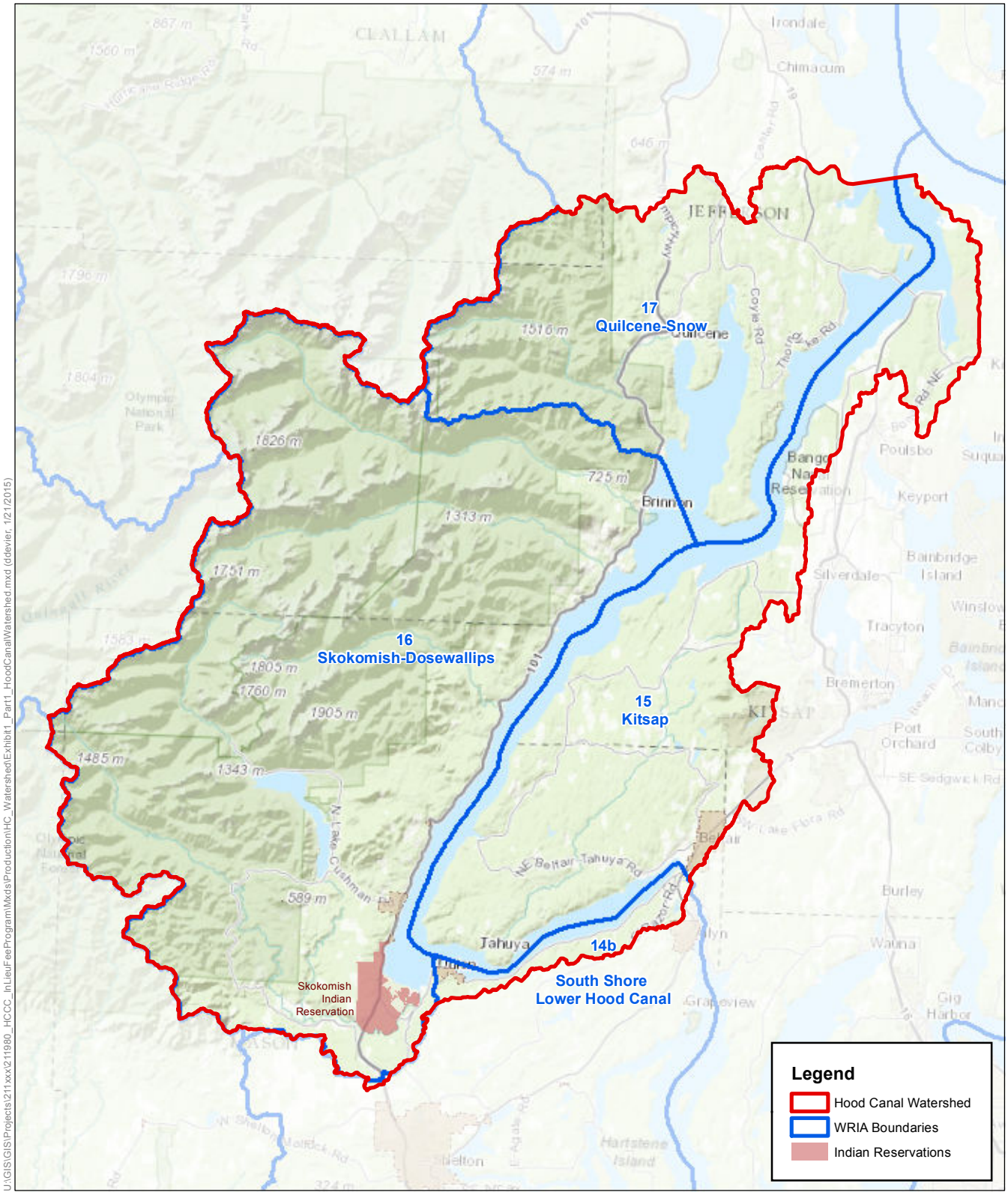


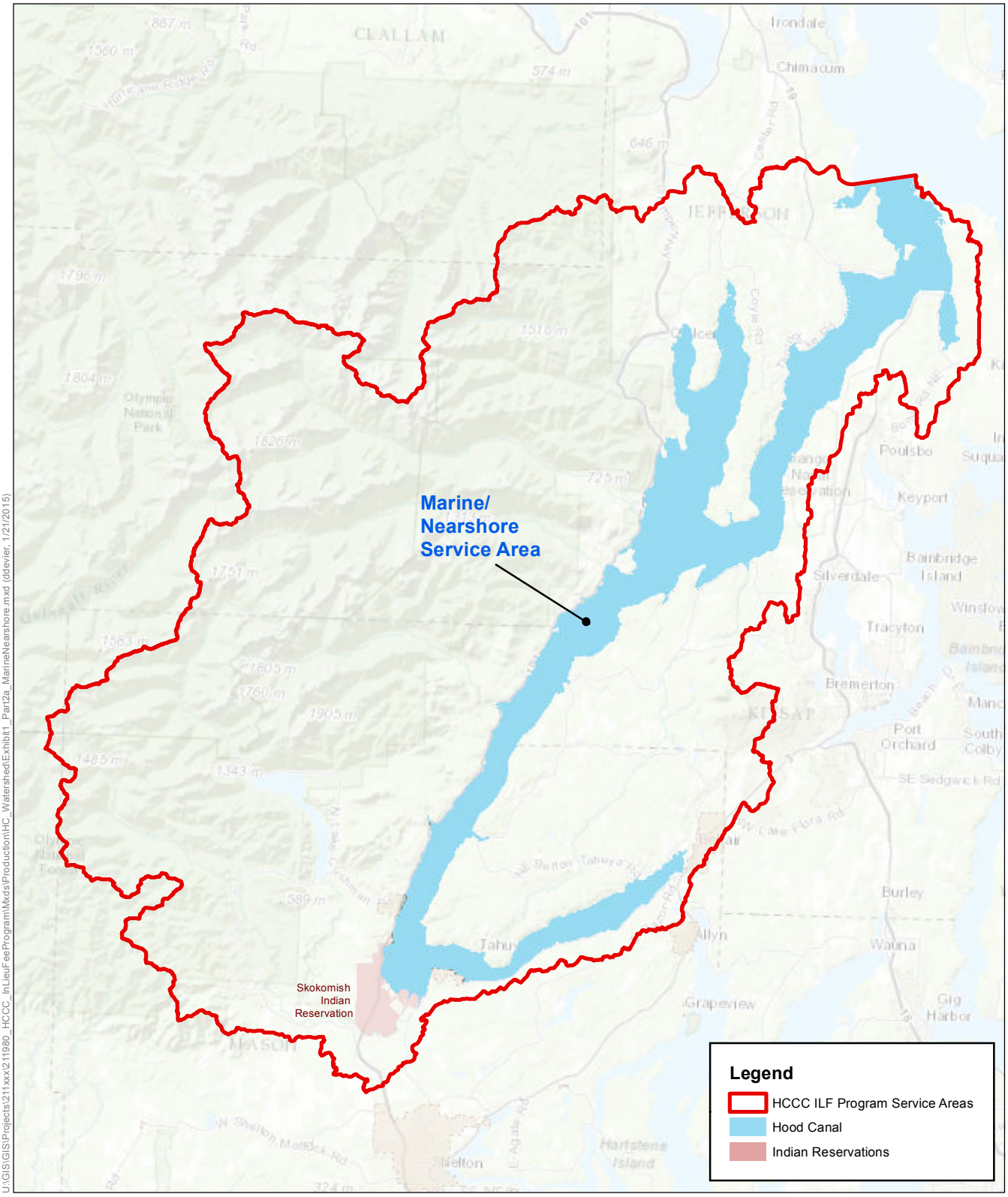
U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\HC_Watershed\Exhibit1_Part1_HoodCanalWatershed.mxd (ddevier, 1/21/2015)

SOURCE: Ecology, 2009; ESRI, 2014.

