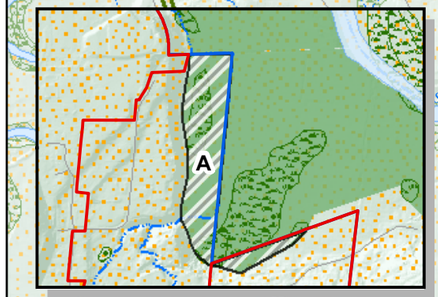
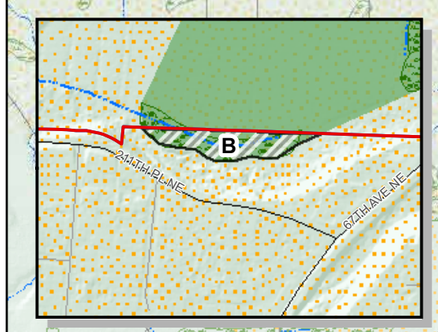
City of Arlington
Shoreline Master Plan

Figure 8
Aquifer Recharge and Wetlands

Inset Maps:
Shoreline Jurisdiction Areas





Detailed Island Crossing and Old Town maps are shown in figures labeled 'Figure [figure #]a'.

Legend

Wetlands

- NWI Wetlands*
- Arlington Mapped Wetlands

Aquifer Recharge Areas

- Floodplain and outwash deposits**
- Proposed Jurisdiction
- South Slough
  Area of additional analysis

*NWI Wetlands downloaded from USFW Wetlands Mapper 2010.
**100,000k geology downloaded from WaDNR 2010.

- City Limits
- City UGA
- Local roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

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

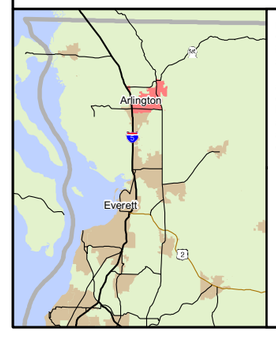
Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

DRAFT

Date:
04/29/2010

File:
Figure8_11x17_10.mxd

Cartographer:
kdk



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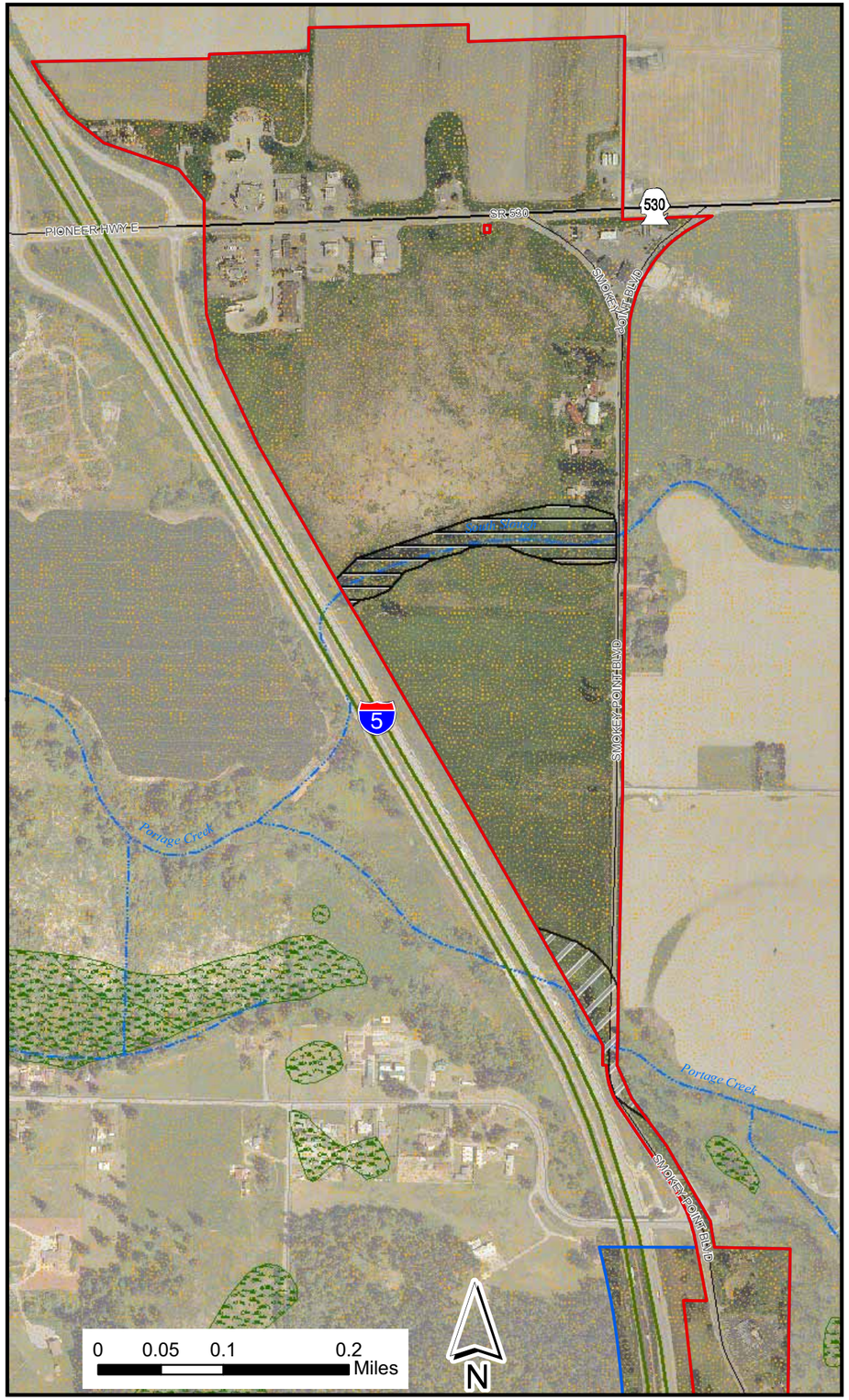
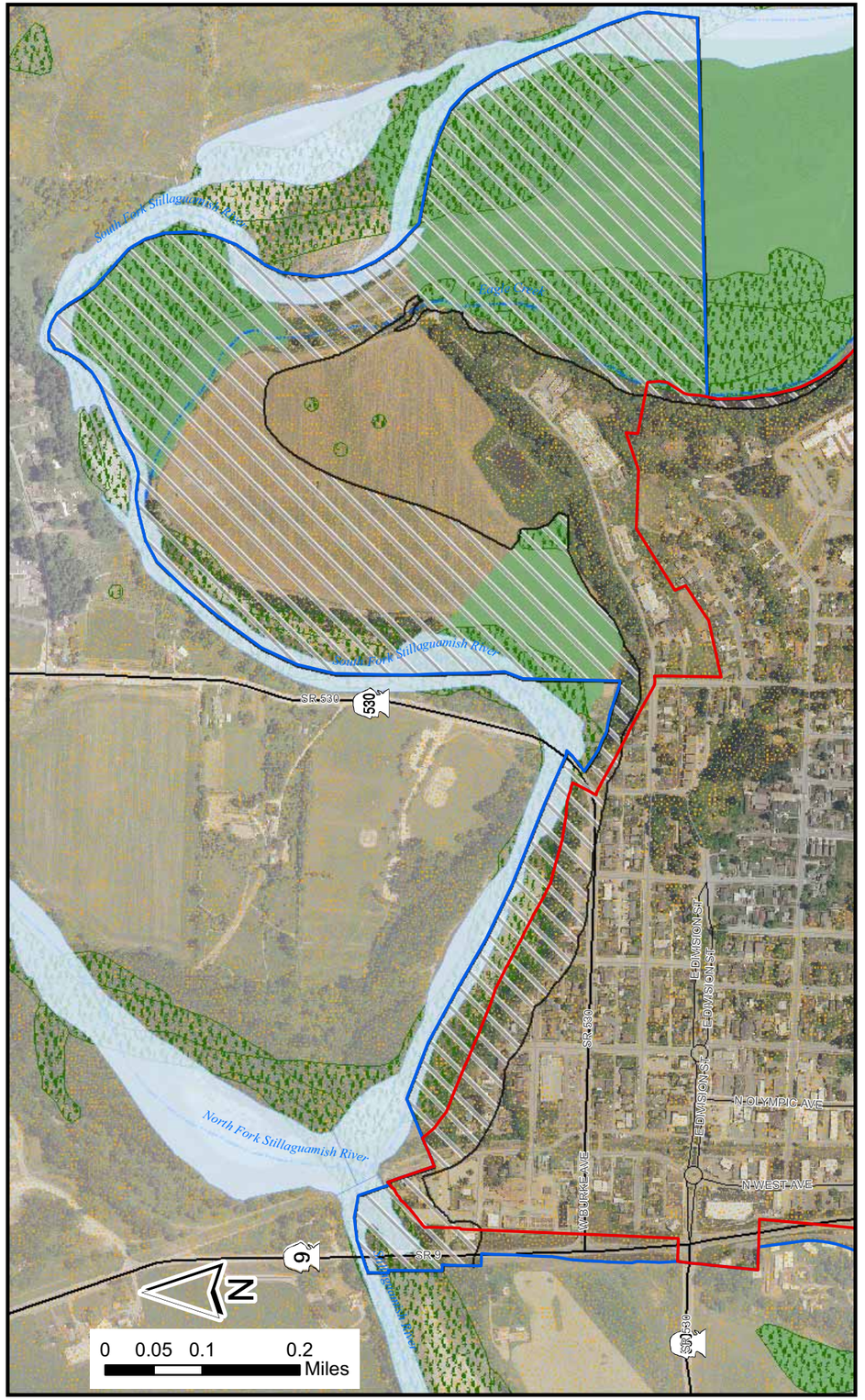




City of Arlington
Shoreline Master Plan

Figure 8a
Aquifer Recharge and Wetlands: Old Town and Island Crossing

Legend

Wetlands

NWI Wetlands*

Arlington Mapped Wetlands

Aquifer Recharge Areas

Floodplain and outwash deposits**

Proposed Jurisdiction

South Slough
Area of additional analysis

DRAFT

*NWI Wetlands downloaded from USFW Wetlands Mapper 2010.
**100,000k geology (non-glacial till deposits) downloaded from WaDNR 2010.

