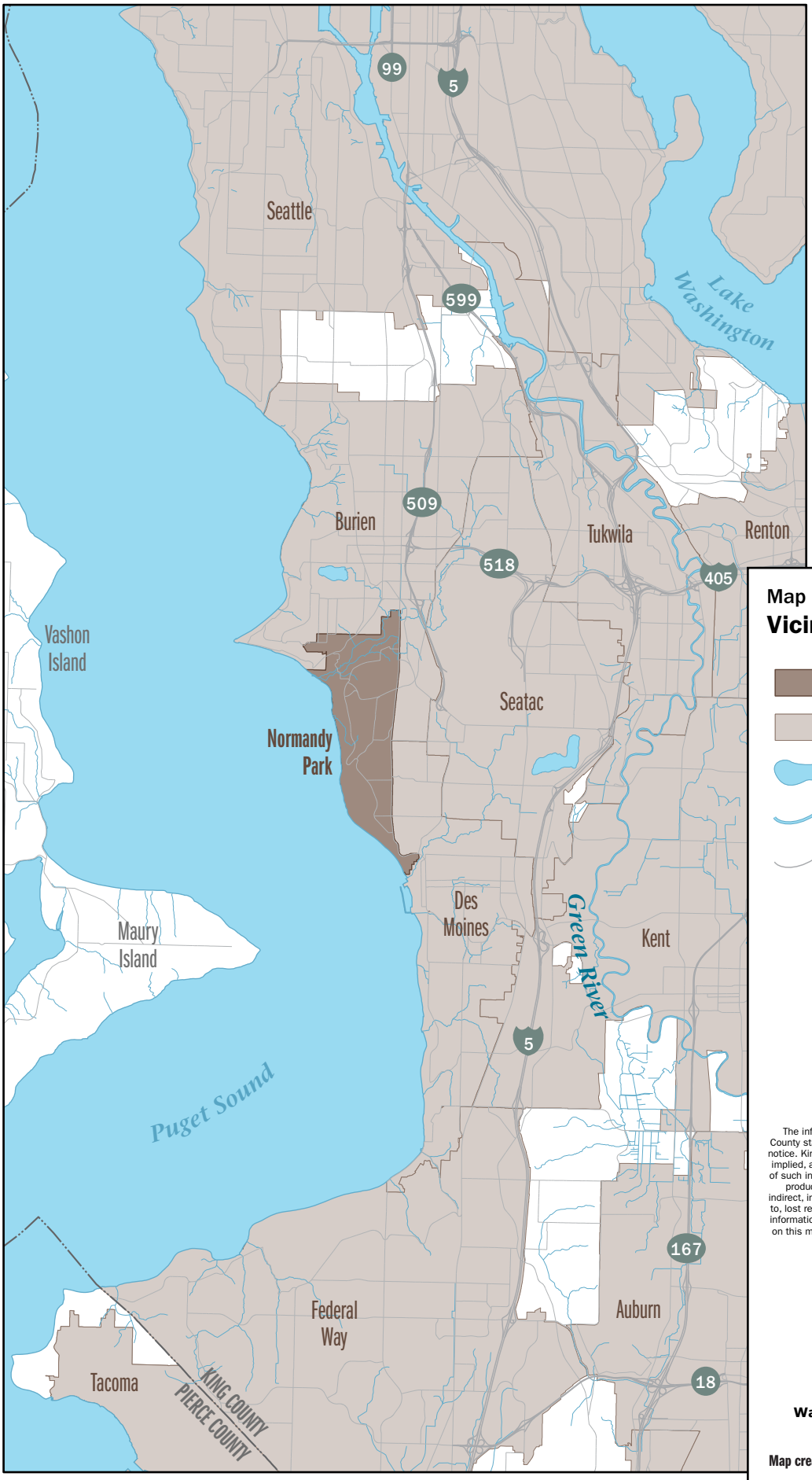
Normandy Park Shoreline Characterization Report



Map 1
Vicinity Map

- City of Normandy Park
- Other Cities
- Lake/Puget Sound
- River/Stream
- Major Road

N

0 1 2 Miles

September 2010

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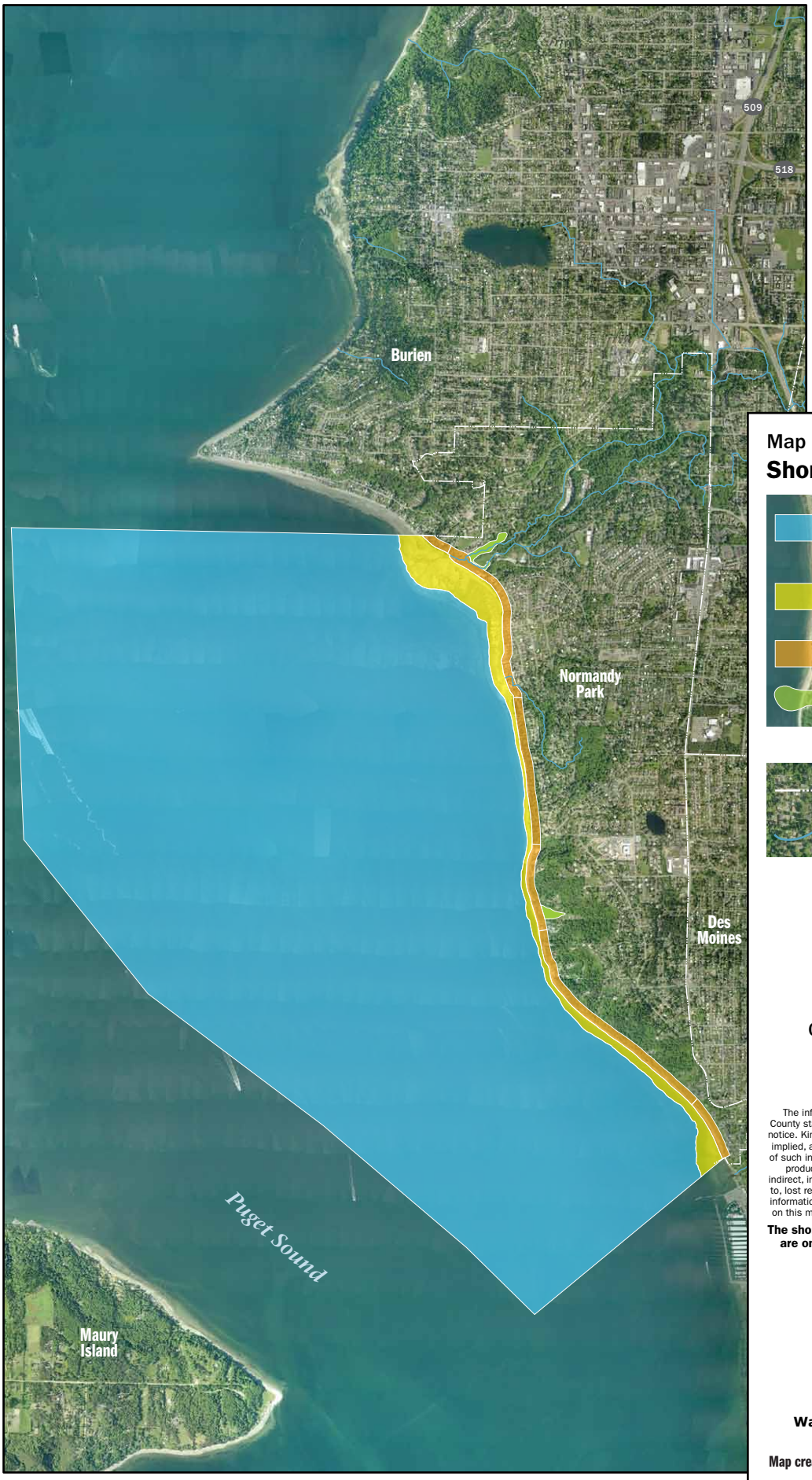
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr1_locator.ai wgab

Normandy Park Shoreline Characterization Report



Map 2
Shoreline Jurisdiction

- Shoreline of Statewide Significance
- Aquatic Shoreline Areas
- Shoreland
- Associated Wetland
- City Boundary
- Stream