HCCC ILF Program. 211980

Exhibit 1 - Part 1

Overview - Hood Canal Watershed
Hood Canal, Washington



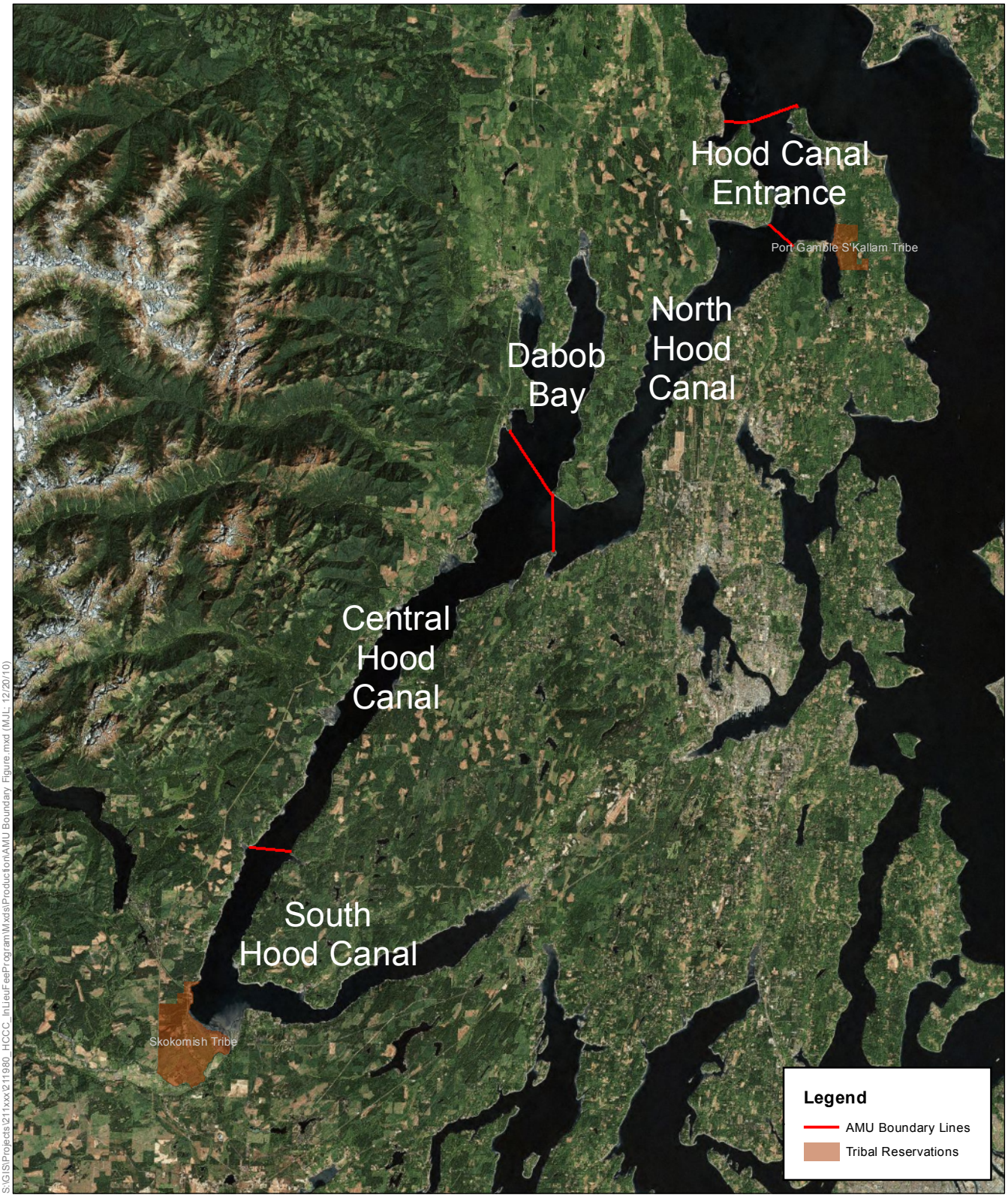
SOURCE: Ecology, 2009; ESRI, 2015.

HCCC ILF Program. 211980

Exhibit 1 - Part 2a

Marine/Nearshore Service Area
Hood Canal, Washington

0 5
Miles



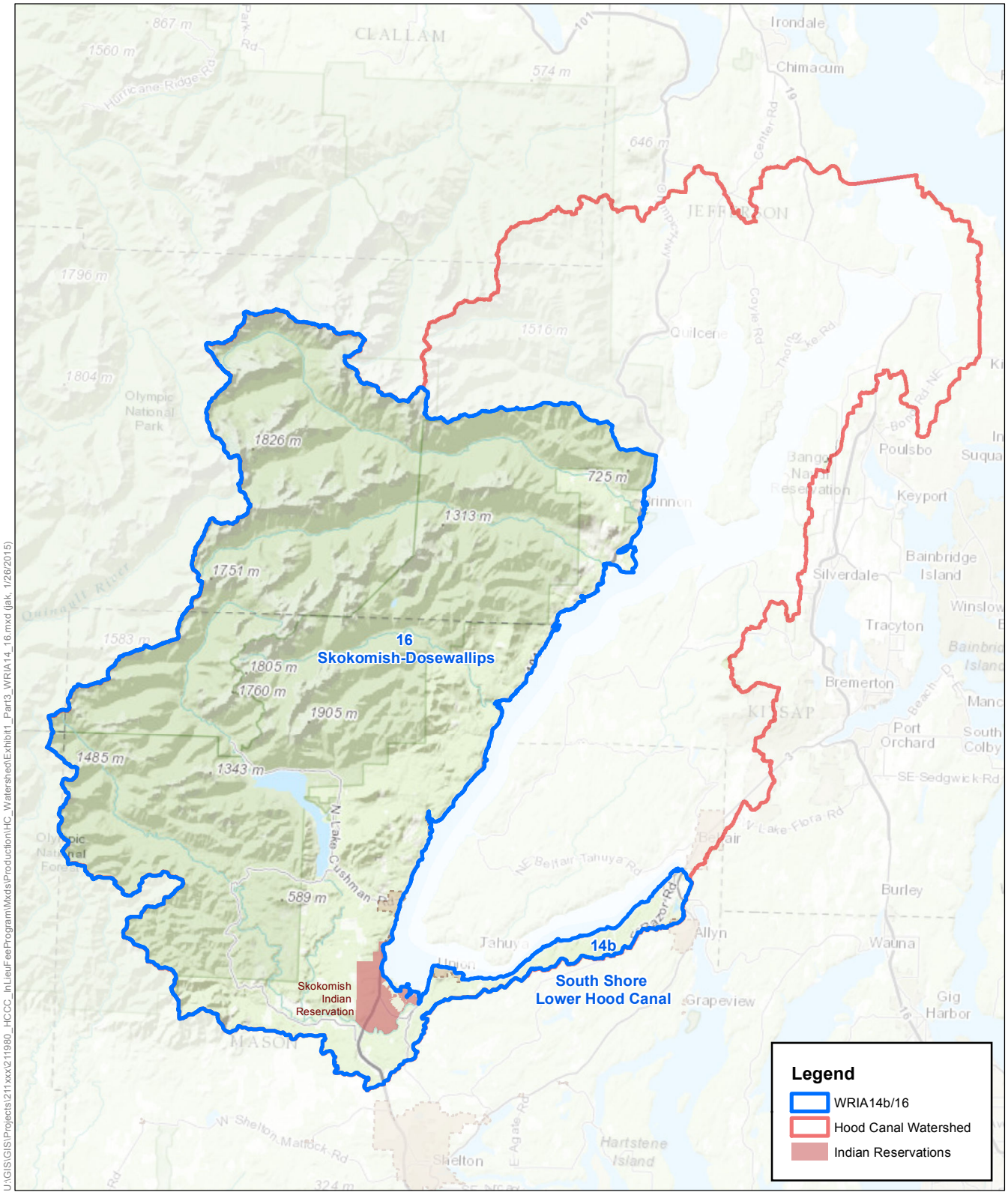
SOURCE: Ecology, 2009; Bing, 2010.