City Limits

City UGA

Local roads

Streams

Rivers

Ponds

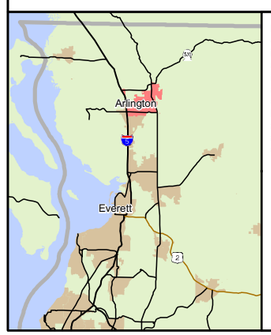
Streams and waterbodies courtesy of Snohomish County Dept of Information Systems, June 2009.

Aerials taken in June 2009.

Date:
04/29/2010

File:
Figure8a_11x17_10.mxd

Cartographer:
kdk



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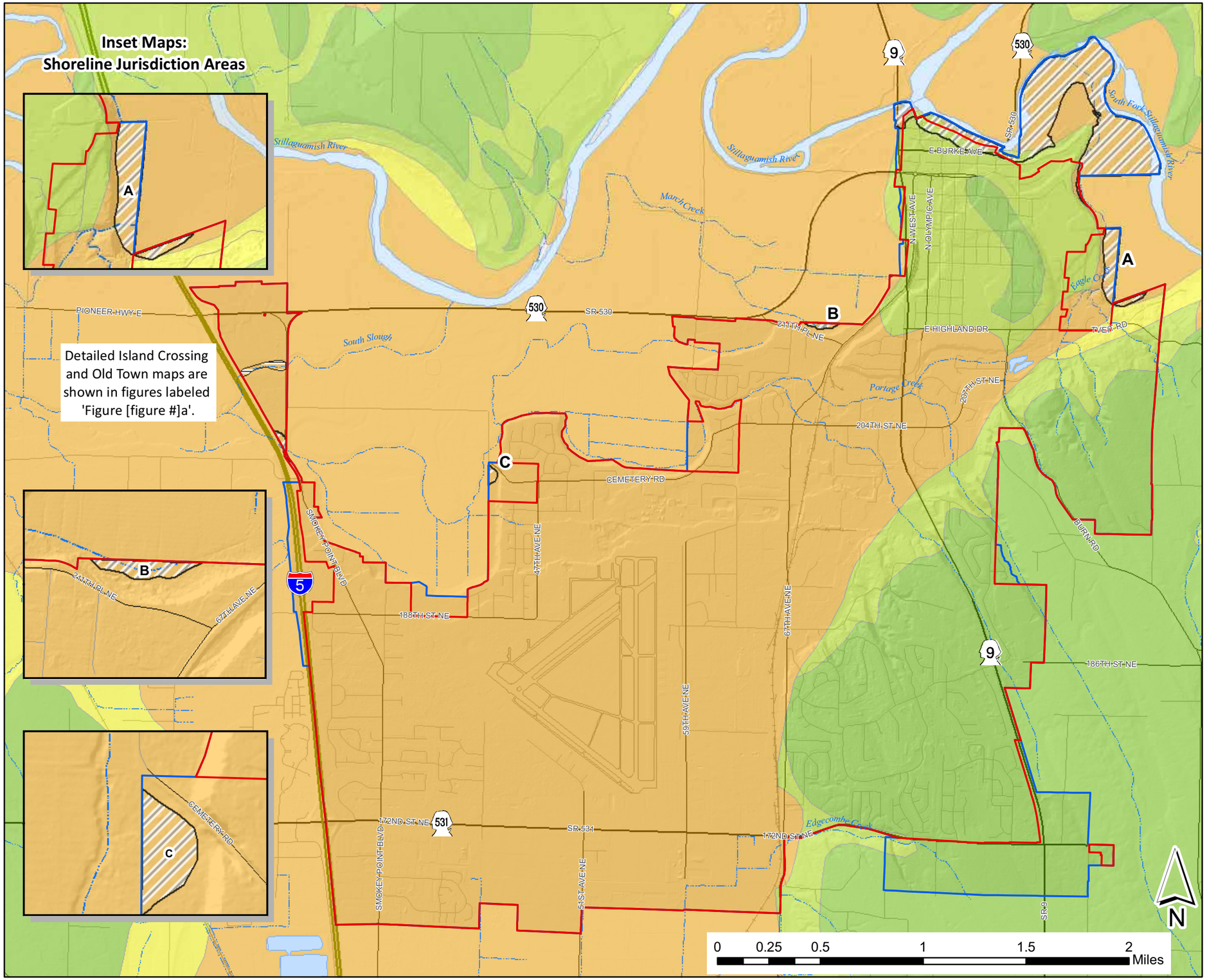


City of Arlington
Shoreline Master Plan

Figure 9
Geologic Hazards - Ground Shake During an Earthquake

Legend

Site Class

- F - Requires site specific investigation
- E - Soft soil
- D-E
- D - Stiff soil
- C-D
- C - Very dense soil & rock
- B-C
- B - Rock
- Proposed Jurisdiction
- South Slough

Area of additional analysis

Increasing amplification of ground shaking

DRAFT

In 1997, a method for soil column amplification efforts was adopted to determine the potential for strong shaking in a particular area during an earthquake.

Designation of site classes was based on shear wave velocity data obtained in many of the geology units shown in the 1:100,000-scale geologic mapping.

Site Class B represents a soft rock condition, where shaking is neither reduced nor amplified in an earthquake. Site classes S through E represent increasingly softer soil conditions and increasing amplification of shaking in an earthquake. Site class F is unusual soil conditions where site-specific investigation will indicate the amplification of shaking.

From WA DNR, Site Class Map of Snohomish County, Washington (2004).

- City Limits
- City UGA
- Local roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

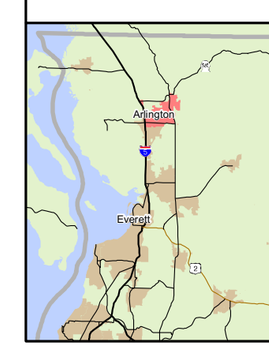
Streams and waterbodies courtesy of Snohomish County Dept of Information Systems, June 2009.

Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

Date: 04/29/2010

File: Figure9_11x17_10.mxd

Cartographer: kdk



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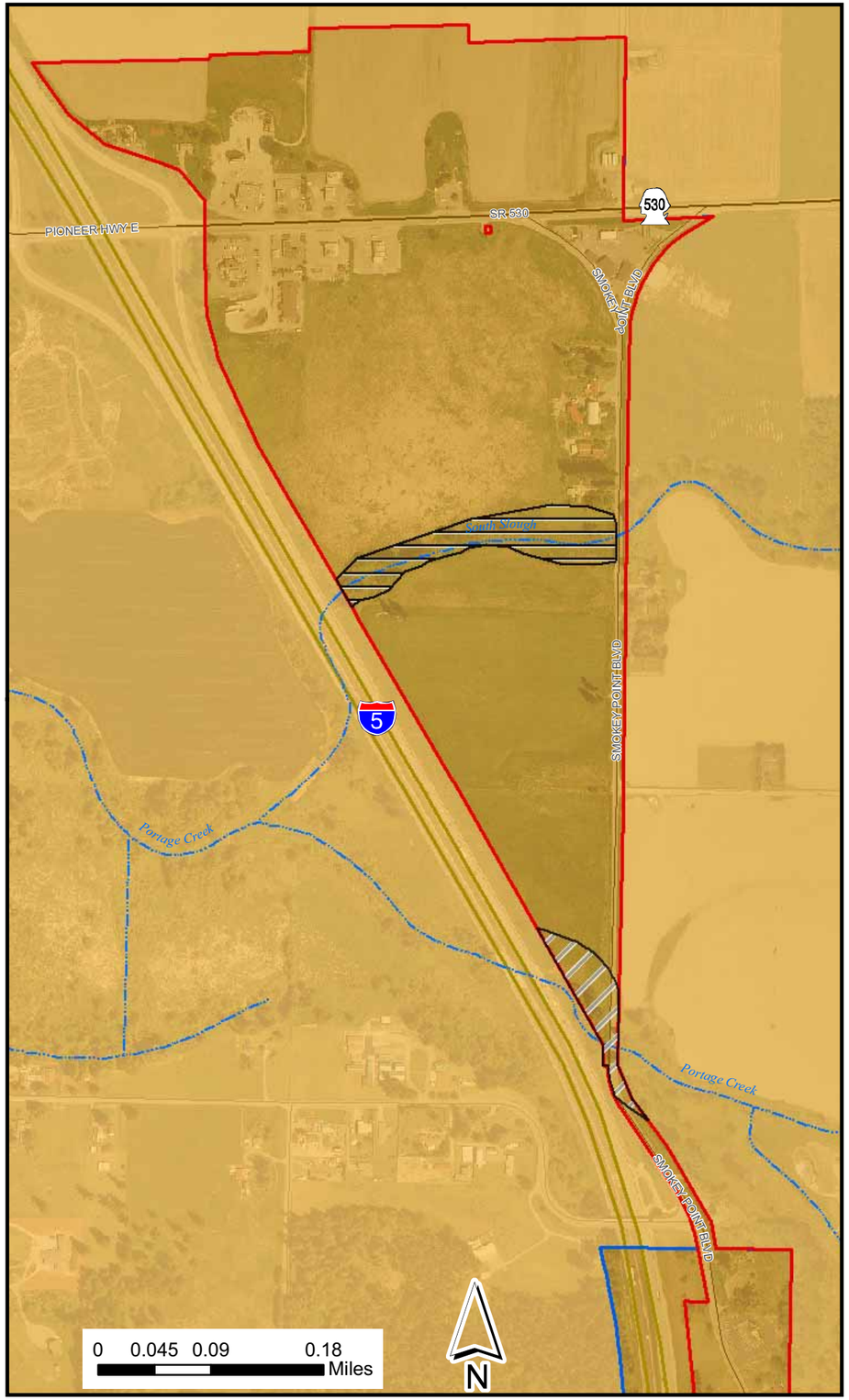
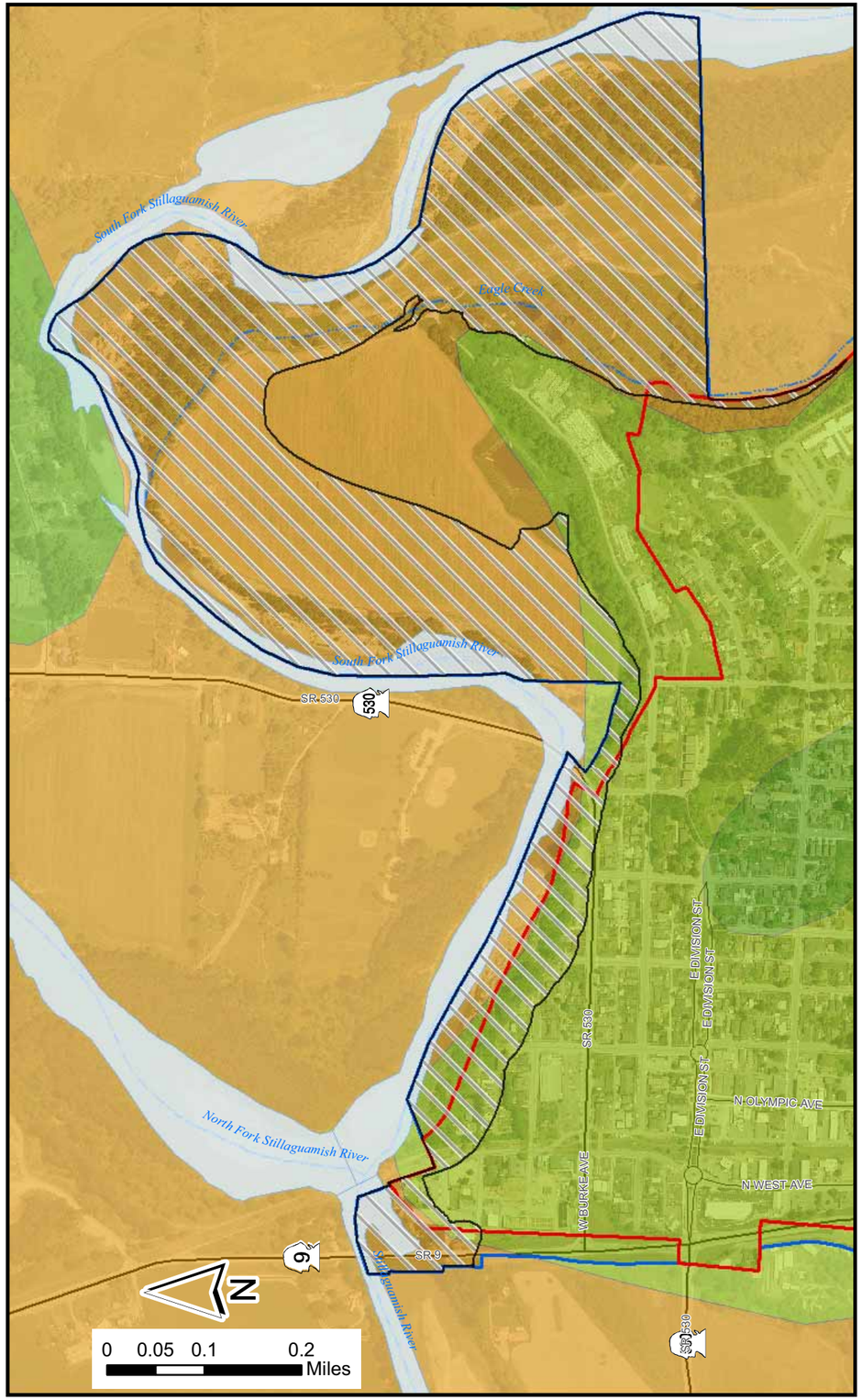
CITY OF ARLINGTON





