IV</u>

The main function of roadway ditches is to gather the roadway surface drainage and move it away from the roadway and into a natural drainage course. It is important that ditches are maintained to inhibit erosion of ditch banks and that they be kept free of obstructions, allowing water to flow freely.

The following need to be controlled along ditch lines and within the ditch itself: cattails, reeds canary grass, alder, and blackberries.

Controlling the vegetation along ditch lines and within the ditch promotes:

- 1. Improved drainage by removing cattails and reeds canary grass that clog ditches.
- 2. Improved sight distances to sign posts, curves, and intersections.
- 3. Improved drainage by the removal of material accumulating in ditches.

For vegetation management classification purposes, ditches require Zone IV maintenance.

#### C. Back slopes – Zones III and V

The back slope is that portion of the right-of-way from the back edge of the ditch to the right-of-way line. The area may average between 2 to 10 feet in width. The needs in this area are:

- 1. Safety Keeping a sight line clear from vegetation to prevent potential safety hazards from vegetation growing over the roadway. (trees and/or their branches hanging overt the roadway, etc.)
- 2. Removing poisonous or noxious weeds such as tansy ragwort and knapweed.
- 3. Keeping undesirable vegetation growing on the right-of-way from spreading to private properties and visa versa.
- 4. Removing dangerous trees from road right-of way.
- 5. Clearing vegetation from fence lines.
- To remove brush and trees from back slopes to allow sun to dry road, promoting longer road life and decrease the potential of traffic accidents during the winter months when ice accumulates in shaded areas of roadways.
- 7. To provide self-sustaining vegetation that will control erosion.
- 8. To reduce the amount of manual and mechanical brush cutting.

For vegetation management classification purposes, back slopes require Zone III and/or V maintenance.

#### II. VEGETATION MANAGEMENT TECHNIQUES

#### A. Shoulders – Zone I, II and III

There are many variables that effect vegetation growth on shoulders. The prime examples being traffic volumes soil conditions, weather conditions, roadway surface type, and size/slope of shoulders and degree of urbanization.

One or more of the following methods will be used to maintain roadway shoulders.

#### 1. Mechanical Mowing

To control the growth of planted or wild weeds and grasses or other types of vegetation. To clean edge of the roadway by machine mowing. This contributes to the safety, convenience and pleasure of the public and the preservation of the roadway itself.

Mowing shoulders is a proven method of vegetation control in some areas and is presently used on shoulders that will not be chemically sprayed. When shoulders are mowed, only the surface layer of vegetation is removed, which leaves a problem of root systems deteriorating the roadway and sod buildup sometimes causing drainage problems.

At the present time there are six (6) maintenance Tech II's who operate the county's mechanical mowers approximately six months out of the year.

As a general rule, county roads will be mowed twice (2) a year. The number of mowing will vary depending on the growth rate of the locality and the vegetation make-up. The mowing season is from April through September.

#### 2. Shoulder Maintenance - Mechanical

Maintenance on the portion of the roadway between the traveled way (actual road pavement) and the roadside ditch. Specific activities include: shoulder grading, sod removal allows a smooth transition to shoulder from traveled way and to promote drainage.

Approximately 100 miles of county roadway will have sod removal done annually. Sod removal is presently on a seven- (7) year cycle

The roads Skagit County anticipates sod removal on are basically the same as the oiling schedule.

#### Chemical Control – Sterilant

To maintain vegetation free area promoting pavement drainage and prevent the breaking-up of road edge. To maintain low vegetation on roadside shoulders.

Approximately 815 miles of roads are scheduled for treatment annually.

The Spray Program is scheduled to begin in March.

A minimum of 12 inches and a maximum of approximately 4 feet will be sprayed, depending on shoulder makeup. Exceptions will be those areas restricted from herbicide application as described in section III.

#### B. Back slopes – Zone III and V

To control the growth of brush, blackberries and small trees on back slopes of ditches and intersections. Emphasis is given to safety, preservation of the roadway, signs, guardrails (etc.) and ditch lines.

Natural growth and vegetation which does not cause a visual hazard or potential roadway damage will not be disturbed.

#### 1. Manual and Mechanical Vegetation Control

To control the growth of brush, blackberries and small trees on back slopes of ditches and intersections. Manual methods use chainsaws or brush saws. Mechanical methods use a rotary mowing head.

There are six (6) maintenance tech II's who operate the mechanical brush cutters approximately six (6) months of the year.

The manual brush crew consists of six maintenance techs that work approximately 10 months of the year with chain saws, the basket truck and chipper truck.

#### 2. Noxious Weed Control/Brush

To control the growth of noxious weeds within the County rightof-way, such as tansy ragwort, knapweed or other weeds designated by the Washington State Noxious Weed Board or the Skagit County Noxious 'Weed Board.