N

0 1/2 1 Mile

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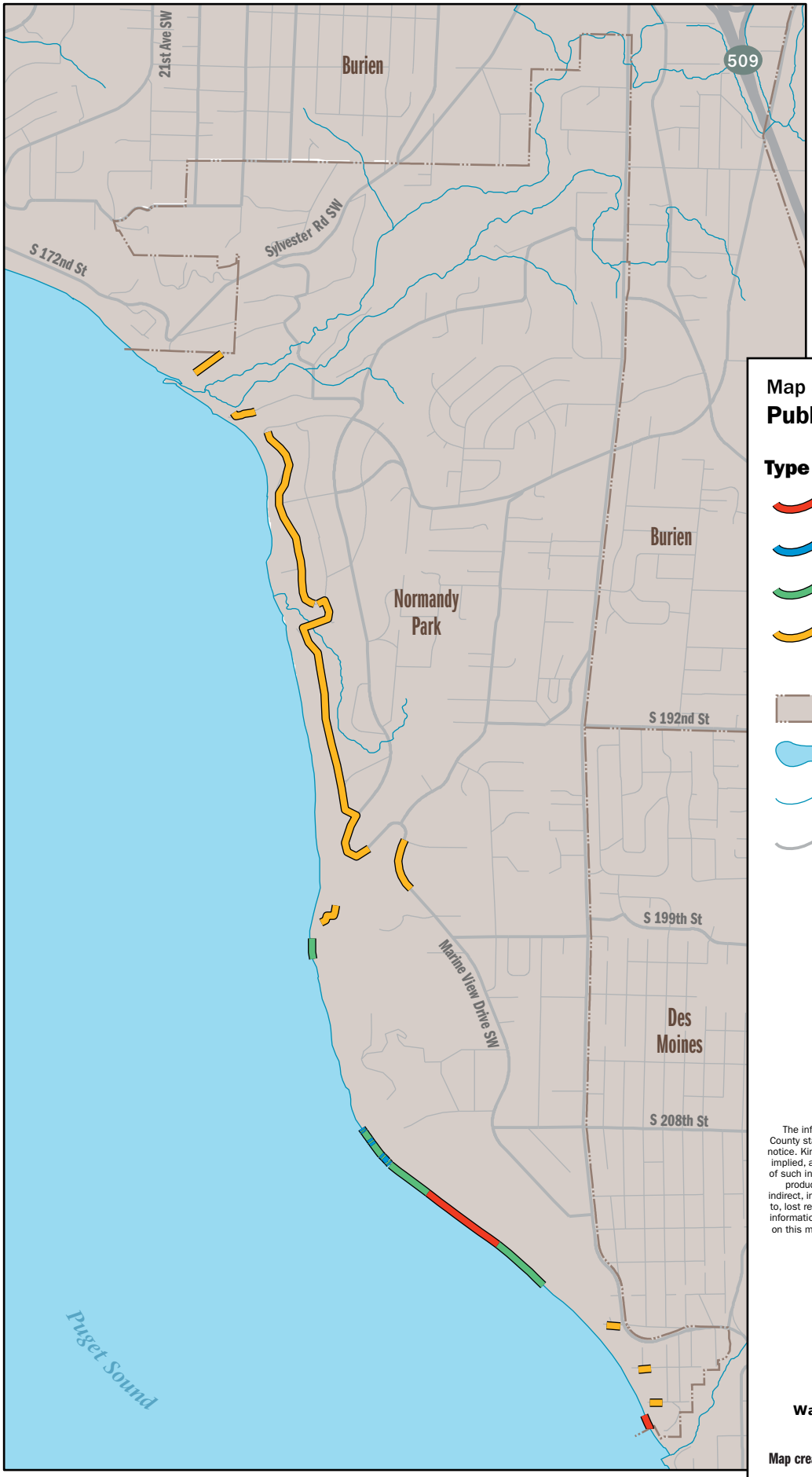
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr2_shoreline.ai wgab

Normandy Park Shoreline Characterization Report



Map 3

Public Access

Type of Public Access

- Physical – Upland
- Physical – Water Only
- Potential
- Visual

- Incorporated Area
- Puget Sound/Lake
- Stream
- Major Road

N

0 1/4 1/2 Miles

June 2011

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File 1009npshr3_pubaccess.ai wgab

Normandy Park Shoreline Characterization Report

Map 4

Topography

City Boundary

Stream

N

0 1/4 1/2 Miles

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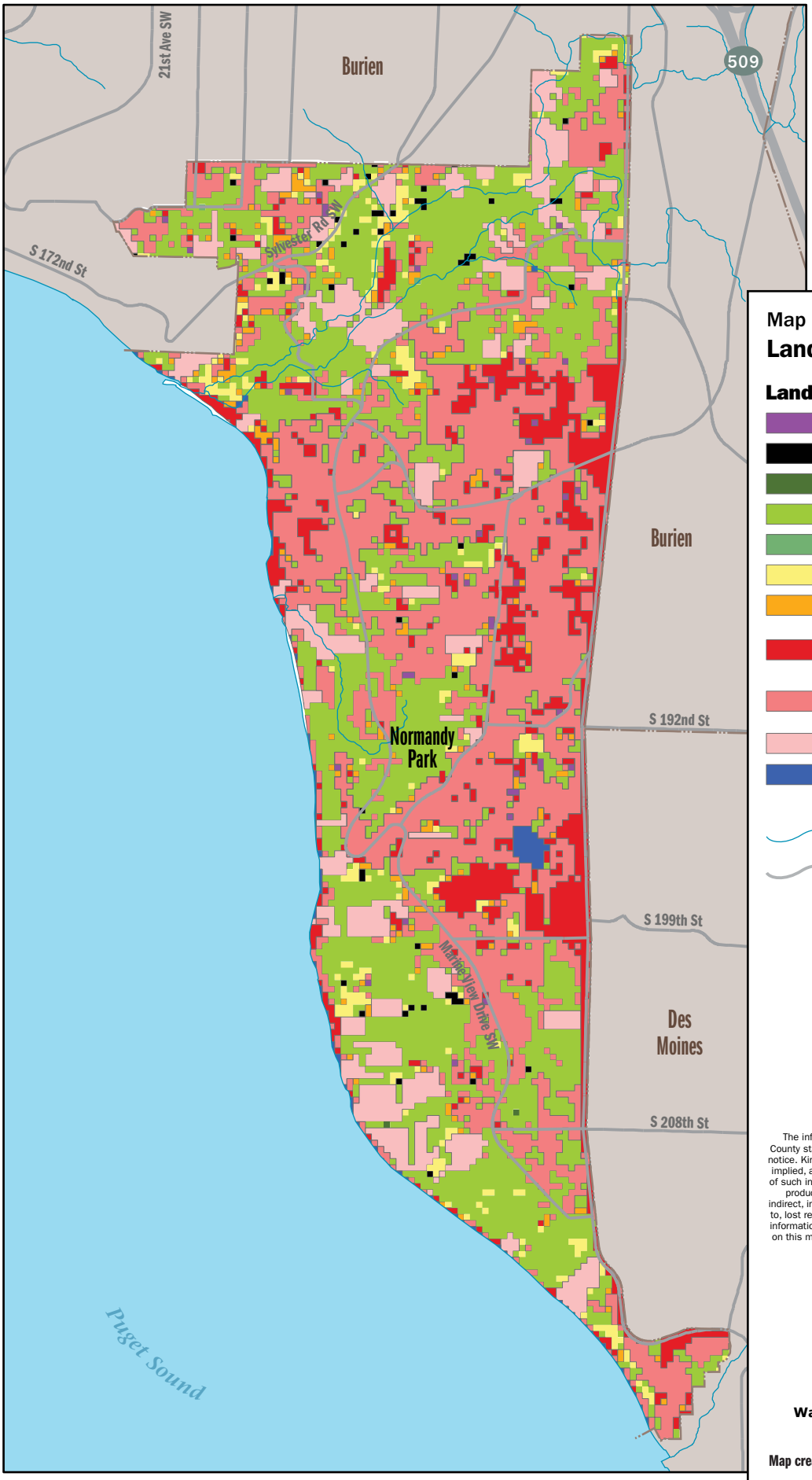
Data King County Datasets
File 1009npshr4_topography.ai wgab

Normandy Park Shoreline Characterization Report



Map 5

Land Cover

Land Cover Categories

- Bare Rock/Snow/Ice
- Cultivated
- Coniferous
- Deciduous/Mixed
- Immature Conifer
- Herbaceous
- Scrub-Shrub
- High Intensity Development
- Medium Intensity Development
- Low Density Development
- Water

- Stream
- Major Road

N

0 1/4 1/2 Miles

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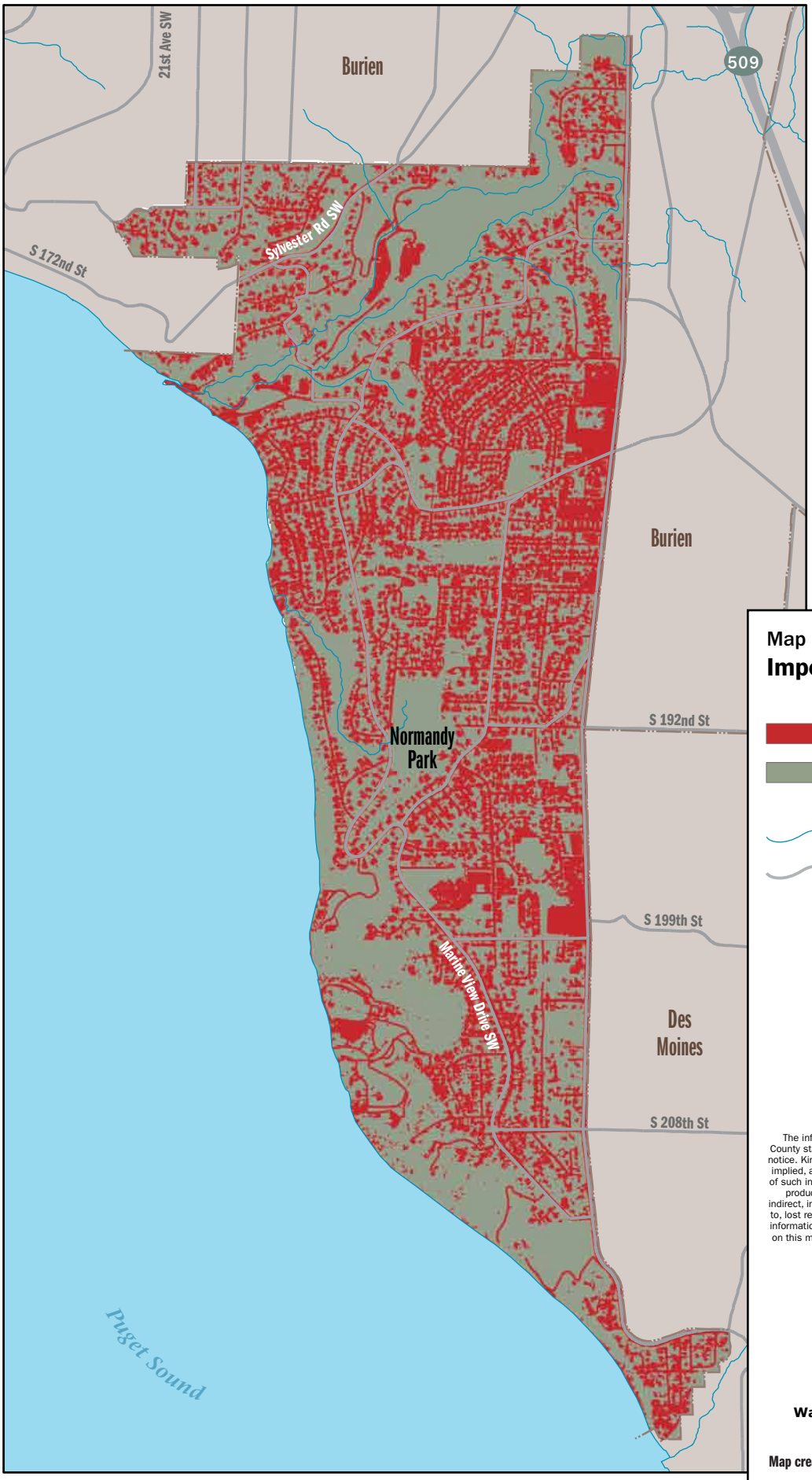
File 1009npshr5_landcover.ai wgab