0 5
Miles

HCCC ILF Program. 211980

Exhibit 1 - Part 2b

Overview - AMU Areas
Hood Canal, Washington



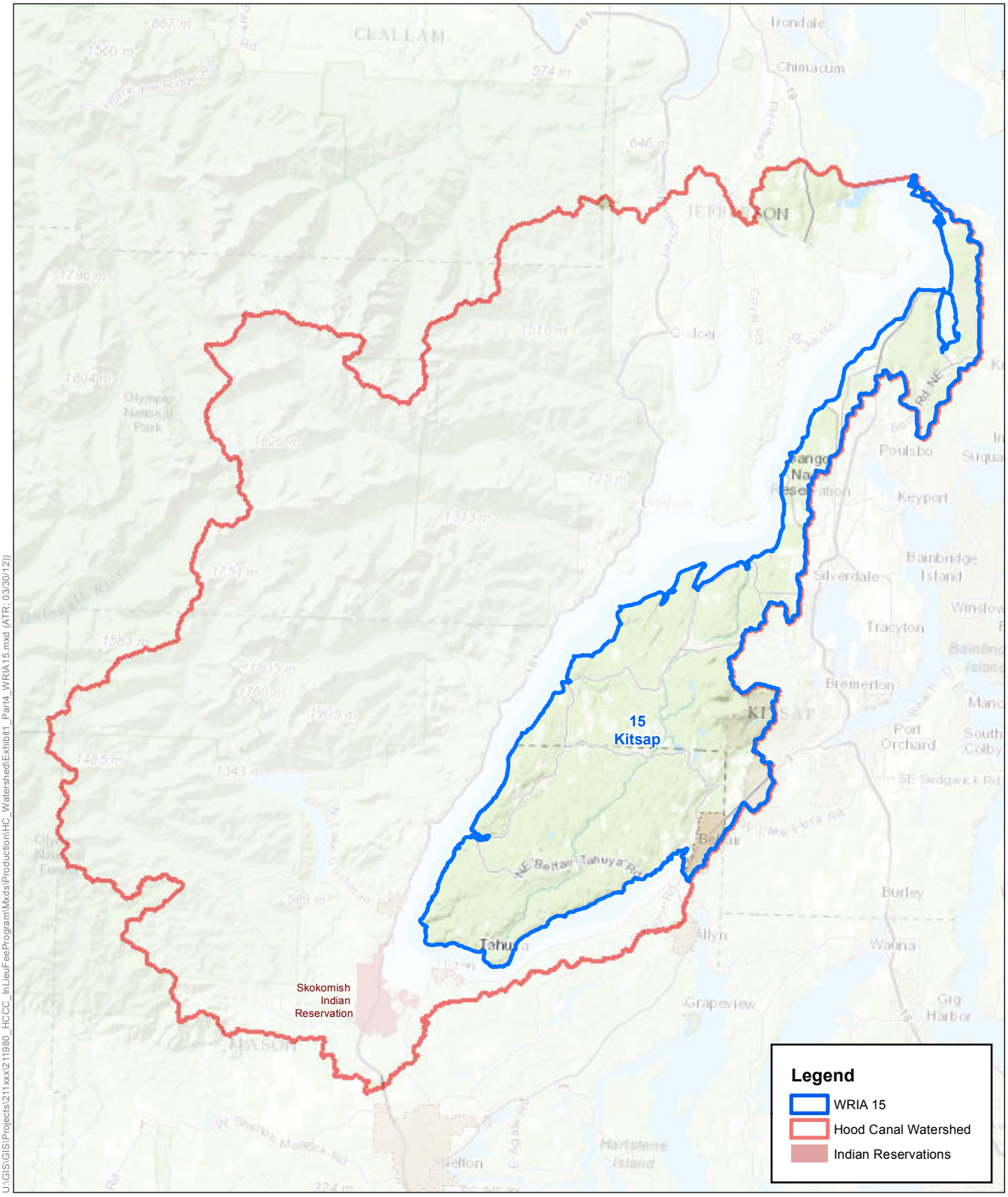
SOURCE: Ecology, 2009; ESRI, 2015.

HCCC ILF Program . 211980

Exhibit 1 - Part 3

WRIA 14b/16 Service Area
Hood Canal, Washington

0 5
Miles



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\HC_Watershed\Exhibit1_Part4_WRIA15.mxd (ATR; 03/30/12))

SOURCE: Ecology, 2009; ESRI, 2015.

HCCC ILF Program . 211980

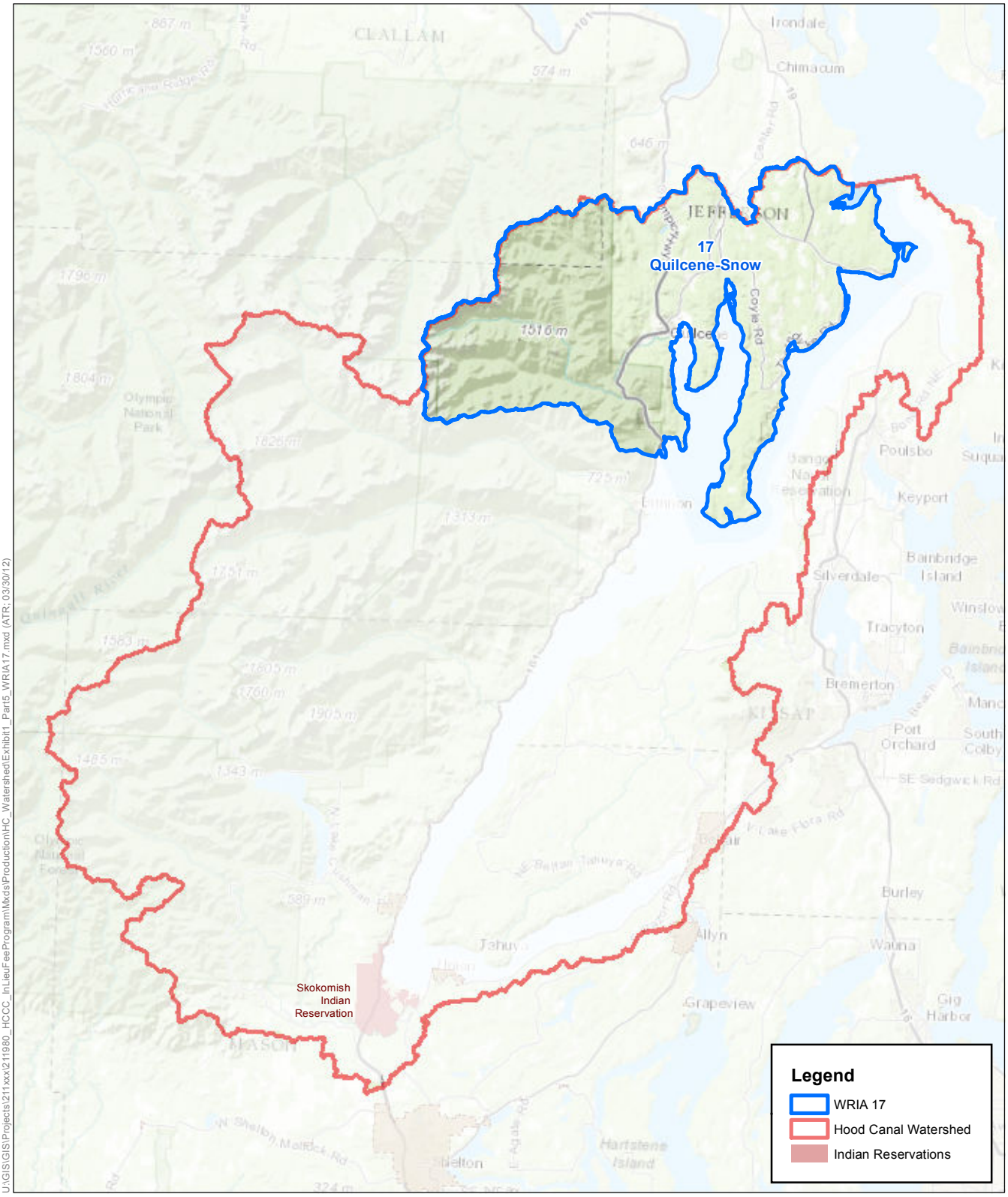
Exhibit 1 - Part 4

WRIA 15 Service Area

Hood Canal, Washington

0 5

Miles



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\HC_Watershed\Exhibit1_Part5_WRIA17.mxd (ATR; 03/30/12)