To remove brush along fence lines, guardrails, bridge approaches, sign posts and any other areas where mechanical mowers cannot reach. To restrict the growth of brush, blackberries and alders. Approximately 800 miles of roadway are scheduled to be dormant

spot-brush sprayed. Ideally the dormant spray program should begin in early Spring (Match-April) and/or Fall.

Basal treatments (use of herbicide on fresh cut trees) will be applied to restrict and/or eliminate new growth of alders and other unwanted trees. This treatment is done immediately (from 0 to no more than four hours following the cutting of the trees.

All noxious weed/brush maintenance activity will be documented on Daily Herbicide Application Forms.

#### C. Ditches - Zone IV

Ditches will be maintained so they are free of obstructions and allow water to flow freely.

Ditches will be maintained by mechanical, manual and chemical means.

#### 1. Mechanical Ditching

Mechanical ditching is done to remove material that is silting. One problem with mechanical ditching is that when the excavator removes an extra two to four inches of material, eventually the ditches become deeper than driveway cross culverts. Culverts then need to be reset.

#### 2. Manual Ditching

Hand ditching, pulling and weeding of vegetation found in county ditches will be done when there is no other means of effectively controlling the problem vegetation.

#### III. SPRAY PROGRAM

It is the policy of Skagit County to minimize the use of herbicides for vegetation control when possible.

#### A. Laws and Regulations

Skagit County Public Works will adhere to all Federal, State and County laws, Regulations, Ordinances, Resolutions and Executive Orders.

#### B. Citizen Options

Citizens (landowners) residing in Skagit County who do not want herbicides applied to the road right-of-way abutting their property may yearly sign an "Spraying Agreement" and post the frontage of there property as no spray areas.

Skagit County will refrain from spraying herbicides until such time the vegetation becomes overgrown. Skagit County retains the right to mow and or apply herbicide if the growth of vegetation impairs the visibility and/or intrudes into the roadway, blocks drainage pathways, or causes a visual impairment to the motoring public. Skagit County may chemically treat a 12-inch portion of shoulder/roadway to prevent any vegetation intrusion in the roadway itself upon permission by the property owner.

#### Refer to:

- 1. Appendix I Maintenance Agreement Roadside Spray Program Options
- 2. Appendix II No Spray Sign Posting Instructions
- 3. Appendix III Right of Way "Spraying Agreement"

#### C. No Spray Areas

The following areas have been identified as "chemical Usage Restriction" areas. The county will not be applying herbicides to these areas.

- 1. List of pesticide sensitive individuals Department of Agriculture
- Areas where owners sign a "Spraying Agreement"
- 3. Department of Fisheries Exemptions
- 4. Department of Ecology Exemptions
- 5. Well head areas

#### IV SUMMARY

Skagit County has made a commitment to develop and implement an integrated roadside vegetation management program. One that used a variety of vegetation control measures in an attempt to minimize chemical solutions wherever possible.

A successful integrated Roadside Vegetation Management Program is not developed overnight. It takes scientific research, testing, money, staff and creativity.

Vegetation must be continually managed to protect the structural integrity of the traveled way and contribute to its safe use, improve the esthetics of the roadside, minimize necessary manpower expenditures, and reduce costs. Vegetation management limits the spread of undesirable weeds while providing valuable wildlife habitat for animals and birds as well as creating a visual experience for the public.

The key to a successful integrated vegetation management program is personnel. It is essential that all individuals responsible for herbicide mechanical equipment and manual means of vegetation management are competent, capable and knowledgeable in this subject to keep the program safe and effective for themselves and the public.

#### APPENDIX I

#### SPRAYING AGREEMENT ROADSIDE SPRAY PROGRAM OPTIONS

The Road Right-of-Way Spraying Agreement gives you three (3) no spray options. These options are:

- 1. Do not spray the road shoulder and back slope (pavement to property line adjacent to my property.
  - If this option is selected, Skagit County will apply NO chemicals to the right-of-way abutting your property from the road shoulder to your property line.
- 2. I will allow a 12" strip from the pavement edge to be sprayed to minimize road pavement damage and allow adequate drainage.
  - If this option is selected, Skagit County may apply herbicides not to exceed 12 inches from the pavement edge on the road shoulder.
- 3. Do not spray the road back slope (front of ditch or end of road shoulder to property line) adjacent to my property.
  - If this option is selected, Skagit County will apply chemicals to the road shoulder but will apply NO chemicals from the edge of the shoulder to your property line.

Spraying from 12 inches (minimum) up to approximately 8 feet (on drivable shoulders) on the road shoulder is invaluable in preventing sod buildup that hinders necessary roadway drainage and prevents root systems from deteriorating edges of roadway.

#### APPENDIX II

## SKAGIT COUNTY PUBLIC WORKS DEPARTMENT MAINTENANCE & OPERATIONS DIVISION

## Spraying Agreement Sign Posting Instructions

Post the boundaries of your property with the signs provided by Skagit County.