Normandy Park Shoreline Characterization Report



Map 6

Impervious Surface

Impervious Surface

Pervious Surface

Stream

Major Road

N

0 1/4 1/2 Miles

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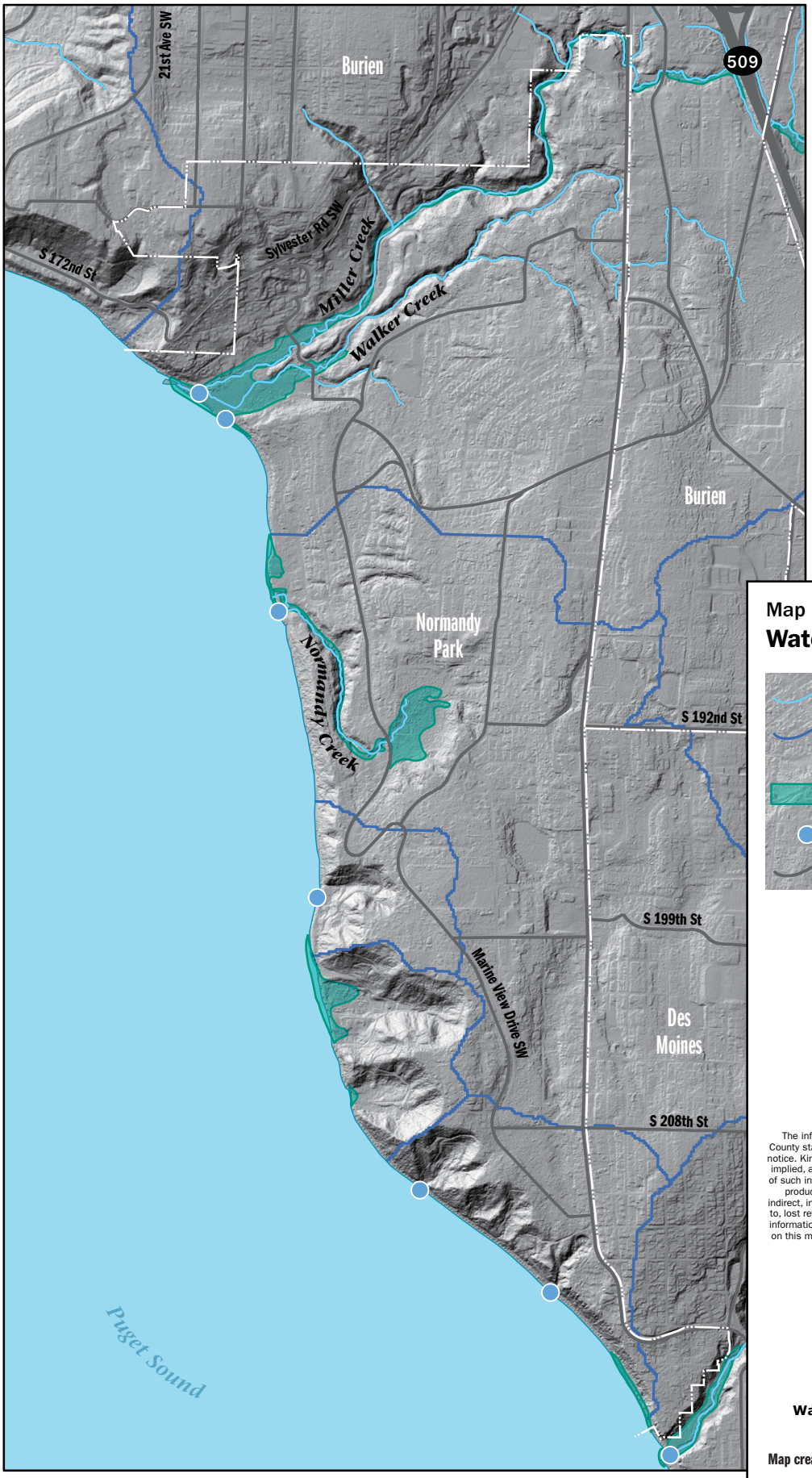
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr6_impsurface.ai wgab

Normandy Park Shoreline Characterization Report



Map 7

Water Features

- Stream
- Catchment Boundary
- Floodplain
- Stream Mouth
- Major Road

N

0 1/4 1/2 Miles

June 2011

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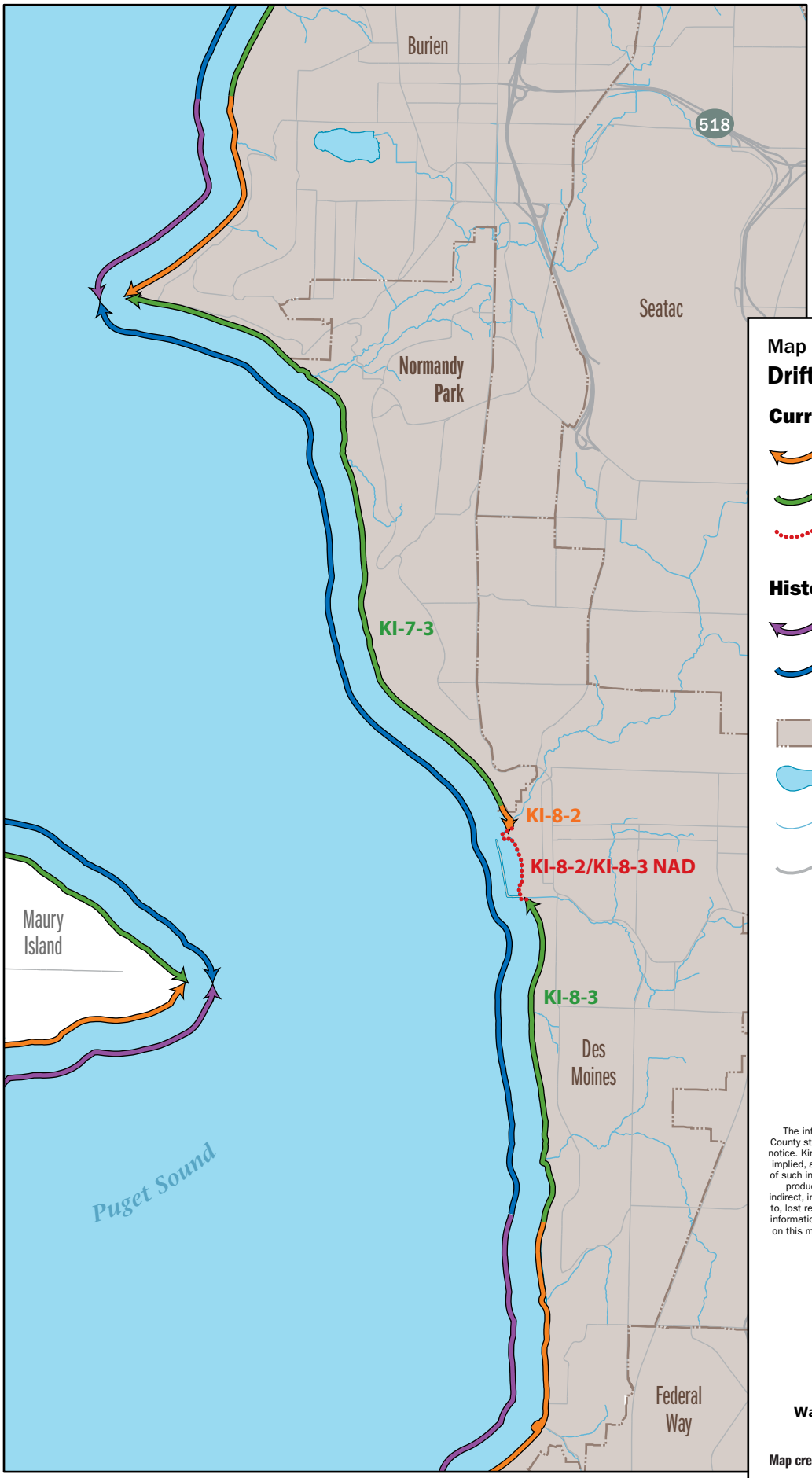
Data King County Datasets
File 1009npshr7_wtrfeat.ai wgab

