

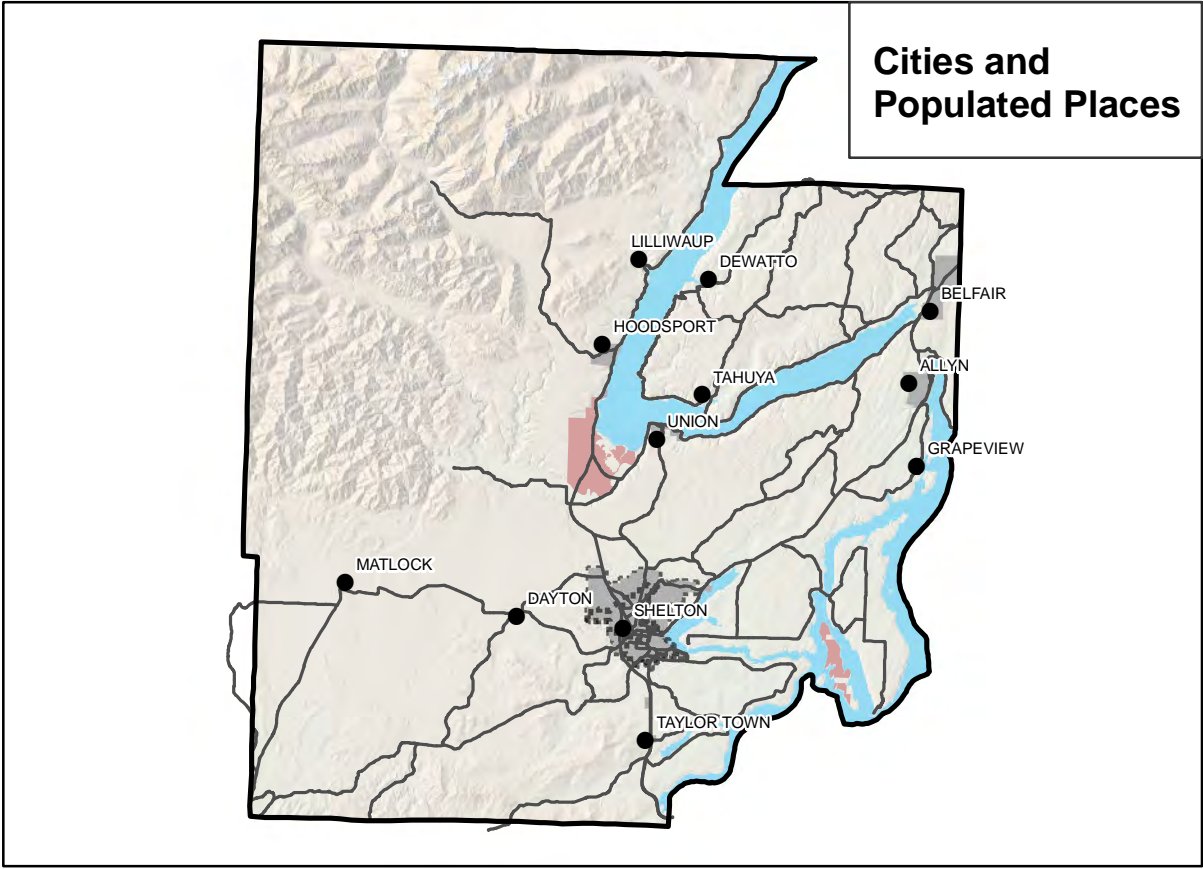
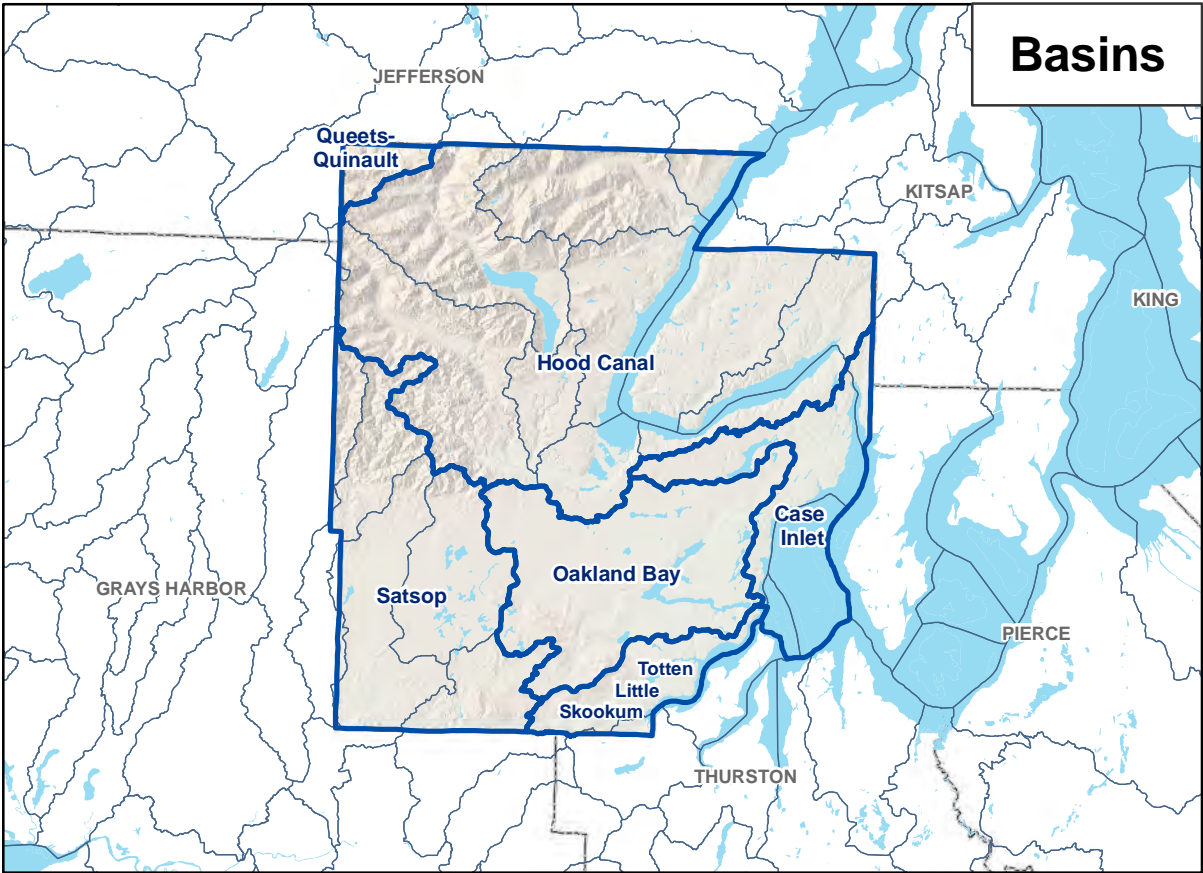
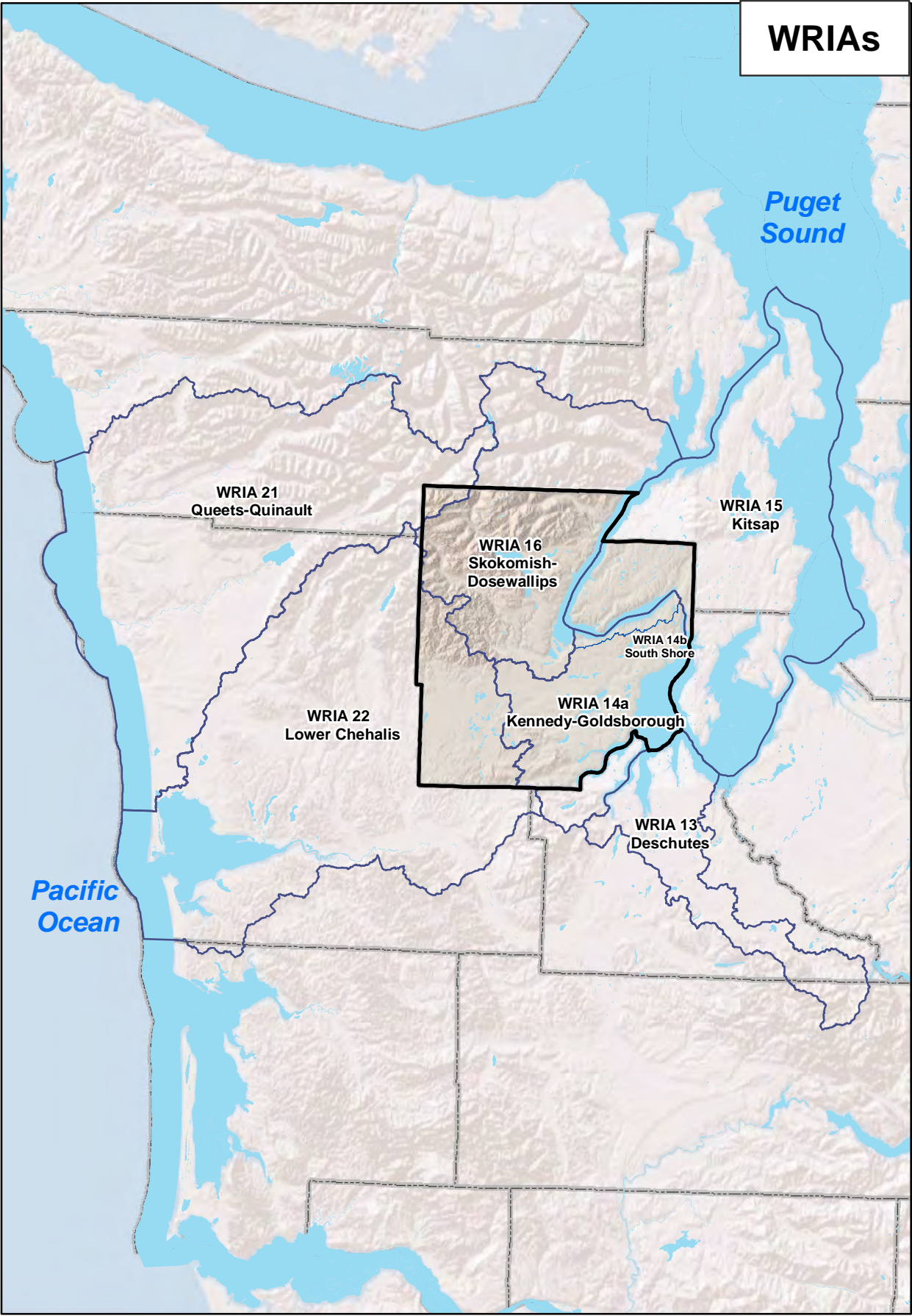
APPENDIX A

MAP FOLIO

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Map 2b.	Freshwater Reach Breaks (Poster)
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Mason County Shoreline Master Program

Map 1: Regional Context



- WRIA Boundaries**
- WRIA Boundaries
- Basins**
- Basins (Mason County)
 - Watershed Area Units (WAUs)
 - Waterbodies
 - County Boundaries
- Cities and Populated Places**
- Place Names
 - Major Roads
 - Indian Reservations
 - Shelton City Limits
 - UGA RAC Hamlet Boundaries

SMA Grant Agreement No. G1100004
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Washington South FIPS 4602

NOTE: Map data shown here are the property of the sources listed below. Inaccuracies may exist, and ESA implies no warranties or guarantees regarding any aspect of data depiction.

Data Sources: Mason County, 2011 (2010); Ecology, 2009 (2000); WDNR, 2007, 2004, (2009).

0 2.5 5 10 Miles Basins Map Scale



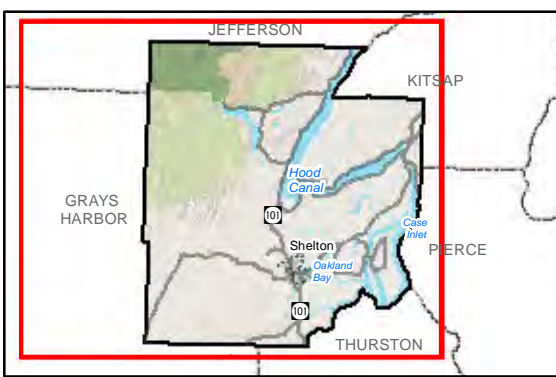
Map 1: Regional Context

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Mason County Shoreline Master Program

Map 2a: Preliminary Shoreline Jurisdiction



- Legend**
- ▲ 20 CFS Upstream Limits (USGS, 1998)
 - Shoreline Planning Area
 - Freshwater Shorelines of Statewide Significance
 - SMP Update Streams
 - SMP Update Waterbodies
 - Shelton City Limits
 - Major Roads
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Railroads
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

This map is intended for planning purposes only. The preliminary shoreline jurisdiction depicts the approximate location and extent of "shorelines of the state". These are the areas potentially subject to the State Shoreline Management Act and Shoreline Master Program. The preliminary shoreline jurisdiction includes the ordinary high water mark (OHWM), a 200' zone from the OHWM, the current regulated FEMA floodplain and any associated wetlands. The actual extent of the shoreline jurisdiction requires a site-specific evaluation to identify the OHWM and any associated wetlands.

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Data Sources: ESA, 2011; Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007; FEMA, 1996.



Map 2a: Preliminary Shoreline Jurisdiction

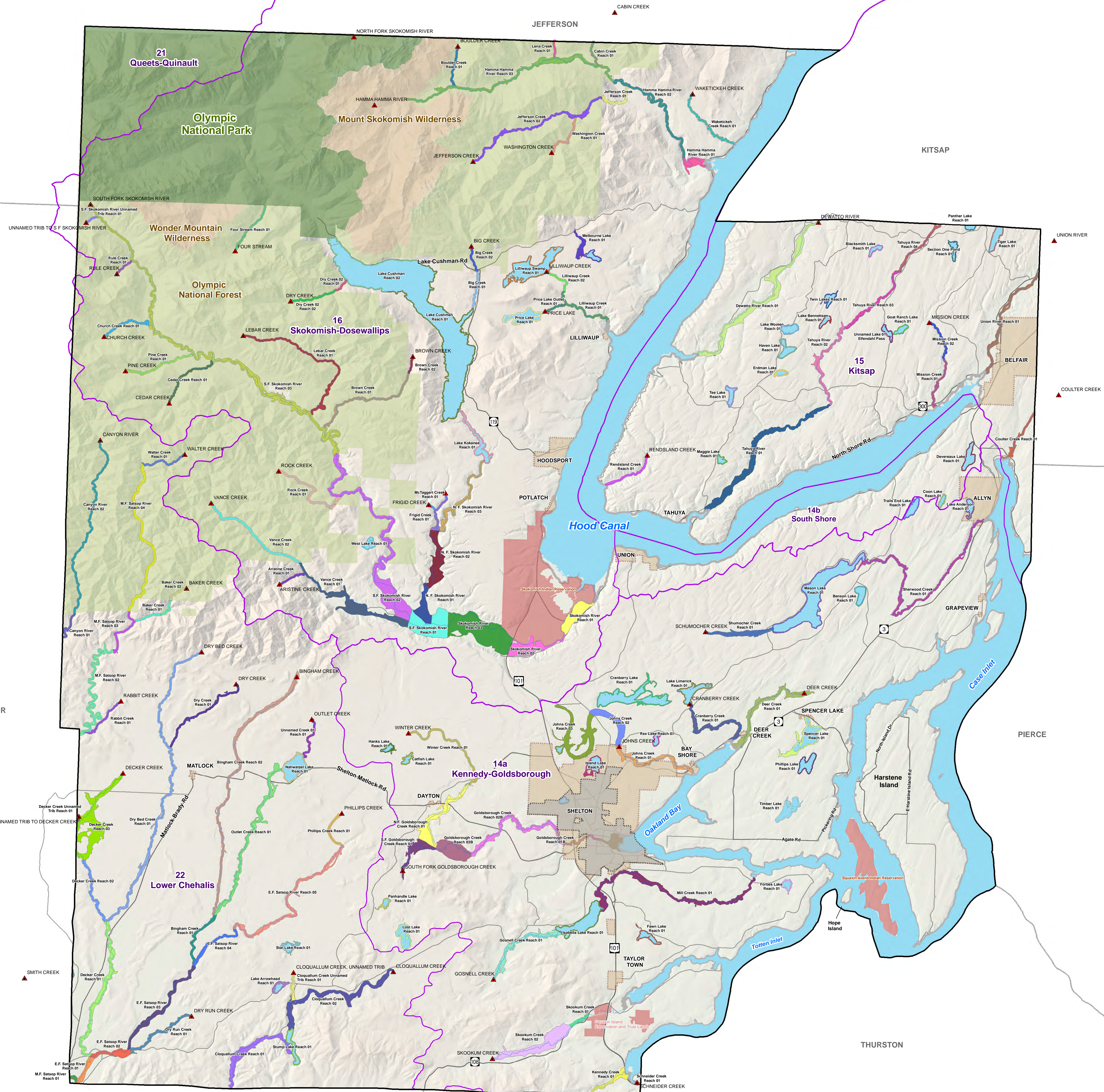
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Mason County Shoreline Master Program - Map 2b: Freshwater SMP Update Reach Breaks



