

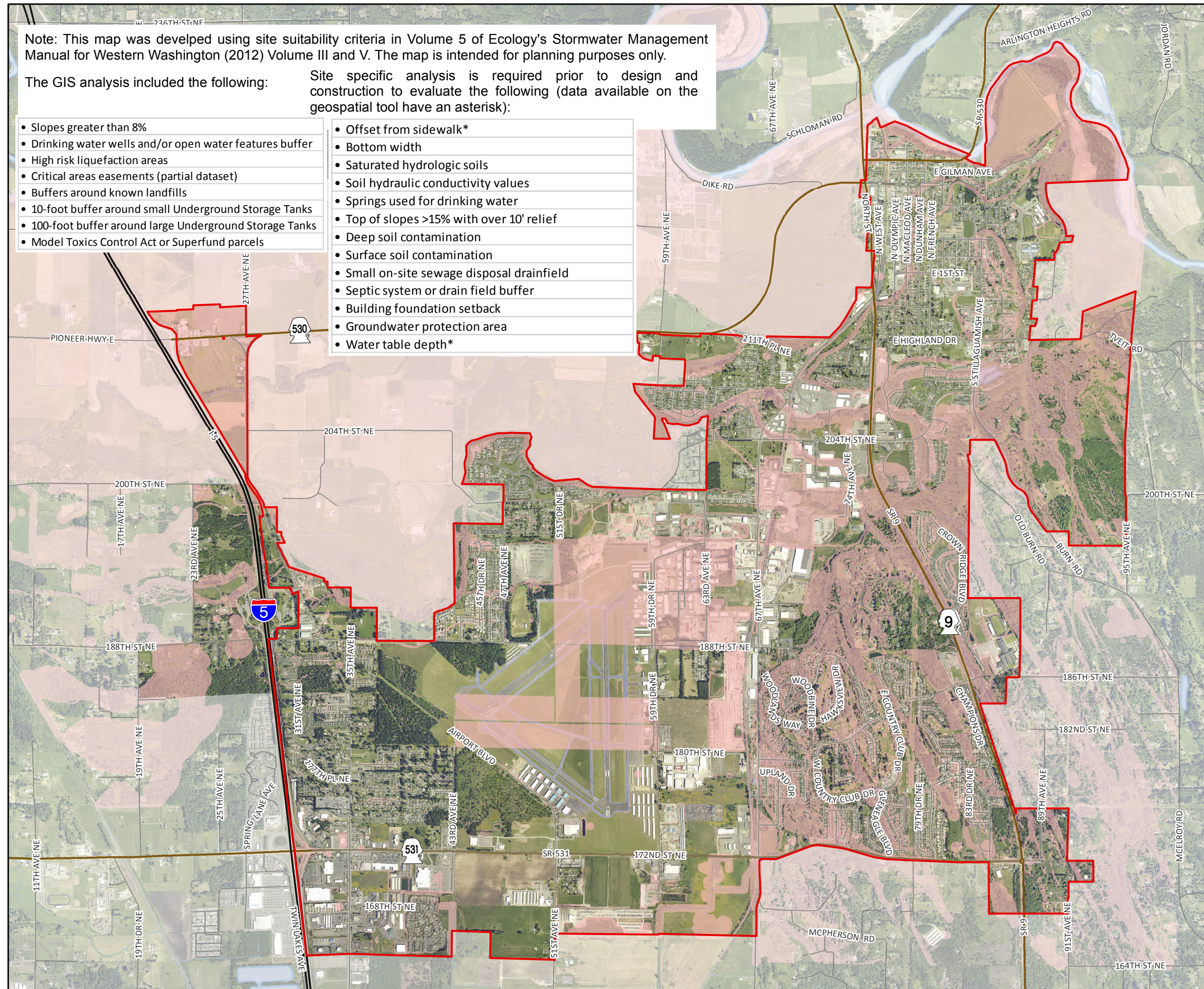
Note: This map was developed using site suitability criteria in Volume 5 of Ecology's Stormwater Management Manual for Western Washington (2012) Volume III and V. The map is intended for planning purposes only.

The GIS analysis included the following:

Site specific analysis is required prior to design and construction to evaluate the following (data available on the geospatial tool have an asterisk):

- Slopes greater than 8%
- Drinking water wells and/or open water features buffer
- High risk liquefaction areas
- Critical areas easements (partial dataset)
- Buffers around known landfills
- 10-foot buffer around small Underground Storage Tanks
- 100-foot buffer around large Underground Storage Tanks
- Model Toxics Control Act or Superfund parcels

- Offset from sidewalk\*
- Bottom width
- Saturated hydrologic soils
- Soil hydraulic conductivity values
- Springs used for drinking water
- Top of slopes >15% with over 10' relief
- Deep soil contamination
- Surface soil contamination
- Small on-site sewage disposal drainfield
- Septic system or drain field buffer
- Building foundation setback
- Groundwater protection area
- Water table depth\*



City of Arlington

## Storm BMP Preliminary Assessment Table 1 - Infiltrating Bioretention Cells and Swales (criteria table on back)

### Legend

- Preliminary assessment suggests site not feasible for bioretention cells & swales
- State Highway
- State Route
- Streets
- Rivers; Ponds
- Streams
- Arlington City Limits



Streams and waterbodies courtesy of Snohomish County Dept of Information Systems, December 2009.

Aerial flown in summer 2012.