Signs should be securely fastened to a small post which is firmly driven into the ground at a location that is as far away from the edge of the pavement as is reasonably possible while still remaining easily visible for an approaching vehicle.

Should you have any questions about Skagit County's Roadside Vegetation Management Program, please feel free to call 755-9531. You may also write to Skagit County Road Department, 201 East Avon Avenue, Burlington, WA 98233.

Permits and posting of signs are good for one calendar year only. They will have to be renewed on an annual basis. Anyone who has an existing "Spraying Agreement" with the county will be contacted the following year at approximately the same time.

#### APPENDIX III

## SKAGIT COUNTY SPRAYING AGREEMENT

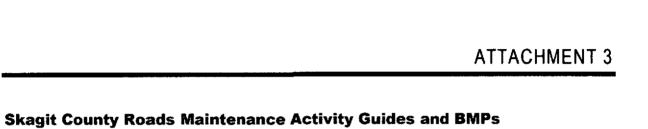
This agreement (herein "agreement") between \_\_\_\_\_ and \_\_\_\_ (check

box that a	
	[ ] a single person, [ ] husband and wife,
	[ ] as the(print title/position)
	of
	a
State of '	(print the kind of legal entity & state of legal formation), and ividually and/or collectively referred to as the "OWNER"), and Skagit County, a political subdivision of the Washington (herein the "COUNTY"). OWNER and COUNTY may be individually referred to herein as a and may be collectively referred to herein as the "parties." The parties mutually agree as follows:
1.	OWNER will install signs on the property line(s) of OWNER'S property (more particularly identified per Section 8., below) that are clearly visible from the road. OWNER shall assure that such signs have continued visibility. COUNTY will supply signs at the OWNER'S request. Only signs provided by the COUNTY may be used by the OWNER per this agreement, and use of any other signs by OWNER (homemade or otherwise), may void this agreement.
2.	OWNER will select from the following options and initial OWNER'S choice on the line provided:
	Do not spray the road shoulder and back slope (pavement to property line) abutting my property.
	A twelve inch (12") strip from the edge of the pavement may be sprayed, as determined by the $\overline{\text{COUNTY}}$ .
	Do not spray the road back slope (front of ditch or end of shoulder to property line) abutting my property.
3.	OWNER agrees to remove and destroy any noxious weed (i.e. Tansy Ragwort) identified on abutting COUNTY right-of-way.
4.	Subject to the terms of this agreement, the COUNTY will not use chemical herbicides in the sign-posted areas including shoulders, ditches and right-of-way behind the ditches, as designated in Section 2, above.
5.	COUNTY will mow and/or apply herbicide whenever the COUNTY otherwise reasonably determines (at the COUNTY'S discretion) that it is necessary to do so, in the event that vegetation and/or weeds within the COUNTY right-of-way abutting the OWNER's property have become overgrown and/or are otherwise in need of maintenance (as may be determined by the COUNTY).
6.	The term of this agreement is one (1) year from the date of signature and must be renewed annually by the OWNER. Either the OWNER or the COUNTY may terminate this agreement by providing the other party with written notice of termination at any time during the term of this agreement.
7.	The OWNER hereby agrees to indemnify, defend and hold harmless the COUNTY (including its officers, elected officials, agents, contractors, employees and volunteers) from any loss, damage, claim, demand, and/or judgments directly attributable to this agreement. The COUNTY assumes no liability whatsoever pursuant to the terms of this agreement.
8.	The OWNER represents that he/she/they is/are the legal owner(s) of the property commonly identified as Skagit County Assessor Tax Parcel Number(s):  . If the property is owned by a partnership, corporation, trust, limited liability company, or other legal entity, the undersigned represents that he/she/they is/are duly authorized to execute this agreement on behalf of the partnership, corporation, trust, limited liability company, or other legal entity.
9.	This agreement may be executed in any number of counterparts. Faxed signatures shall be considered to be original signatures. This agreement is made and entered into under the laws of the State of Washington. Venue for this agreement is Skagit County, Washington. If any term of provision of this agreement is held to

be invalid or unenforceable by a court of competent jurisdiction, such invalidity shall attach only to such term or provision, and shall not this agreement shall only be deemed modified by said court to minimum extent

required by law.