City of Arlington
Shoreline Master Plan

Figure 9a
Ground Shake During an Earthquake: Old Town and Island Crossing

Legend

Site Class

- F - Requires site specific investigation
- E - Soft soil
- D-E
- D - Stiff soil
- C-D
- C - Very dense soil & rock
- B-C
- B - Rock

Increasing amplification of ground shaking

- Proposed Jurisdiction
- South Slough
  Area of additional analysis
- City Limits
- City UGA
- Local roads
- Streams
- Rivers
- Ponds

DRAFT

In 1997, a method for soil column amplification efforts was adopted to determine the potential for strong shaking in a particular area during an earthquake.

Designation of site classes was based on shear wave velocity data obtained in many of the geology units shown in the 1:100,000-scale geologic mapping.

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From WA DNR, Site Class Map of Snohomish County, Washington (2004).

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

Aerials taken in June 2009.

Date:

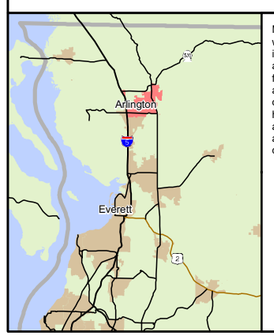
04/29/2010

File:

Figure9a_11x17_10.mxd

Cartographer:

kdk



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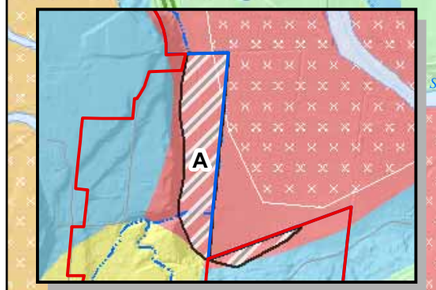
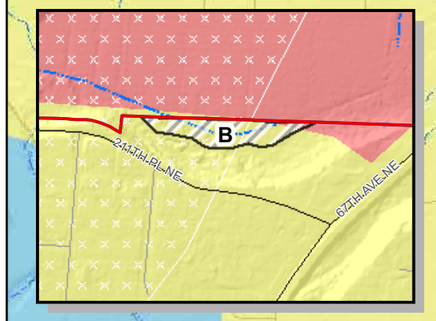
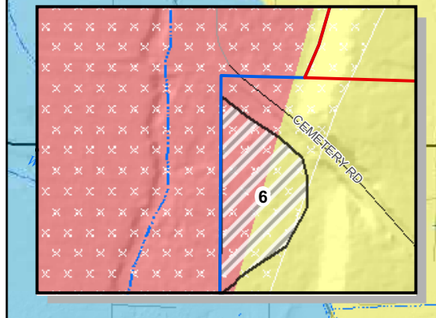
City of Arlington
Shoreline Master Plan

Figure 10
Geologic Hazards - Lahars, Liquefaction & Landslides

Inset Maps:
Shoreline Jurisdiction Areas







Detailed Island Crossing and Old Town maps are shown in figures labeled 'Figure [figure #]a'.

Legend

- USGS Lahar Hazard
- Landslide Area (Wa DNR)

Liquefaction Susceptibility

- high
- moderate to high
- low to moderate
- low
- very low to low
- very low

Increasing likehood of liquefaction

- Proposed Jurisdiction
- South Slough
  Area of additional analysis
- City Limits
- City UGA
- Local roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

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

Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

Liquefaction occurs when strong earthquake shaking causes soils to rapidly lose strength and behave like quicksand. Liquefaction susceptibility provides an estimate of the probability that soil will liquefy from the shaking during an earthquake. The susceptibility probability ranges from very low (minimal chance of liquefaction) to high (liquefaction is likely to occur).

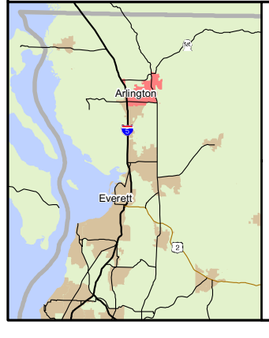
WA DNR, Liquefaction Susceptibility Map of Snohomish County, Washington (2004).