Normandy Park Shoreline Characterization Report



Map 8

Drift Cells

Current Drift Cell Results

- Left to Right
- Right to Left
- No Available Drift (NAD)

Historical Drift Cells

- Left to Right
- Right to Left

- Incorporated Area
- Puget Sound/Lake
- Stream
- Major Road

N

0 1/2 1 Mile

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Map created by DNRP GIS/Visual Communications/Web Unit
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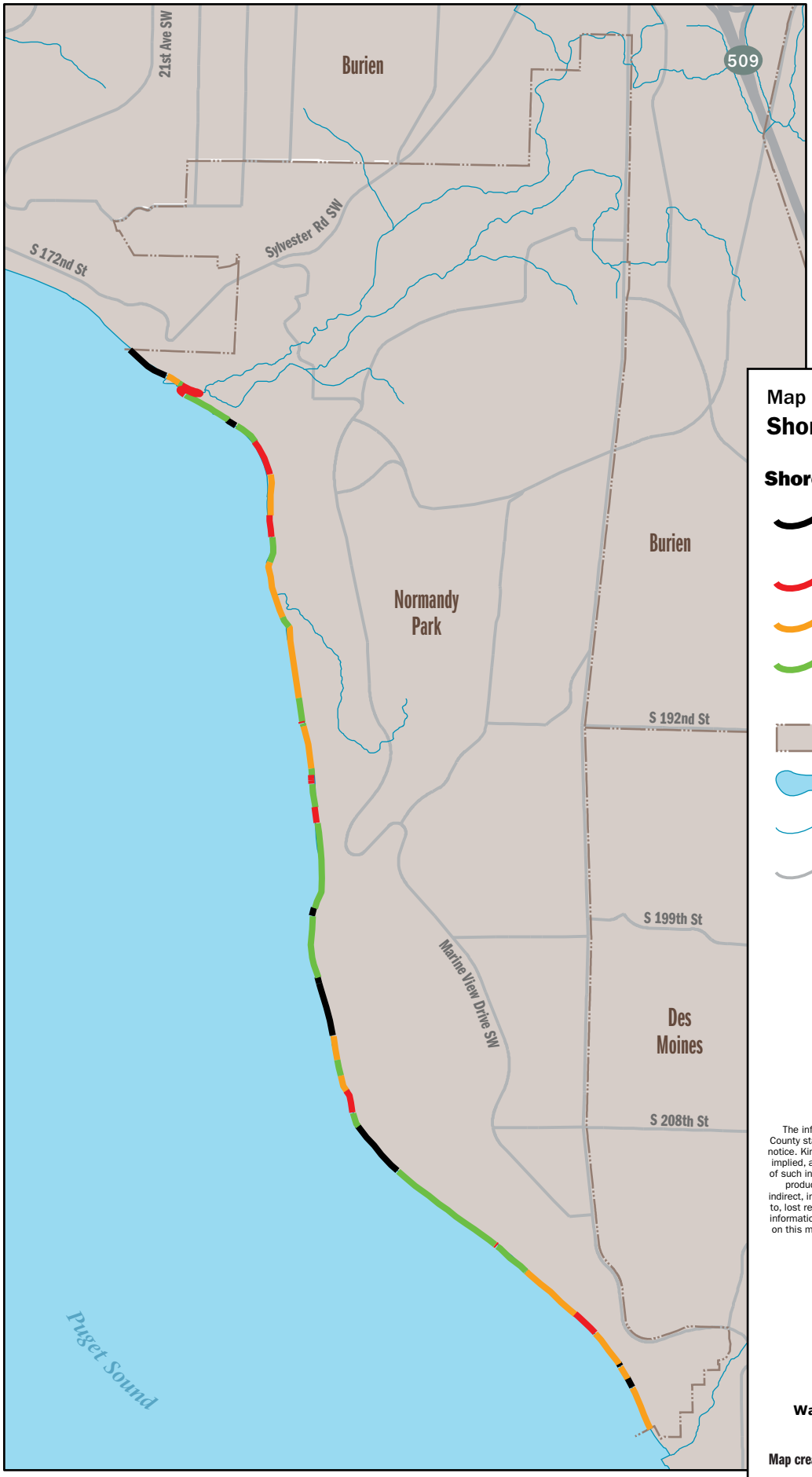
File 1009npshr8_driftcell.ai wgab

Normandy Park Shoreline Characterization Report



Map 9

Shoreline Armoring

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW
- No Armor

- Incorporated Area
- Puget Sound/Lake
- Stream
- Major Road

N

0 1/4 1/2 Miles

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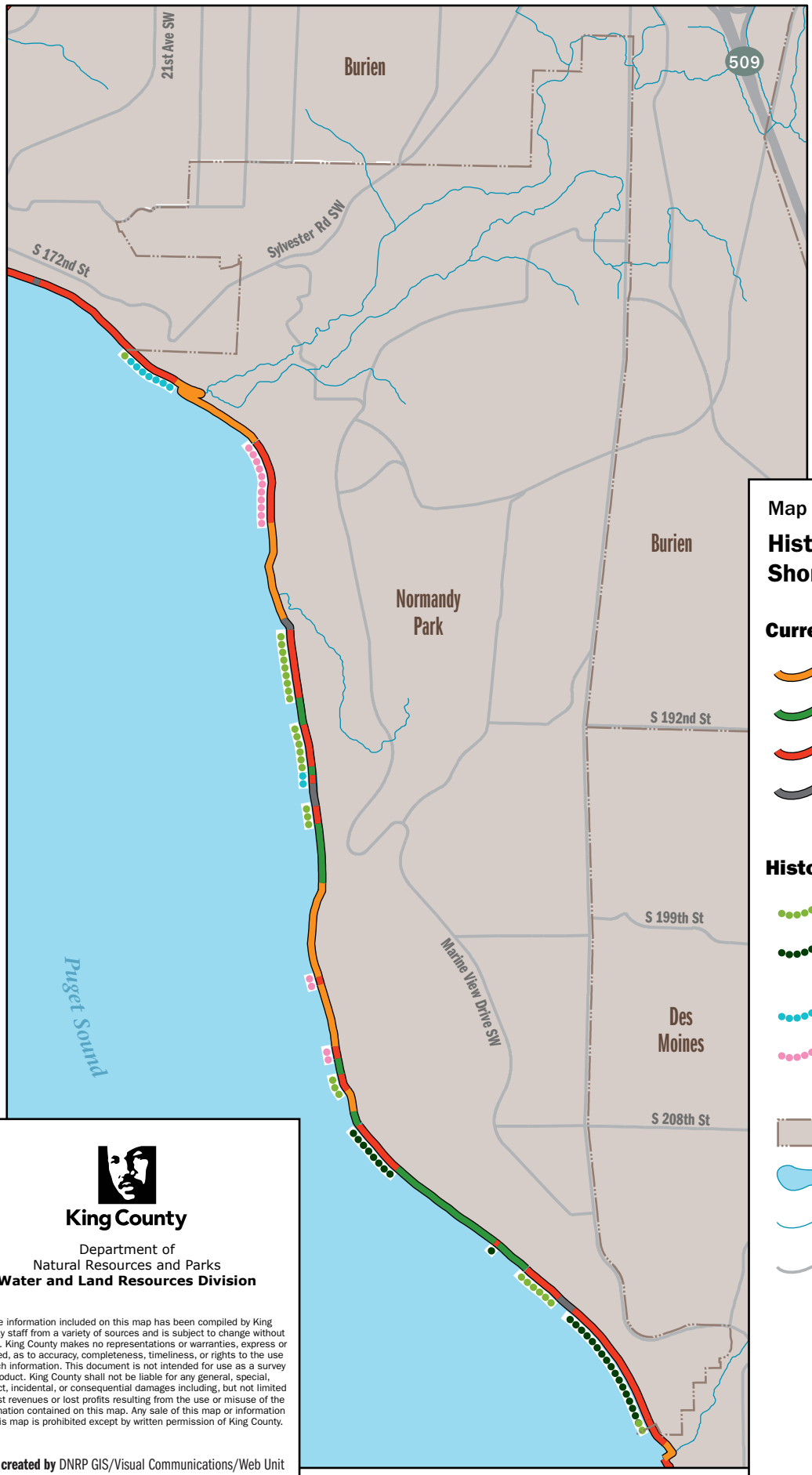
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr9_armoring.ai wgab

Normandy Park Shoreline Characterization Report



Map 10

Historic and Current Shoretype

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

- Incorporated Area
- Puget Sound/Lake
- Stream
- Major Road

N

0 1/4 1/2 Miles

September 2010

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Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr10_shoretype.ai wgab