Scale:

1 in = 2,500 feet

Date:

9/29/2015

File:

Table1\_11x17\_15

Drawn by:

kdh

Maps and GIS data are distributed "AS-IS" without warranties of any kind, either express or implied, including but not limited to warranties of suitability for a particular purpose or use. Map data are compiled from a variety of sources which may contain errors and users who rely upon the information do so at their own risk. Users agree to indemnify, defend, and hold harmless the City of Arlington for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the data, or the use of the data presented in the maps.

Table 11. Site Suitability Criteria for Dispersion BMPs (Downspout Dispersion Systems, Perforated Stub-out Connections, Concentrated Flow Dispersion, Sheet Flow Dispersion, and Full Dispersion).

Site Suitability Criteria <sup>1,2</sup>			Stormwater Management Manual for Western Washington Reference	Notes	GIS Notes
Category	Value	Units			
General Criteria for All Dispersion BMPs (except for Sheet Flow Dispersion and Full Dispersion)					
Flowpath Start Setback from Property Line	50	ft	Volume III, Section 3.1.2 and Volume V, BMP T5.10B (Downspout Dispersion Systems - Dispersion Trenches and Splashblocks ); Volume III, Section 3.1.3 and Volume V, BMP T5.10C (Perforated Stub-Out Connections ); and Volume V, BMP T5.11 (Concentrated Flow Dispersion )		Not part of analysis
Flowpath Start Setback from Stream or Wetland	50	ft			Not part of analysis
Flowpath Start Setback from Structures	50	ft			Not part of analysis
Flowpath Start Setback from Steep Slopes (> 15%)	50	ft			Not part of analysis
Above Erosion Hazard Areas	Not Allowed	NA		Must be evaluated by a professional engineer with geotechnical expertise or a licensed geologist, hydrogeologist, or engineering geologist.	Not part of analysis
Splashblocks and Dispersion Trenches					
On or Above Steep Slopes (> 15%)	Not Allowed	NA	Volume III, Section 3.1.2 and Volume V, T5.10B (Downspout Dispersion Systems - Splashblocks )	Must be evaluated by a professional engineer with geotechnical expertise or a licensed geologist, hydrogeologist, or engineering geologist.	Not part of analysis, but slope data is available for review in ArcReader
Discharge Point in Relation to Septic Systems or Drain Fields	Downgradient	NA			Not part of analysis
Dispersion Trench					
Facility Setback from Property Line	≥ 5	ft	Volume III, Section 3.1.2 and Volume V, T5.10B (Downspout Dispersion Systems - Dispersion Trenches )		Not part of analysis
Setback from Structures	≥ 5	ft			Not part of analysis
Perforated Stub-Out Connections					
Distance Between Bottom Elevation of Trench and Water Table	≥ 1	ft	Volume III, Section 3.1.3 and Volume V, BMP T5.10C (Perforated Stub-Out Connections )		Not part of analysis
On or Above Steep Slopes (> 20%)	Not Allowed	NA		Must be evaluated by a professional engineer with geotechnical expertise or a licensed geologist, hydrogeologist, or engineering geologist.	Not part of analysis, but slope data is available for review in ArcReader
Discharge Point in Relation to Septic Systems or Drain Fields	Downgradient	NA			Not part of analysis
Concentrated Flow Dispersion					
On or Above Steep Slopes (> 20%)	Not Allowed	NA	Volume V, BMP T5.11 (Concentrated Flow Dispersion )	Must be evaluated by a professional engineer with geotechnical expertise or a licensed geologist, hydrogeologist, or engineering geologist.	Not part of analysis, but slope data is available for review in ArcReader
Discharge Point in Relation to Septic Systems or Drain Fields	≥ 10	ft		Discharge point must be ≥ 10 ft downgradient of the drainfield primary and reserve areas.	Not part of analysis
Sheet Flow Dispersion					
Facility Slope	< 15	%	Volume V, BMP T5.12 (Sheet Flow Dispersion )		Not part of analysis
On or Above Steep Slopes (> 20%)	Not Allowed	NA		Must be evaluated by a professional engineer with geotechnical expertise or a licensed geologist, hydrogeologist, or engineering geologist.	Not part of analysis, but slope data is available for review in ArcReader
Above Erosion Hazard Areas	Not Allowed	NA			Not part of analysis
Discharge Point in Relation to Septic Systems or Drain Fields	≥ 10	ft		Discharge point must be ≥ 10 ft downgradient of the drainfield primary and reserve areas.	Not part of analysis
Full Dispersion					
Effective Impervious Area	< 10	% site	Volume V, BMP T5.30 (Full Dispersion )	Difficult to evaluate as part of the tool - will need to be evaluated on a site-by-site basis.	Not part of analysis
Preserved Forested/Native Condition	≥ 65	% site			Not part of analysis
Septic System or Drain Field	Not Allowed	NA			Not part of analysis
Slope of Flowpath	≤ 33	%		Level spreader required between 15 and 33% slope	Not part of analysis
Critical Area Buffers	Not Allowed	NA			Included in analysis
Steep Slopes (> 20%)	Not Allowed	NA		Dispersion devices proposed on slopes steeper than 15% or within 50 feet of a geologically hazardous area must be approved by a geotechnical engineer or engineering geologist.	Included in analysis
Roadway Dispersion					
Slope of Flowpath	≤ 15	%	Volume V, BMP T5.30 (Full Dispersion - Roadway Dispersion )		Not part of analysis
Flowpath Start Setback from Stream or Wetland	≥ 100	ft			Not part of analysis
Flowpath Start Setback from Steep Slopes (> 40%)	≥ 100	ft			Not part of analysis

ft = feet

NA = not applicable

1. Based on the Stormwater Management Manual for Western Washington (Ecology 2012, amended in 2014).

2. Dispersion BMPs are not considered to be infiltration facilities.