Date	Signature (OWNER)
	Print Full Name and Mailing Address
Phone	
	Skagit County Assessor Tax Parcel Number(s):
Recommended by:	Approved as to Content:
Public Works Department Special Operations Mgr.	Public Works Director
If you have any questions please call (360) 755-9531.	Please return this agreement to:
	Skagit County Road Department
	201 East Avon Avenue Burlington WA 98233
Approved as to Indemnification:	
Risk Manager	
Approved as to form:	
Deputy Prosecuting Attorney	



## Best Management Practices (BMPs) for Road Operation Division Activities

(To be included in appropriate activity guides)

Pipe Clear	Pipe Cleaning	
and the enclos	the cleaning of pipes in enclosed drainage systems. Pollutants accumulate in pipes sed drainage systems. Removal of these pollutants restores the drainage capacity as ing pollutants before they are discharged to the receiving water	
Inspect / Maintain	<ul> <li>Inspect the pipe/ enclosed drainage system to determine if removal of accumulated solids is necessary</li> <li>Clean pipes when accumulation of solids exceeds the maintenance standard.</li> </ul>	
Vactor	<ul> <li>Remove / Vactor accumulated sediment to prevent discharge to the receiving water</li> <li>Block down gradient end of pipe to prevent flushing of pollutants, if necessary</li> <li>Minimize water usage</li> <li>Remove liquids and solids from pipe</li> </ul>	
Disposal	<ul> <li>Dispose of removed materials properly:         <ul> <li>Decant liquids to sanitary sewer. Do not discharge liquids to the drainage system or to the ground</li> <li>Dispose of solids. If the pipe contained hazardous materials, hazardous disposal of the solids may be necessary</li> </ul> </li> </ul>	
Equipment	<ul> <li>Maintain equipment to prevent vehicle fluid leaks(oils. Lubricants)</li> <li>Maintain gaskets, hoses, valves (etc.) to prevent leakage of vactored liquids</li> <li>Keep cleanup materials in the vehicle to clean up spills</li> </ul>	

_	Cleaning of Culverts	
that co	that convey stormwater in ditch systems	
	the cleaning accumulated pollutants in culverts. Removal of these pollutants restores pacity as well as removing pollutants before they are discharged to the receiving water	
Inspect / Maintain	<ul> <li>Inspect the culvert to determine if removal of accumulated solids is necessary</li> <li>Clean pipes when accumulation of solids exceeds the maintenance standard.</li> </ul>	
Down gradient protection / Vactor	<ul> <li>Protect the down gradient ditch from erosion. Place erosion control in ditch to prevent flushing of the culvert from causing erosion.</li> <li>Install a system to collect the water and sediment flushed from the culvert to be collected.</li> </ul>	
Disposal	<ul> <li>Remove the solids and liquids using a vactor truck or other method</li> <li>Dispose of removed materials properly:         <ul> <li>Decant liquids to sanitary sewer. Do not discharge liquids to the</li> </ul> </li> </ul>	

	drainage system or to the ground  O Dispose of solids. If the pipe contained hazardous materials, hazardous disposal of the solids may be necessary
Equipment	Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)
1	Maintain gaskets, hoses, valves (etc.) to prevent leakage of liquids
	Keep cleanup materials in the vehicle to clean up spills

Ditch Maintenance	
	the removal of accumulated sediment and pollutants in the drainage ditch as well as tion maintenance within the ditch.
Inspect / Maintain	<ul> <li>Inspect the ditch system to determine if removal of accumulated solids is necessary</li> <li>Maintain accumulation of solids exceeds the maintenance standard.</li> </ul>
Sediment Removal	<ul> <li>Remove sediment if sediment accumulation exceeds standard</li> <li>Remove in a manner that limits exposing un-stabilized soil. If soil is exposed, then provide stabilization of soil.</li> </ul>
Down gradient protection	If necessary, install barriers to prevent the flushing of pollutants and sediment down gradient.
Stabilize soil	• Stabilize exposed soil to prevent erosion. Vegetate, armor, or apply other erosion control methods. Refer to Stormwater Management Manual for Western Washington; Chapter 2 – for recommended sediment and erosion control practices and standards.
Vegetation	<ul> <li>Manage vegetated ditches when needed to maintain conveyance capacity per Skagit County Roadside Vegetation Management objectives.</li> <li>Control vegetation through mechanical and manual method.</li> <li>If chemical means are necessary, use Integrated Pest Management (IPM) practices:         <ul> <li>Limit chemical application as much as possible.</li> <li>If chemicals are necessary, select herbicides with the lowest mobility and persistence</li> <li>Apply only if weather forecasts are dry for a period of time to allow chemical degradation</li> <li>Do not apply to ditches that contain water</li> </ul> </li> </ul>
Disposal	<ul> <li>Dispose of removed materials properly:         <ul> <li>Decant liquids to sanitary sewer. Do not discharge liquids to the drainage system or to the ground</li> <li>Dispose of solids. If the pipe contained hazardous materials, hazardous disposal of the solids may be necessary</li> </ul> </li> </ul>
Equipment	Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)

- Maintain gaskets, hoses, valves (etc.) to prevent leakage of liquids
- Keep cleanup materials in the vehicle to clean up spills

#### Street Cleaning

This applies to all street cleaning activities; including the removal of accumulated solids including sediment, vegetative debris, soil, dust, tire wear residues, and vehicle combustion products; and liquid and fluid spills.