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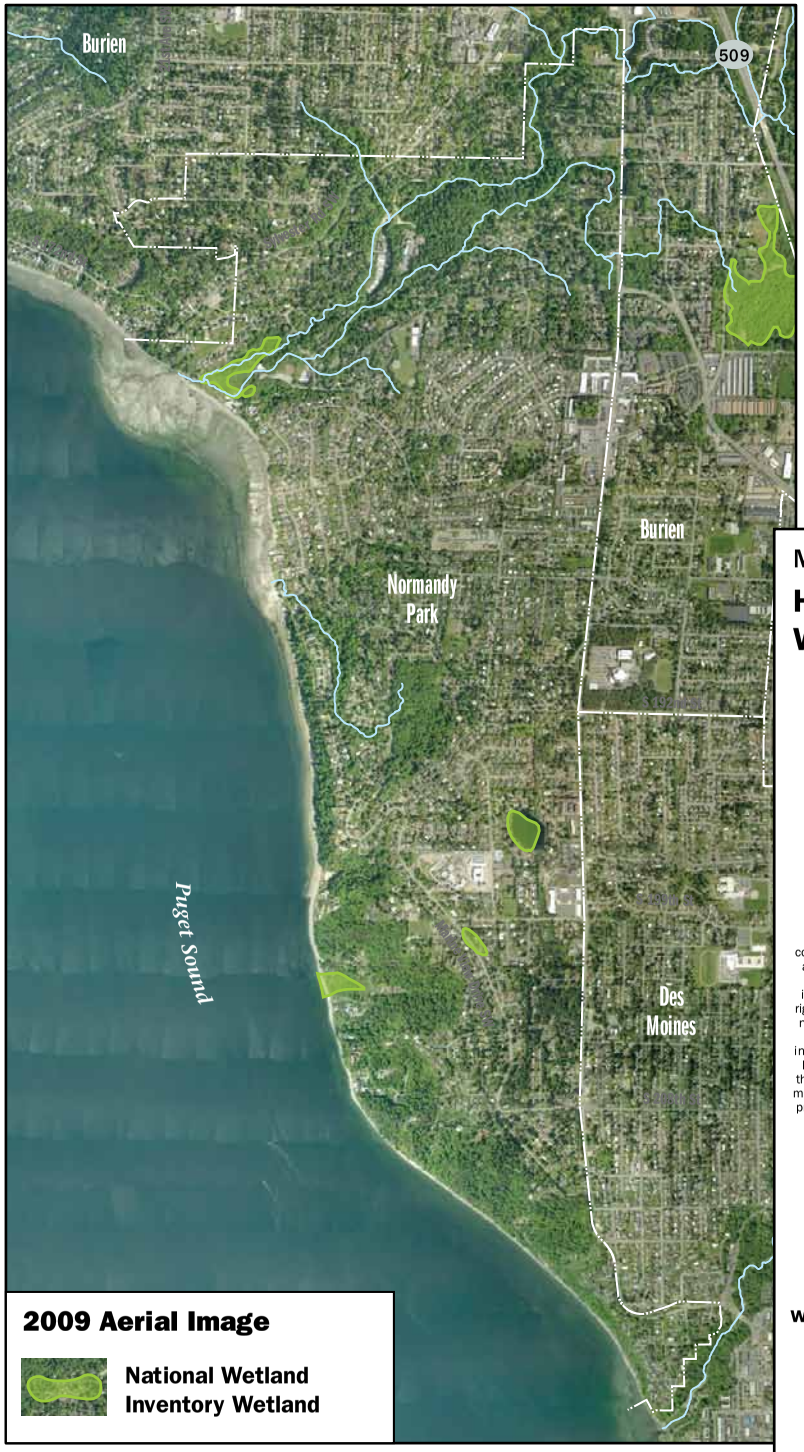

Map 11

Historic and Current Wetlands

N

0 1/4 1/2 Mile

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Map created by DNRP GIS/
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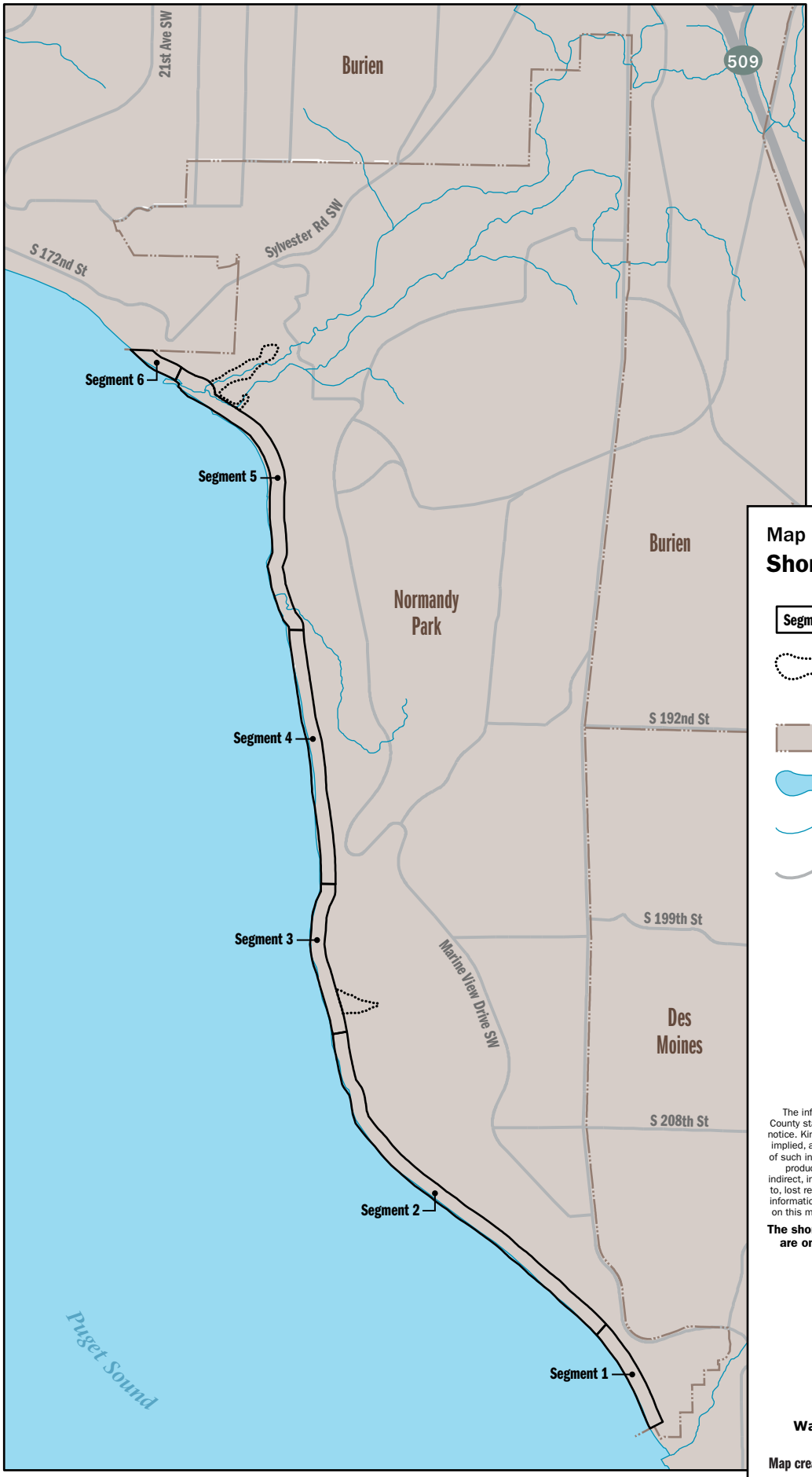
Data King County Datasets
File 1009npshr11_wetlands.ai wgab

Normandy Park Shoreline Characterization Report



Map 12

Shoreline Segments

Segment 1 — Segment and Number

Associated Wetland

Incorporated Area

Puget Sound/Lake

Stream

Major Road

N

0 1/4 1/2 Miles

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets

File 1009npshr12_segments.ai wgab

Normandy Park Shoreline Characterization Report

Map 13

Segment 1

- Segment 1
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 200 400 Feet

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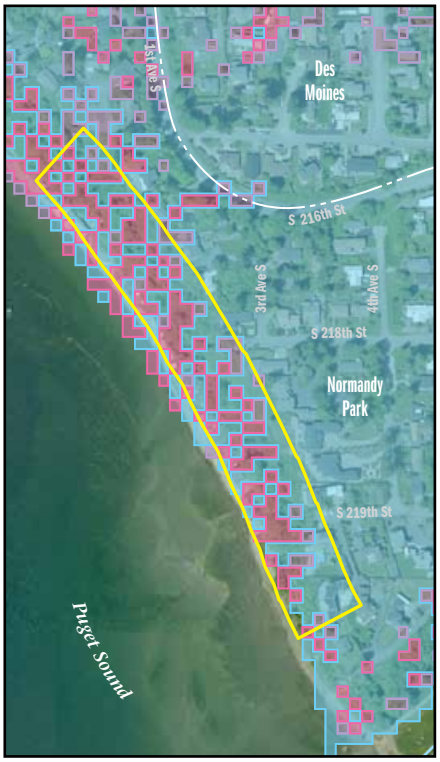
Data King County Datasets
File 1009npshr13_seg1.ai wgab

Normandy Park Shoreline Characterization Report

Maps 14a-d

Segment 1 Geologic Features

14a. Liquifaction Susceptibilty



14b. Landslide Hazards

14c. Slopes 25% and Greater

14d. Erosion Hazards

14a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

14b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

14c. Slopes 25% and Greater

- Slopes ≥ 25%

14d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Liquefaction – WADNR 2004; Landslides – Johannessen et al 2005; Predictive Shallow-Rapid Slope Stability – WADNR 2000; Erosion Hazards – King County 1990; 25% Slopes or greater – unpublished KC data, created 2010

File 1009npshr14_seg1geol.ai wgab

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Normandy Park Shoreline Characterization Report

Maps 15a-b

Segment 1 Coastal Features

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

15a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

File 1009npshr15_seg1coast.ai wgab

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW
- Groin
- Dock
- Ramp

15b. Coastal Features

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Segment 1 Coastal Features

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 200 400 Feet

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Normandy Park Shoreline Characterization Report