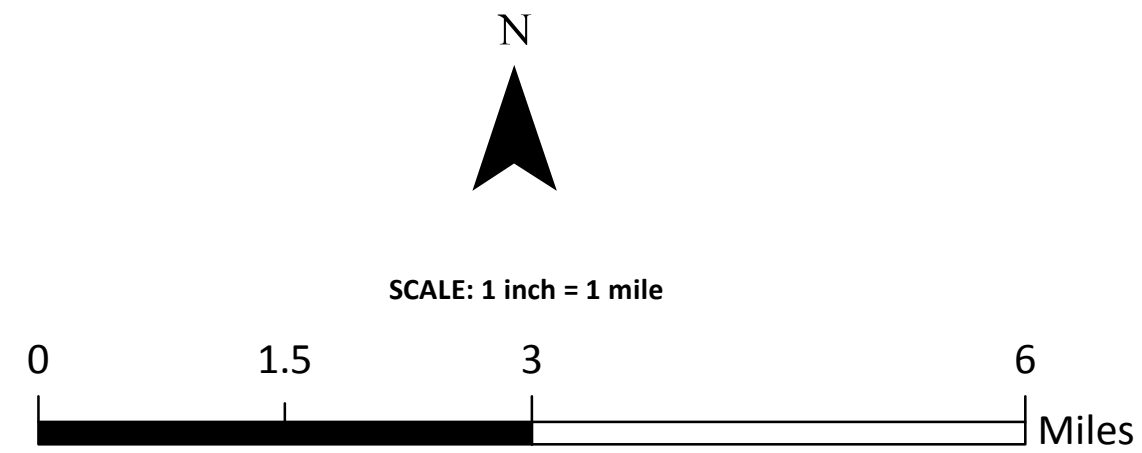
- Legend**
- ▲ 20 cfs upstream limits (USGS, 1998)
 - SMP Update Streams
 - SMP Update Reach Breaks (Various Colors)
 - ▨ Associated Wetlands
 - Major Roads
 - ▭ WRIA Boundary
 - ▭ Shelton City Limits
 - ▭ UGA | Rural Activity Center Boundaries | Hamlets
 - ▭ Indian Reservations
 - ▭ County Boundary
 - Waterbodies
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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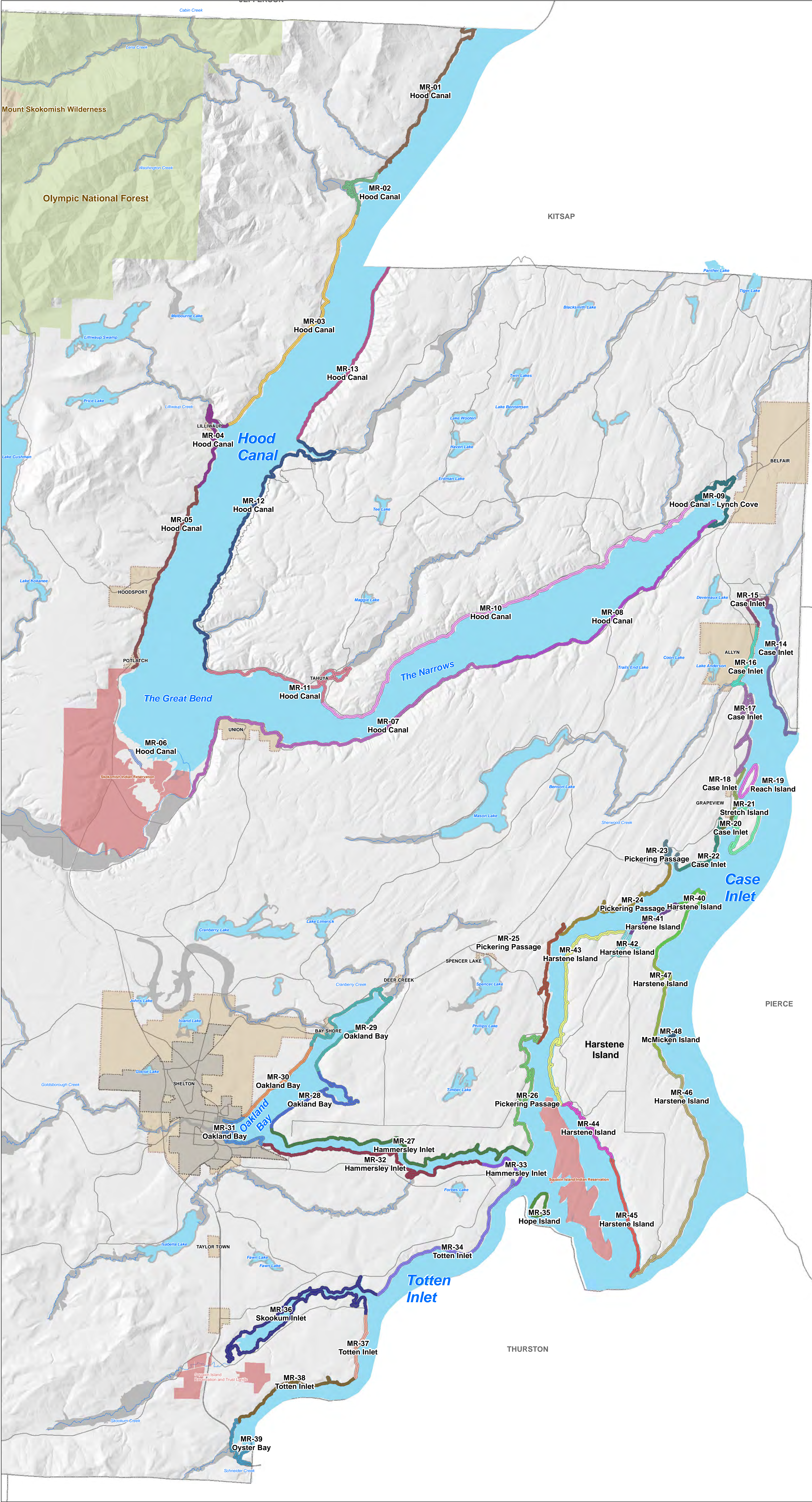
Data Sources: Mason County, 2010 (2006); Ecology, 2009; WDNr, 2007. FEMA, 1998; USFWS, 2009.



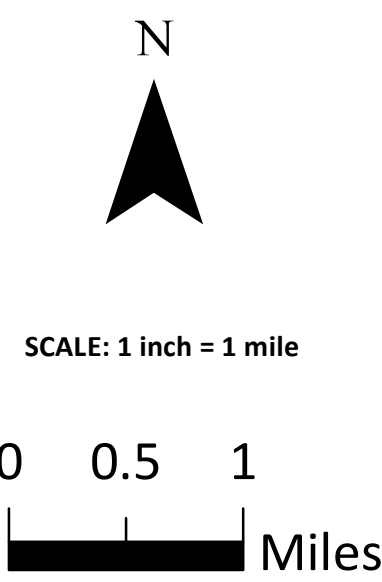
Map 2b
Freshwater SMP Update
Reach Breaks

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- Legend**
- SMP Update Streams
 - SMP Update Reaches (Various Colors)
 - SMP Update Study Area Freshwater
 - Associated Wetlands
 - Major Roads
 - WRIA Boundary
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - County Boundary
 - Waterbodies
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park



Data Sources: Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007.

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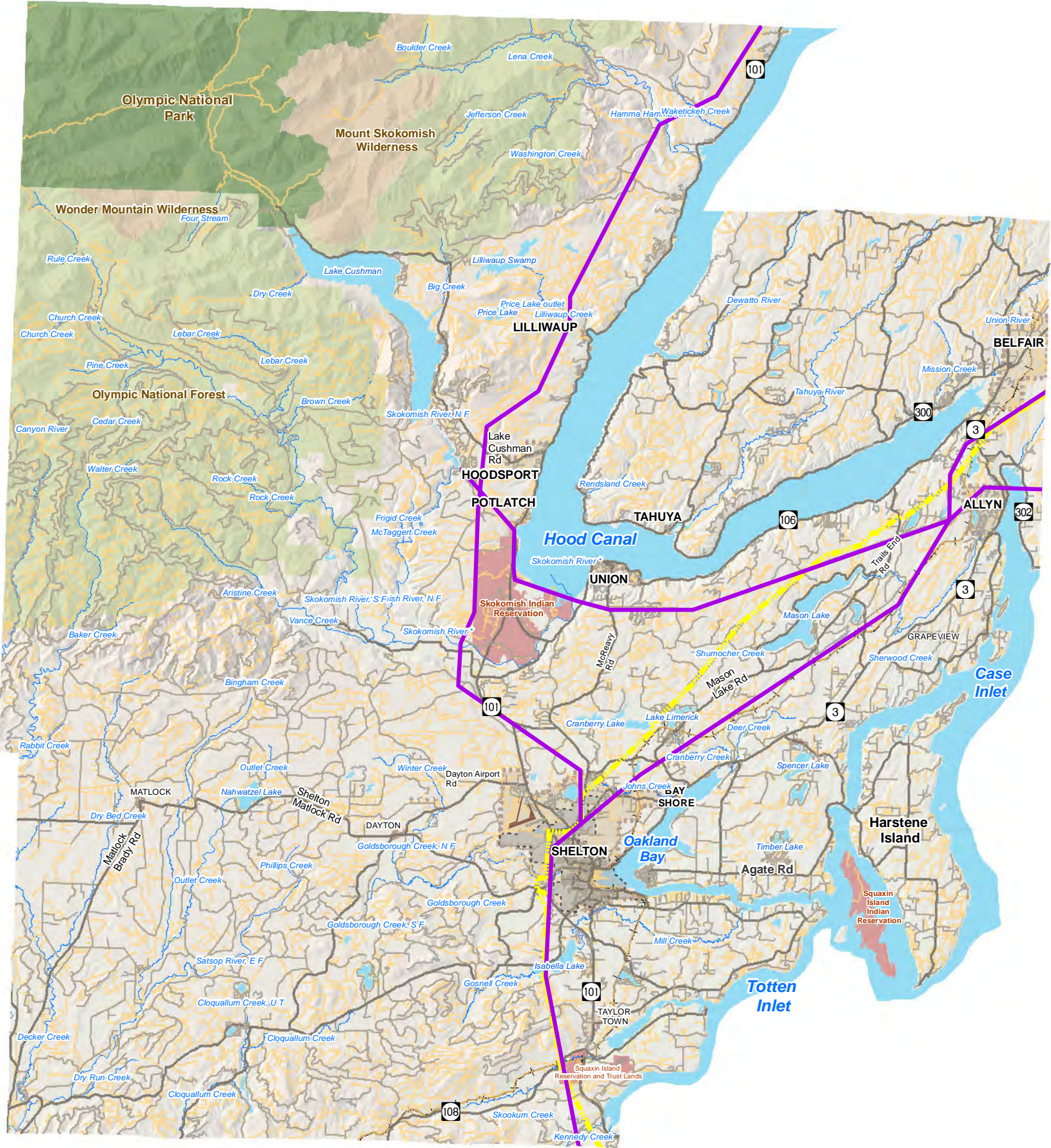
**Map 2c
SMP Update
Marine Reaches**

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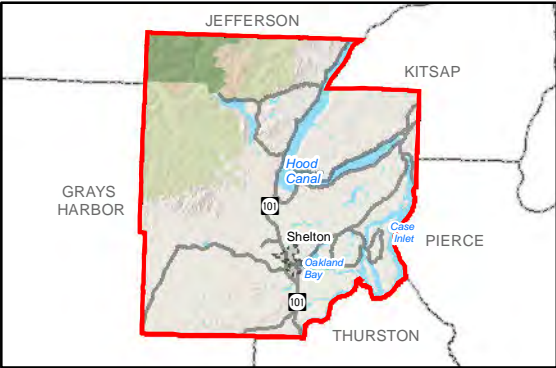
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Map 3: Transportation and Utilities



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- Legend**
- Utility Lines**
- Pipeline (CNG)
 - Electrical Transmission Lines
- Roads**
- Major Roads
 - Minor Roads
 - WDNR Secondary Roads
 - Railroads
 - Shelton Airport
 - SMP Update Streams
 - SMP Update Waterbodies
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2011 (2010)
WUTC, date not known, BPA, date not known WDNR, 2007.



Map 3 : Transportation and Utilities County Scale

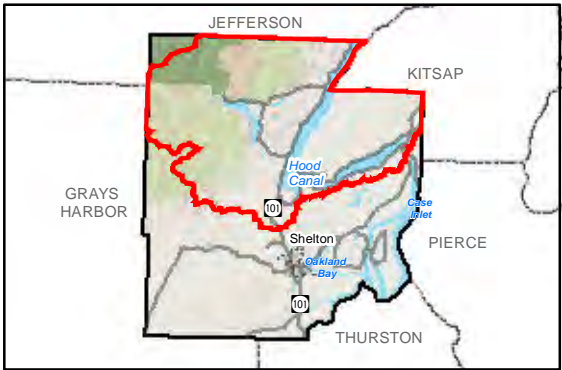
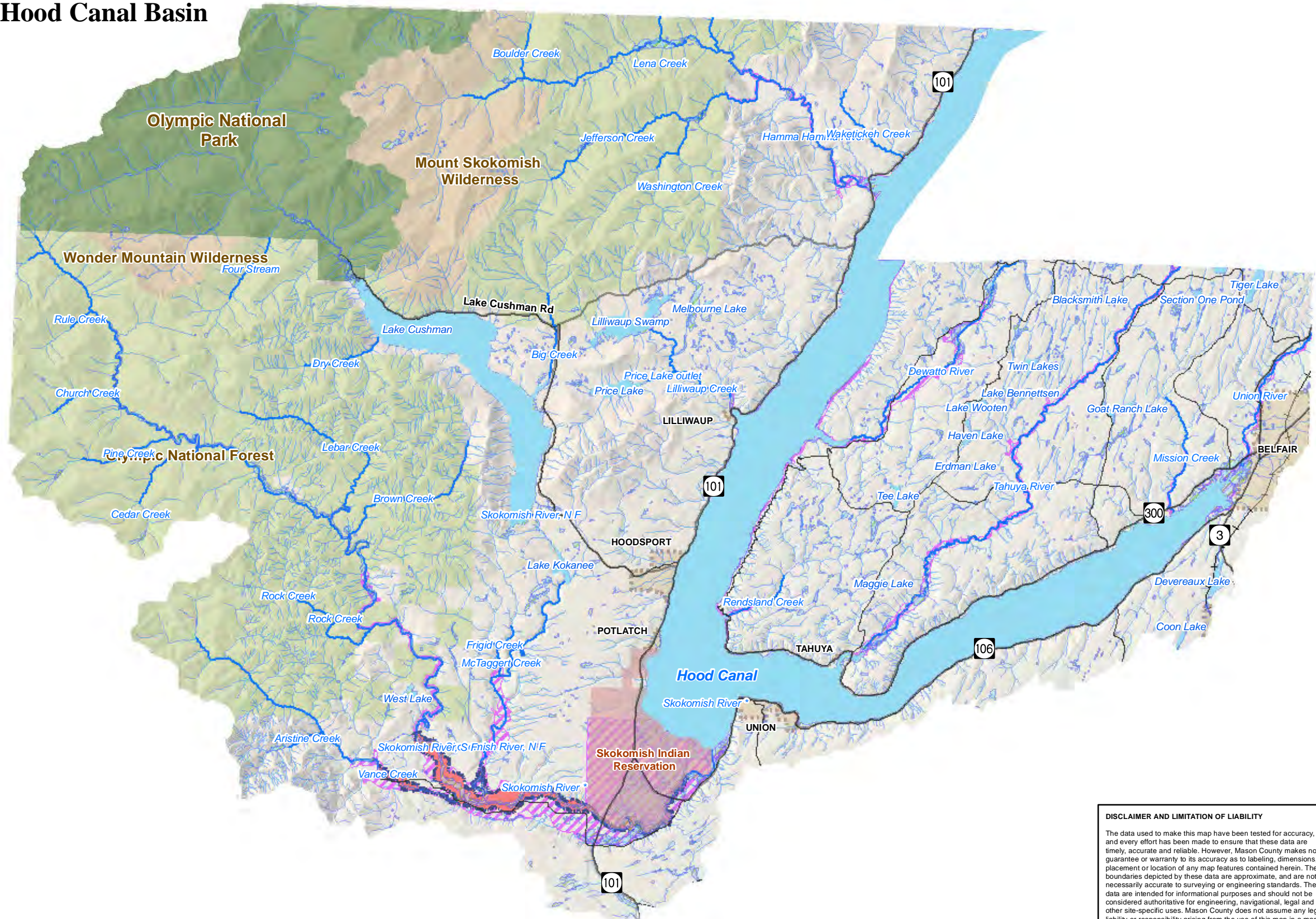
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June 2011

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Mason County Shoreline Master Program

Map 4A: Hydrology

Hood Canal Basin



- Legend**
- SMP Update Streams
 - Detailed hydrography
 - SMP Update Waterbodies
 - NWI Wetlands
 - Channel Migration Zones (Skokomish Only)
 - Channel Migration Zone Areas
 - 1% Chance Annual Flood (1998)
 - Major Roads
 - Rail
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Shelton City Limits
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

NOTE ABOUT FEMA FLOOD MAPPING
The FEMA (1998) floodplain data displayed in this map has some registration errors inherent to this dataset. In some places, the FEMA dataset does not properly align with the streams layer. We are aware of this issue regarding this layer.

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: FEMA, 1998 (1% Chance Annual Flood); GeoEngineers, 2006 (CMZs); Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007 (2004).