DRAFT

Date:
04/29/2010

File:
Figure10_11x17_10.mxd

Cartographer:
kdk



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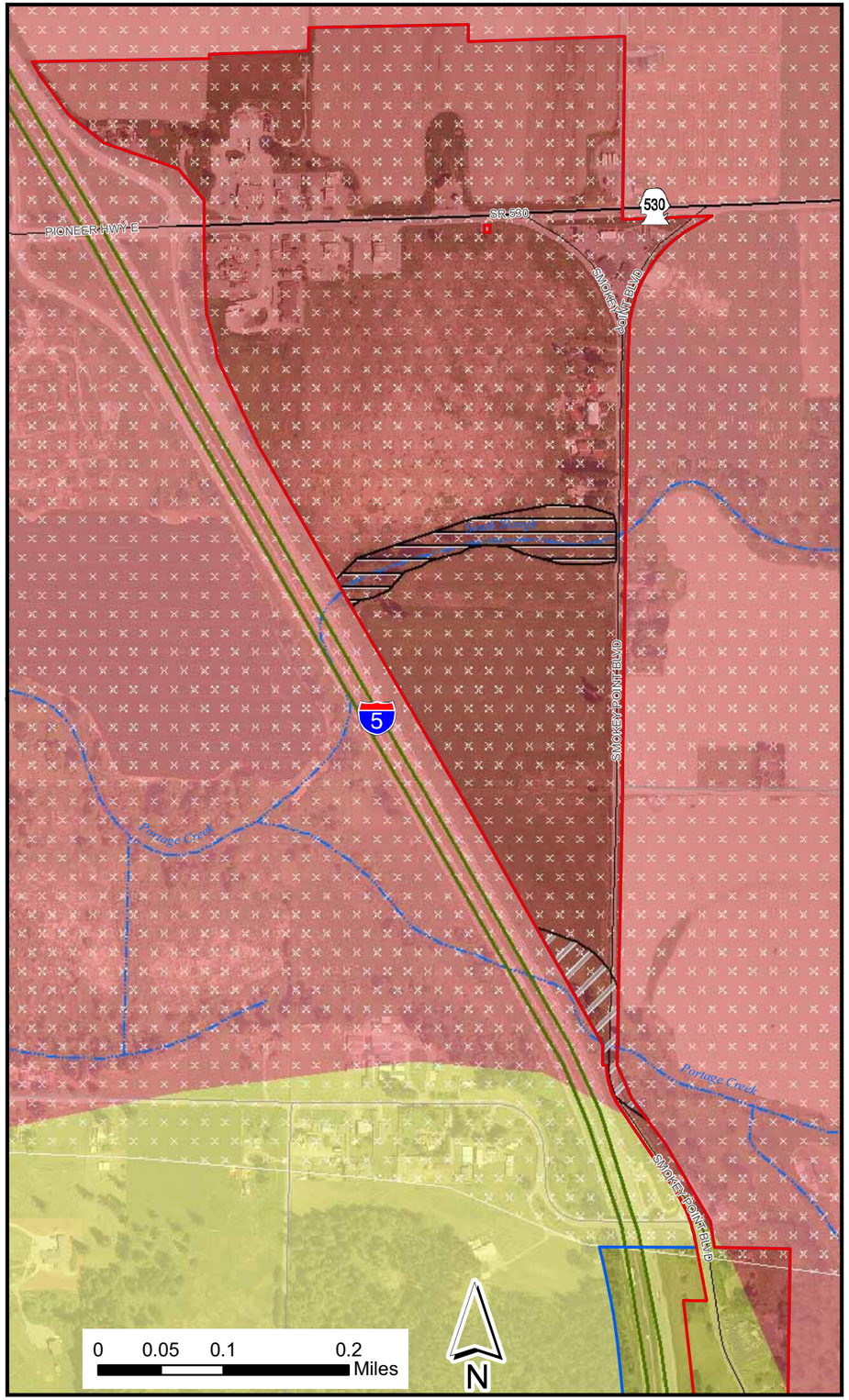
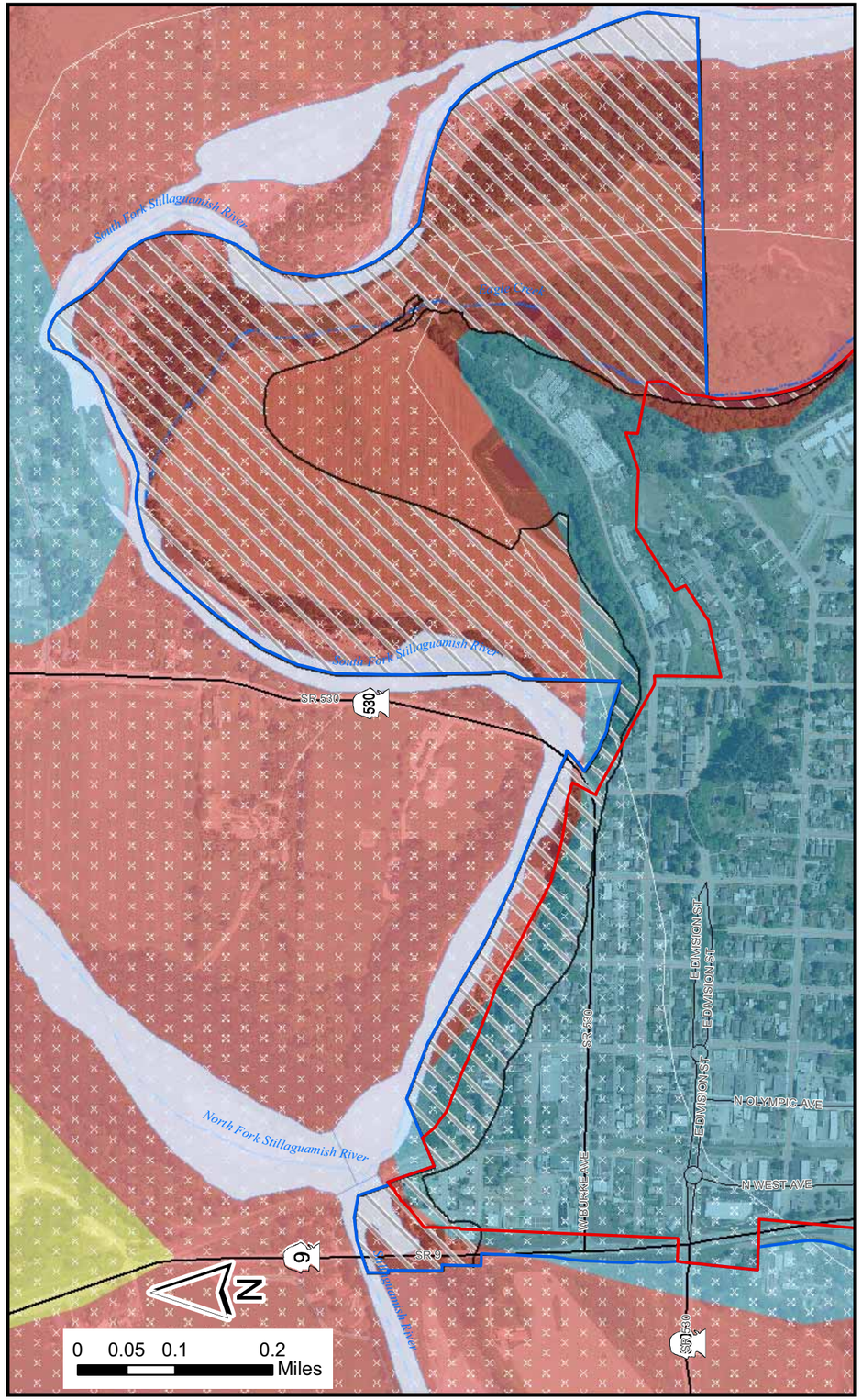




City of Arlington
Shoreline Master Plan

Figure 10a - Lahars, Liquefaction & Landslides: Old Town and Island Crossing

Legend

- USGS Lahar Hazard
- Landslide Area (Wa DNR)

Liquefaction Susceptibility

- high
- moderate to high
- low to moderate
- low
- very low to low
- very low

Increasing likehood of liquefaction

- South Slough
- *Area of additional analysis*
- Proposed Jurisdiction
- City Limits
- City UGA
- Local roads
- Streams
- Rivers
- Ponds

DRAFT

Liquefaction occurs when strong earthquake shaking causes soils to rapidly lose strength and behave like quicksand. Liquefaction susceptibility provides an estimate of the probability that soil will liquefy from the shaking during an earthquake. The susceptibility probability ranges from very low (minimal chance of liquefaction) to high (liquefaction is likely to occur).

WA DNR, Liquefaction Susceptibility Map of Snohomish County, Washington (2004).

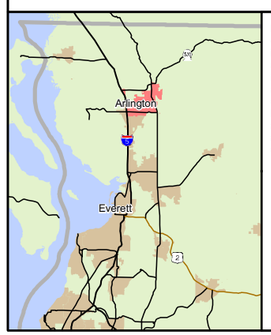
Streams and waterbodies courtesy of Snohomish County Dept of Information Systems, June 2009.

Aerials taken in June 2009.

Date:
04/29/2010

File:
Figure10a_11x17_10.mxd

Cartographer:
kdk



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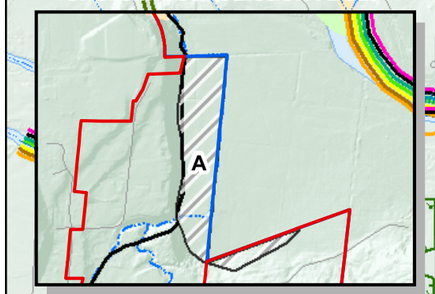
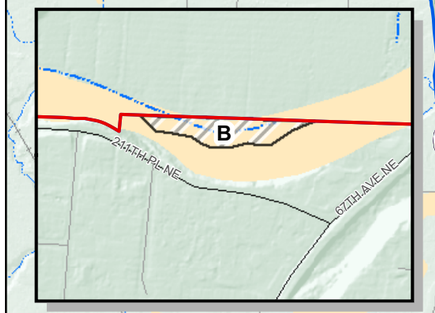
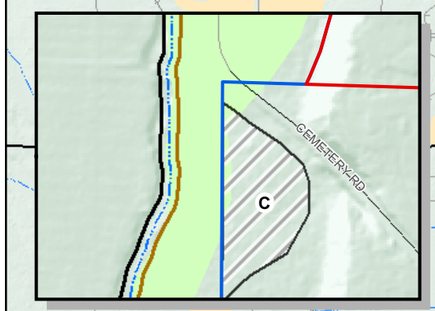
City of Arlington
Shoreline Master Plan

Figure 11
WDFW Priority Habitats & Species

Inset Maps:
Shoreline Jurisdiction Areas







Detailed Island Crossing and Old Town maps are shown in figures labeled 'Figure [figure #]a'.

Legend

Species
- Bull Trout
- Chinook
- Chum
- Coho
- Cutthroat
- Pink
- Steelhead

Site Type
- Winter Eagle Concentration Site
- Swan Winter Feeding Site
- Riparian Areas
- Wetland Areas
- Proposed Jurisdiction
- South Slough
  Area of additional analysis

Species and Site Type information provided by Washington Dept of Fish and Wildlife WDFW.

- City Limits
- City UGA
- Local Roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

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

Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

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Date:
04/29/2010

File:
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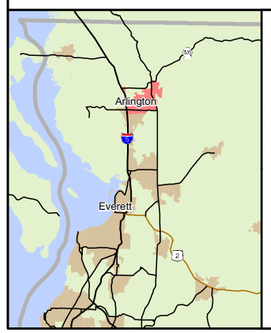
Cartographer:
kdk