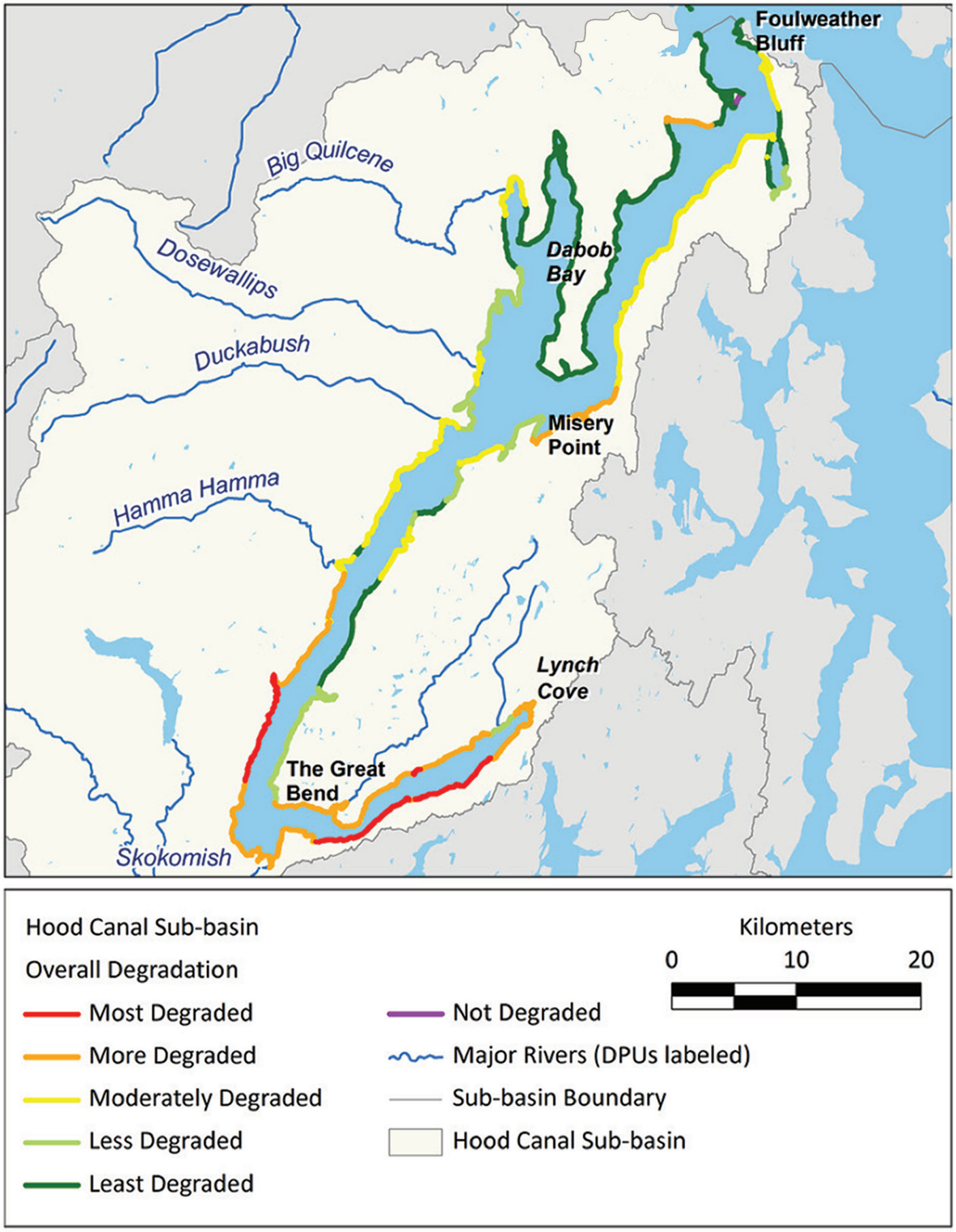
SOURCE: Ecology, 2009; ESRI, 2014.

HCCC ILF Program. 211980

Exhibit 1 - Part 5

WRIA 17 Service Area,
Hood Canal, Washington

0 5
Miles



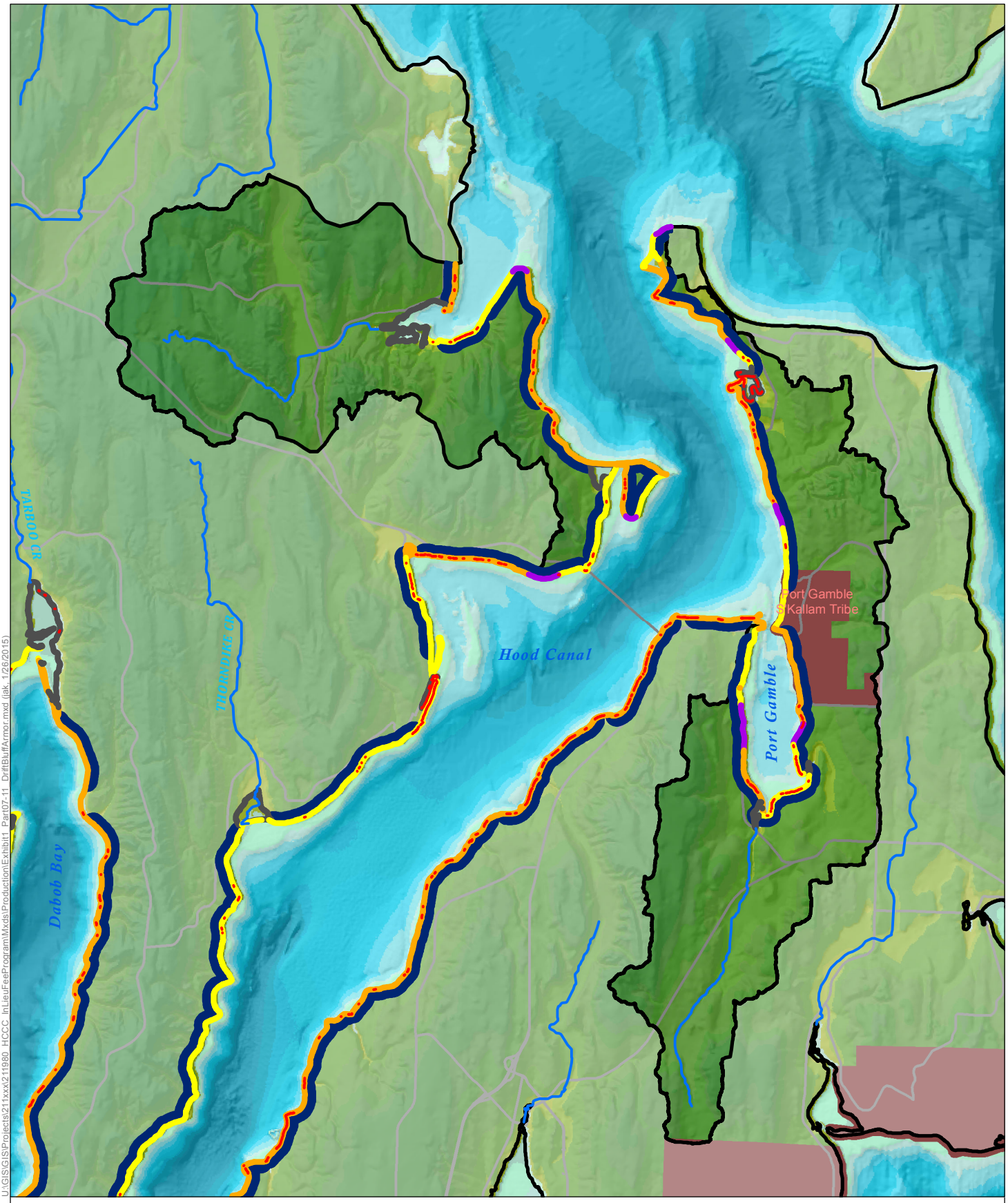
FILE NAME:\\esa\esa\PROJECTS\SEA\NATURAL SCIENCES\2011\211980_HCCC\05_Figures_Photos\Graphics\January2015_revisions\Exhibit01_Part6_SubbasinDegradation.at / CREATED BY: JAB rev DLD / DATE LAST UPDATED: 01/22/2015

SOURCE: Puget Sound Nearshore Ecosystem Restoration Project, 2011.