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Map 4A: Hydrology
Hood Canal Basin

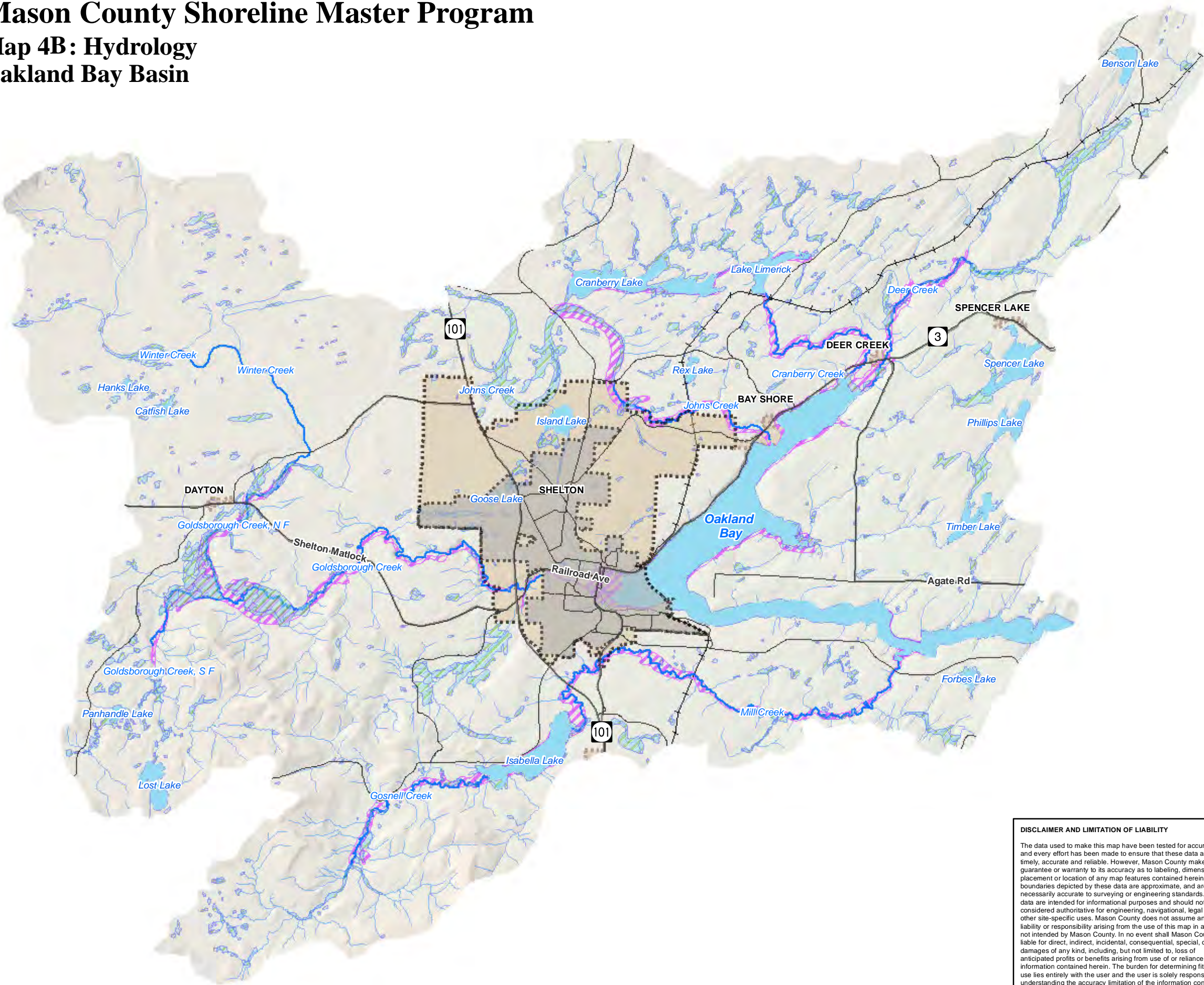
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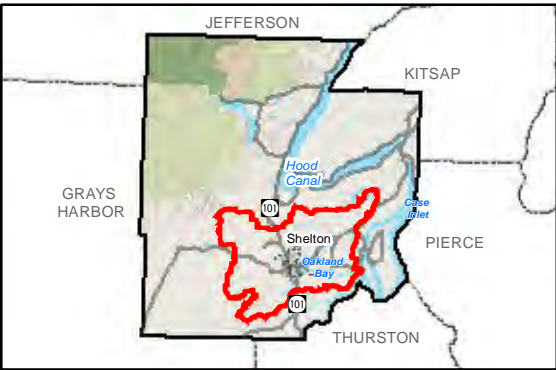
Map 4B: Hydrology

Oakland Bay Basin



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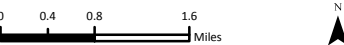
- Legend**
- SMP Update Streams
 - Detailed hydrography
 - SMP Update Waterbodies
 - NWI Wetlands
 - Channel Migration Zones (Skokomish Only)
 - Channel Migration Zone Areas
 - 1% Chance Annual Flood (1998)
- NOTE ABOUT FEMA FLOOD MAPPING**
The FEMA (1998) floodplain data displayed in this map has some registration errors inherent to this dataset. In some places, the FEMA dataset does not properly align with the streams layer. We are aware of this issue regarding this layer.
- Major Roads
 - Rail
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Shelton City Limits
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: FEMA, 1998 (1% Chance Annual Flood); GeoEngineers, 2006 (CMZs); Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007 (2004).



Map 4B: Hydrology

Oakland Bay Basin

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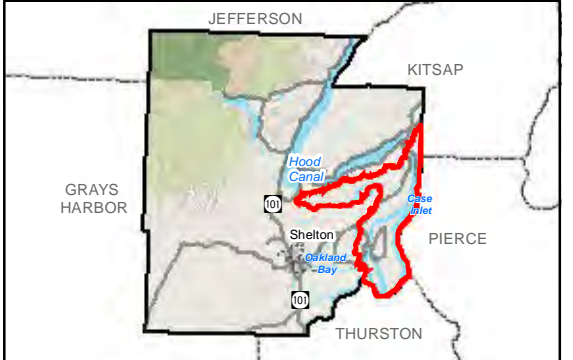
Map 4C: Hydrology

Case Inlet Basin



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Legend

- SMP Update Streams
- Detailed hydrography
- SMP Update Waterbodies
- NWI Wetlands
- Channel Migration Zones (Skokomish Only)
- Channel Migration Zone Areas
- 1% Chance Annual Flood (1998)

NOTE ABOUT FEMA FLOOD MAPPING
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- Major Roads
- Rail
- UGA | Rural Activity Center Boundaries | Hamlets
- Shelton City Limits
- Indian Reservations
- Wilderness Areas
- Olympic National Forest
- Olympic National Park

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Data Sources: FEMA, 1998 (1% Chance Annual Flood); GeoEngineers, 2006 (CMZs); Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007 (2004).

0 0.5 1 2 Miles

N



Map 4C: Hydrology

Case Inlet Basin

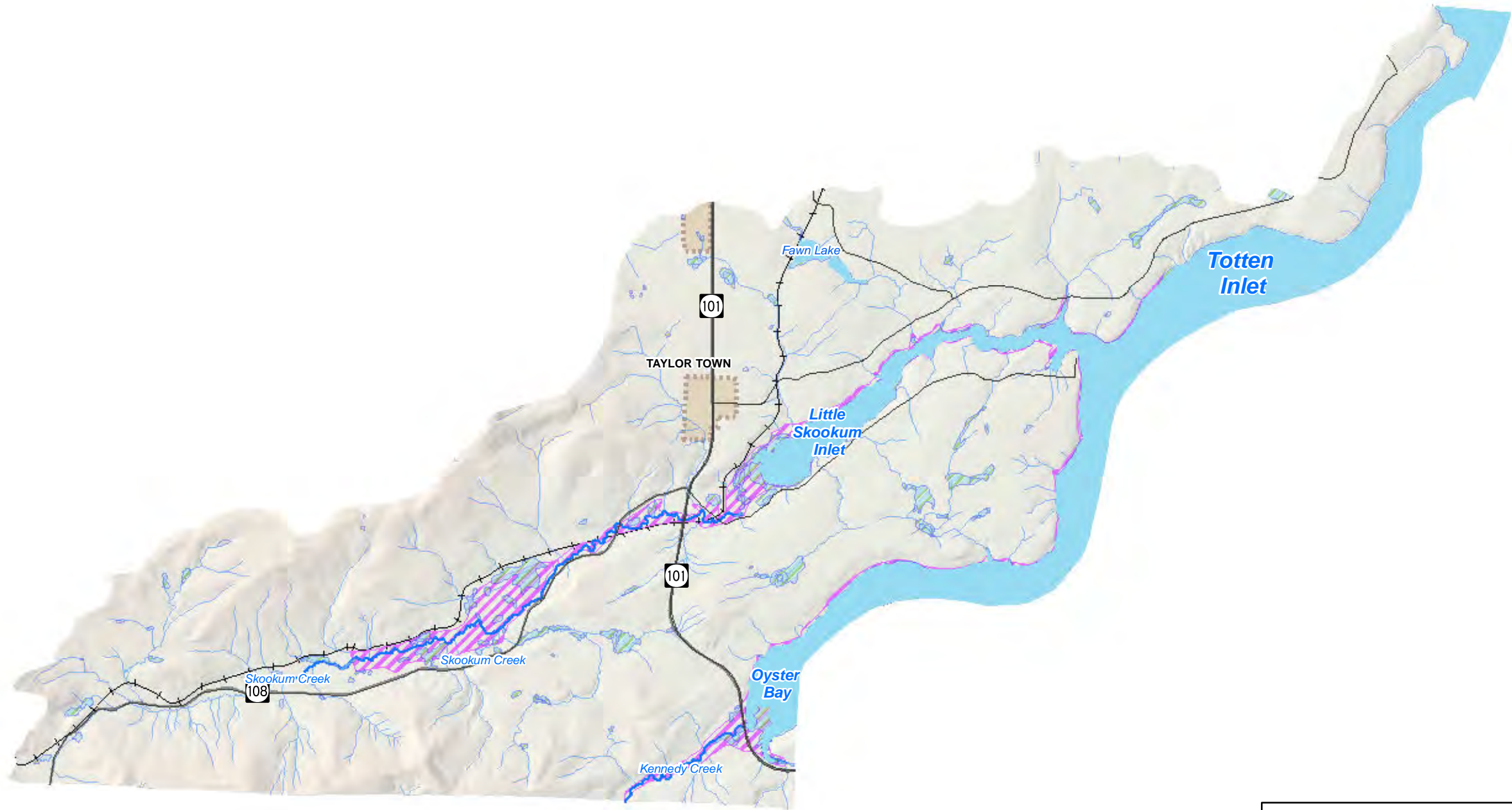
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Map 4D: Hydrology

Totten Little Skookum Basin



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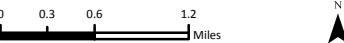
- Legend**
- SMP Update Streams
 - Detailed hydrography
 - SMP Update Waterbodies
 - NWI Wetlands
 - Channel Migration Zones (Skokomish Only)
 - Channel Migration Zone Areas
 - 1% Chance Annual Flood (1998)
- NOTE ABOUT FEMA FLOOD MAPPING**
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- Major Roads
 - Rail
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Shelton City Limits
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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Coordinate System: State Plane NAD1983 (Ft)
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Map 4D: Hydrology

Totten Little Skookum Basin

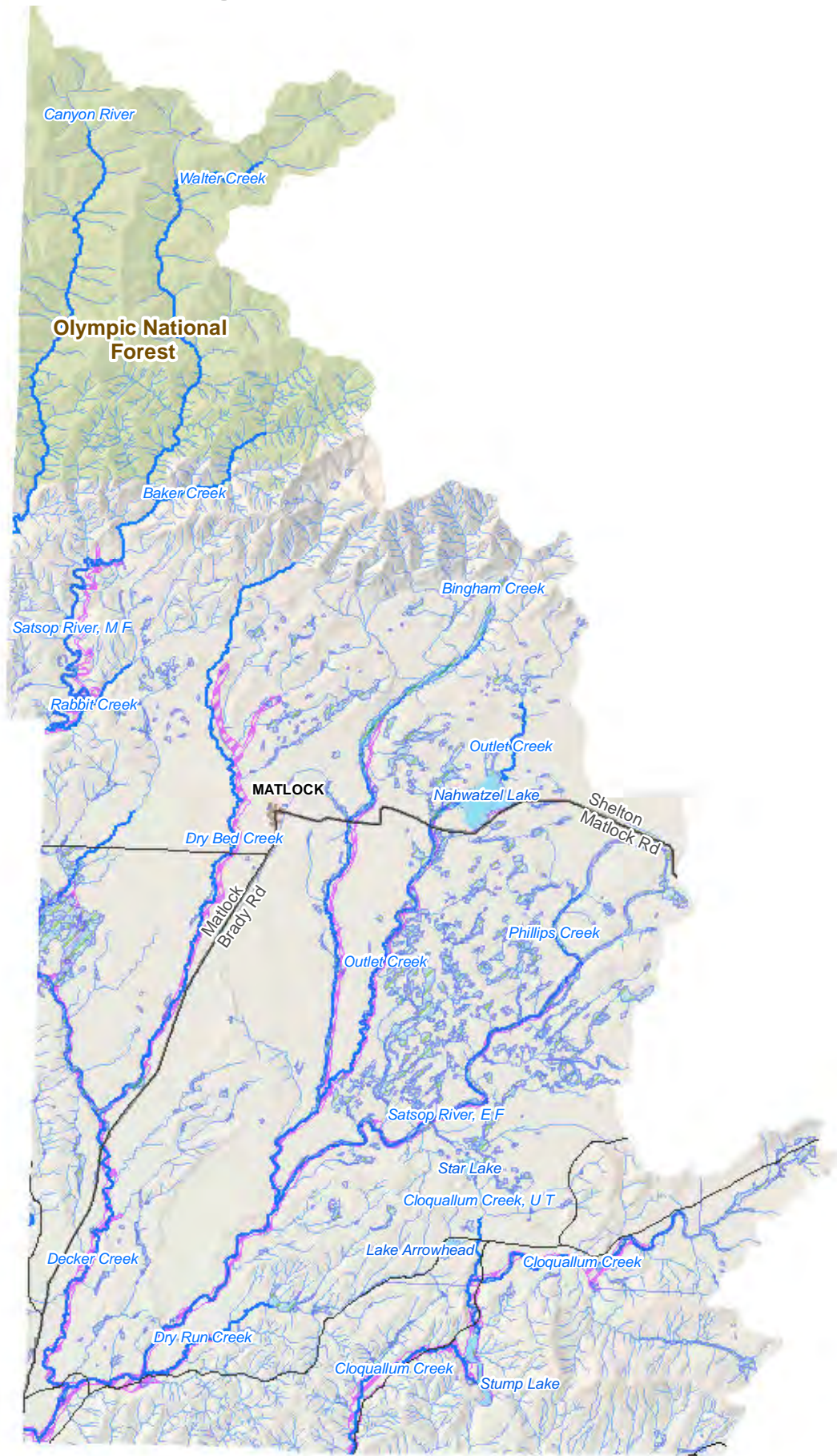
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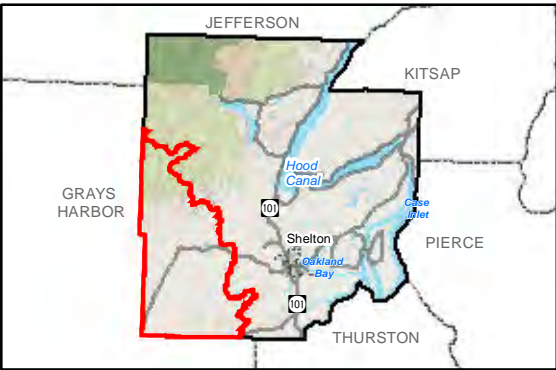
Map 4E: Hydrology

Satsop Basin



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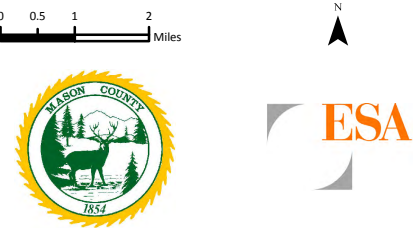
- Legend**
- SMP Update Streams
 - Detailed hydrography
 - SMP Update Waterbodies
 - NWI Wetlands
 - Channel Migration Zones (Skokomish Only)
 - Channel Migration Zone Areas
 - 1% Chance Annual Flood (1998)
- NOTE ABOUT FEMA FLOOD MAPPING**
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- Major Roads
 - Rail
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Shelton City Limits
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
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Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: FEMA, 1998 (1% Chance Annual Flood); GeoEngineers, 2006 (CMZs); Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007 (2004).



Map 4E: Hydrology

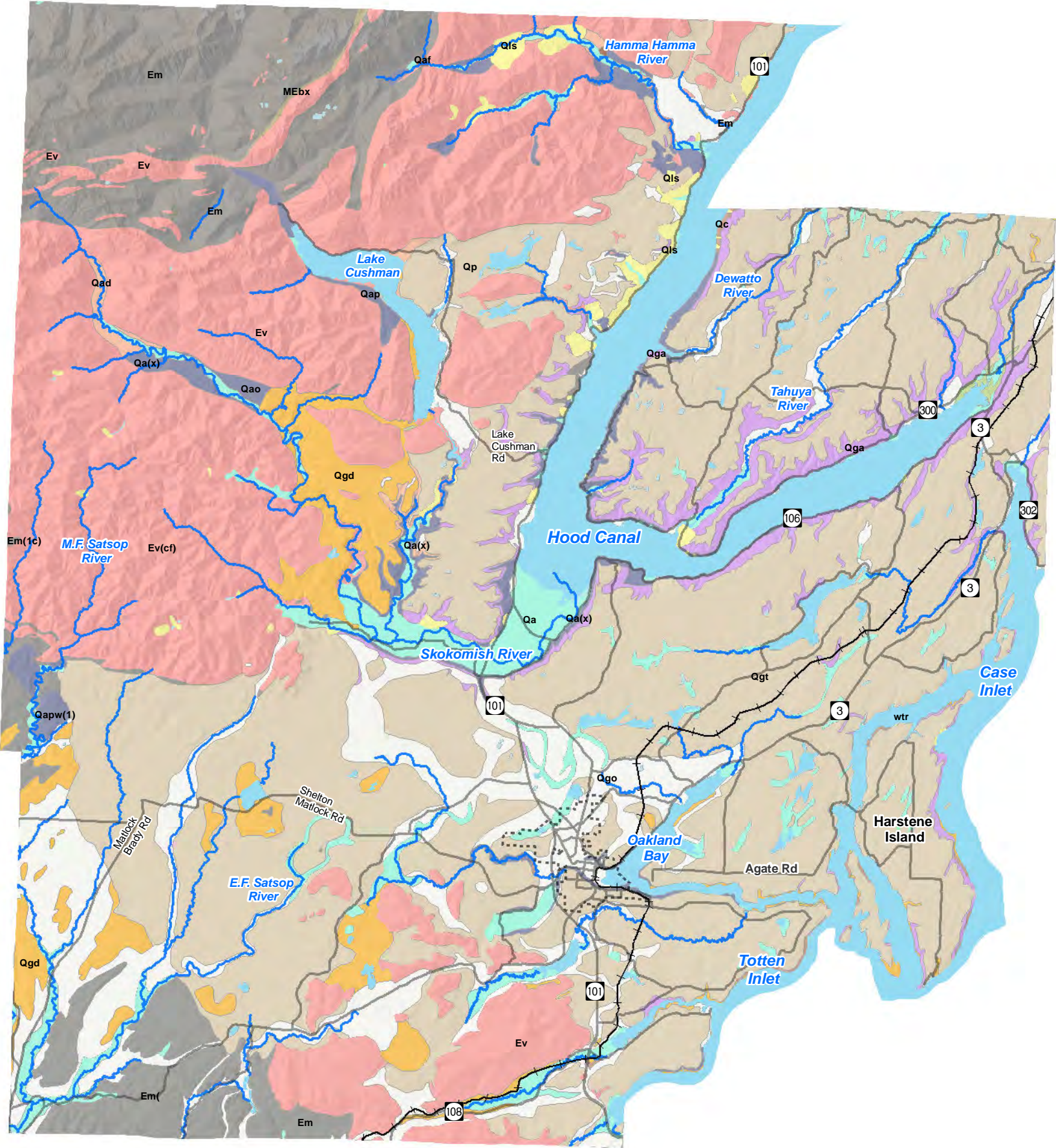
Satsop Basin

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June 2011

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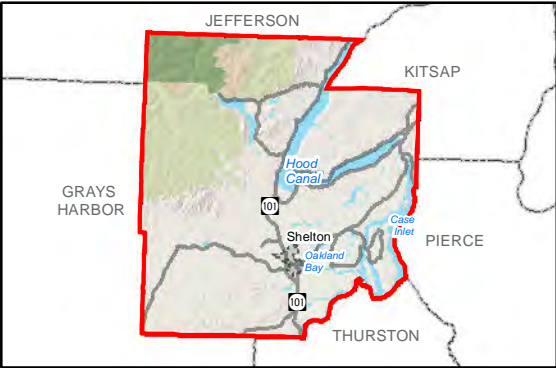
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Map 5: Geologic Formations