16a. Forage Fish Spawning Areas

16b. Eelgrass Distribution

16c. Riparian Vegetation

16d. Drift Log/Large Woody Debris

Maps 16a-d
Segment 1 Biological Features

16a. Forage Fish Spawning Areas
Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

16b. Eelgrass Distribution

- Continuous
- Patchy

16c. Riparian Vegetation
Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass

16d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr16_seg1biol.ai wgab

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Normandy Park Shoreline Characterization Report

Map 17

Segment 2

- Segment 2
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 400 800 Feet

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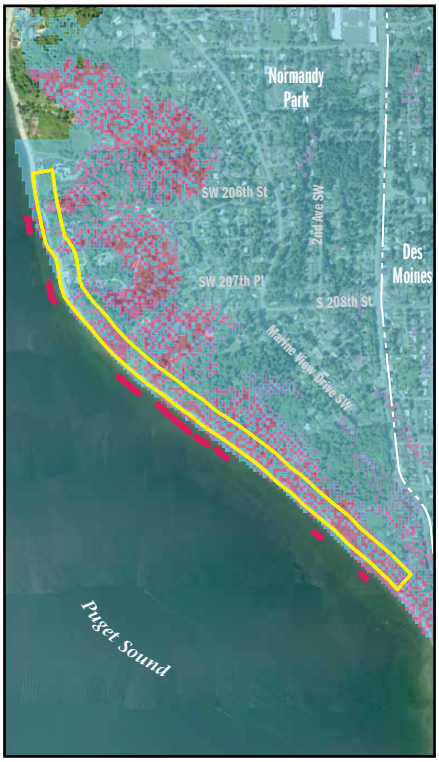
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr17_seg2.ai wgab

Normandy Park Shoreline Characterization Report

18a. Liquifaction Susceptibilty



18b. Landslide Hazards

18c. Slopes 25% and Greater

18d. Erosion Hazards

Maps 18a-d
Segment 2 Geologic Features

18a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

18b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

18c. Slopes 25% and Greater

- Slopes ≥ 25%

18d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 800 1600 Feet

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Data King County Datasets; Liquefaction – WADNR 2004; Landslides – Johannessen et al 2005; Predictive Shallow-Rapid Slope Stability – WADNR 2000; Erosion Hazards – King County 1990; 25% Slopes or greater – unpublished KC data, created 2010

File 1009npshr18_seg2geol.ai wgab

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Normandy Park Shoreline Characterization Report

Maps 19a-b

Segment 2
Coastal Features

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

19a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

File 1009npshr19_seg2coast.ai wgab

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW
- Groin
- Dock
- Ramp

19b. Coastal Features

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- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 800 1600 Feet

September 2010

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Normandy Park Shoreline Characterization Report

Map 20

Segment 2 Hydrologic Features

- National Wetland Inventory Wetland
- 1874 Wooded Marsh Location
- Stream
- Stream Mouth
- Segment
- Associated Wetland
- Incorporated Area Boundary

N

0 400 800 Feet

June 2011

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Streams-King County 2009; Wetlands-National Wetlands Inventory--WDFW 2010; Marsh-Anchor 2004; Floodplain--King County 2006

File 1009npshr20_seg2hydro.ai wgab

Normandy Park Shoreline Characterization Report

21a. Forage Fish Spawning Areas

21b. Eelgrass Distribution

21c. Riparian Vegetation

21d. Drift Log/Large Woody Debris

Maps 21a-d
Segment 2 Biological Features

21a. Forage Fish Spawning Areas

Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

21b. Eelgrass Distribution

- Continuous
- Patchy

21c. Riparian Vegetation

Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass
- Salt-tolerant Vegetation
- Other Salt-tolerant Vegetation

21d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 800 1600 Feet

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Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr21_seg2biol.ai wgab

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Normandy Park Shoreline Characterization Report

Map 22

Segment 3

- Segment 3
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 200 400 Feet

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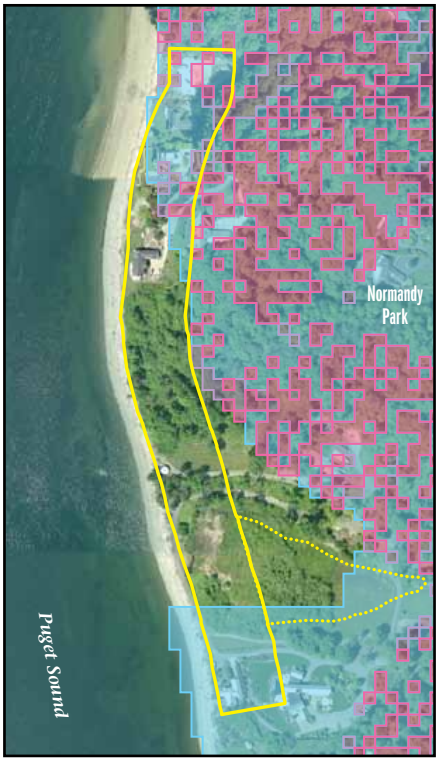
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr22_seg3.ai wgab

Normandy Park Shoreline Characterization Report

Maps 23a-d

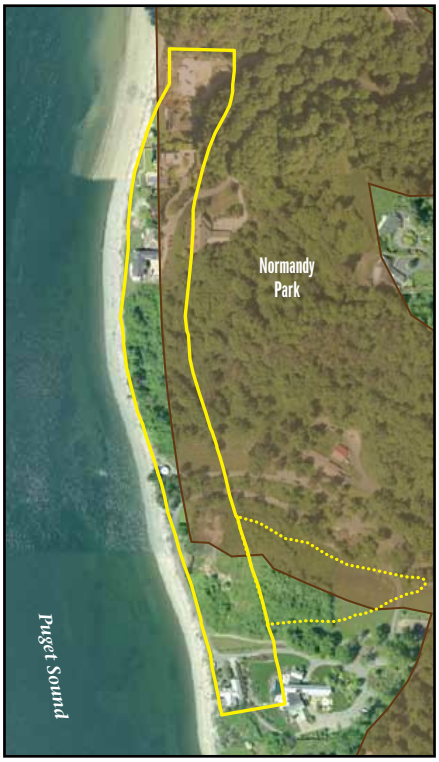
Segment 3 Geologic Features

23a. Liquifaction Susceptibilty



23b. Landslide Hazards

23c. Slopes 25% and Greater



23d. Erosion Hazards

23a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

23b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

23c. Slopes 25% and Greater

- Slopes ≥ 25%

23d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 800 1600 Feet

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Liquefaction – WADNR 2004; Landslides – Johannessen et al 2005; Predictive Shallow-Rapid Slope Stability – WADNR 2000; Erosion Hazards – King County 1990; 25% Slopes or greater – unpublished KC data, created 2010

File 1009npshr23_seg3geol.ai wgab

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Normandy Park Shoreline Characterization Report

Maps 24a-b

Segment 3 Coastal Features

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

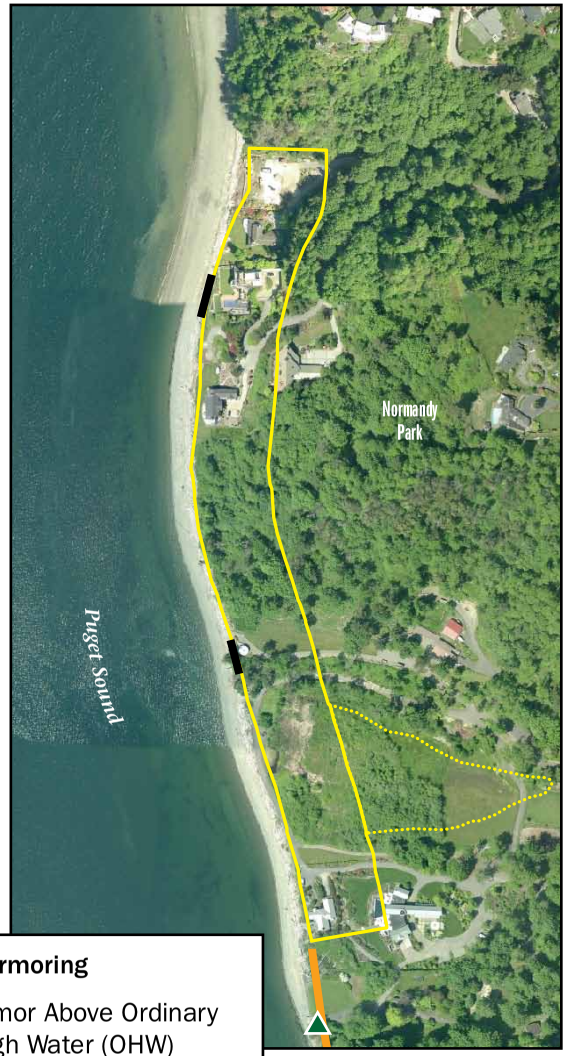
- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

24a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

File 1009npshr24_seg3coast.ai wgab



Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW

- Groin
- Dock
- Ramp

24b. Coastal Features

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Segment

Associated Wetland

Incorporated Area Boundary

Stream

N

0 200 400 Feet

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Normandy Park Shoreline Characterization Report

Map 25

Segment 3 Hydrologic Features

National Wetland Inventory Wetland

1874 Wooded Marsh Location

Stream

Stream Mouth

Segment

Associated Wetland

Incorporated Area Boundary

N

0 200 400 Feet

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Data King County Datasets; Streams-King County 2009; Wetlands-National Wetlands Inventory--WDFW 2010; Marsh-Anchor 2004; Floodplain--King County 2006