HCCC ILF Program . 211980

Exhibit 1 - Part 6

Sub-basin Scale Categories of Degradation
in the Hood Canal Sub-basin
Hood Canal, Washington



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part07-11_DriftBluffArmor.mxd (jak, 1/26/2015)

Legend

- AMU Boundary
- Tribal Reservations
- Armoring
- Feeder Bluffs

Drift Cell

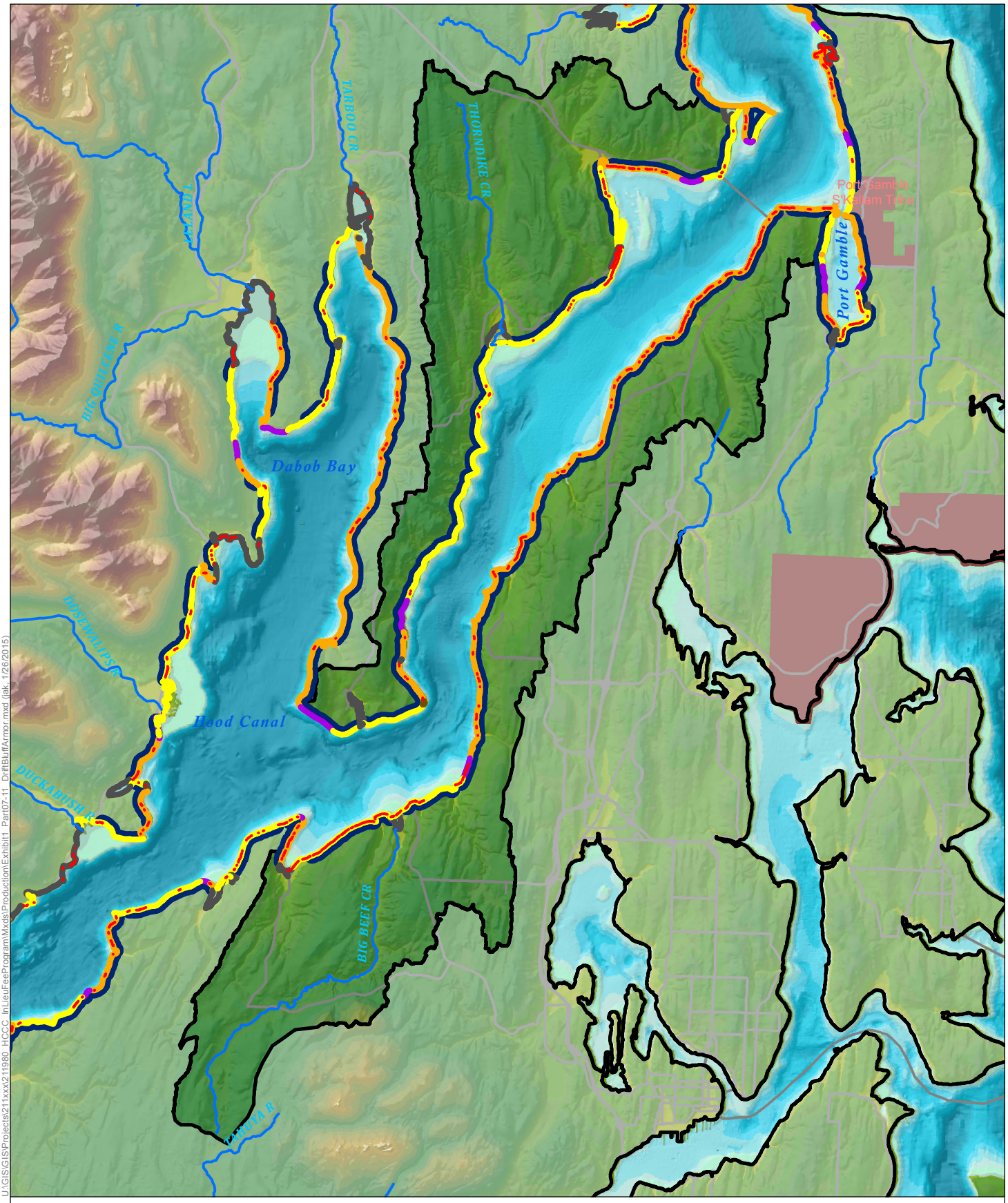
- Convergence Zone
- Divergence Zone
- Left to Right (Facing the Shore)
- Right to Left (Facing the Shore)
- No Appreciable Drift

Drift Cells, Feeder Bluffs & Armoring
Hood Canal Entrance
Exhibit 1 Part 7

N

0 2
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part07-11_DriftBluffArmor.mxd (jak, 1/26/2015)

Legend

- AMU Boundary
- Tribal Reservations
- Armoring
- Feeder Bluffs

Drift Cell

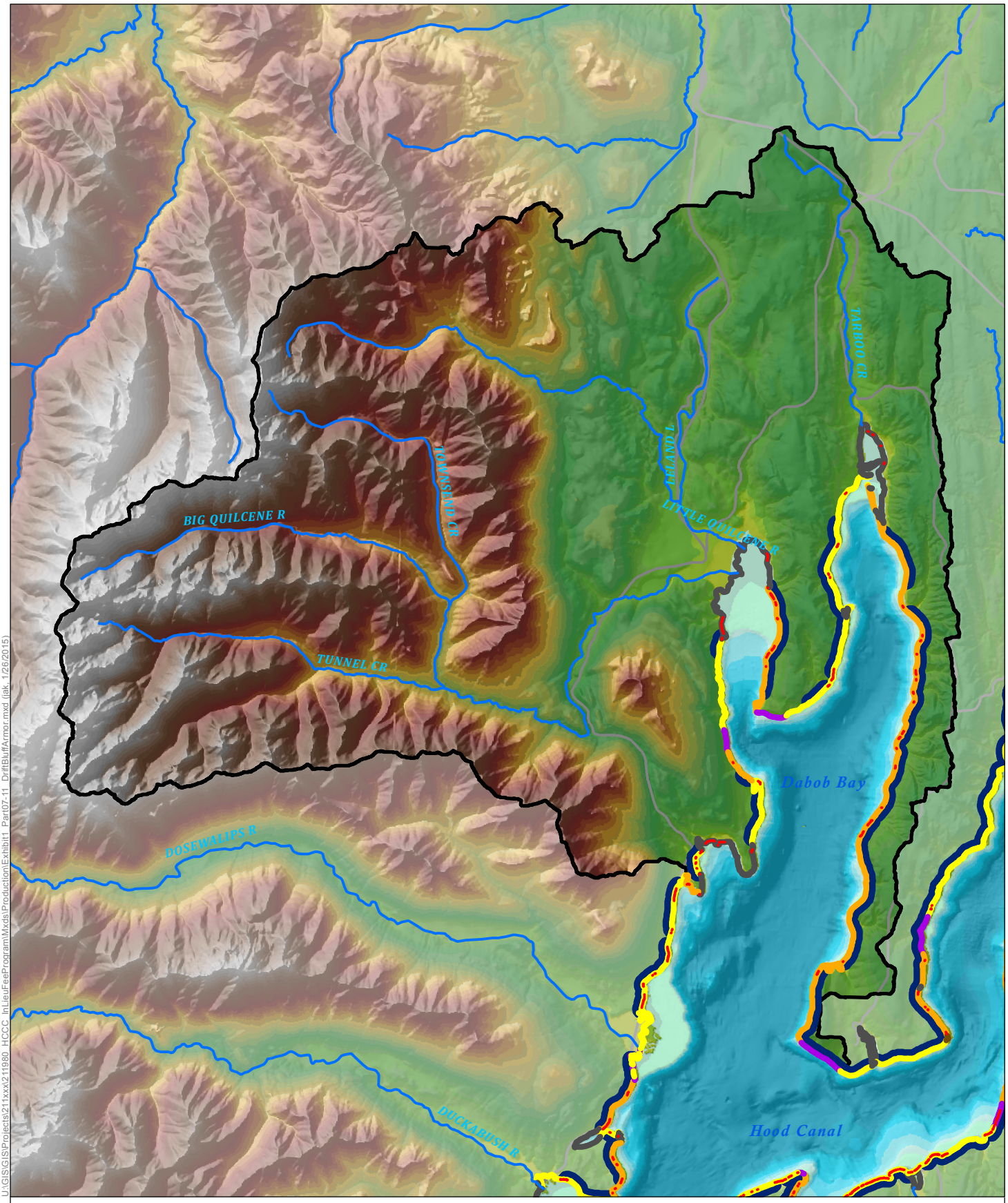
- Convergence Zone
- Divergence Zone
- Left to Right (Facing the Shore)
- Right to Left (Facing the Shore)
- No Appreciable Drift

Drift Cells, Feeder Bluffs & Armoring
North Hood Canal
Exhibit 1 Part 8

N

0 3
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part07-11_DriftBluffArmor.mxd (jak, 1/26/2015)