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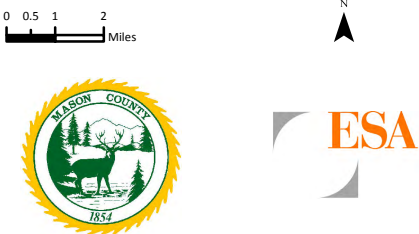
- Legend**
- Geologic Formations
- Geology (WDNR 100k scale)
- Em - Marine Sedimentary Rocks
 - Ev - basalt flows and flow breccias
 - MEbx - tectonic breccia
 - Qa - alluvium
 - Qad - alpine glacial drift, Fraser-age
 - Qaf - alluvial fan deposits
 - Qa(x) - alpine glacial outwash
 - Qc - continental sedimentary deposits or rocks
 - Qga - advance continental glacial outwash
 - Qgd - continental glacial drift
 - Qgo - continental glacial outwash
 - Qgt - continental glacial till
 - Qls - mass-wasting deposits, mostly landslides
 - Qp - peat deposits
 - wtr - water
- Major Roads
- SMP Update Waterbodies
- Rail
- Shelton City Limits

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Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

NOTE: Map data shown here are the property of the sources listed below. Inaccuracies may exist, and ESA implies no warranties or guarantees regarding any aspect of data depiction.

Data Sources: WDNR, 2010 (100k surficial geology);
Mason County, 2010 (2006); Ecology, 2009.



Map 5 : Geologic Formations County Scale

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Map 6: Soil Hydrologic Classes



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- Legend**
- Soil Hydrologic Classes**
- Hydrologic Classification**
- A - High Infiltration Rate
 - B - Moderate Infiltration Rate
 - C - Low to Moderate Infiltration Rate
 - D - Low Infiltration Rate
- SMP Update Streams
- SMP Update Waterbodies
- Major Roads
- Railroads
- Shelton City Limits

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

NOTE: Map data shown here are the property of the sources listed below. Inaccuracies may exist, and ESA implies no warranties or guarantees regarding any aspect of data depiction.

Data Sources: NRCS, 2003; USFS (Soils), 1999
Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007



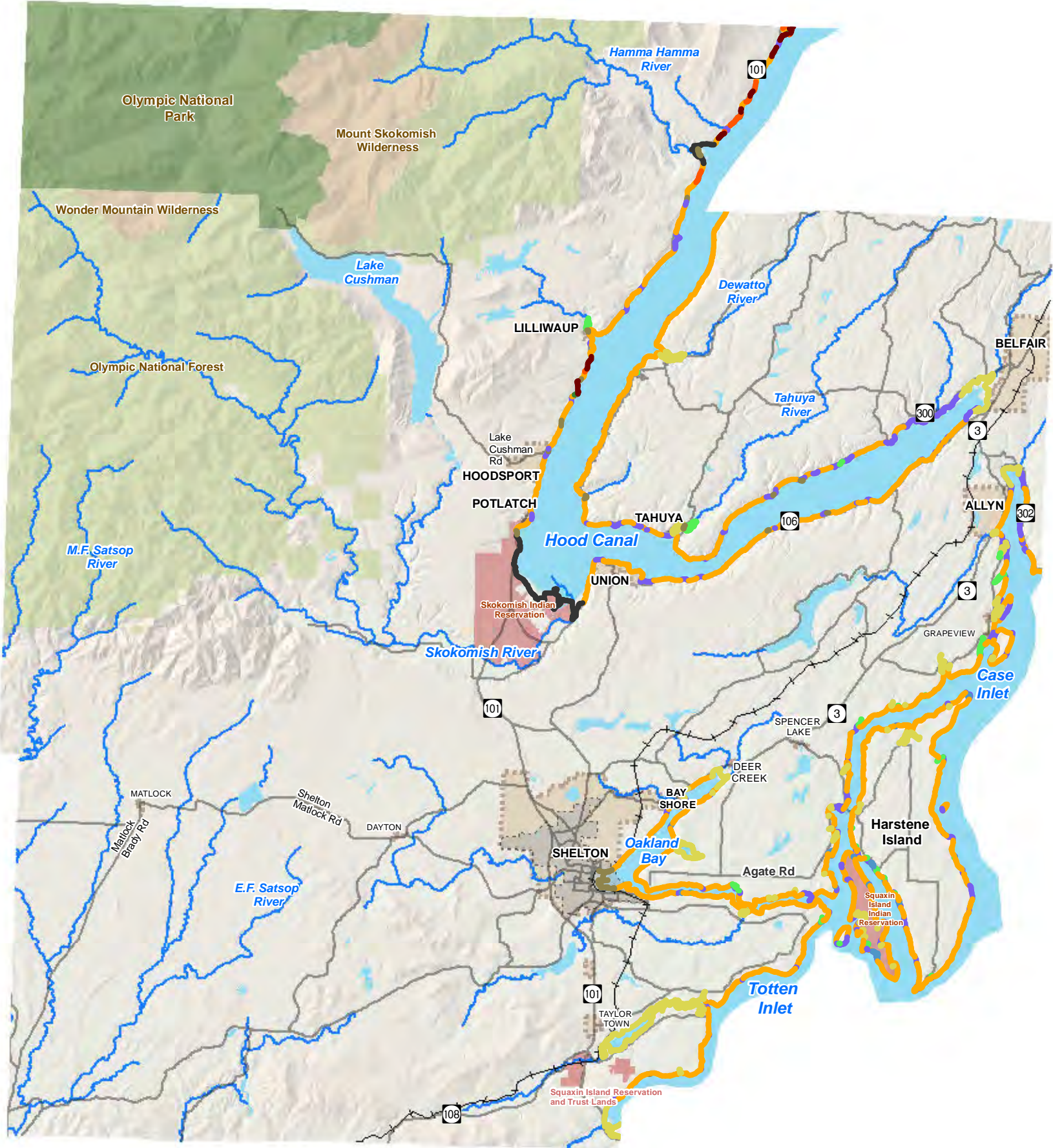
Map 6: Soil Hydrologic Classes County Scale

Mason County
Shoreline Master Program
June 2011

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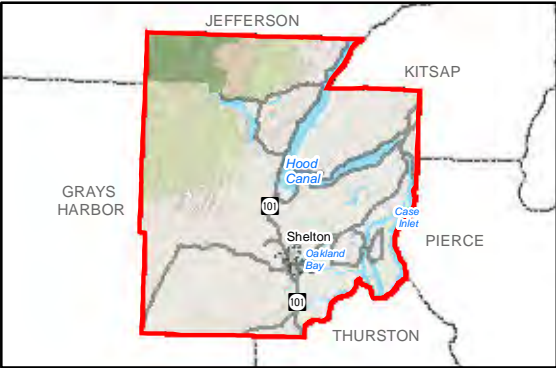
Mason County Shoreline Master Program

Map 7: Coastal Shoreform Types



DISCLAIMER AND LIMITATION OF LIABILITY

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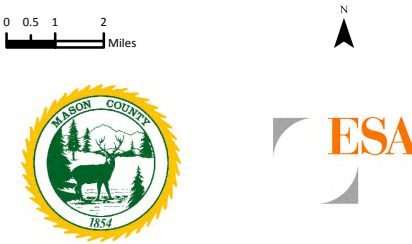
- Legend**
- Coastal Shoreform Type**
- Artificial
 - Barrier Beach
 - Barrier Estuary
 - Barrier Lagoon
 - Bluff-Backed Beach
 - Closed Lagoon Marsh
 - Delta
 - Open Coastal Inlet
 - Pocket Beach
 - Plunging Rocky Shoreline
 - Rocky Platform
 - SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Railroads
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: PSNERP, 2009, Mason County, 2010 (2008); Ecology, 2009, WDNR, 2007.



Map 7: Coastal Shoreform Types (PSNERP)

County Scale

Mason County Shoreline Master Program

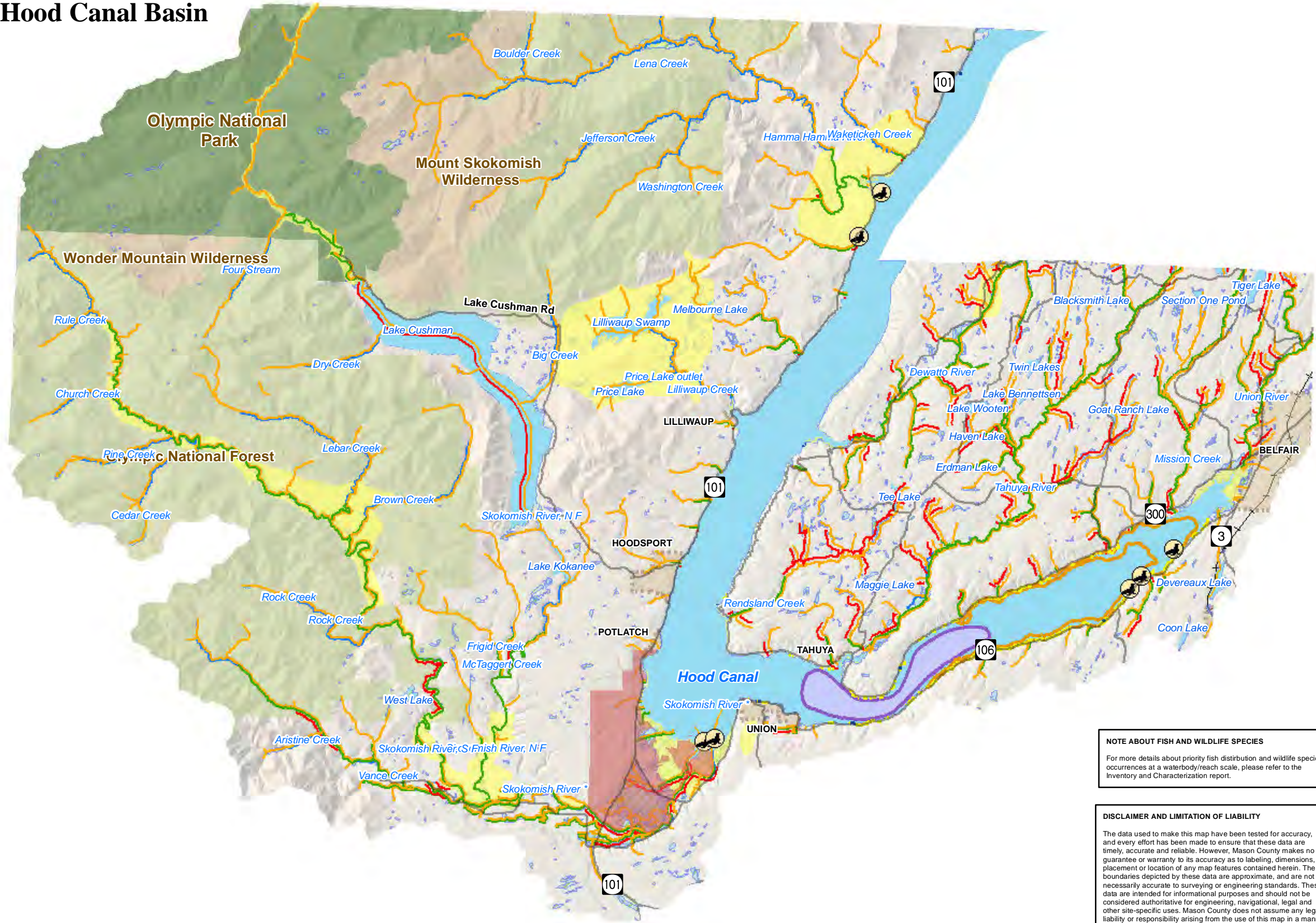
June 2011

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Mason County Shoreline Master Program

Map 8A: Fish & Wildlife and Habitat Areas

Hood Canal Basin

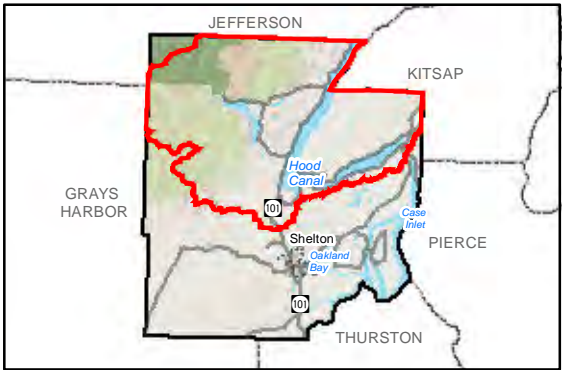


NOTE ABOUT FISH AND WILDLIFE SPECIES

For more details about priority fish distribution and wildlife species occurrences at a waterbody/reach scale, please refer to the Inventory and Characterization report.

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Legend

Priority Habitats and Species Polygons

Priority Wildlife Species in Mason County include: Bald Eagle, Band-tailed Pigeon, Common Goldeneye, Elk, Harbor Seal, Harlequin Duck, Mink, Mountain Quail, Pacific Pond Turtle, Pileated Woodpecker, Roosevelt Elk, Shorebird Concentrations, Waterfowl Concentrations and Wood Duck.

Anadromous and Freshwater Fish Distribution

Priority Fish Species Include: Dolly Varden/Bull Trout, Chinook Salmon, Chum Salmon, Coast Resident Cutthroat, Coho Salmon, Kokanee Salmon, Pink Salmon, Rainbow Trout, Sockeye and Steelhead Trout

Use	Description
Red line	Known Juvenile Rearing
Green line	Known Spawning
Orange line	Presence/Migration

Priority Marine Fish Species

- Documented Sand Lance Spawning Areas
- Documented Smelt Spawning Areas
- Rocksolt Spawning Areas
- Pacific Herring Spawning Areas
- Pacific Herring Adult Holding Areas
- Wetlands (NWI)
- SMP Update Waterbodies
- Shelton City Limits
- UGA | Rural Activity Center Boundaries | Hamlets
- Rail
- Major Roads

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: WDFW (PHS), 2010; Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007.



Map 8A: Fish & Wildlife Habitat Areas

Hood Canal Basin

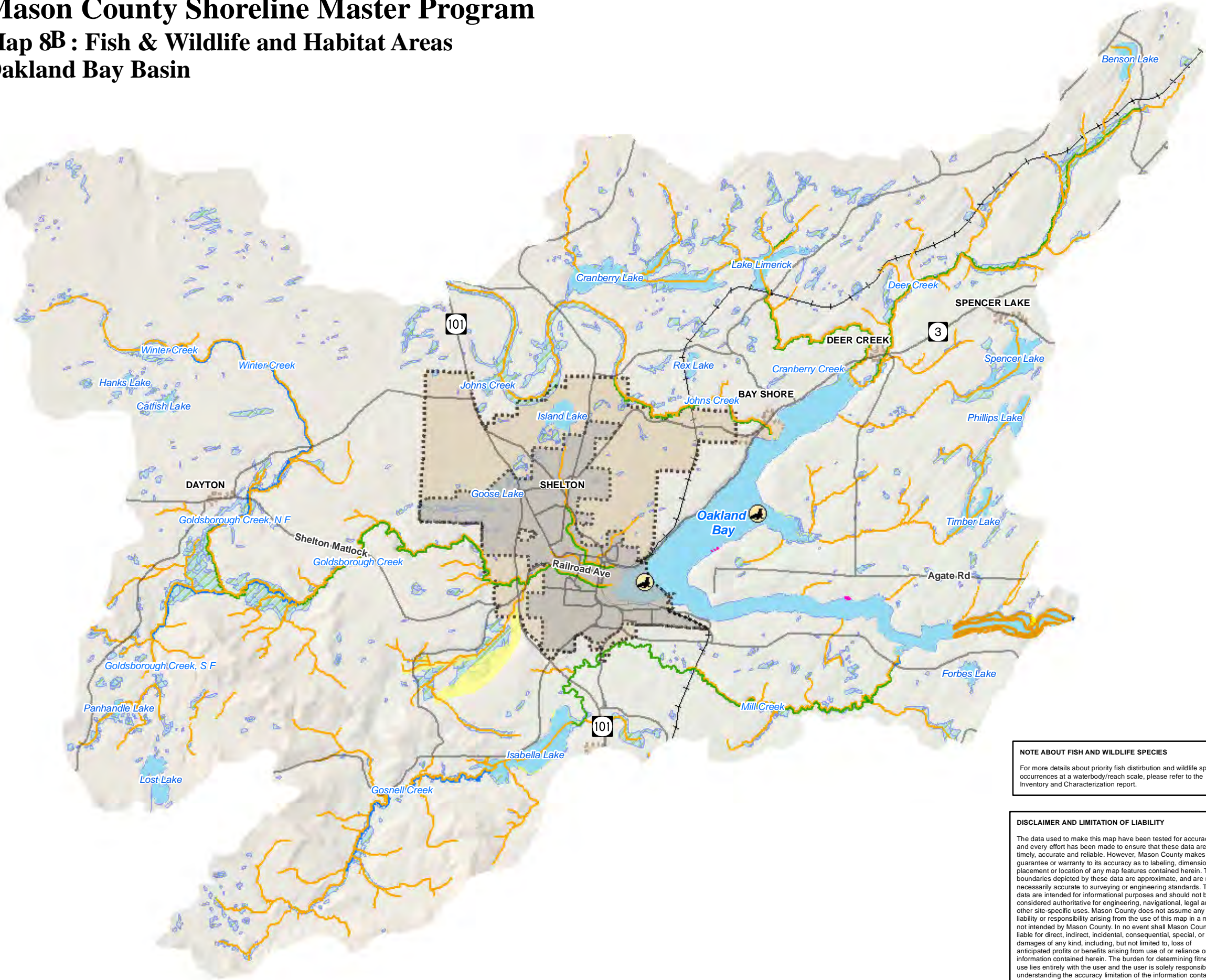
Mason County
Shoreline Master Program
June 2011

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Mason County Shoreline Master Program

Map 8B : Fish & Wildlife and Habitat Areas

Oakland Bay Basin

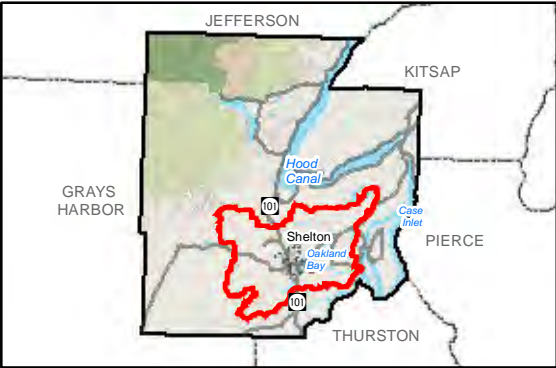


NOTE ABOUT FISH AND WILDLIFE SPECIES

For more details about priority fish distribution and wildlife species occurrences at a waterbody/reach scale, please refer to the Inventory and Characterization report.