File 1009npshr25_seg3hydro.ai wgab

Normandy Park Shoreline Characterization Report

26a. Forage Fish Spawning Areas

26b. Eelgrass Distribution

26c. Riparian Vegetation

26d. Drift Log/Large Woody Debris

Maps 26a-d
Segment 3 Biological Features

26a. Forage Fish Spawning Areas

Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

26b. Eelgrass Distribution

- Continuous
- Patchy

26c. Riparian Vegetation

Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass
- Salt-tolerant Vegetation
- Other Salt-tolerant Vegetation

26d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 800 1600 Feet

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Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr26_seg3biol.ai wgab

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Normandy Park Shoreline Characterization Report

Map 27

Segment 4

- Segment 4
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 200 400 Feet

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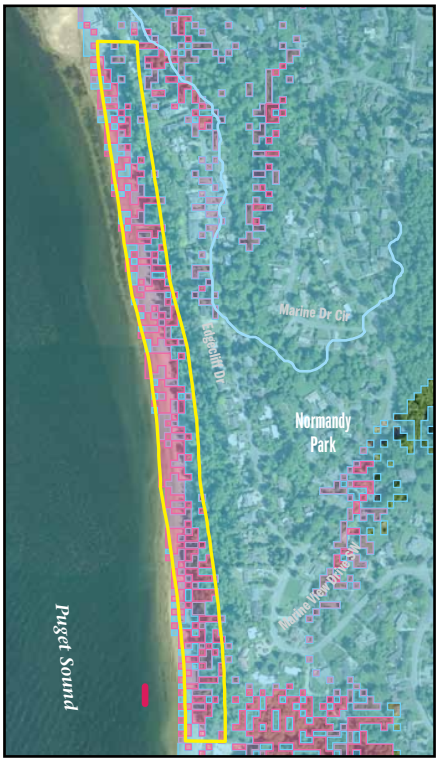
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr27_seg4.ai wgab

Normandy Park Shoreline Characterization Report

28a. Liquifaction Susceptibilty



28b. Landslide Hazards

28c. Slopes 25% and Greater

28d. Erosion Hazards

Maps 28a-d
Segment 4 Geologic Features

28a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

28b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

28c. Slopes 25% and Greater

- Slopes ≥ 25%

28d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

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File 1009npshr28_seg4geol.ai wgab

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Water and Land Resources Division

Normandy Park Shoreline Characterization Report

Maps 29a-b

Segment 4 Coastal Features

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

29a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

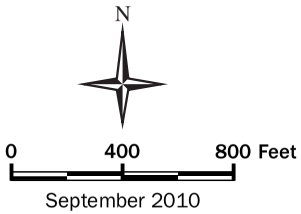
File 1009npshr29_seg4coast.ai wgab

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW

- Groin
- Dock
- Ramp

29b. Coastal Features



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Normandy Park Shoreline Characterization Report

30a. Forage Fish Spawning Areas

30b. Eelgrass Distribution

30c. Riparian Vegetation

30d. Drift Log/Large Woody Debris

Maps 30a-d

Segment 4 Biological Features

30a. Forage Fish Spawning Areas

Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

30b. Eelgrass Distribution

- Continuous
- Patchy

30c. Riparian Vegetation

Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass

30d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

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Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr30_seg4biol.ai wgab

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Normandy Park Shoreline Characterization Report

Map 31
Segment 5

- Segment 5
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 200 400 Feet

September 2010

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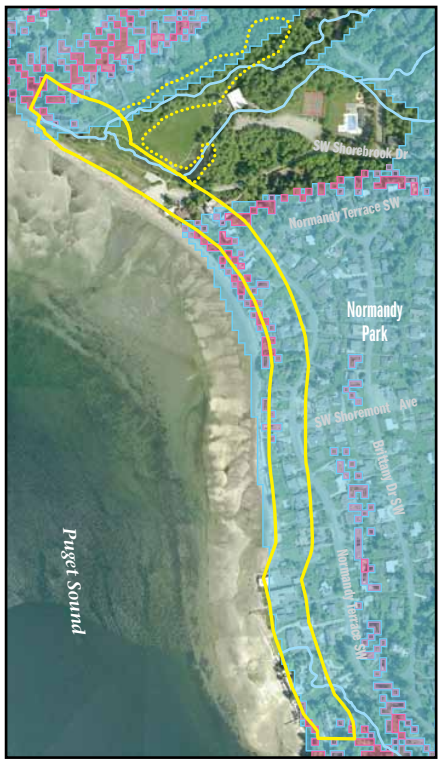
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr31_seg5.ai wgab

Normandy Park Shoreline Characterization Report

32a. Liquifaction Susceptibilty



32b. Landslide Hazards

32c. Slopes 25% and Greater

32d. Erosion Hazards

Maps 32a-d
Segment 5 Geologic Features

32a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

32b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

32c. Slopes 25% and Greater

- Slopes ≥ 25%

32d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Liquefaction – WADNR 2004; Landslides – Johannessen et al 2005; Predictive Shallow-Rapid Slope Stability – WADNR 2000; Erosion Hazards – King County 1990; 25% Slopes or greater – unpublished KC data, created 2010

File 1009npshr32_seg5geol.ai wgab

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Normandy Park Shoreline Characterization Report

Maps 33a-b

Segment 5 Coastal Features

Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

33a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

File 1009npshr33_seg5coast.ai wgab

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW

- Groin
- Dock
- Ramp

33b. Coastal Features

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

June 2011

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Department of Natural Resources and Parks
Water and Land Resources Division

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Normandy Park Shoreline Characterization Report

Map 34

Segment 5 Hydrologic Features

- National Wetland Inventory Wetland
- 1874 Wooded Marsh Location
- Stream
- Stream Mouth
- Segment
- Associated Wetland
- Incorporated Area Boundary

N

0 200 400 Feet

June 2011

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Streams-King County 2009; Wetlands-National Wetlands Inventory--WDFW 2010; Marsh-Anchor 2004; Floodplain--King County 2006

File 1009npshr34_seg5hydro.ai wgab

Normandy Park Shoreline Characterization Report

35a. Forage Fish Spawning Areas

35b. Eelgrass Distribution

35c. Riparian Vegetation

35d. Drift Log/Large Woody Debris

Maps 35a-d
Segment 5 Biological Features

35a. Forage Fish Spawning Areas

Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

26b. Eelgrass Distribution

- Continuous
- Patchy

26c. Riparian Vegetation

Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass
- Salt-tolerant Vegetation
- Other Salt-tolerant Vegetation

26d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 400 800 Feet

June 2011

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr35_seg5biol.ai wgab

King County

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Water and Land Resources Division

Normandy Park Shoreline Characterization Report

Map 36

Segment 6

- Segment 6
- Associated Wetland
- Single Family Residential Parcel
- Vacant Parcel
- Undivided Interest Parcel
- Park
- Incorporated Area Boundary
- Stream

Public Access

- Known Upland
- Known Water Only
- Potential

N

0 100 200 Feet

September 2010

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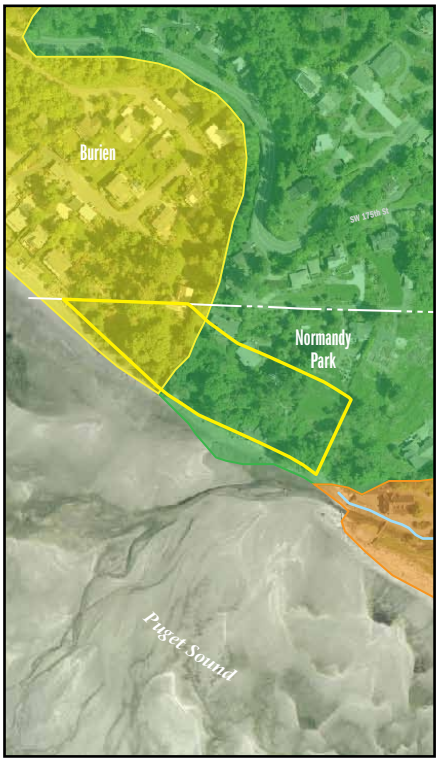
Map created by DNRP GIS/Visual Communications/Web Unit
Data King County Datasets
File 1009npshr36_seg6.ai wgab

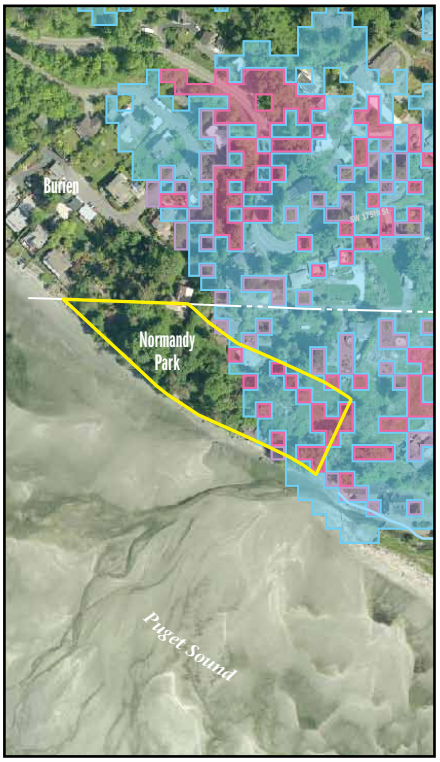
Normandy Park Shoreline Characterization Report