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0 0.25 0.5 1 1.5 2 Miles

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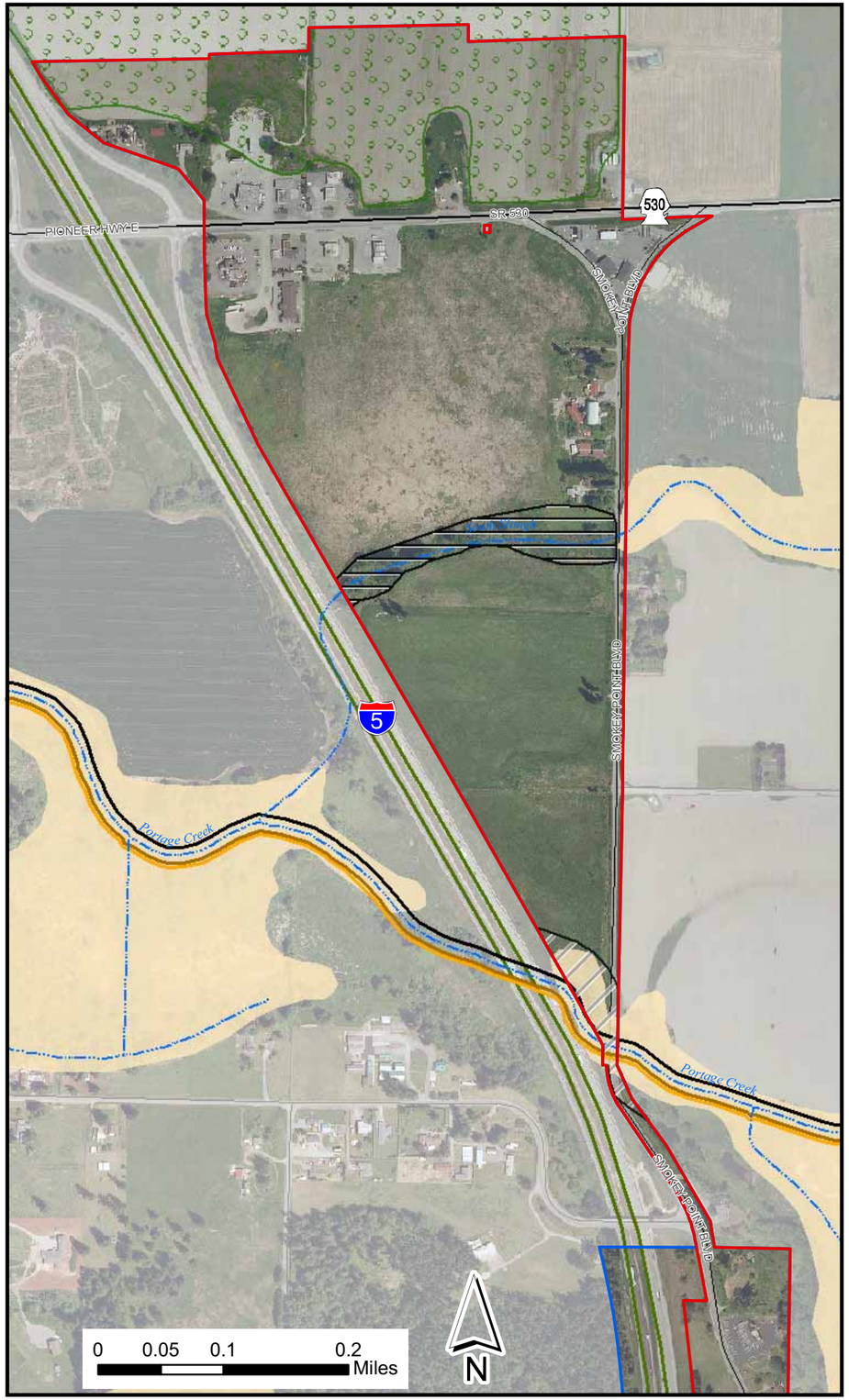

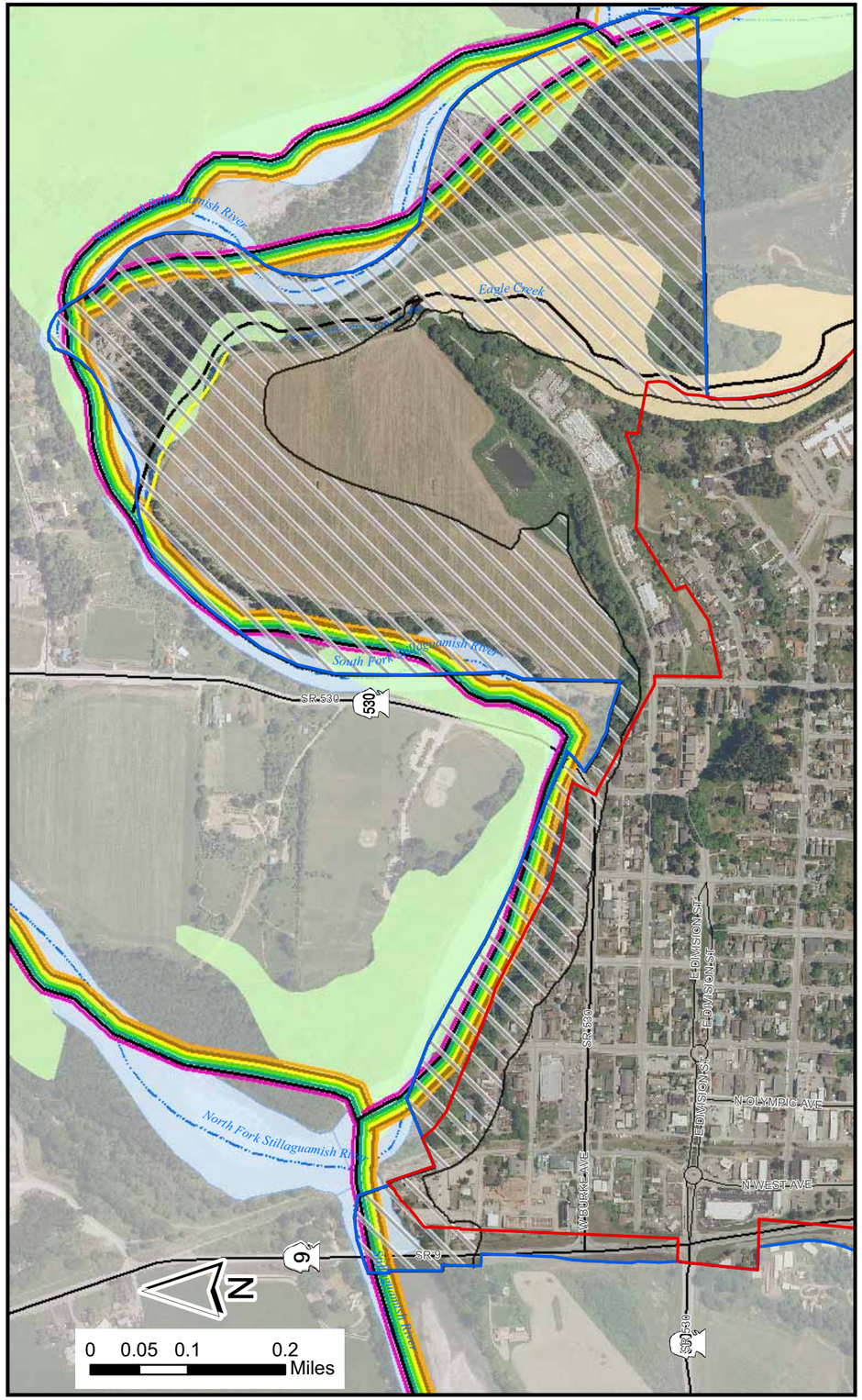

City of Arlington
Shoreline Master Plan

Figure 11a
WDFW Priority Habitats & Species: Old Town and Island Crossing

Legend

Species

- Bull Trout
- Chinook
- Chum
- Coho
- Cutthroat
- Pink
- Steelhead

Site Type

- Winter Eagle Concentration Site
- Swan Winter Feeding Site
- Riparian Areas
- Wetland Areas
- Proposed Jurisdiction
- South Slough
- *Area of additional analysis*

Species and Site Type information provided by Washington Dept of Fish and Wildlife WDFW.

- City Limits
- City UGA
- Local Roads
- Streams
- Rivers
- Ponds

DRAFT

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

Aerials taken in June 2009.

Date:
04/29/2010

File:
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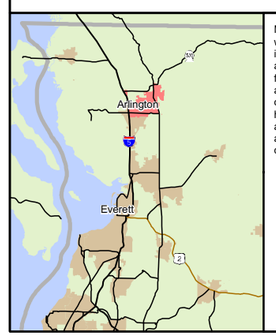

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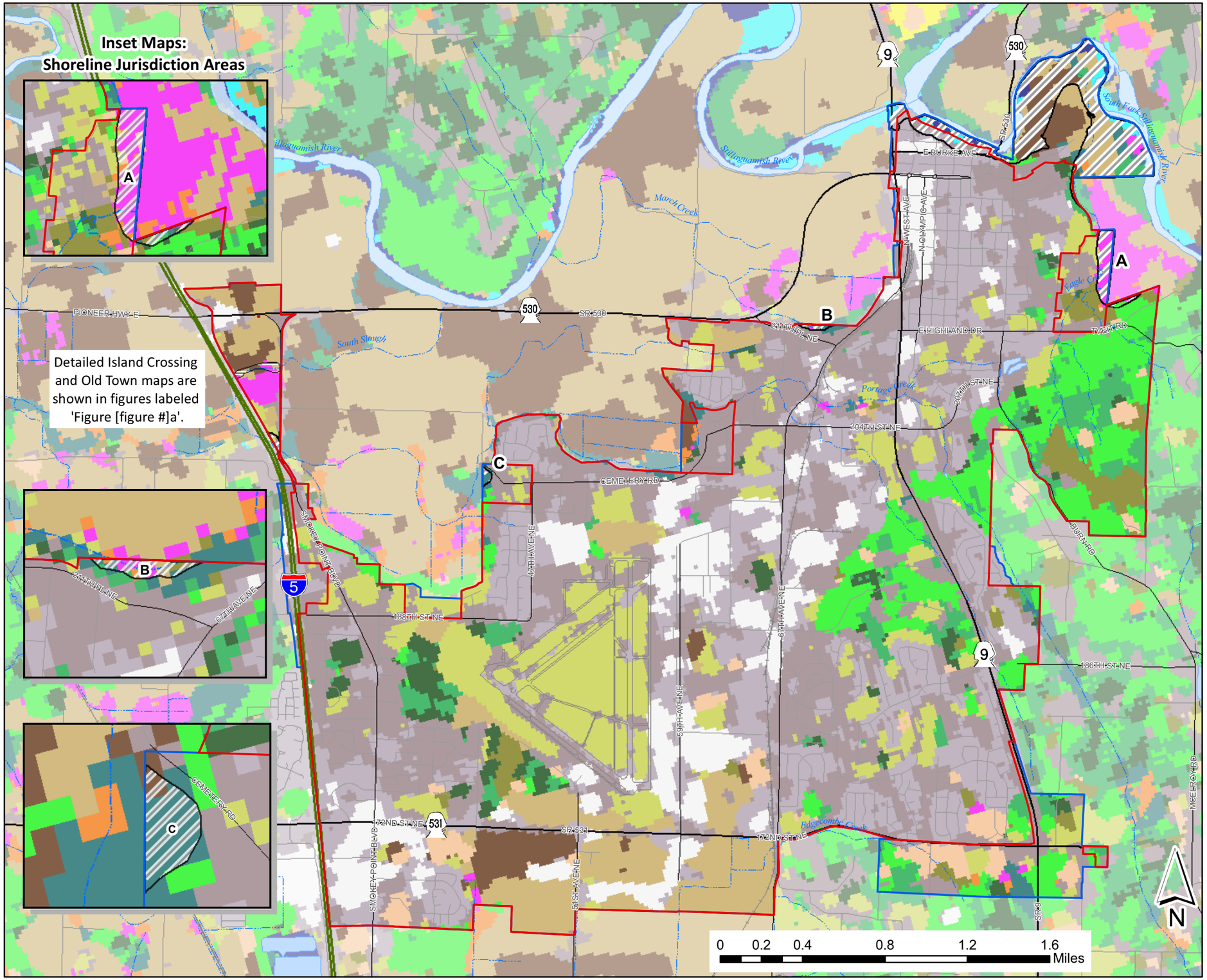
City of Arlington
Shoreline Master Plan