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- Legend**
- Priority Habitats and Species Polygons**
- Priority Wildlife Species in Mason County include: Bald Eagle, Band-tailed Pigeon, Common Goldeneye, Elk, Harbor Seal, Harlequin Duck, Mink, Mountain Quail, Pacific Pond Turtle, Pileated Woodpecker, Roosevelt Elk, Shorebird Concentrations, Waterfowl Concentrations and Wood Duck.
- Marine Mammal Haulouts**
- Anadromous and Freshwater Fish Distribution**
- Priority Fish Species Include: Dolly Varden/Bull Trout, Chinook Salmon, Chum Salmon, Coast Resident Cutthroat, Coho Salmon, Kokanee Salmon, Pink Salmon, Rainbow Trout, Sockeye and Steelhead Trout
- Use Description**
- Known Juvenile Rearing
 - Known Spawning
 - Presence/Migration

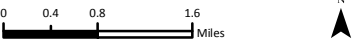
- Priority Marine Fish Species**
- Documented Sand Lance Spawning Areas
 - Documented Smelt Spawning Areas
 - Rocksolt Spawning Areas
 - Pacific Herring Spawning Areas
 - Pacific Herring Adult Holding Areas
 - Wetlands (NW1)
 - SMP Update Waterbodies
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Rail
 - Major Roads

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: WDFW (PHS), 2010; Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007.



Map 8B : Fish & Wildlife Habitat Areas

Oakland Bay Basin

Mason County
Shoreline Master Program
June 2011

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Mason County Shoreline Master Program

Map 8C: Fish & Wildlife and Habitat Areas

Case Inlet Basin



NOTE ABOUT FISH AND WILDLIFE SPECIES

For more details about priority fish distribution and wildlife species occurrences at a waterbody/reach scale, please refer to the Inventory and Characterization report.

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- Legend**
- Priority Habitats and Species Polygons**
- Priority Wildlife Species in Mason County include: Bald Eagle, Band-tailed Pigeon, Common Goldeneye, Elk, Harbor Seal, Harlequin Duck, Mink, Mountain Quail, Pacific Pond Turtle, Pileated Woodpecker, Roosevelt Elk, Shorebird Concentrations, Waterfowl Concentrations and Wood Duck.
- Marine Mammal Haulouts**
- Anadromous and Freshwater Fish Distribution**
- Priority Fish Species Include: Dolly Varden/Bull Trout, Chinook Salmon, Chum Salmon, Coast Resident Cutthroat, Coho Salmon, Kokanee Salmon, Pink Salmon, Rainbow Trout, Sockeye and Steelhead Trout
- | Use Description |
|------------------------|
| Known Juvenile Rearing |
| Known Spawning |
| Presence/Migration |
- Priority Marine Fish Species**
- Documented Sand Lance Spawning Areas
 - Documented Smelt Spawning Areas
 - Rocksole Spawning Areas
 - Pacific Herring Spawning Areas
 - Pacific Herring Adult Holding Areas
 - Wetlands (NWI)
 - SMP Update Waterbodies
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Rail
 - Major Roads

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: WDFW (PHS), 2010; Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007.



Map 8C: Fish & Wildlife Habitat Areas

Case Inlet Basin

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Shoreline Master Program
June 2011

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Mason County Shoreline Master Program

Map 8D: Fish & Wildlife and Habitat Areas

Totten Little Skookum Basin



NOTE ABOUT FISH AND WILDLIFE SPECIES

For more details about priority fish distribution and wildlife species occurrences at a waterbody/reach scale, please refer to the Inventory and Characterization report.

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- Legend**
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- Priority Wildlife Species in Mason County include: Bald Eagle, Band-tailed Pigeon, Common Goldeneye, Elk, Harbor Seal, Harlequin Duck, Mink, Mountain Quail, Pacific Pond Turtle, Pileated Woodpecker, Roosevelt Elk, Shorebird Concentrations, Waterfowl Concentrations and Wood Duck.
- Marine Mammal Haulouts
- Anadromous and Freshwater Fish Distribution**
- Priority Fish Species Include: Dolly Varden/Bull Trout, Chinook Salmon, Chum Salmon, Coast Resident Cutthroat, Coho Salmon, Kokanee Salmon, Pink Salmon, Rainbow Trout, Sockeye and Steelhead Trout
- | Use | Description |
|-----|------------------------|
| | Known Juvenile Rearing |
| | Known Spawning |
| | Presence/Migration |
- Priority Marine Fish Species**
- Documented Sand Lance Spawning Areas
 - Documented Smelt Spawning Areas
 - Rocksole Spawning Areas
 - Pacific Herring Spawning Areas
 - Pacific Herring Adult Holding Areas
 - Wetlands (NWI)
 - SMP Update Waterbodies
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Rail
 - Major Roads

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: WDFW (PHS), 2010; Mason County, 2011 (2006); Ecology, 2009; WDNR, 2007.



Map 8D: Fish & Wildlife Habitat Areas

Totten Little Skookum Basin

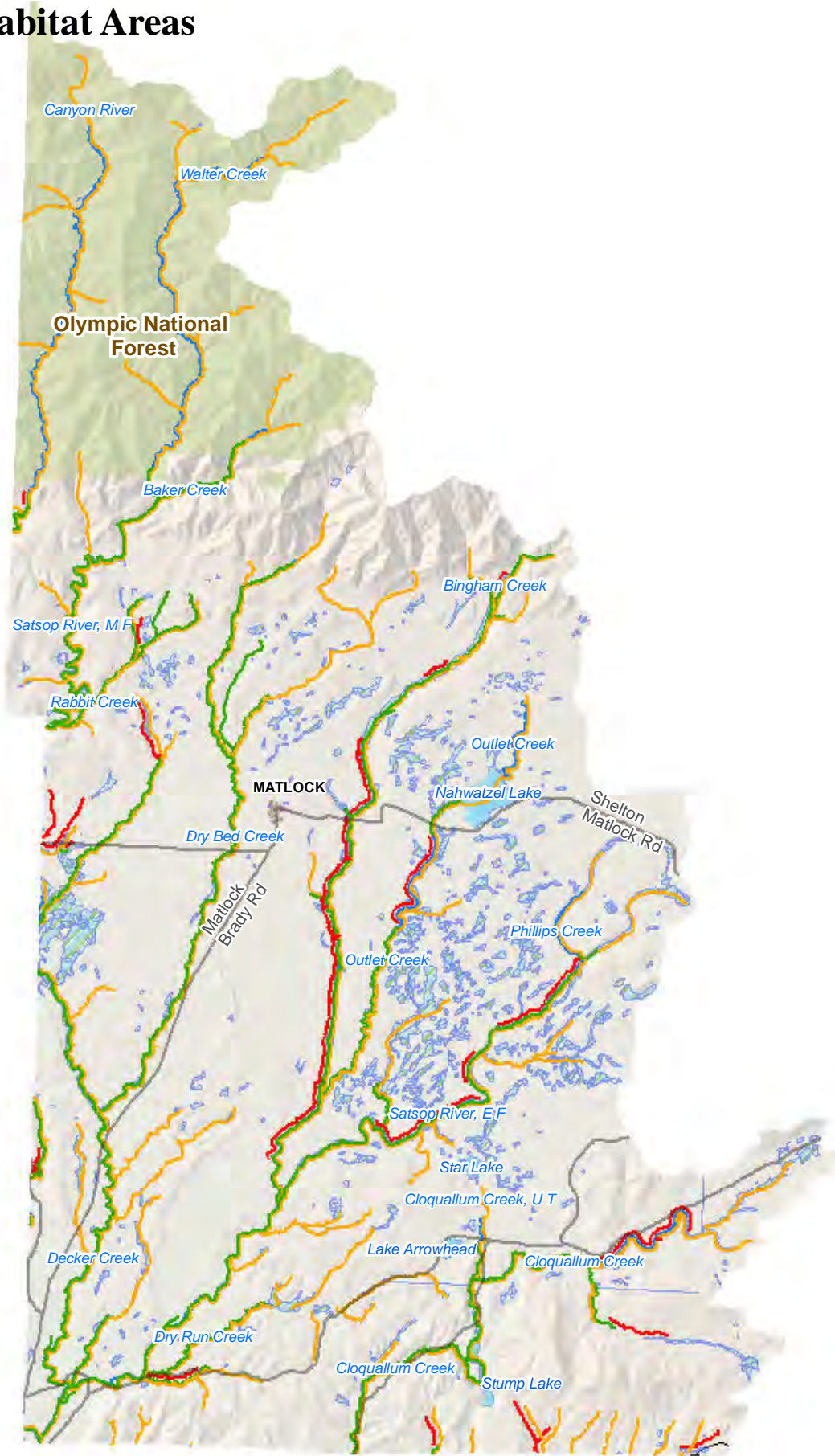
Mason County
Shoreline Master Program
June 2011

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Mason County Shoreline Master Program

Map 8E : Fish & Wildlife and Habitat Areas

Satsop Basin



NOTE ABOUT FISH AND WILDLIFE SPECIES

For more details about priority fish distribution and wildlife species occurrences at a waterbody/reach scale, please refer to the Inventory and Characterization report.

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Legend

Priority Habitats and Species Polygons

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 Marine Mammal Haulouts

Anadromous and Freshwater Fish Distribution

Priority Fish Species Include: Dolly Varden/Bull Trout, Chinook Salmon, Chum Salmon, Coast Resident Cutthroat, Coho Salmon, Kokanee Salmon, Pink Salmon, Rainbow Trout, Sockeye and Steelhead Trout

Use	Description
Red line	Known Juvenile Rearing
Green line	Known Spawning
Orange line	Presence/Migration

Priority Marine Fish Species

- Documented Sand Lance Spawning Areas
- Documented Smelt Spawning Areas
- Rocksolt Spawning Areas
- Pacific Herring Spawning Areas
- Pacific Herring Adult Holding Areas
- Wetlands (NWI)
- SMP Update Waterbodies
- Shelton City Limits
- UGA | Rural Activity Center Boundaries | Hamlets
- Rail
- Major Roads

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Map 8E : Fish & Wildlife Habitat Areas

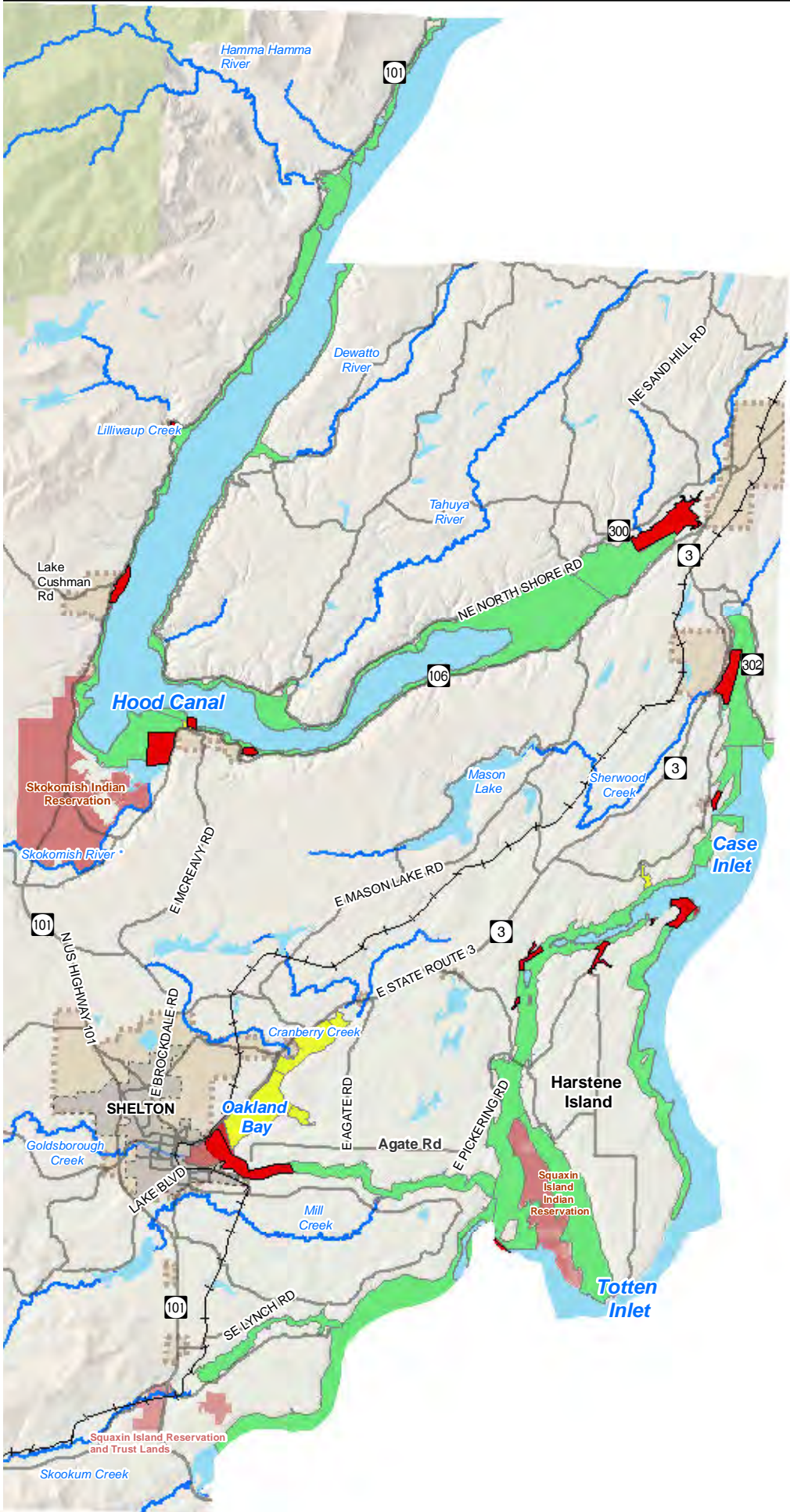
Satsop Basin

Mason County
Shoreline Master Program
June 2011

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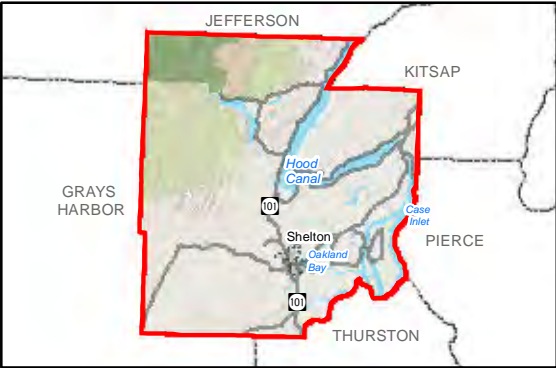
Mason County Shoreline Master Program

Map 9: 2010 DOH Shellfish Growing Areas and Closure Zones



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Legend

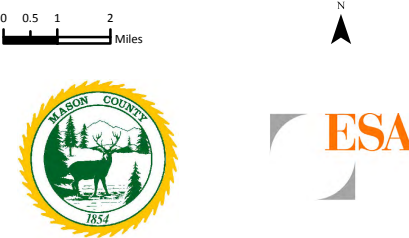
- Legend**
- Shellfish Growing Areas (DOH)**
- CLASS**
- Approved
 - Conditional
 - Prohibited (Pollution Closures)
 - Restricted
- SMP Update Streams
- SMP Update Waterbodies
- Major Roads
- Railroads
- Shelton City Limits
- UGA | Rural Activity Center Boundaries | Hamlets
- Indian Reservations
- Wilderness Areas
- Olympic National Forest
- Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2011 (2008); Ecology, 2009; WDFW, 2010; DOH, 2009, WDNR, 2007