#### Sweeping

- Conduct efficient street sweeping where and appropriate to minimize the contamination of stormwater.
  - o Choose a sweeper with maximum sweeper efficiency
  - Sweep at optimal frequencies consistent with sediment accumulation
     Maintain sweeping records to determine areas needing frequent
     sweeping
  - o Sweep prior to rainstorms so pollutants are not washed
  - o Sweep as soon as possible following application of deicers
- Minimize dust production while sweeping
- Store sweeping solids appropriately prior to disposal
  - O Cover and Contain sweeping to prevent wash off of contaminants
- Dispose of sweepings properly
  - o If wet sweeping is performed, do not dispose of liquid to the storm drains; discharge liquids to the sanitary sewer
  - Dispose of sweeping solids at an approved disposal site
  - If needed, analyze sweeper wastes for hazardous waste content and dispose properly
- Properly Maintain Sweepers
  - o Maintain sweepers to prevent fluid leaks
  - O Carry spill cleanup materials on sweeper for small spill cleanup (absorbent; shovel); Dispose of cleanup material properly

#### Street Surface Cleaning; Spill Cleanup

- Spot-clean areas if possible
- Use absorbents for spill cleanup
  - Remove absorbent material and dispose of properly
     Sweep granular absorbents and remove absorbent pads
- Mud/Sediment removal.
  - Sweep as much as possible
  - Wash with water if necessary
- If water (hose or pressure washer) is necessary:
  - o Contain area being cleaned
  - o Collect wash water and dispose of to the sanitary sewer

Road Repa	Road Repair and Resurfacing	
Includ	Including pavement grinding	
	the preparation and repair of road surfaces. Road maintenance activities can ments, pH from concrete, and oils from asphalt.	
Inlet protection / erosion control	<ul> <li>Provide storm drain covers, inlet protection, or similarly effective containment devises over all nearby drains. Leave in place until concrete or asphalt has cured.</li> <li>Refer to Stormwater Management Manual for Western Washington; Chapter 2 – for recommended sediment and erosion control practices and standards.</li> </ul>	
Concrete / Asphalt	<ul> <li>Collect all accumulated runoff, aggregate chunks, and other solids and dispose of properly.</li> <li>Contain and collect the slurry from concrete pouring. Do not wash or allow the discharge of concrete slurry to the storm drainage system.</li> <li>Rinse all concrete equipment in designated wash areas.</li> </ul>	
Pavement grinding	<ul> <li>Apply dust control methods</li> <li>Collect any dusts or saw-cutting liquids.</li> </ul>	
Equipment	<ul> <li>Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)</li> <li>Maintain gaskets, hoses, valves (etc.) to prevent leakage of liquids</li> <li>Keep cleanup materials in the vehicle to clean up spills</li> </ul>	

Snow and	Ice Removal
and sidewalks, become polluta	emoval is necessary for public safety. This applies to snow and ice removal on roads as well material handling and storage areas. The deicing and anti-icing compounds ants when they are conveyed to storm drains or to surface water after application. It is can also occur during their handing and storage.
Selection / Operational	<ul> <li>Choose salt materials that are the most environmentally-friendly</li> <li>Minimize use of salt by reducing salt-to-sand ratios</li> </ul>
Storage / Mixing areas	<ul> <li>Cover and contain the sand and salt storage areas to prevent erosion, wash-off, and infiltration of salts. Locate in an area that will not directly discharge to the drainage system.</li> <li>Mix in a manner that prevent sand and salts from falling on surface outside of contained area</li> <li>After mixing, sweep up any spilled sand or salt</li> </ul>
Application	<ul> <li>Minimize the application rates as much as possible.</li> <li>Remove sand by sweeping as soon after application as possible to prevent discharge to the drainage system. Prioritize sand cleanup areas based on potential for mobilization and minimize impacts.</li> </ul>

Utility Insta	Utility Installation		
	Utility installation requires soil disturbance and pouring of concrete. Sediment can be washed off and the pH of the water can be altered from the concrete.		
Protect inlets	Provide storm drain covers, inlet protection, or similarly effective containment devises over all nearby drains. Leave in place until concrete or asphalt has cured.		
Erosion	Implement sediment and erosion control measures.		
control	• Refer to Stormwater Management Manual for Western Washington; Chapter 2 – for recommended sediment and erosion control practices and standards.		
	• Sweep up sediment and mud residuals. Do not hose off sediment and mud into the drainage system. If washing is necessary, contain and collect (vactor) the wash water and dispose to the sanitary sewer		
Concrete	Collect all accumulated runoff, aggregate chunks, and other solids and dispose of properly.		
	<ul> <li>Contain and collect the slurry from concrete pouring. Do not wash or allow the discharge of concrete slurry to the storm drainage system.</li> </ul>		
	Rinse all concrete equipment in designated wash areas.		
Equipment	Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)		
• •	Maintain gaskets, hoses, valves (etc.) to prevent leakage of paint		
	Keep cleanup materials in the vehicle to clean up spills		
	Wash painting equipment (striper, rollers, etc.) in a manner that wash water is		
	discharged to the sanitary sewer		