Figure 12
2006 NOAA's C-CAP Landcover



Legend

2006 CCAP Landcover

- Unclassified
- High Intensity Developed
- Medium Intensity Developed
- Low Intensity Developed
- Developed Open Space
- Cultivated
- Pasture/Hay
- Grassland
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Scrub/Shrub
- Palustrine Forested Wetland
- Palustrine Scrub/Shrub Wetland
- Palustrine Emergent Wetland
- Estuarine Forested Wetland
- Estuarine Scrub/Shrub Wetland
- Estuarine Emergent Wetland
- Unconsolidated Shore
- Bare Land

- Proposed Jurisdiction
- South Slough

Area of additional analysis

- City Limits
- City UGA
- Local roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

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

Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

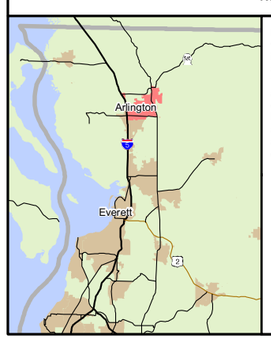
Landcover provided by the NOAA's Coastal Change Analysis Program (C-CAP), 2006 classification of Landsat scenes.

DRAFT

Date:
04/29/2010

File:
Figure12_11x17_10.mxd

Cartographer:
kdk



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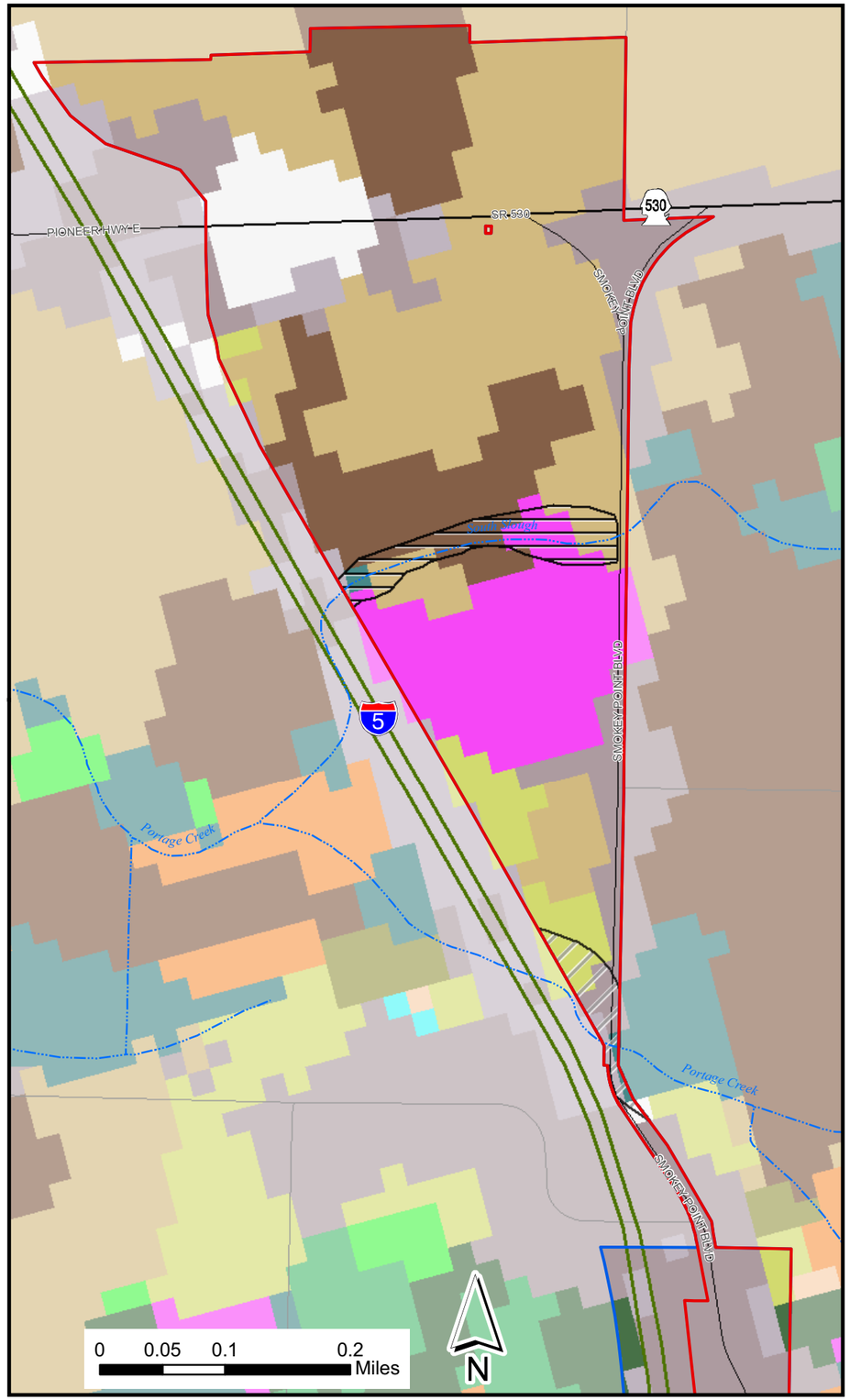
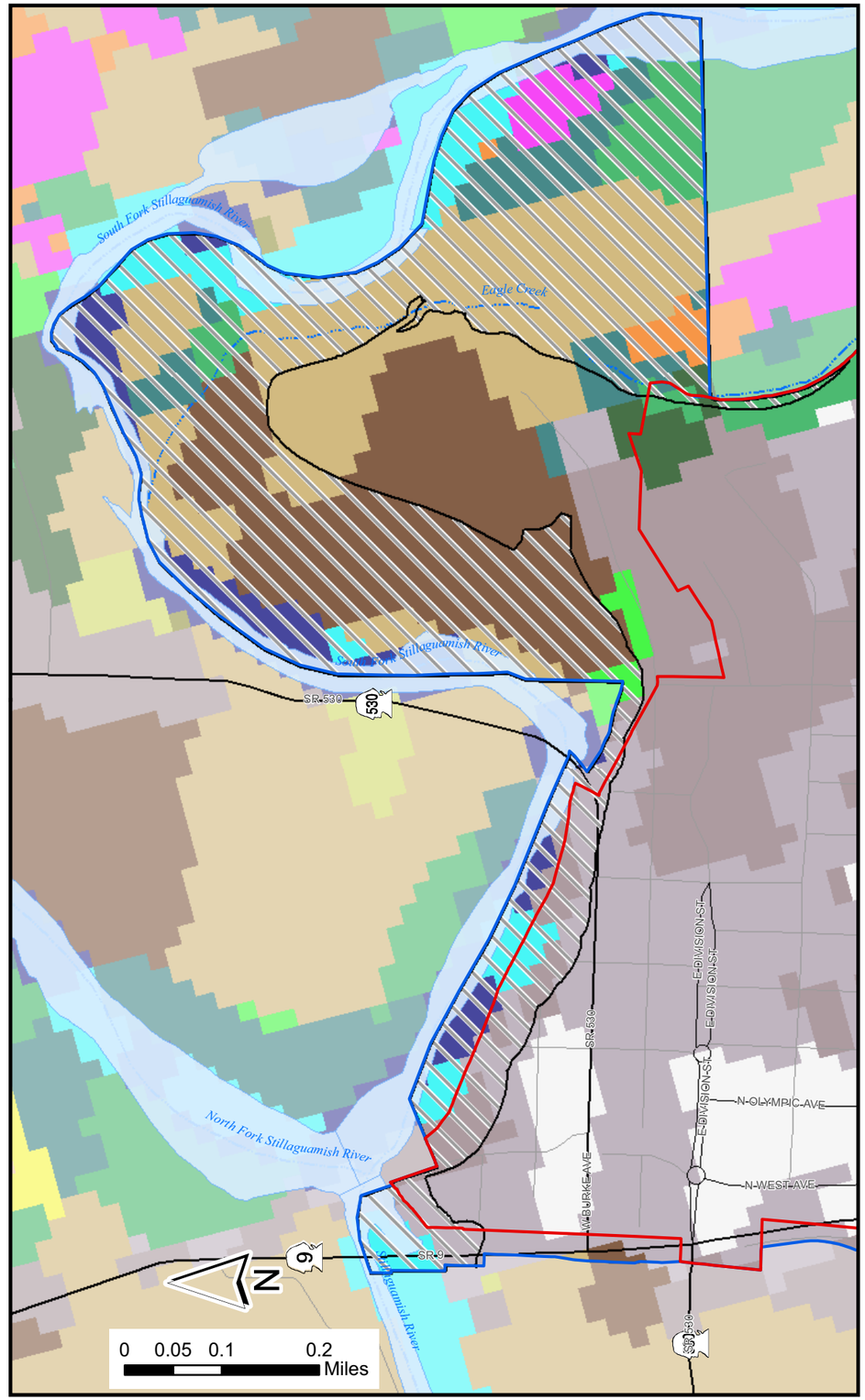
City of Arlington
Shoreline Master Plan

Figure 12a
2006 C-CAP Landcover:
Old Town and Island Crossing





Legend

2006 CCAP Landcover

- Unclassified
- High Intensity Developed
- Medium Intensity Developed
- Low Intensity Developed
- Developed Open Space
- Cultivated
- Pasture/Hay
- Grassland
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Scrub/Shrub
- Palustrine Forested Wetland
- Palustrine Scrub/Shrub Wetland
- Palustrine Emergent Wetland
- Estuarine Forested Wetland
- Estuarine Scrub/Shrub Wetland
- Estuarine Emergent Wetland
- Unconsolidated Shore
- Bare Land

- Proposed Jurisdiction
- South Slough
- *Area of additional analysis*
- City Limits
- City UGA
- Local roads
- Streams
- Rivers
- Ponds

DRAFT

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

Aerials taken in June 2009.

Landcover provided by the NOAA's Coastal Change Analysis Program (C-CAP), 2006 classification of Landsat scenes.