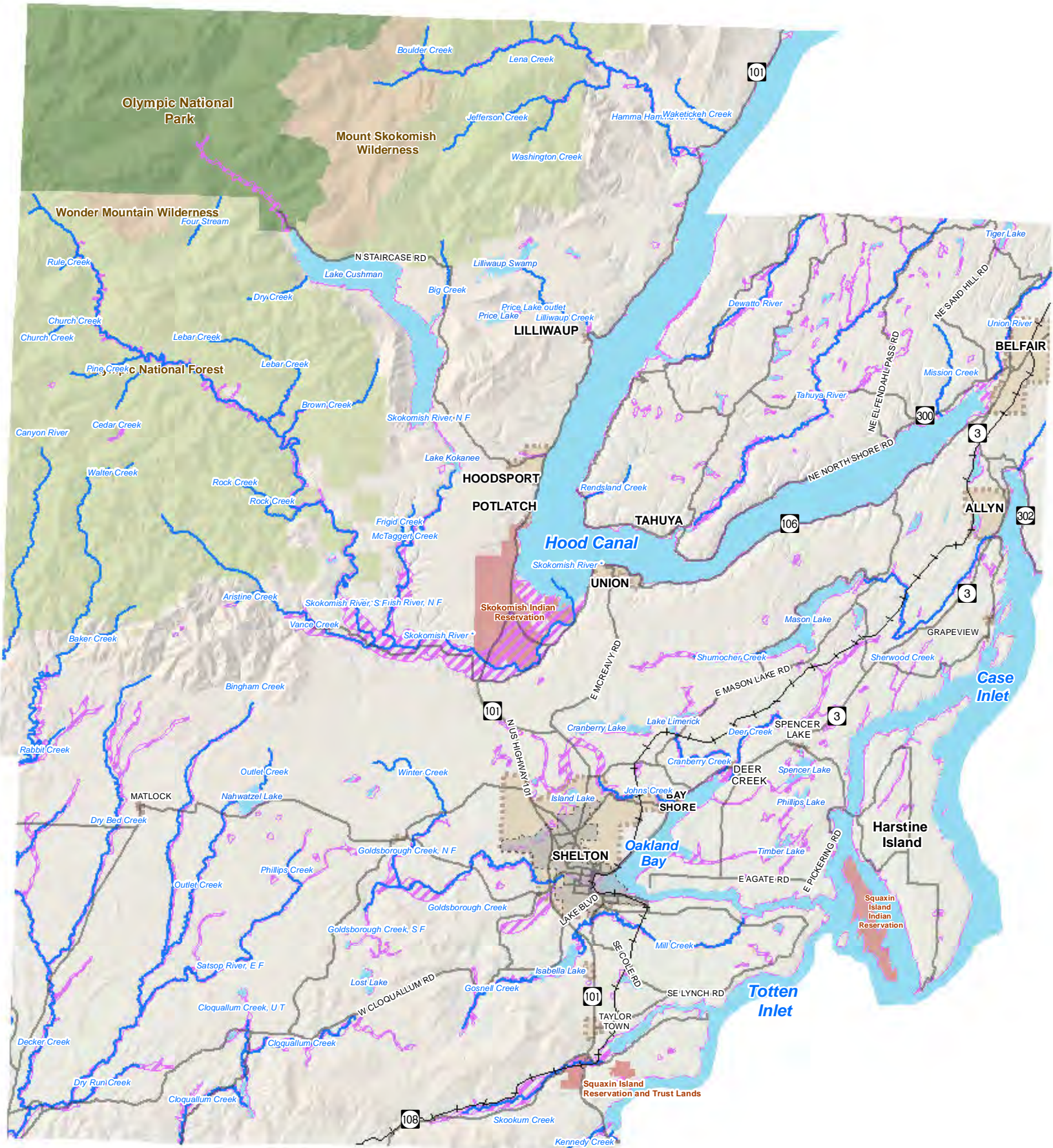
Map 9: 2010 DOH Shellfish Growing Areas and Closure Zones

Mason County
Shoreline Master Program
June 2011

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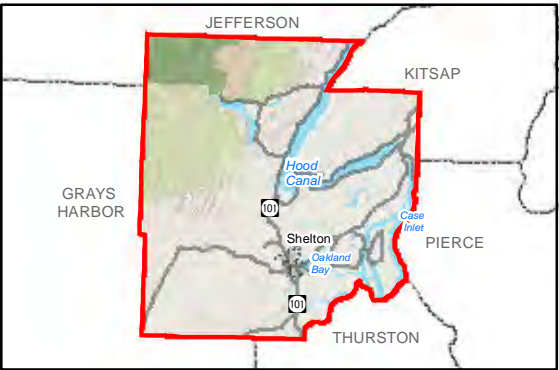
Mason County Shoreline Master Program

Map 10: Frequently Flooded Areas



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- Legend**
- Major Roads
 - Railroads
 - Shelton City Limits
 - SMP Update Streams
 - SMP Update Waterbodies
 - Frequently Flooded Areas
 - Indian Reservations
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: FEMA, 1998; Mason County, 2011 (2008); Ecology, 2009; WDNr, 2007.



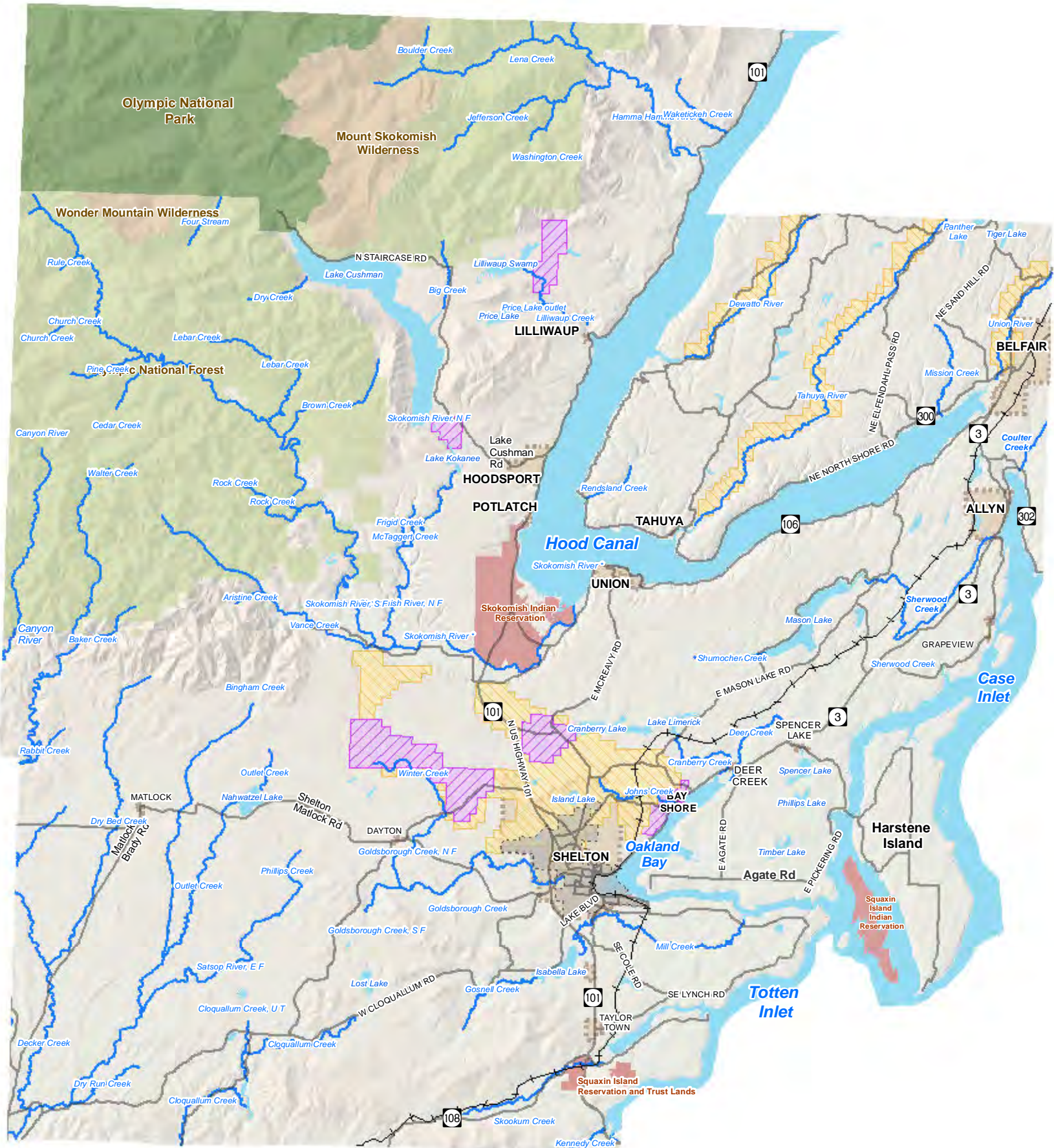
Map 10: Frequently Flooded Areas County Scale

Mason County
Shoreline Master Program
June 2011

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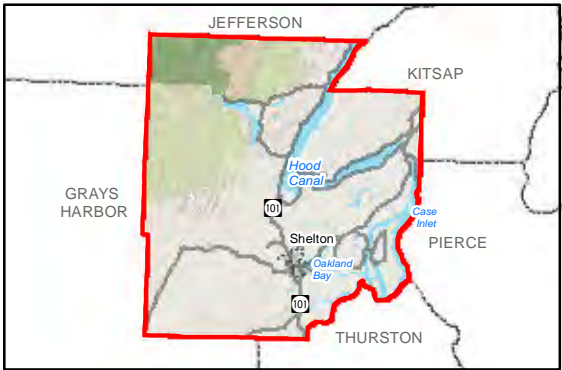
Mason County Shoreline Master Program

Map 11: Critical Aquifer Recharge Areas



DISCLAIMER AND LIMITATION OF LIABILITY

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- Legend**
- Critical Aquifer Recharge Areas**
- Extremely Critical Aquifer Recharge Area
 - Highly Critical Aquifer Recharge Area
- NOTE: This dataset was converted from the 1999-2001 Comprehensive Plan Drawing Set (DWGs) and georeferenced using a series of reference points. Mason County staff are working on updating this layer using best available information. This layer does not accurately depict all critical aquifer recharge areas in the county. Some areas might be missing information.
- SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Railroads
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2011 (2008); Ecology, 2009; Critical Aquifer Recharge Areas data ~1999-2001.



Map 11: Critical Aquifer Recharge Areas County Scale

Mason County
Shoreline Master Program
June 2011

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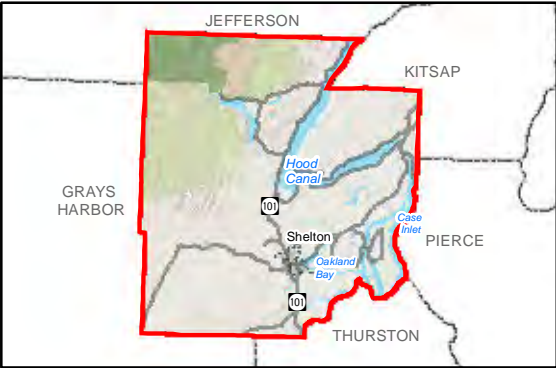
Mason County Shoreline Master Program

Map 12: Landslide, Erosion and Seismic Hazard Areas



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- Legend**
- Erosion Hazard Areas
 - Landslide Hazard Areas
 - Seismic Hazard Areas
 - SMP Update Streams
 - SMP Update Waterbodies
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Major Roads
 - Railroads
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2009 (2011); WDNR, 2009; Ecology, 2009.



Map 12: Landslide, Erosion and Seismic Hazard Areas County Scale

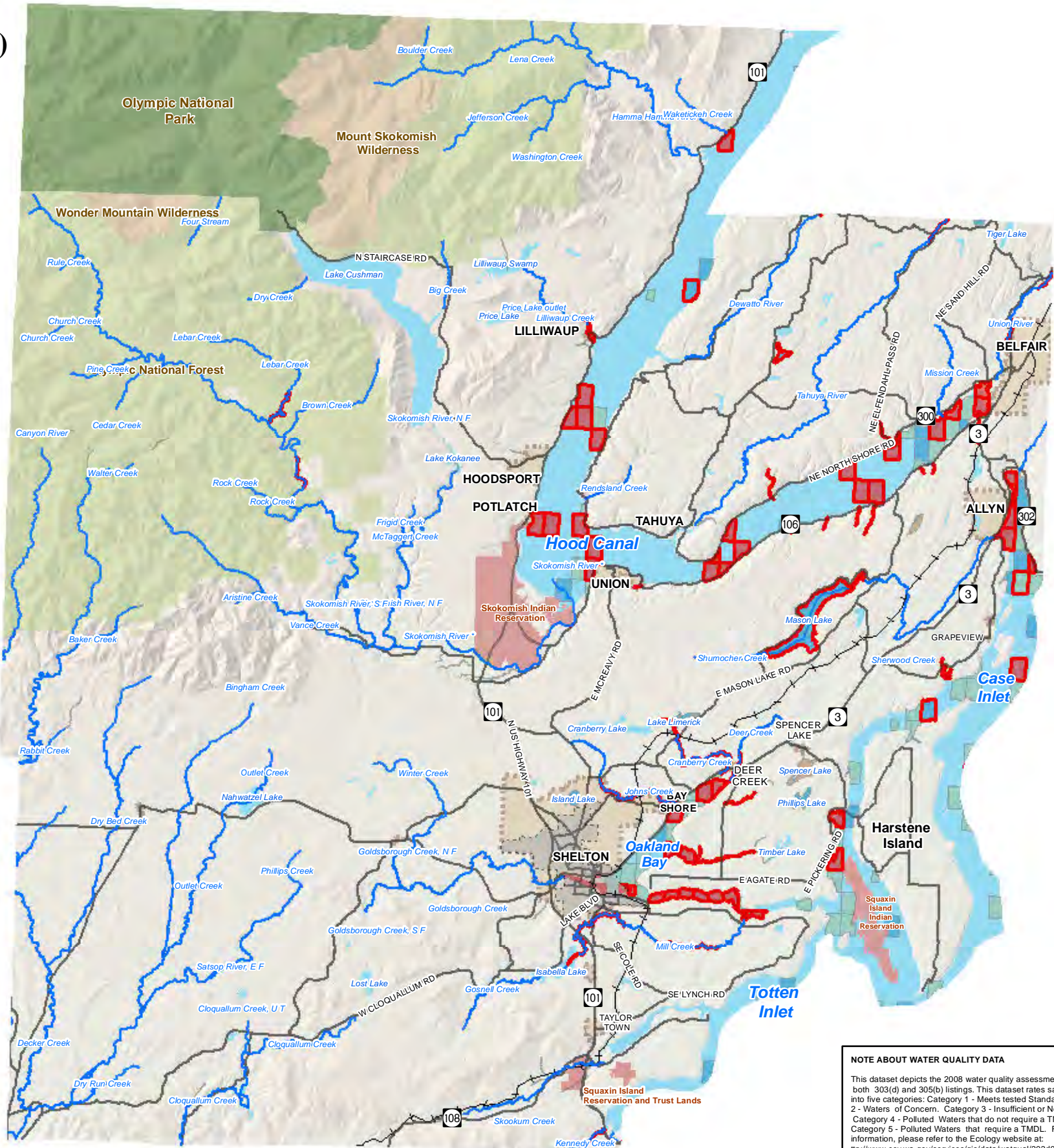
Mason County
Shoreline Master Program
June 2011

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Mason County Shoreline Master Program

Map 13: Water Quality

Ecology 2008 Assessment (303d)

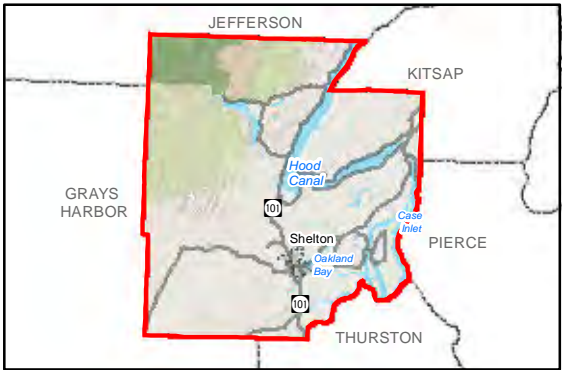


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NOTE ABOUT WATER QUALITY DATA

This dataset depicts the 2008 water quality assessment - includes both 303(d) and 305(b) listings. This dataset rates sampled waters into five categories: Category 1 - Meets tested Standards. Category 2 - Waters of Concern. Category 3 - Insufficient or No data. Category 4 - Polluted Waters that do not require a TMDL. Category 5 - Polluted Waters that require a TMDL. For more information, please refer to the Ecology website at: <http://www.ecy.wa.gov/services/gis/data/watqual/303d08.htm> Please refer to summary table by waterbody for more detailed information outlining the parameters by category.



- Legend**
- Water Quality 303d list (Ecology, 2008)
 - Water Quality 305b List (Ecology, 2008)**
 - Water/Sediment Category Rating**
 - 1 - Meets Tested Standards
 - 2 - Waters of Concern
 - 4A - Segments that have an approved TMDL and are being actively implemented
 - 4C - Segments impaired by causes that cannot be addressed through a TMDL
 - 5 - Polluted waters that require a TMDL
 - Indian Reservations
 - SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Rail
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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Task 2.1

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Washington South FIPS 4602

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Data Sources: Ecology, 2008 (303d and 305b data) (2009);
DNR, 2007; Mason County, 2011 (2010).