Maps 37a-d

Segment 6 Geologic Features



37a. Liquifaction Susceptibilty



37b. Landslide Hazards

37c. Slopes 25% and Greater

37d. Erosion Hazards

37a. Liquifaction Susceptibilty

- Moderate to High
- Low to Moderate
- Very Low

37b. Landslide Hazards

Potential for Rapid Shallow Landslides

- High
- Moderate
- Low
- Landslides Mapped in 2005

37c. Slopes 25% and Greater

- Slopes ≥ 25%

37d. Erosion Hazards

- Erosion Hazard Areas

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 200 400 Feet

September 2010

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Liquefaction – WADNR 2004; Landslides – Johannessen et al 2005; Predictive Shallow-Rapid Slope Stability – WADNR 2000; Erosion Hazards – King County 1990; 25% Slopes or greater – unpublished KC data, created 2010

File 1009npshr37_seg6geol.ai wgab

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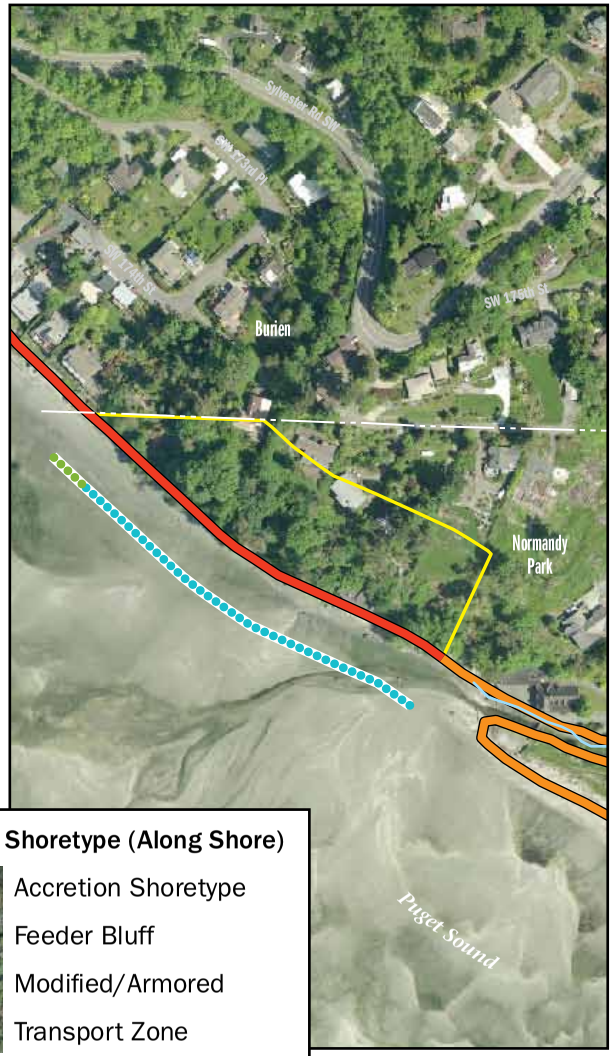
Normandy Park Shoreline Characterization Report

Maps 38a-b

Segment 6 Coastal Features



Current Shoretype (Along Shore)

- Accretion Shoretype
- Feeder Bluff
- Modified/Armored
- Transport Zone

Historic Shoretype (Offset)

- Feeder Bluff
- Feeder Bluff Exceptional
- Potential Feeder Bluff
- Not Feeder Bluff

38a. Current and Historic Shoretype

Map created by DNRP GIS/ Visual Communications/Web Unit

Data King County Datasets; Current Shoretypes and Historic Shoretypes (Johannessen et al 2005);Groins (Anchor Environmental 2004);Boat Ramps (Anchor Environmental 2004); Overwater Structures (Anchor Environmental 2004); Shoreline Armoring (Johannessen et al 2005); Shoreline Armoring At, above or below OHWM (Anchor Environmental 2006)

File 1009npshr38_seg6coast.ai wgab

Shoreline Armoring

- Armor Above Ordinary High Water (OHW)
- Armor at OHW
- Armor Below OHW

- Groin
- Dock
- Ramp

38b. Coastal Features

Segment

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 200 400 Feet

September 2010

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Normandy Park Shoreline Characterization Report

39a. Forage Fish Spawning Areas

39b. Eelgrass Distribution

39c. Riparian Vegetation

39d. Drift Log/Large Woody Debris

Maps 39a-d

Segment 6 Biological Features

39a. Forage Fish Spawning Areas

Spawning Habitat

- Pacific Sand Lance
- Surf Smelt
- Forage Fish Survey Location

39b. Eelgrass Distribution

- Continuous
- Patchy

39c. Riparian Vegetation

Trees

- Dense Overhanging
- Patchy Overhanging
- Dense Not Overhanging
- Patchy Not Overhanging
- Grass

39d. Drift Log/Large Woody Debris

- Drift Log Accumulations
- Large Woody Debris

- Segment
- Associated Wetland
- Incorporated Area Boundary
- Stream

N

0 200 400 Feet

September 2010

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Map created by DNRP GIS/Visual Communications/Web Unit

Data King County Datasets; Forage Fish Spawning Surveys-WDFW 2010; Eelgrass and Kelp-WADNR: Shorezone 2001; Marine Riparian Vegetation–Anchor 2004; Drift Log/LWD–Anchor 2004

File 1009npshr39_seg6biol.ai wgab

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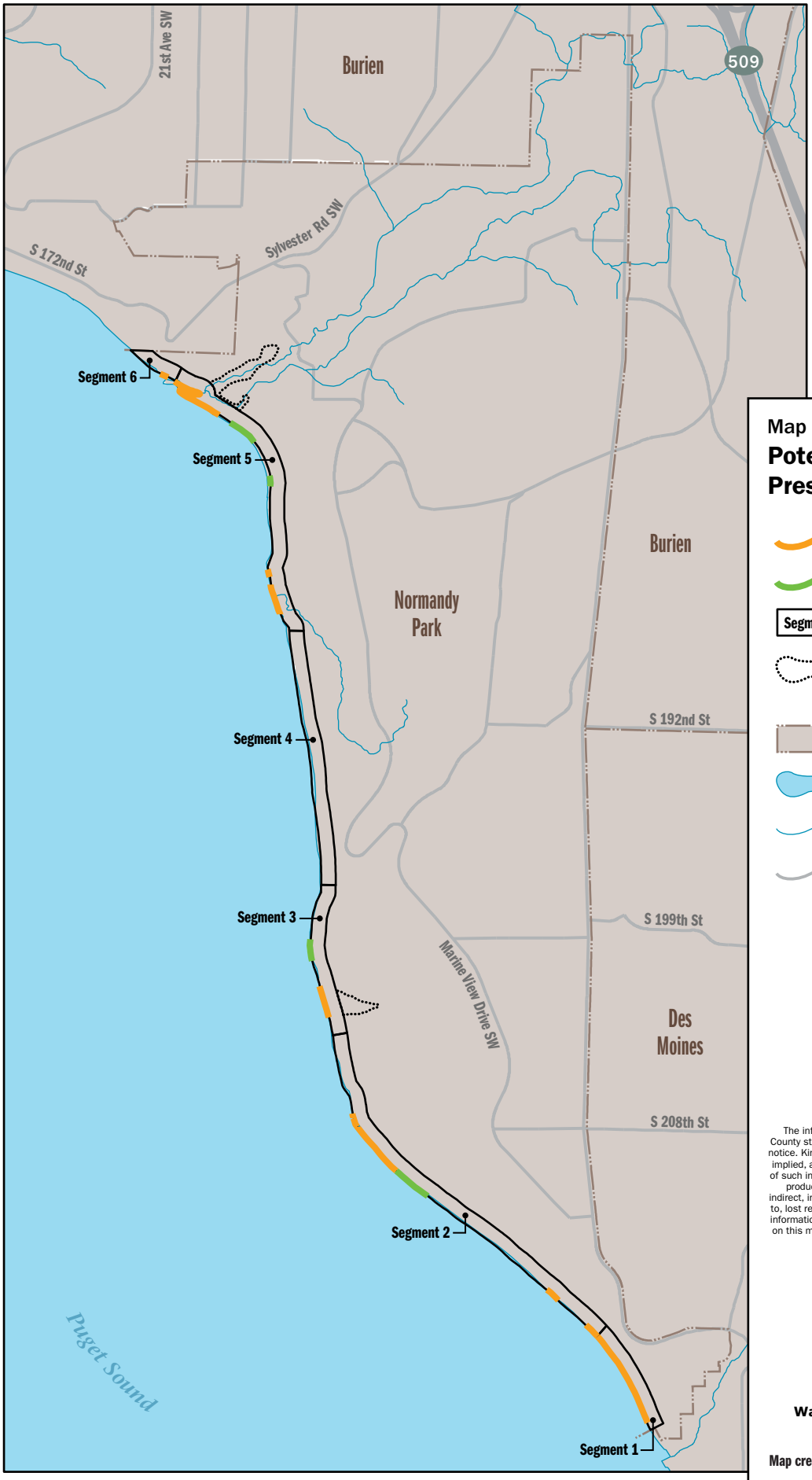
Normandy Park Shoreline Characterization Report



Map 40

Potential Restoration and Preservation Areas

- Restoration Potential
- Preservation Potential
- Segment 1 — Segment and Number
- Associated Wetland
- Incorporated Area
- Puget Sound/Lake
- Stream
- Major Road

N

0 1/4 1/2 Miles

September 2010

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Data King County Datasets
File 1009npshr40_rest_preserv.ai wgab