	Pavement striping maintenance	
This applies to prior to drying	pavement striping using paint. Paint is a pollutant if washed into the drainage system	
Painting	Do not apply paint in rain	
Paint Storage / Transfer	Store paint in a manner that will prevent spills. If stored outside, provide secondary containment.	
	Use drop cloths and drip pans to collect spills	
Paint Spills	• Clean up paint spills. Small paint spills can dry in place. For larger paint spills, wipe up as much paint as possible and allow the remainder to dry.	
	Do not hose-off paint spills into the drainage system. If wash-up is necessary, contain and collect (vactor) the paint and wash water and dispose to the sanitary sewer	
Equipment	Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)	
	Maintain gaskets, hoses, valves (etc.) to prevent leakage of paint	
	Keep cleanup materials in the vehicle to clean up spills	
	Wash painting equipment (striper, rollers, etc.) in a manner that wash water is	

Maintaining	roadside areas		
_	ing vegetation management		
A 1	the road right-of-way, including the shoulder and vegetated roadside. The roadside		
	ulate pollutants from dumping, spills, vehicle accidents, and vegetation management.		
Stabilize	Stabilize areas of bare ground with gravel, crushed rock, vegetation, or other methods to prevent erosion		
	Stabilize temporarily exposed soil to prevent erosion. Refer to Stormwater		
	Management Manual for Western Washington; Chapter 2 – for recommended		
	sediment and erosion control practices and standards.		
Litter / Spills	Remove litter and dumped materials		
Clean up spills. Clean up spills with oil absorbents. Collect or swe			
	absorbents and dispose properly.		
	Do not hose-off spills into the drainage system. If wash-up is necessary,		
T7	contain and collect (vactor) the wash water and dispose to the sanitary sewer		
Vegetation	<ul> <li>Manage roadside areas consistent with Skagit County Roadside Vegetation         Management objectives.</li> </ul>		
	Control vegetation through mechanical and manual method.		
	If chemical means are necessary, use Integrated Pest Management (IPM)		
	practices:		
	<ul> <li>Limit chemical application as much as possible.</li> </ul>		
	o If chemicals are necessary, select herbicides with the lowest mobility and		
	persistence		
	<ul> <li>Apply only if weather forecasts are dry for a period of time to allow chemical degradation</li> </ul>		
Equipment	Maintain equipment to prevent vehicle fluid leaks (oils. Lubricants)		
	Maintain gaskets, hoses, valves (etc.) to prevent leakage of paint		
	Keep cleanup materials in the vehicle to clean up spills		

Dust Cont	rol		
This applies to all activities that may generate dust, sediment, and other particulate matter that may contaminate stormwater runoff if not properly controlled.			
Stabilize Soil	<ul> <li>Stabilize or cover areas exposed or disturbed soil necessary to prevent soil erosion. Refer to Stormwater Management Manual for Western Washington; Chapter 2         <ul> <li>for recommended sediment and erosion control practices and standards.</li> </ul> </li> <li>Consider using approved dust suppressants such as those listed in the Department of Ecology Publication Techniques for Dust Prevention and Suppression,</li> </ul>		

	<ul> <li>(#96-433). Note that not all dust suppressants are appropriate for use near storm drainage systems or surface waters</li> <li>Consider paving municipal operation areas that generate dust or mud</li> </ul>	
Dust	Sweep paved areas as needed where dust accumulates	
Removal	Regularly clean equipment and vehicles subject to dust accumulation from operations.	
	Prevent mud/dust tracking by stabilizing soils and using wheel wash facilities when necessary	
	<ul> <li>Never wash down equipment or vehicles to the storm drainage system. If washing is necessary, contain and collect wash water for proper disposal. If no other pollutants are present, sediment- or dust- laden wash water can be infiltrated in a grassy area.</li> </ul>	

## **APPENDIX C**

Vendor Services Agreement (Informational Only)

Contract Bond (Informational Only)

Retainage Options (Informational Only)

#### **VENDOR SERVICES AGREEMENT**

Skagit County, through the Department of (hereinafter referred to as County) and (hereinafter referred to as Contractor), for and in consideration of the mutual benefits do hereby agree as follows:

- 1. Contractor will provide the following service/products at such time and in such manner as described in **"Exhibit A"**.
- 2. County will compensate Contractor a maximum of , chargeable to GL expenditure code(s) # , and others as may be necessary.
- 3. The parties agree that Contractor is an independent contractor, and not an employee nor agent of Skagit County. Contractor hereby agrees not to make any representations to any third party, nor to allow such third party to remain under the misimpression that Contractor is an employee of Skagit County. All payments made hereunder and all services performed shall be made and performed pursuant to this Agreement by the Contractor as an independent contractor. Contractor will defend, indemnify and hold harmless the County, its officers, agents or employees from any loss or expense, including but not limited to settlements, judgments, setoffs, attorneys' fees or costs incurred by reason of claims or demands because of breach of the provisions of this paragraph. Further the Contractor represents that all employees and sub-contractors are covered under Industrial Insurance in compliance with R.C.W. Title 51.
- 4. Defense & Indemnity Agreement:

The Contractor agrees to defend, indemnify and save harmless the County, its appointed and elective officers and employees, from and against all loss or expense, including but not limited to judgments, settlements, attorney's fees and costs by reason of any and all claims and demands upon the County, its elected or appointed officials or employees for damages because of personal or bodily injury, including death at any time resulting therefrom, sustained by any person or persons and on account of damage to property including loss of use thereof, whether such injury to persons or damage to property is due to the negligence of the Contractor, its subcontractors, its elected officers, employees or their agents, except only such injury or damage as shall have been occasioned by the sole negligence of the County, its appointed or elected officials or employees. It is further provided that no liability shall attach to the County by reason of entering into this contract, except as expressly provided herein.

- 5. This Contract shall commence on and continue until either party terminates by giving 30 days' notice in writing either personally delivered or mailed postage prepaid by certified mail, return receipt requested to the party's last known address, but in no event shall the contract continue for more than one year from date of execution.
- 6. The Contractor shall not assign any interest in this Contract and shall not transfer any interest in same without prior written County consent.

- 7. The Contractor will secure, at his own expense, all personnel required in performing said services under this Contract. Contractor shall be personally liable for applicable payroll, labor and industries premiums and all applicable taxes and shall hold County harmless therefrom.
- 8. The Contractor shall provide proof of insurance for general comprehensive liability in the amount of \$1,000,000 to cover Contractor's activities during the term of this Contract. Proof of insurance shall be in a form acceptable and approved by the County. A certificate of insurance naming the County, its elected officials, and employees as additional insured's and naming the County as a certificate holder shall accompany this Contract for signing. Thirty (30) days' written notice to the County of cancellation of the insurance policy is required. No contract shall form until and unless a copy of the certificate of insurance, in the amount required, is attached hereto as set forth in "Exhibit "B". The contractors insurance shall be primary. Any insurance or self-insurance maintained by the County, its officers, officials, employees or volunteers shall be excess of Contractors insurance and shall not contribute to it.

#### 9. Prevailing Wages:

Contractor and subcontractor shall submit a "Statement of Intent to Pay Prevailing Wages" prior to submitting first application for payment. Each statement of intent to pay prevailing wages must be approved by the Industrial Statistician of the Department of Labor and Industries before it is submitted to the County. Unless otherwise authorized by the Department of Labor and Industries, each voucher claim submitted by a Contractor for payment on a project estimate shall state that the prevailing wages have been paid in accordance with the pre-filed statement or statements of Intent to Pay Prevailing Wages on file with the public agency.

#### 10. Termination for Public Convenience:

The County may terminate the contract in whole or in part whenever the County determines, in its sole discretion that such termination is in the best interests of the County. Whenever the contract is terminated in accordance with this paragraph, the Contractor shall be entitled to payment for actual work performed at unit contract prices for completed items of work. An equitable adjustment in the contract price for partially completed items of work will be made, but such adjustment shall not include provision for loss of anticipated profit on deleted or uncompleted work. Termination of this contract by the County at any time during the term, whether for default or convenience, shall not constitute a breach of contract by the County. If sufficient funds are not appropriated or allocated for payment under this contract for any future fiscal period, the County will not be obligated to make payments for services or amounts incurred after the end of the current fiscal period. No penalty or expense shall accrue to the County in the event this provision applies.

Telephone No. \_\_\_\_\_
Fed. Tax ID # \_\_\_\_
Contractor Lic. #. \_\_\_\_

#### EXHIBIT "A"

#### **SCOPE OF SERVICES**



#### **EXHIBIT "B"**

#### **PROOF OF INSURANCE**

The Contractor shall provide proof of insurance for Commercial General Liability or Professional Liability in the amount of \$1,000,000.00 to cover Contractor's activities during the term of this Contract. Proof of insurance shall be in a form acceptable and approved by the County. Contractors insurance shall be primary.

The type of insurance required by this Agreement is marked below.

X 1) Commercial General Liability Insurance

Certificate Holder - Skagit County

The Certificate must name the County as additional insured: Skagit County, its elected officials, officers and employees are named as additional insured.

Thirty (30) days written notice to the County of cancellation of the insurance policy.