0 0.5 1 2 Miles



Map 13: Water Quality

Ecology 2008 Assessment (303d)

County Scale

Mason County

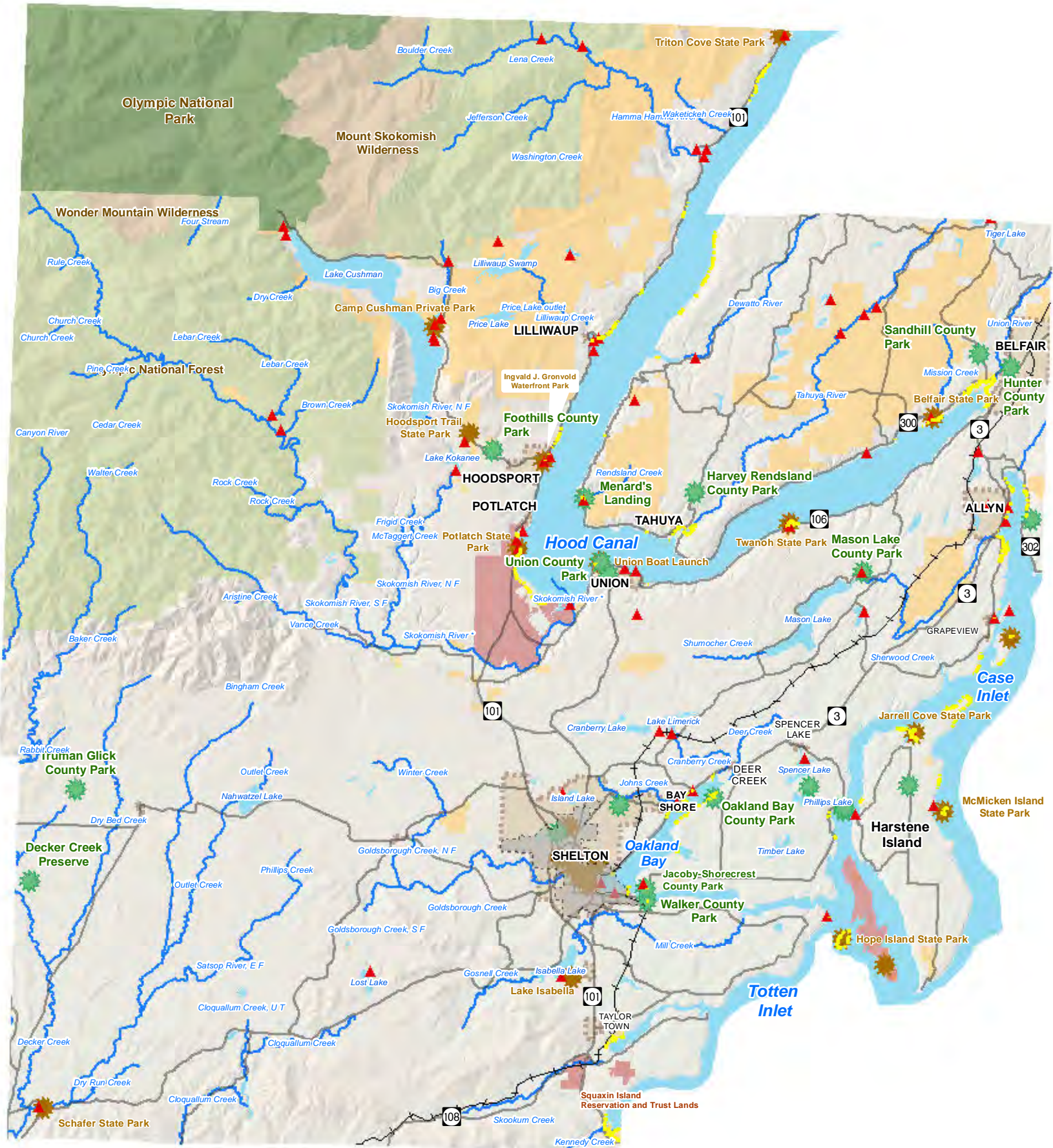
Shoreline Master Program

June 2011

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Map 14: Parks, Open Space and Public Access



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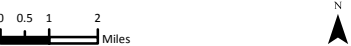
- Legend**
- Shoreline Public Access (Ecology, 2010)
 - Recreation Sites
 - County Parks
 - Non-County Parks
 - Public Ownership
 - SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Railroads
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2005 (2011); Ecology, 2010 (2008), DNR, 2007, PSNERP, 2009 (Public Ownership).



Map 14: Parks, Open Space and Public Access County Scale

Mason County
Shoreline Master Program
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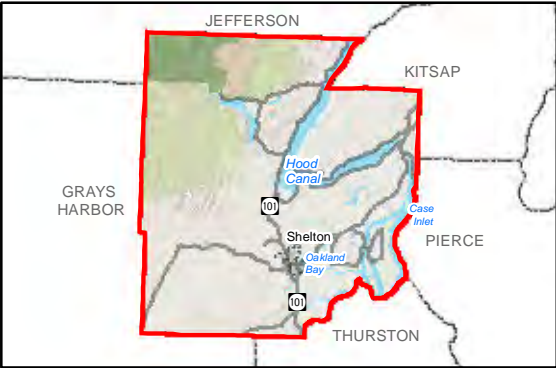
Mason County Shoreline Master Program

Map 15: Land Cover (2009)



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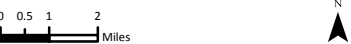
- Legend**
- Developed
 - Agriculture
 - Open Water
 - Beach, shore and sand
 - Cliff, canyon and talus
 - Playa, wash and mudflat
 - Deciduous dominated forest and woodland (xeric-mesic)
 - Mixed Deciduous/conifer forest and woodland (xeric-mesic)
 - Conifer dominated forest and woodland (xeric-mesic)
 - Conifer dominated forest and woodland (mesic-wet)
 - Alpine and avalanche chute shrubland
 - Deciduous dominated savanna and glade
 - Deciduous dominated shrubland
 - Alpine grassland
 - Sand prairie, coastal grasslands and lomas
 - Harvested Forest
 - Introduced Vegetation
 - No Data (Unclassified)
 - SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Railroads
 - Indian Reservations
 - Shelton City Limits

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2011 (2008); Ecology, 2009 (2008), DNR, 2007, GAP Analysis, 2009.



Map 15: Land Cover (2009)

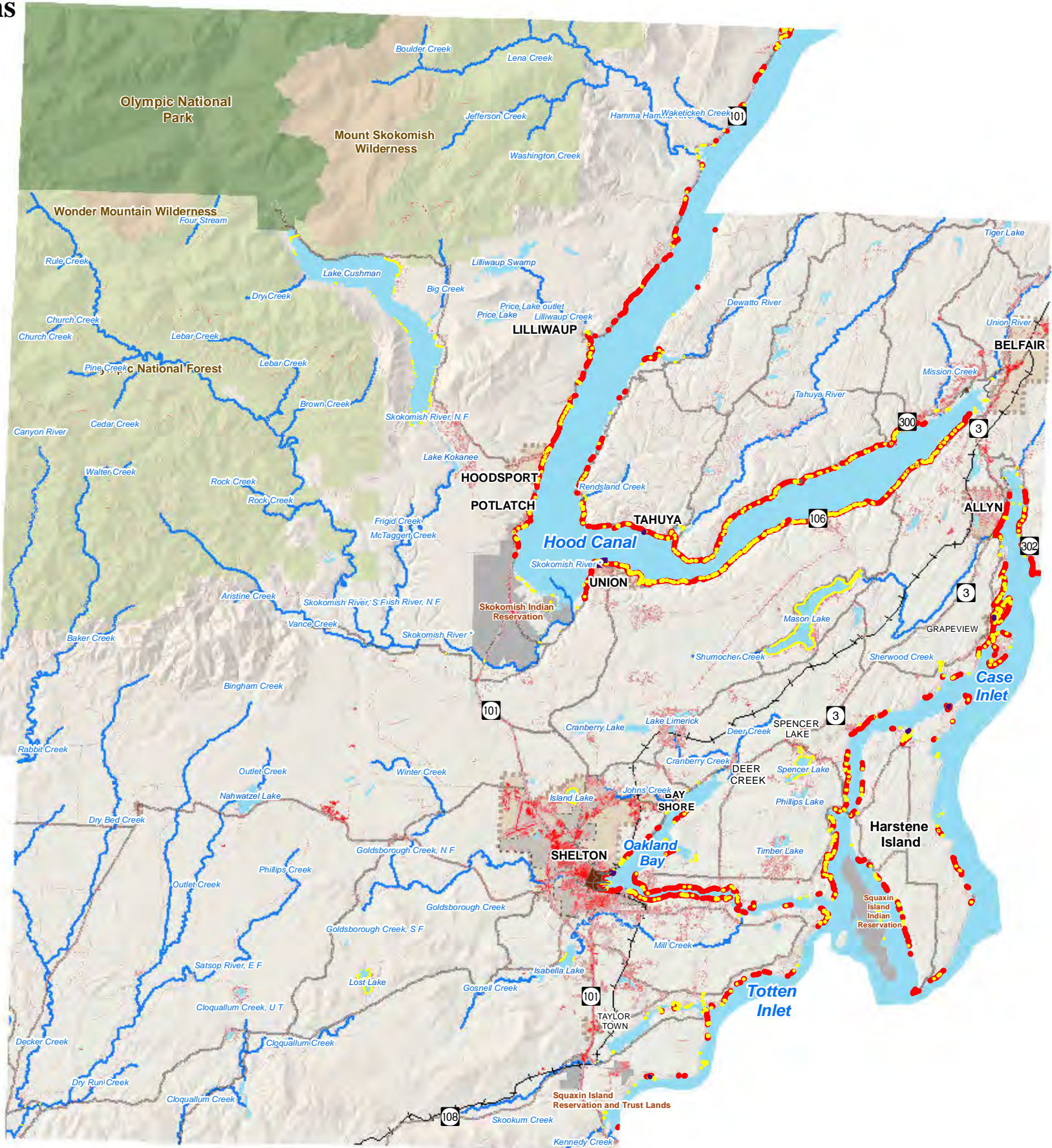
County Scale

Mason County
Shoreline Master Program
June 2011

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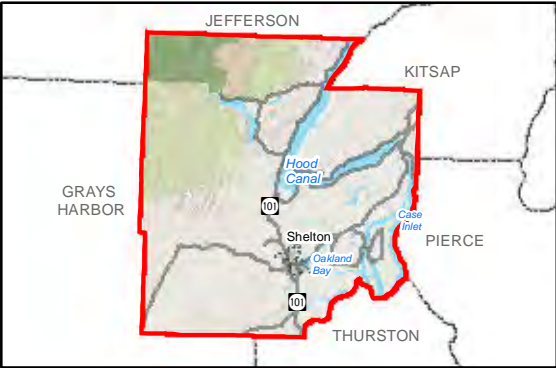
Mason County Shoreline Master Program

Map 16: Shoreline Modifications and Impervious Surface



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- Legend**
- Shoreline Modifications**
- Shoreline Armoring
 - Nearshore Fill
 - Overwater Structures (Marine & Freshwater)
 - Marina
 - Marinas - > 10 boat slips
- Impervious Surface**
- Impervious Surface % (0-100)
 - SMP Update Streams
 - SMP Update Waterbodies
 - Indian Reservations
 - Rail
 - Major Roads
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: PSNERP, 2009 (Armoring); NOAA CSC, 2006 (Impervious) DNR, 2009 (2007); PNPTC, 2002; Mason County, 2011 (2010).



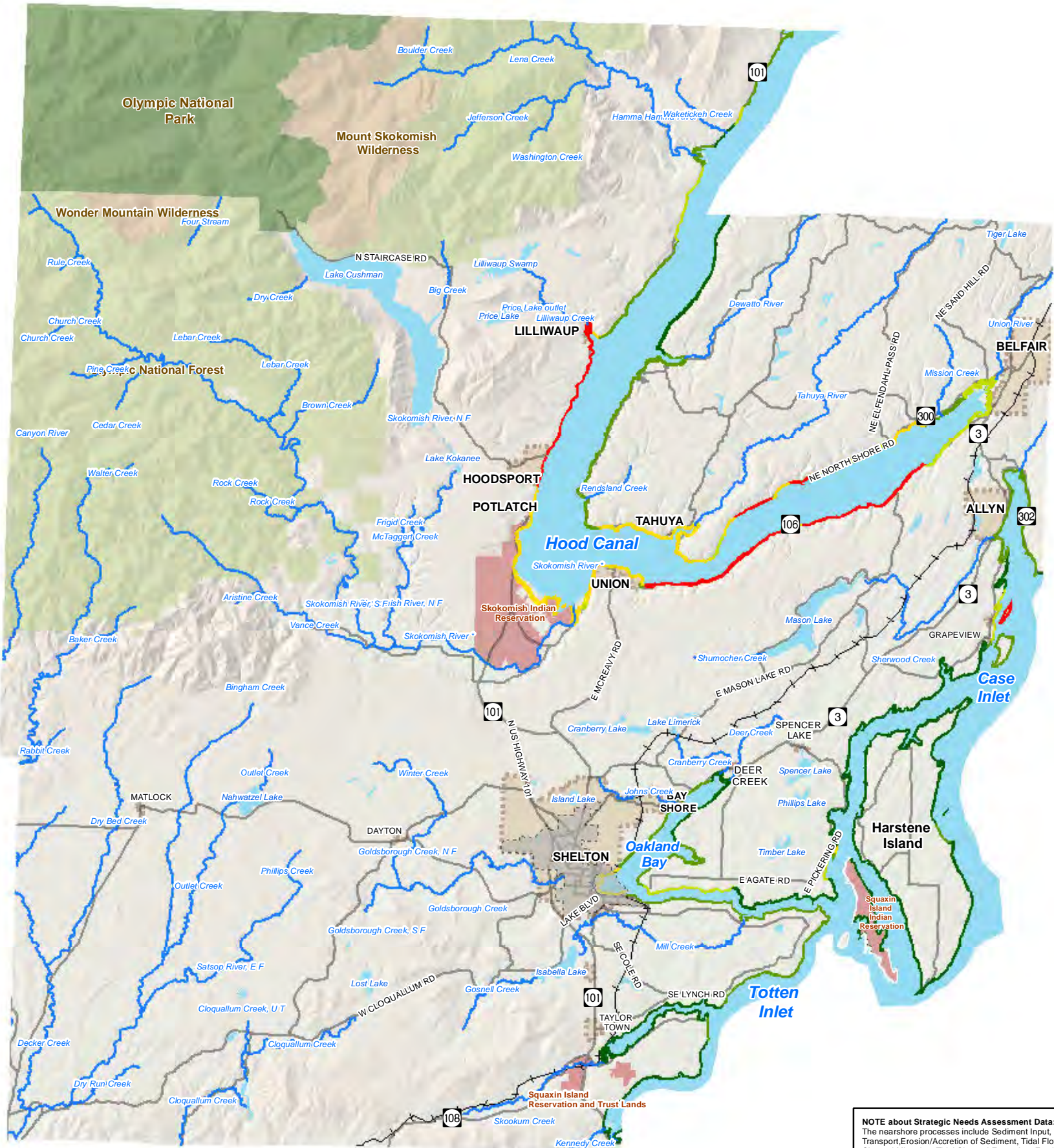
Map 16: Shoreline Modifications and Impervious Surface
County Scale

Mason County
Shoreline Master Program
June 2011

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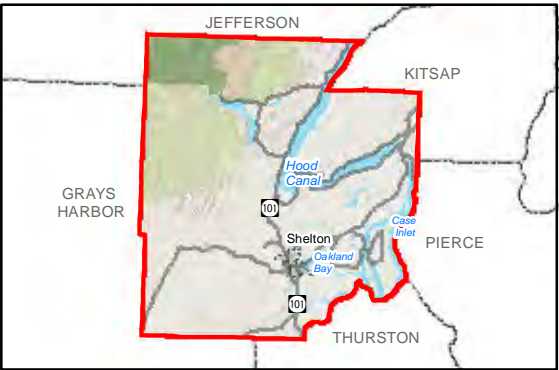
Map 17: Overall Nearshore Process Degradation



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NOTE about Strategic Needs Assessment Data:
The nearshore processes include Sediment Input, Sediment Transport, Erosion/Accretion of Sediment, Tidal Flow, Distribution Channel Migration, Tidal Channel Formation, Freshwater Input, Detritus Import and Export, Exchange of Aquatic Organisms, Physical Disturbance and Solar Incidence.



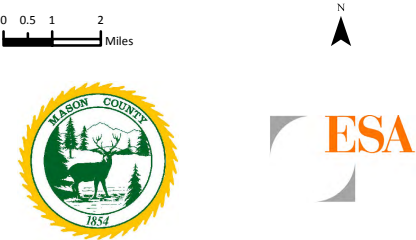
- Legend**
- Overall Nearshore Process Degradation**
- NONE
 - LEAST
 - LESS
 - MODERATE
 - MORE
 - MOST
- SMP Update Streams
- SMP Update Waterbodies
- Major Roads
- Railroads
- Shelton City Limits
- Indian Reservations
- UGA | Rural Activity Center Boundaries | Hamlets
- Wilderness Areas
- Olympic National Forest
- Olympic National Park

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Data Sources: PSNERP (Strategic Needs Assessment), 2010. Mason County, 2011 (2010); Ecology, 2009; WDNR, 2007



Map 17: Overall Nearshore Process Degradation County Scale

Mason County
Shoreline Master Program
June 2011

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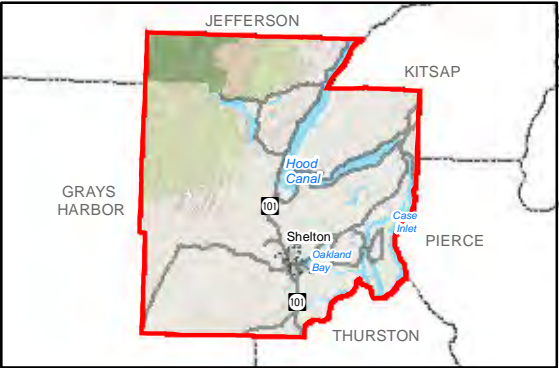
Mason County Shoreline Master Program

Map 18: Existing Land Use



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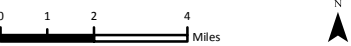
- Legend**
- Land Use**
- Agriculture
 - Aquaculture
 - Commercial
 - Forestry
 - Industrial
 - Mining
 - Open Space
 - Parks and Recreation Areas
 - Residential
 - Tax Exempt
 - Transportation
 - Utilities
 - Vacant/Rural
- SMP Update Streams
- SMP Update Waterbodies
- Major Roads
- Railroads
- Shelton City Limits
- Indian Reservations
- Wilderness Areas
- Olympic National Forest
- Olympic National Park

SMA Grant Agreement No. G1100004
Task 2.1

Coordinate System: State Plane NAD1983 (Ft)
Washington South FIPS 4602

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Data Sources: Mason County, 2010 (2006); Ecology, 2009; WDNR, 2007.