Legend

- AMU Boundary
- Tribal Reservations
- Armoring
- Feeder Bluffs

Drift Cell

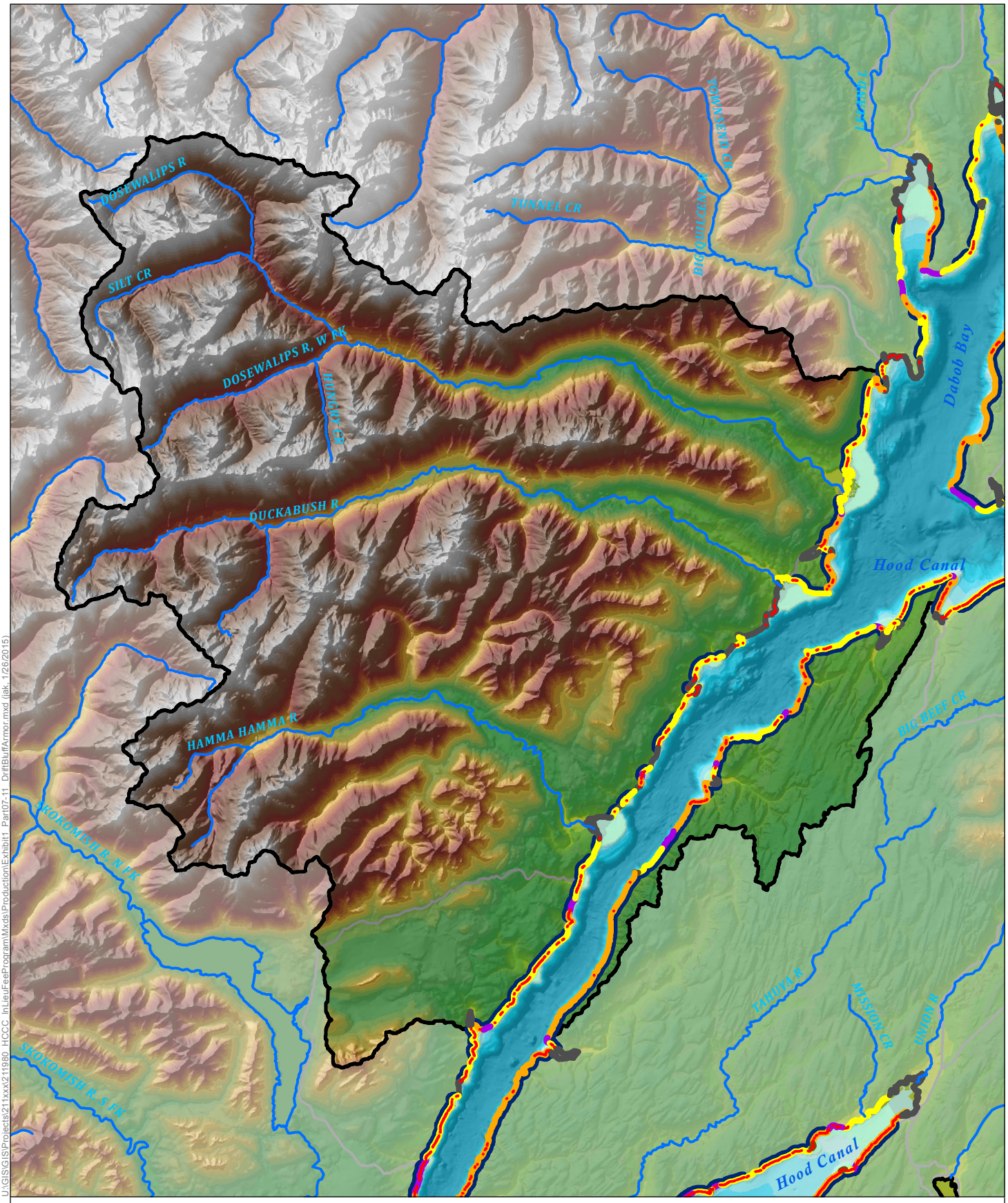
- Convergence Zone
- Divergence Zone
- Left to Right (Facing the Shore)
- Right to Left (Facing the Shore)
- No Appreciable Drift

Drift Cells, Feeder Bluffs & Armoring
Dabob Bay
Exhibit 1 Part 9

N

0 2
Miles

SOURCE: PSNERP, 2010



Legend

- AMU Boundary
- Tribal Reservations
- Armoring
- Feeder Bluffs

Drift Cell

- Convergence Zone
- Divergence Zone
- Left to Right (Facing the Shore)
- Right to Left (Facing the Shore)
- No Appreciable Drift

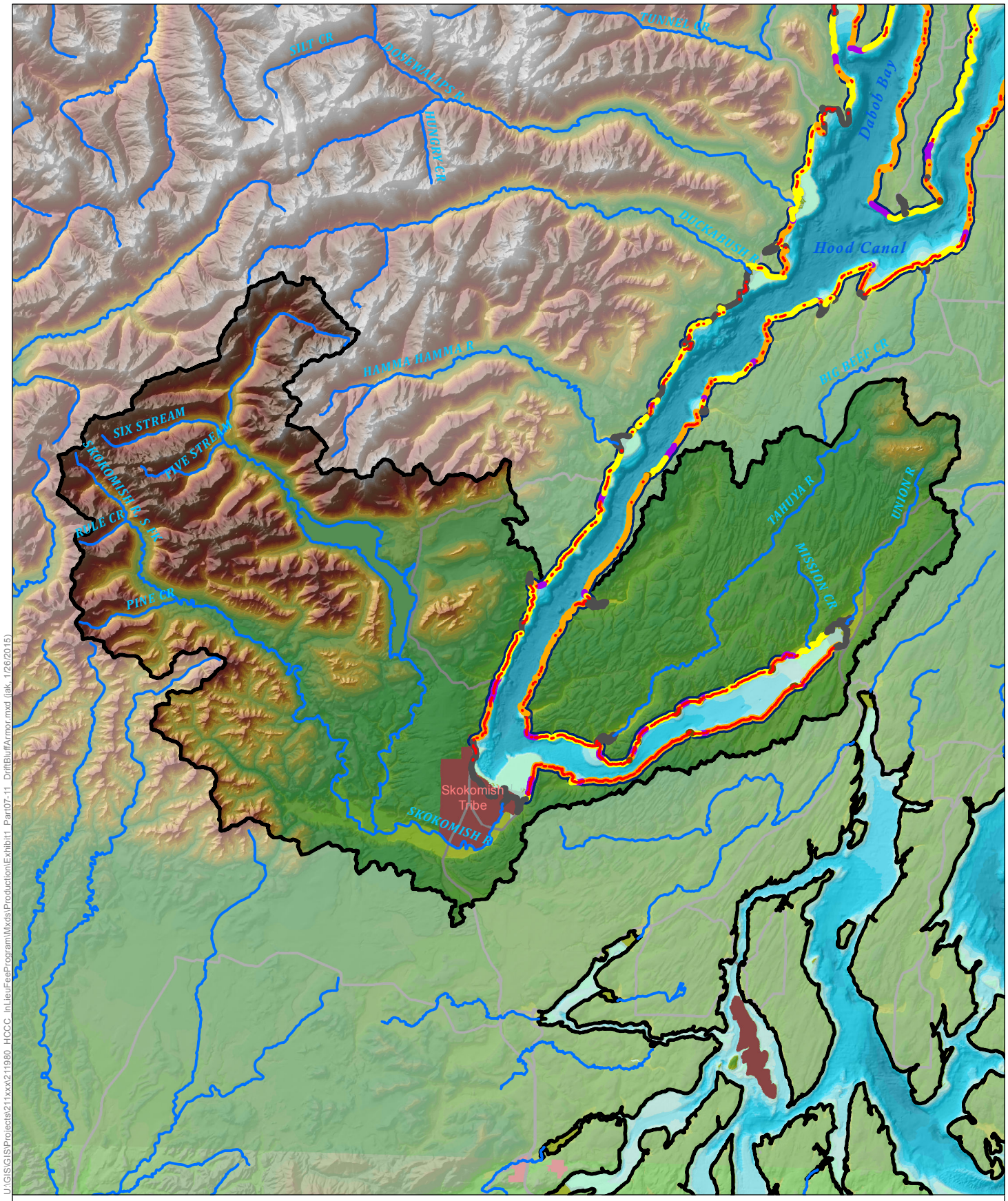
Drift Cells, Feeder Bluffs & Armoring
Central Hood Canal
Exhibit 1 Part 10

N

0 3
Miles

SOURCE: PSNERP, 2010

U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part07-11_DriftBluffArmor.mxd (jak, 1/26/2015)



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part07-11_DriftBluffArmor.mxd (jak, 1/26/2015)