Date:
04/29/2010

File:
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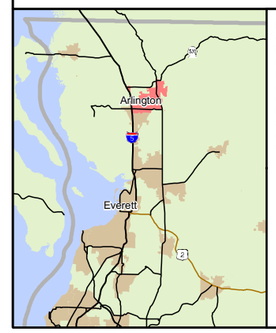

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CITY OF ARLINGTON

City of Arlington
Shoreline Master Plan

Figure 13
2003 USGS Impervious Area

Legend

USGS Impervious Surface

Mostly impervious surface

Increasing impervious surfaces

Minimal impervious surface

Buildings

Proposed Jurisdiction

South Slough
Area of additional analysis

City Limits

City UGA

Local roads

Airport

Railroad

Streams

Rivers

Ponds

Impervious suface from the USGS National Land Cover Database Zone 09 Impervious Layer (2003).

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

Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

Date:
04/29/2010

File:
Figure13_11x17_10.mxd

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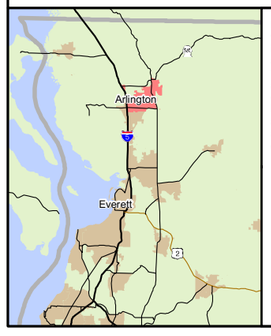
kdk



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DRAFT

Inset Maps:
Shoreline Jurisdiction Areas

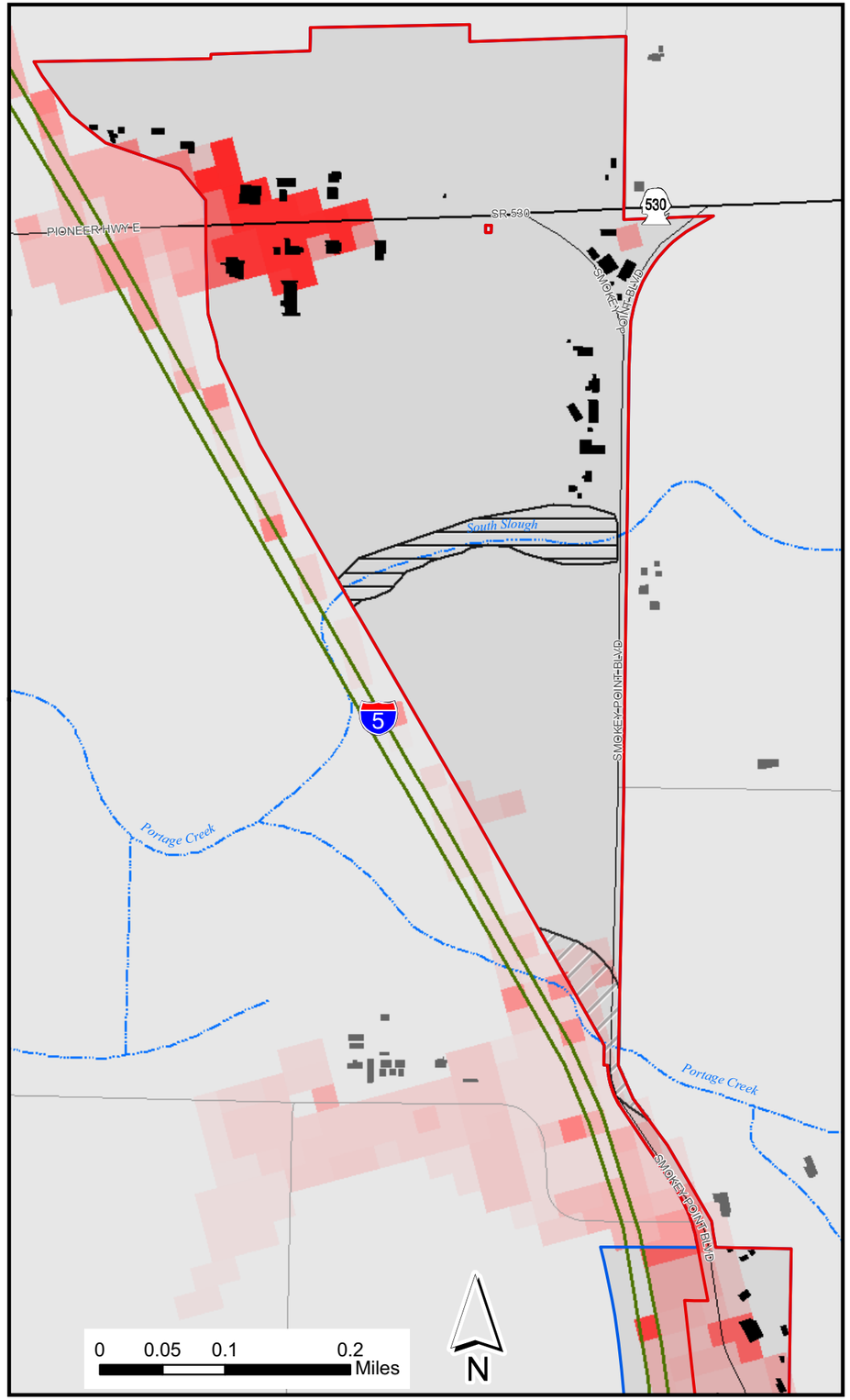
Detailed Island Crossing and Old Town maps are shown in figures labeled 'Figure [figure #]a'.

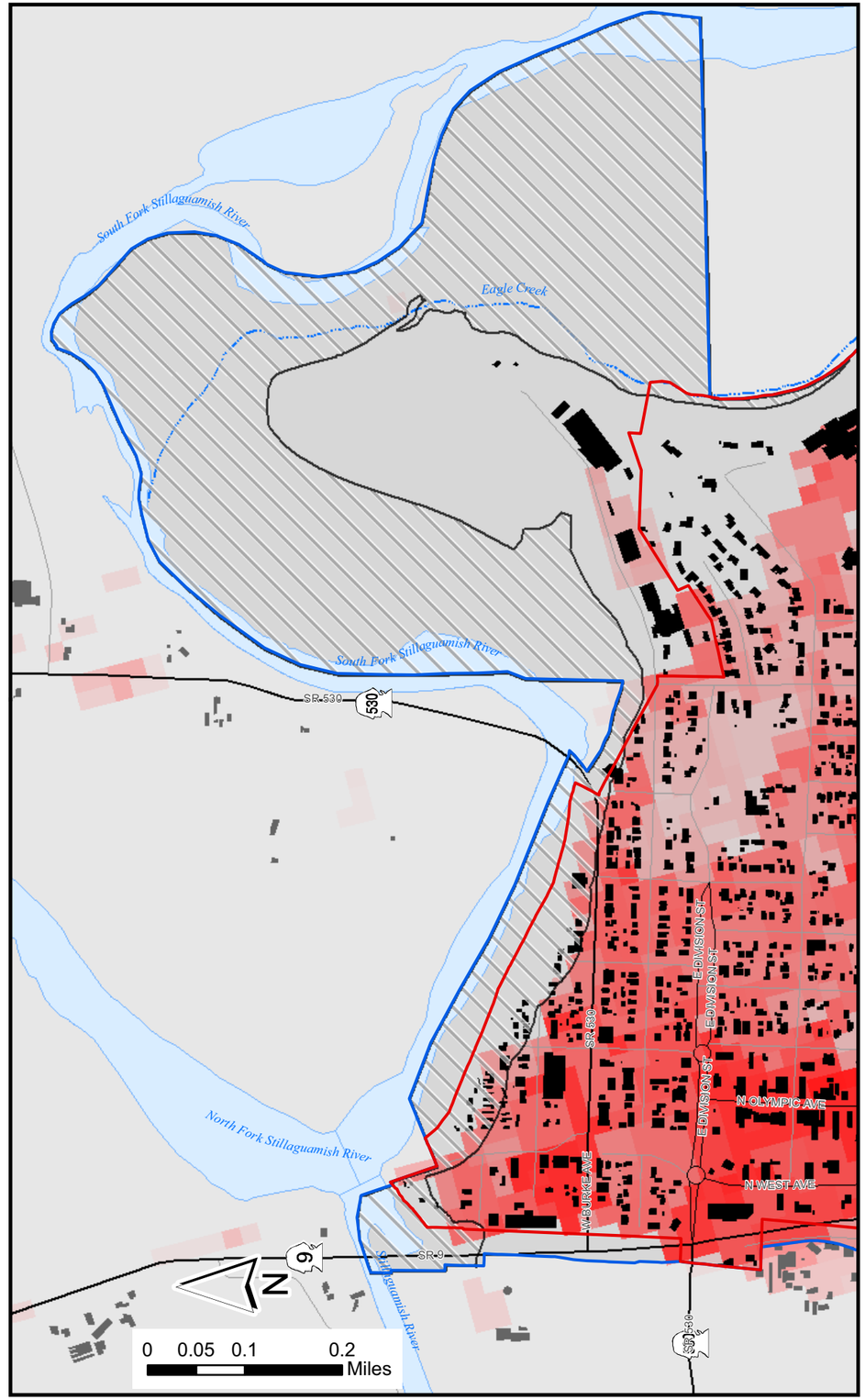
0 0.25 0.5 1 1.5 2 Miles

N

City of Arlington
Shoreline Master Plan

Figure 13a
2003 USGS Impervious Area: Old Town and Island Crossing





Legend

USGS Impervious Surface

Mostly impervious surface

Increasing impervious surfaces

Minimal impervious surface

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South Slough

Area of additional analysis

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City UGA

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Impervious suface from the USGS National Land Cover Database Zone 09 Impervious Layer (2003).

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Date:
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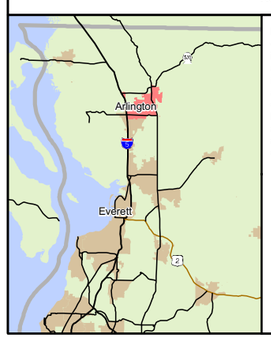
File:
Figure13a_11x17_10.mxd

Cartographer:
kdk



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CITY OF ARLINGTON

City of Arlington
Shoreline Master Plan

Figure 14
NRCS Soils

DRAFT

Inset Maps:
Shoreline Jurisdiction Areas

Detailed Island Crossing and Old Town maps are shown in figures labeled 'Figure [figure #]a'.