Map 18: Existing Land Use

County Scale

Mason County
Shoreline Master Program
June 2011

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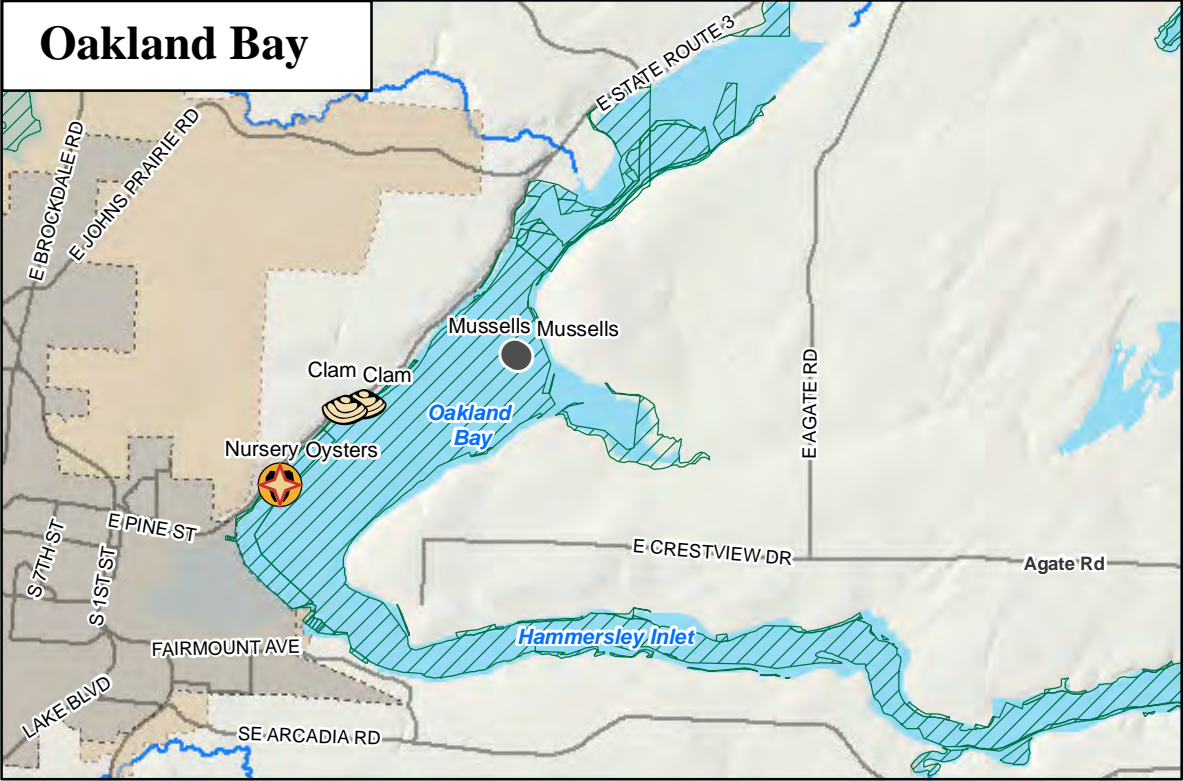
Mason County Shoreline Master Program

Map 19: Commercially Approved Aquaculture Leases on DNR Lands

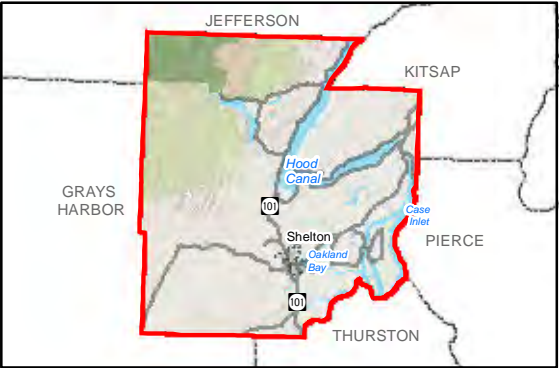
Hood Canal



Oakland Bay



Totten Inlet / Skookum Inlet



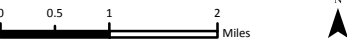
- Legend**
- Commercially Approved Aquaculture Leases on DNR Lands**
- Use Type**
- Clam
 - Mussells
 - Nursery
 - Oysters
 - Oysters (Floating)
- Other Features**
- DNR Aquatic Parcels
 - SMP Update Streams
 - SMP Update Waterbodies
 - Major Roads
 - Railroads
 - Shelton City Limits
 - UGA | Rural Activity Center Boundaries | Hamlets
 - Indian Reservations
 - Wilderness Areas
 - Olympic National Forest
 - Olympic National Park

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Washington South FIPS 4602

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Data Sources: DNR, 2011; Mason County, 2011



Map 19: Commercially Approved Aquaculture Leases on DNR Lands

Mason County
Shoreline Master Program
June 2011

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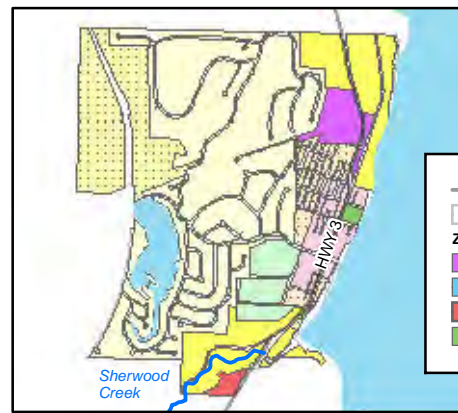
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Mason County Shoreline Master Program

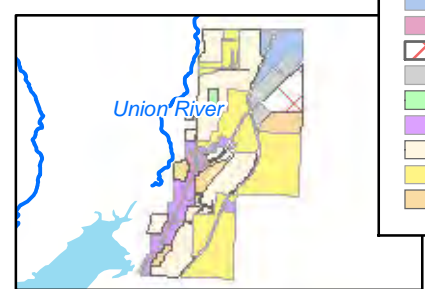
Map 21: Zoning

Allyn UGA



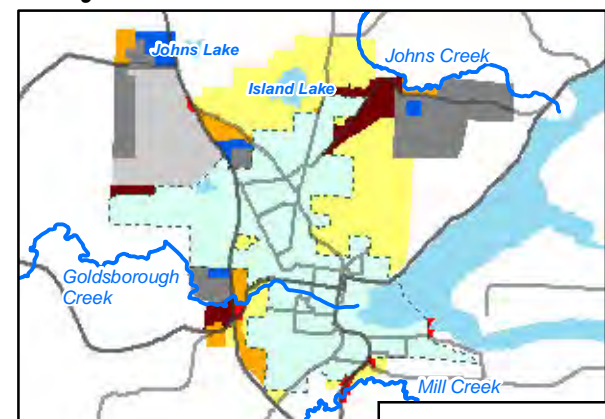
- Major Roads
- No Zoning or Outside UGA
- Zoning**
- BP - Business Park
 - CM - Commercial Manufacturing
 - HC - Highway Commercial
 - POS - Public Open Space
 - R-1 - Single Family Residential
 - R-1P - Residential Platted
 - R-1R - Residential Recreational
 - R-2 - Multi Family Medium Density Residential
 - R-3 - Multi Family High Density Residential
 - VC - Village Commercial
 - VR - Village Residential

Belfair UGA



- Business Industrial
- Festival Retail
- General Commercial
- General Commercial & Business Industrial
- Long Term Agricultural
- Mixed Use
- Single Family Residential
- Medium Density Residential
- Multi Family Residential

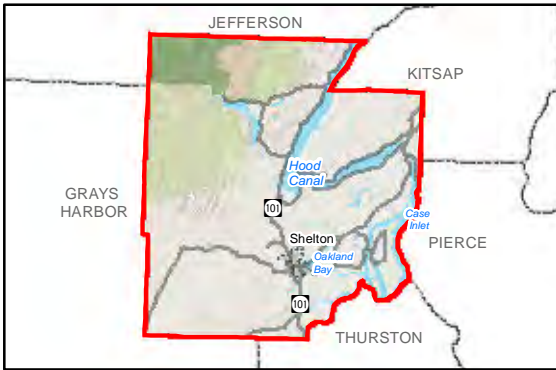
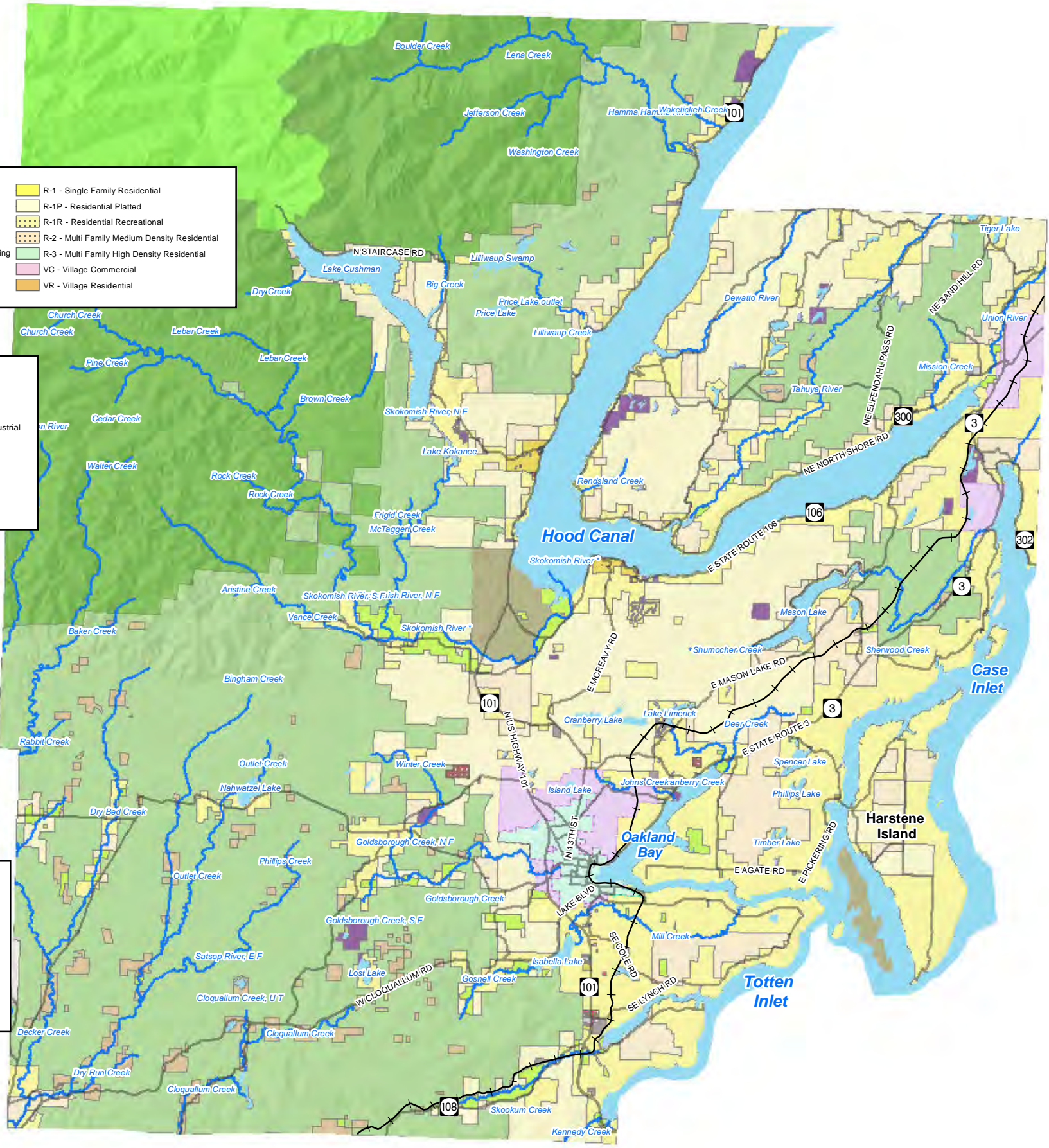
City of Shelton UGA



- Airport Industrial
- Commercial Industrial
- General Commercial
- Industrial
- Mixed Use
- Neighborhood Residential
- Public Institutional

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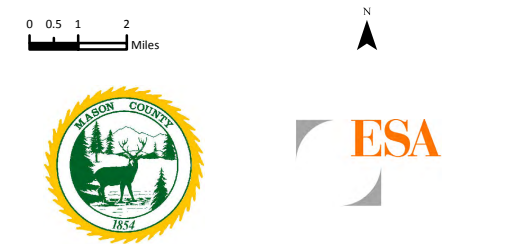
- Legend**
- Zoning Descriptions**
- Rural Multi Family
 - Inholding Lands
 - Rural Residential 2.5 Acres
 - Rural Residential 5 Acres
 - Rural Residential 10 Acres
 - Rural Residential 20 Acres
 - Agricultural Resource Lands
 - Long Term Commercial Forest
 - Rural Tourist
 - Rural Tourist-Campground
 - Rural Commercial 1
 - Rural Commercial 2
 - Rural Commercial 3
 - Rural Commercial 5
 - Rural Industrial
 - Rural Natural Resource
 - City
 - Shelton Urban Growth Area
 - Urban Growth Area
 - Indian Reservation
 - Olympic National Forest
 - Olympic National Park
 - Water
 - Shelton City Limits
 - SMP Update Streams
 - SMP Update Lakes
 - Major Roads
 - Railroads

SMA Grant Agreement No. G1100004
Task 2.1

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Washington South FIPS 4602

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Data Sources: Mason County, 2010 (2011); Ecology, 2009, DNR, 2009 (2007).



Map 21: Zoning

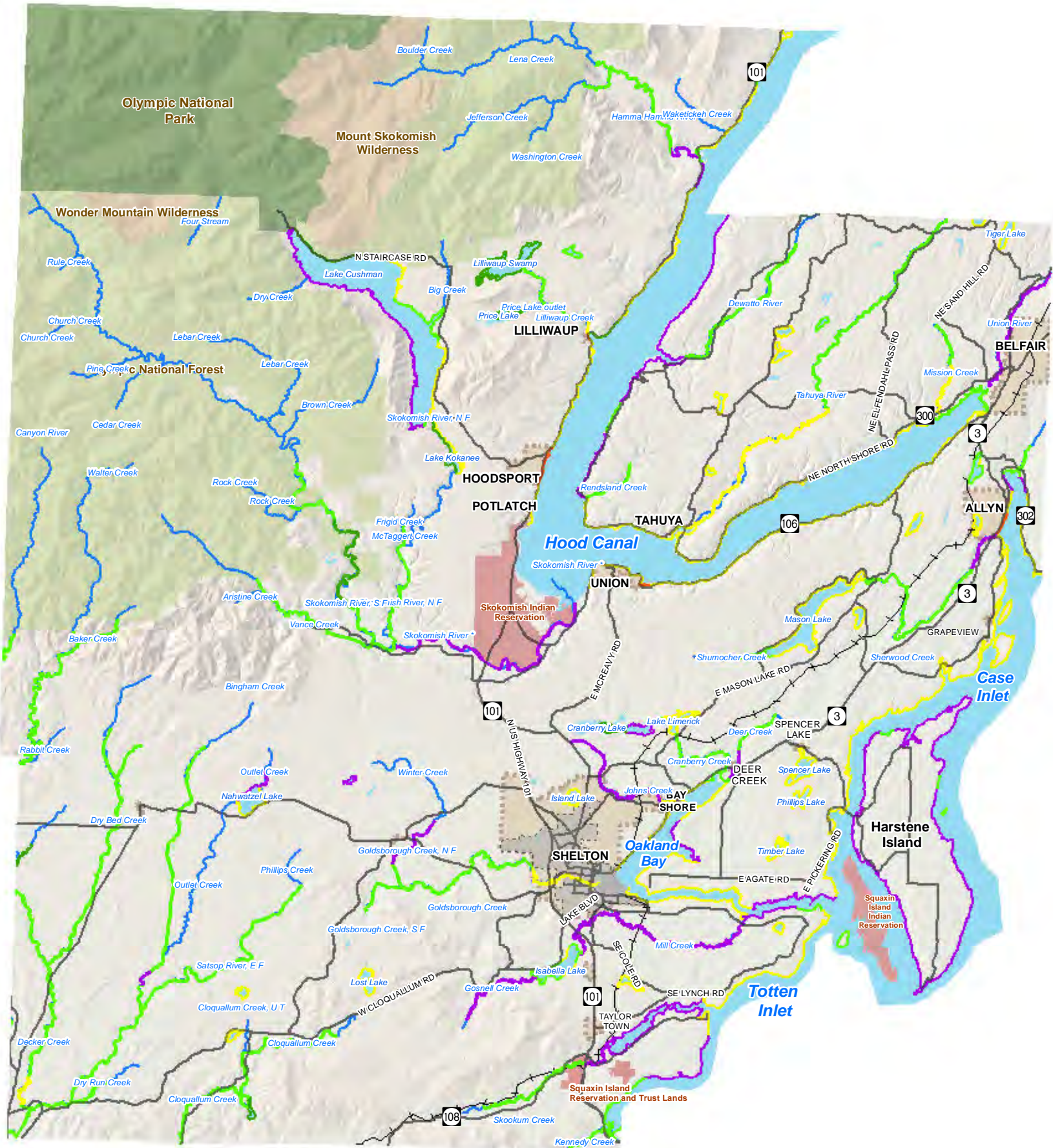
County Scale

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Map 22: Current Shoreline Environment Designations



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- Legend**
- Shoreline Environment Designation**
- NATURAL
 - CONSERVANCY
 - RURAL
 - URBAN RESIDENTIAL
 - URBAN COMMERCIAL
 - URBAN INDUSTRIAL
- Major Roads
- Railroads
- Shelton City Limits
- UGA | Rural Activity Center Boundaries | Hamlets
- Indian Reservations
- Wilderness Areas
- Olympic National Forest
- Olympic National Park

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Map 22: Current Shoreline Environment Designations County Scale

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