Legend

- AMU Boundary
- Tribal Reservations
- Armoring
- Feeder Bluffs

Drift Cell

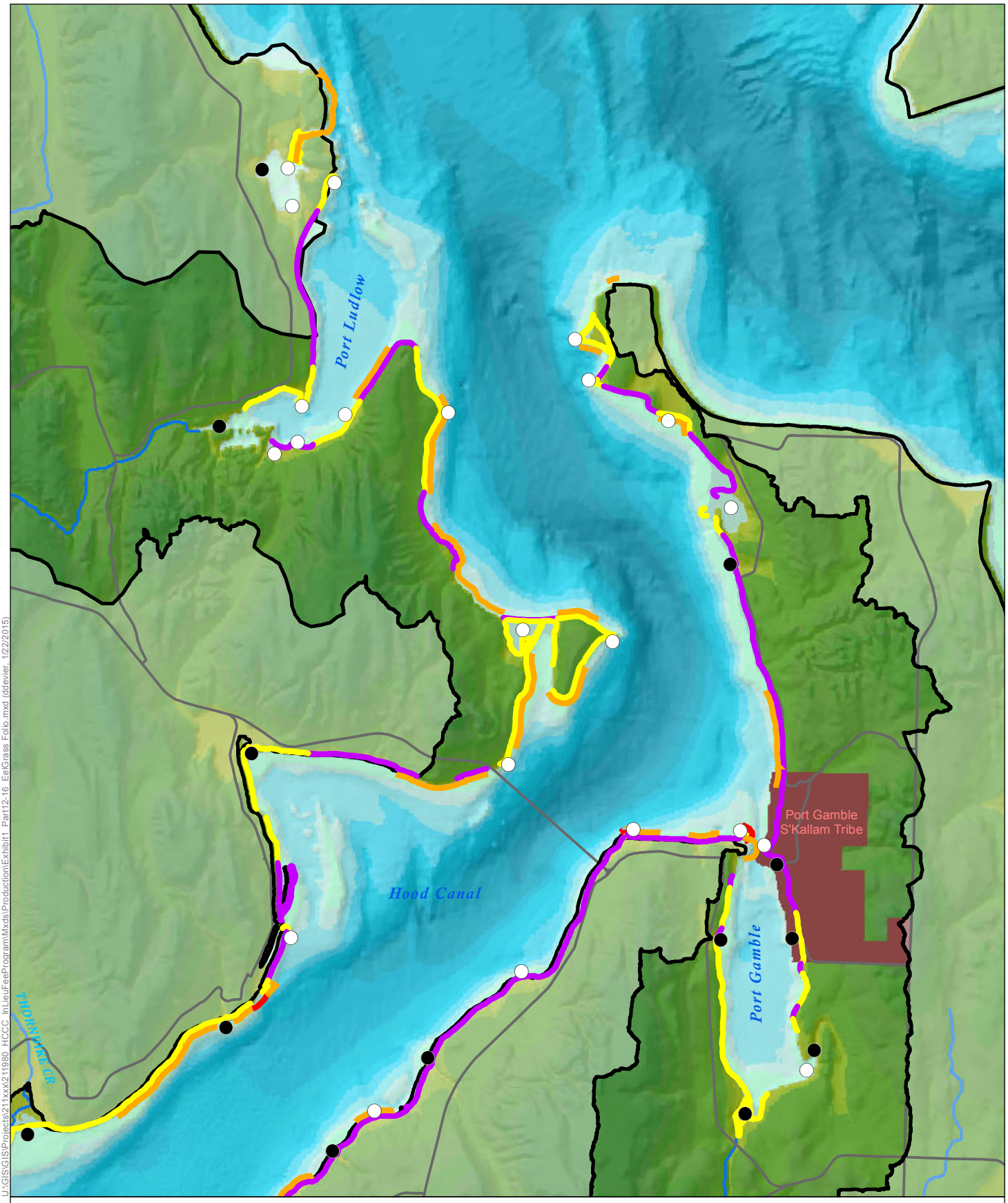
- Convergence Zone
- Divergence Zone
- Left to Right (Facing the Shore)
- Right to Left (Facing the Shore)
- No Appreciable Drift

Drift Cells, Feeder Bluffs & Armoring
South Hood Canal
Exhibit 1 Part 11

N

0 5
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part12-16_EelGrass_Folio.mxd (ddevier, 1/22/2015)

Legend

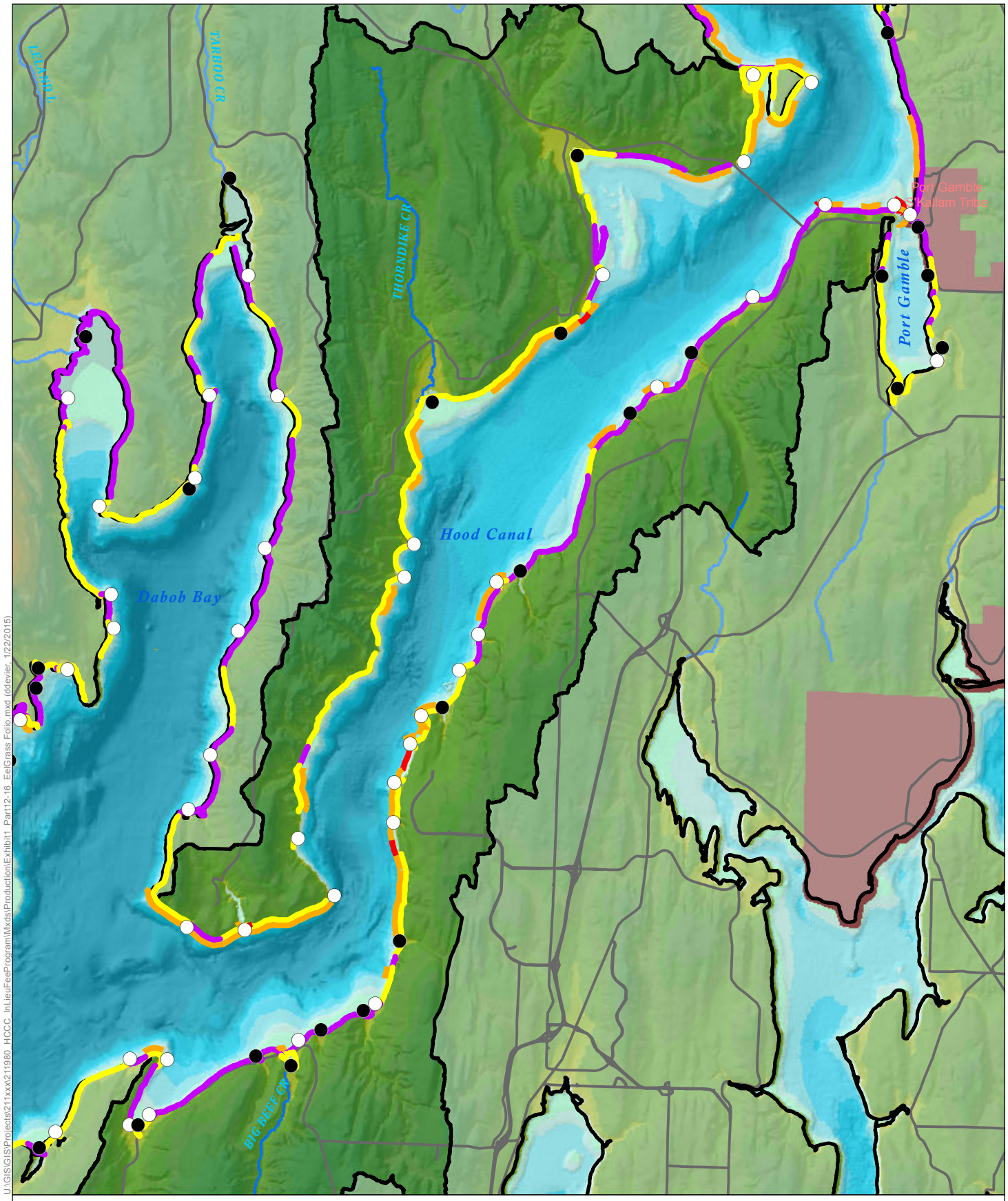
- AMU Boundary
- Tribal Reservations
- Eelgrass (Continuous)
- Eelgrass (Patchy)
- Kelp (Continuous)
- Kelp (Patchy)
- Spit/Marsh Complexes
- Stream-Delta Complexes

Eelgrass, Kelp, and Complexes
Hood Canal Entrance
Exhibit 1 Part 12

N

0 1.3
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part12-16_EelGrass Folio.mxd (ddevier, 1/22/2015)