NRCS Soils

- AEg Alderwood-Everett gravelly sandy loam
- Ag Alderwood gravelly sandy loam
- Bs Bellingham silty clay loam
- Cf Custer fine sandy loam
- Cl Cathcart loam
- Eg Everett gravelly sandy loam
- Ks Kitsap silt loam
- Ll Lynnwood loamy sand
- Mg McKenna gravelly silt loam
- Mm Mukilteo muck
- Nl Norma loam
- Nvl Norma variant loam
- P Pits
- PKs Pastik silt loam
- PTs Puget silty clay loam
- Pf Puyallup fine sandy loam
- Pl Pilchuck loamy sand
- R Riverwash
- Rf Ragnar fine sandy loam
- SNs Sultan silt loam
- SRg Salsavar gravelly loam
- Ss Snohomish silt loam
- TM Terric Medisaprists
- TWg Tokul-Winston gravelly loams
- Tg Tokul gravelly loam
- U Urban land
- W Water

- Proposed Jurisdiction
- South Slough
  Area of additional analysis
- City Limits
- City UGA
- Local roads
- Airport
- Rail line
- Streams
- Rivers
- Ponds

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

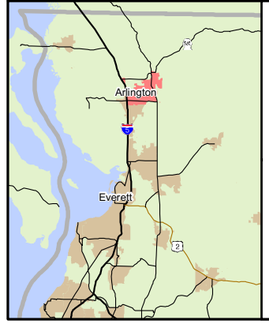
Topography provided by Puget Sound LiDAR Consortium, downloaded summer 2009.

NRCS Soils data downloaded from USDA Soil Data Mart, March 2010.

Date:
04/29/2010

File:
Figure14_11x17_10.mxd

Cartographer:
kdk



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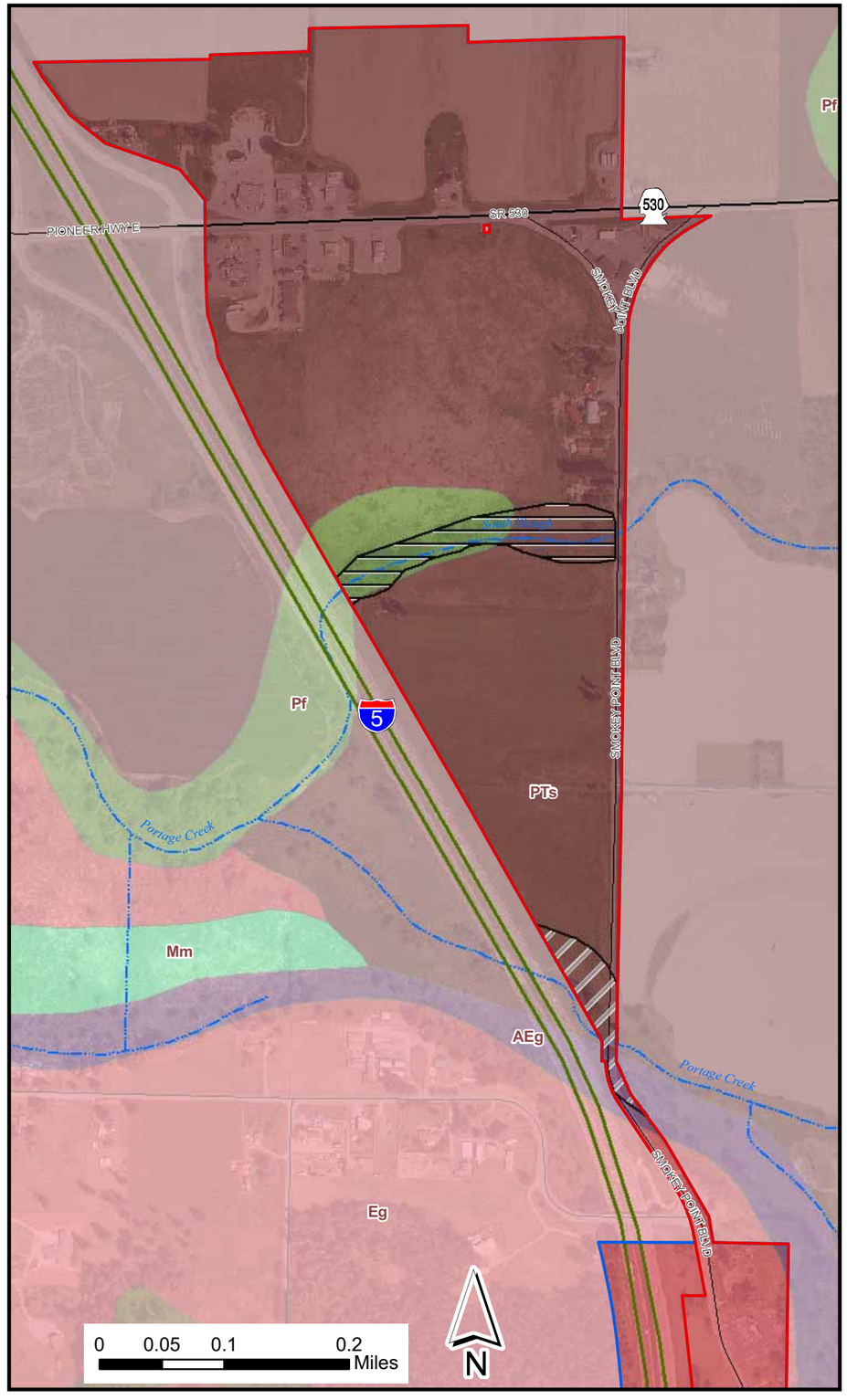
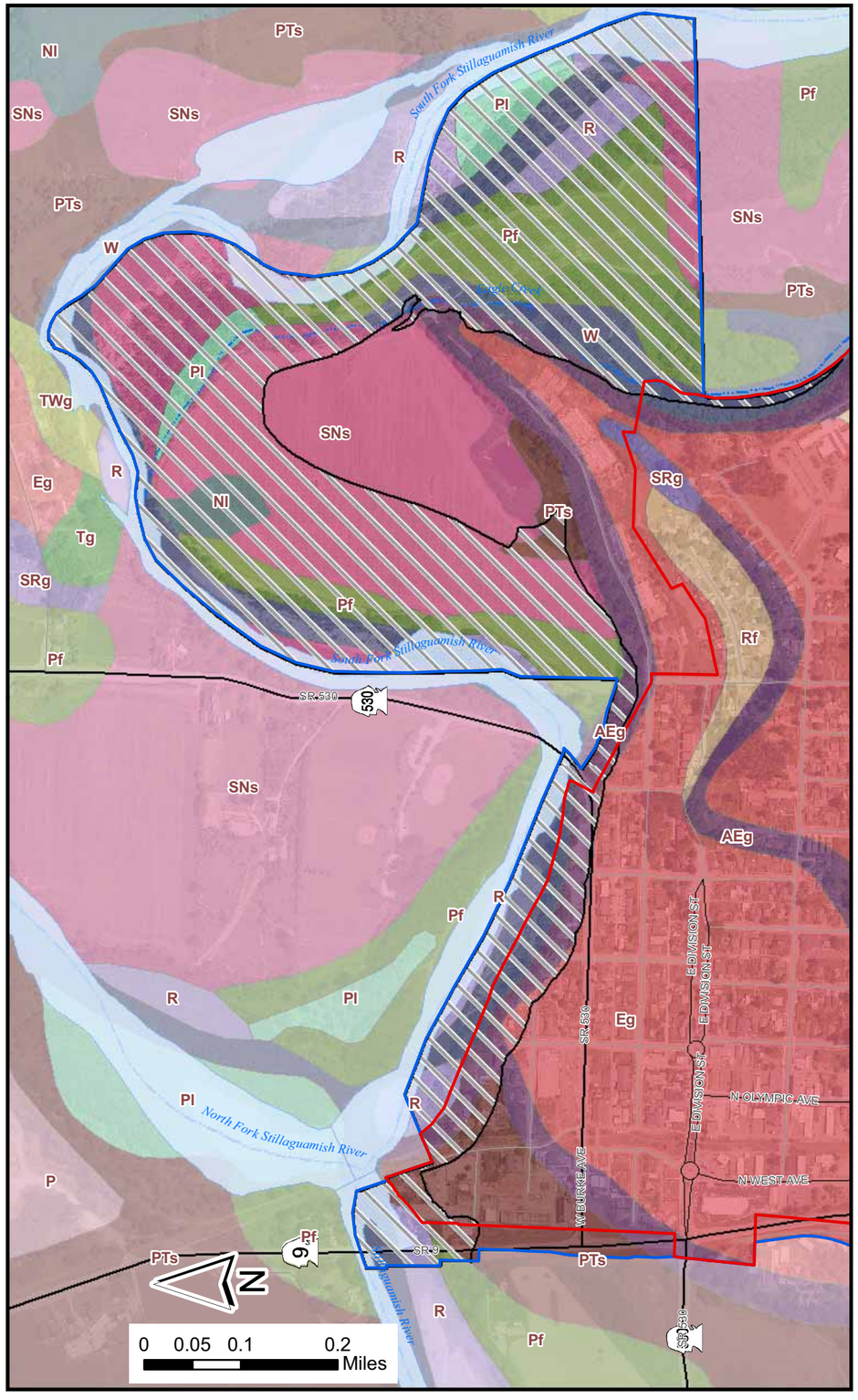
CITY OF ARLINGTON

0 0.25 0.5 1 1.5 2 Miles

N





City of Arlington
Shoreline Master Plan

Figure 14a
NRCS Soils:
Old Town and Island Crossing

DRAFT

NRCS Soils

- AEg Alderwood-Everett gravelly sandy loam
- Ag Alderwood gravelly sandy loam
- Bs Bellingham silty clay loam
- Cf Custer fine sandy loam
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- U Urban land
- W Water

Proposed Jurisdiction
South Slough
Area of additional analysis
City Limits
City UGA
Local roads
Streams
Rivers
Ponds

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

Aerials taken in June 2009.

NRCS Soils data downloaded from USDA Soil Data Mart, March 2010.

Date:
04/29/2010

File:
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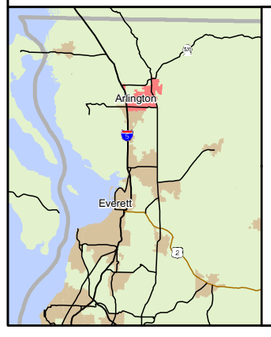
Cartographer:
kdk



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CITY OF ARLINGTON