□ 2) <u>Professional Liability</u>

Certificate Holder – Skagit County

Thirty (30) days written notice to the County of cancellation of the insurance policy

NOTE: No contract shall form until and unless a copy of the Certificate of Insurance, properly completed and in the amount required, is attached hereto.

## **CONTRACT BOND**

<b>KNOW ALL MEN BY THESE PRESENTS,</b> that Skagit County, a M of Washington, has awarded	unicipal Coı	rporation
	_ of	
		, as
Principal, and		Surety,
are jointly and severally held and bound unto the County of Skagit in		
(\$), dollars,		
which we jointly and severely bind ourselves, our heirs, executors, a	idministrato	rs, and
assigns, and successors and assigns, firmly by these presents.		
THE CONDITION of this bond is such that whereas, on the	<b>;</b>	day
of A.D., 2025, the said Principal, herein,		
contract with the County of Skagit by the items, conditions and	provisions	of which
	pal, herein	agree to
furnish all material and do certain work, to wit: That		
will undertake and complete the construction of		
2025 Landscaping Maintenance		
2025 Landscaping Maintenance #ES50-13, #ES50-14, and #WM50-512		
according to the maps, plans and specifications made a part of contract as so executed, is hereunto attached, is now referred to incorporated herein and made a part hereof as fully for all purpose at length. The bond shall cover all approved change orders as original contract.	and by refeas as if here	erence is set forth
NOW, THEREFORE, if the Principal herein shall faithfully a comply with the terms, conditions and provisions of said contract shall well and truly and fully do and perform all matter (principal) undertaken to	t in all resp ers and th	ects and nings by
said contract, upon the terms proposed therein, and within the time and until the same is accepted, and shall pay all laborers, mecha and material men, and all persons who shall supply such contract with provisions and supplies for the carrying on of such work, and faithfully perform said contract according to law, then this objective to remain in full force and effect.	e prescribed anics, subco ctor or subc I shall in all	d therein, ontractors contractor respects

WITNESS our hands this	day of	, 2025.
		(D : : 1)
		(Principal)
Attorney-in-Fact, Surety		O
•		
Name and Address	+	
Local Office of Agent		
APPROVED AS TO FORM		APPROVED AS TO FORM
RICH WEYRICH		MARY HOUBEN
Skagit County Prosecuting Attorney		Skagit County Risk Manager
BY:		
Appro	ving Authority	<i>!</i>
DATE:		2025
5/112:		_,
CLIDETY POND ALLIANCE		CONTRACT AU IMPER
SURETY BOND NUMBER		CONTRACT NUMBER



**Print Name** 

## SKAGIT COUNTY PUBLIC WORKS DEPARTMENT

1800 Continental Place, Mount Vernon, WA 98273-5625 (360) 416-1400

## DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY RETAINED PERCENTAGE

Note: This form must be submitted at the time the Contractor executes the contract. Contractor shall designate the option desired by checking the appropriate space.

Monies reserved under provisions of Chapter 60.28 RCW, at the option of the Contractor, shall be: 1. I hereby elect to have the retained percentage of this contract held in a fund by Skagit County in a non-interest bearing account. 2. I hereby elect to have Skagit County deposit the retained percentage of this contract in an interest bearing account, not subject to withdrawal until after final acceptance of the work. I hereby further agree to open the interest-bearing account in a qualified financial institution. I further agree to provide instructions to the bank to provide Skagit County Public Works with a monthly account statement to the attention of the Project Manager. Prior to Skagit County depositing any funds into the account, the CONTRACTOR shall obtain a letter from the financial institution on their letterhead stating the account number and bank address and confirming they will not release any funds until authorized in writing by Skagit County. 3. I hereby elect to have Skagit County invest the retained percentage of this contract from time to time as such retained percentage accrues. as the repository for the escrow of I hereby designate said funds. I hereby further agree to be fully responsible for payment of all costs or fees incurred as a result of placing said retained percentage in escrow and investing it as authorized by statute. Skagit County shall not be liable in any way for any costs or fees in connection therewith. Prior to Skagit County investing any funds in an escrow account, the CONTRACTOR shall obtain an escrow agreement from the repository stating their acceptance of the account, the account number and a statement that they will not release any funds until authorized in writing by Skagit County. Additionally, Skagit County Public Works will require a monthly statement from the bank for the escrow account. 4. I hereby elect to obtain a Retainage Bond acceptable to Skagit County, and agree to provide the original bond to the County. I acknowledge that no retainage will be held by Skagit County from the CONTRACTOR when Skagit County has received an acceptable bond. The Contractor in choosing option (2) or (3) agrees to assume full responsibility to pay all costs which may accrue from escrow services, brokerage charges or both, and further agrees to assume all risks in connection with the investment of the retained percentages in securities. Company Name Date Authorized Signature Title

Phone Number