Legend

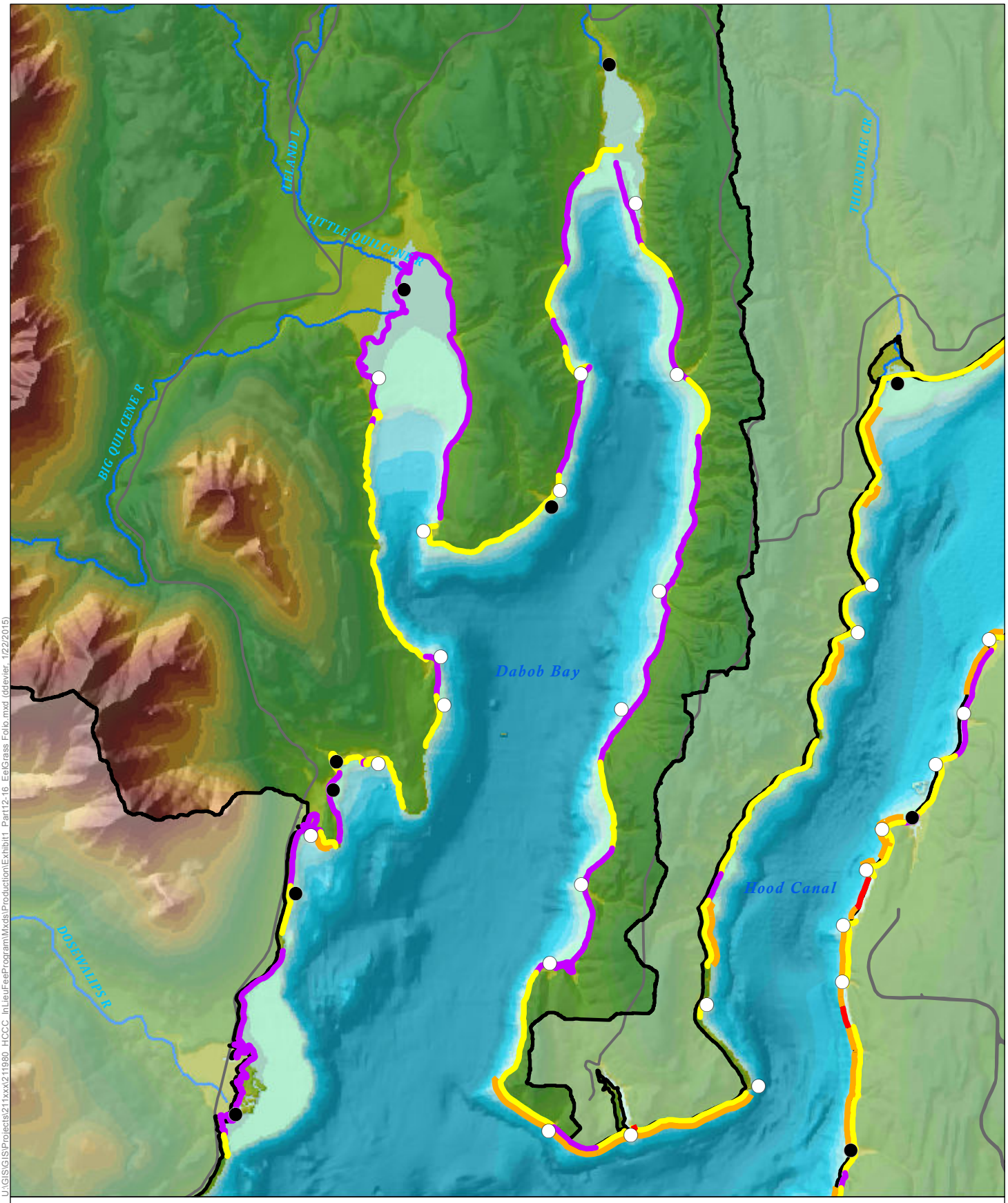
- AMU Boundary
- Tribal Reservations
- Eelgrass (Continuous)
- Eelgrass (Patchy)
- Kelp (Continuous)
- Kelp (Patchy)
- Spit/Marsh Complexes
- Stream-Delta Complexes

Eelgrass, Kelp, and Complexes
North Hood Canal
Exhibit 1 Part 13

N

0 2
Miles

SOURCE: PSNERP, 2010



Legend

- AMU Boundary
- Tribal Reservations
- Eelgrass (Continuous)
- Eelgrass (Patchy)
- Kelp (Continuous)
- Kelp (Patchy)
- Spit/Marsh Complexes
- Stream-Delta Complexes

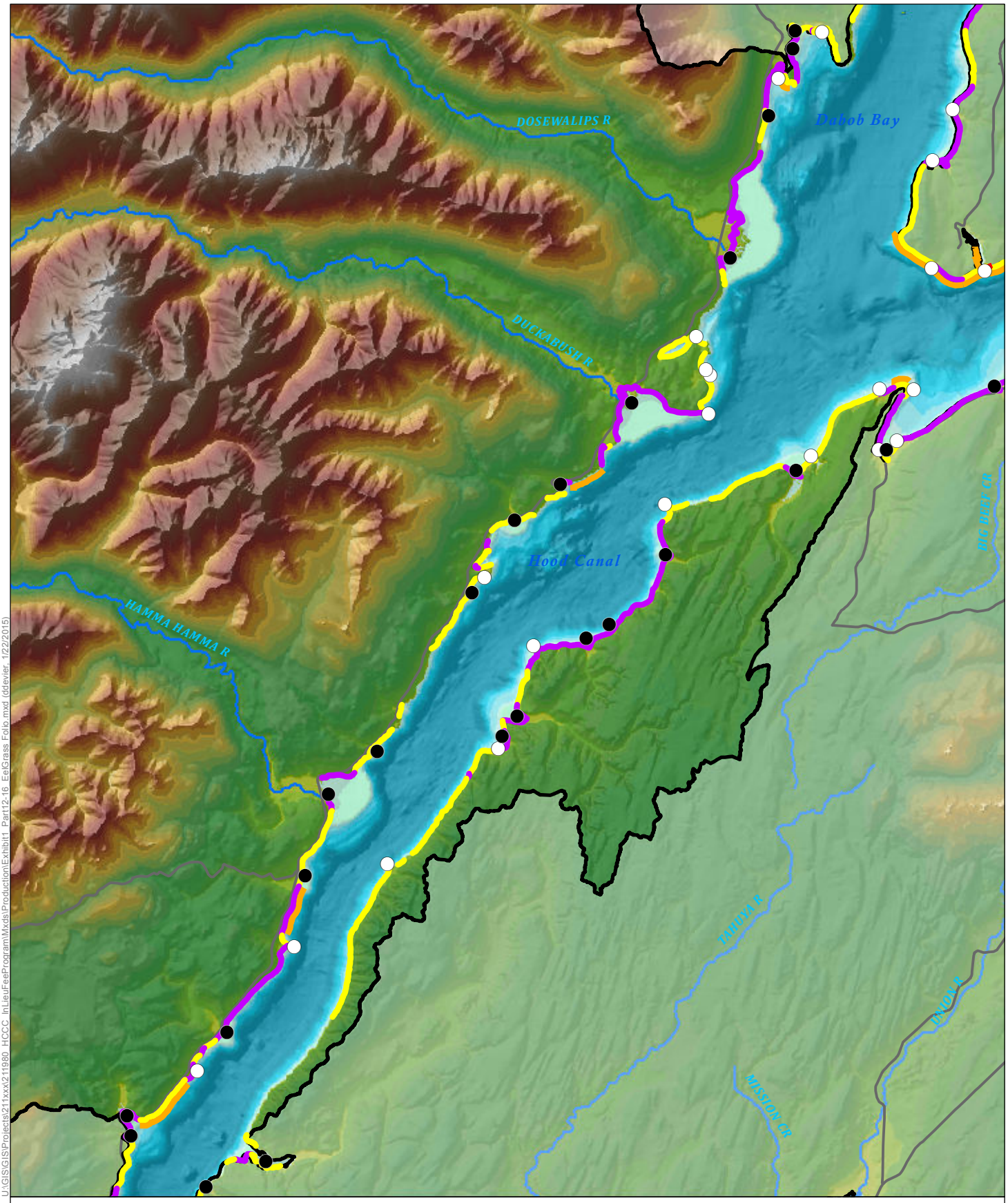
Eelgrass, Kelp, and Complexes
Dabob Bay
Exhibit 1 Part 14

N

0 1.4
Miles

SOURCE: PSNERP, 2010

U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part12-16_EelGrass_Folio.mxd (ddevier, 1/22/2015)



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part12-16_EelGrass_Folio.mxd (ddevier, 1/22/2015)

Legend

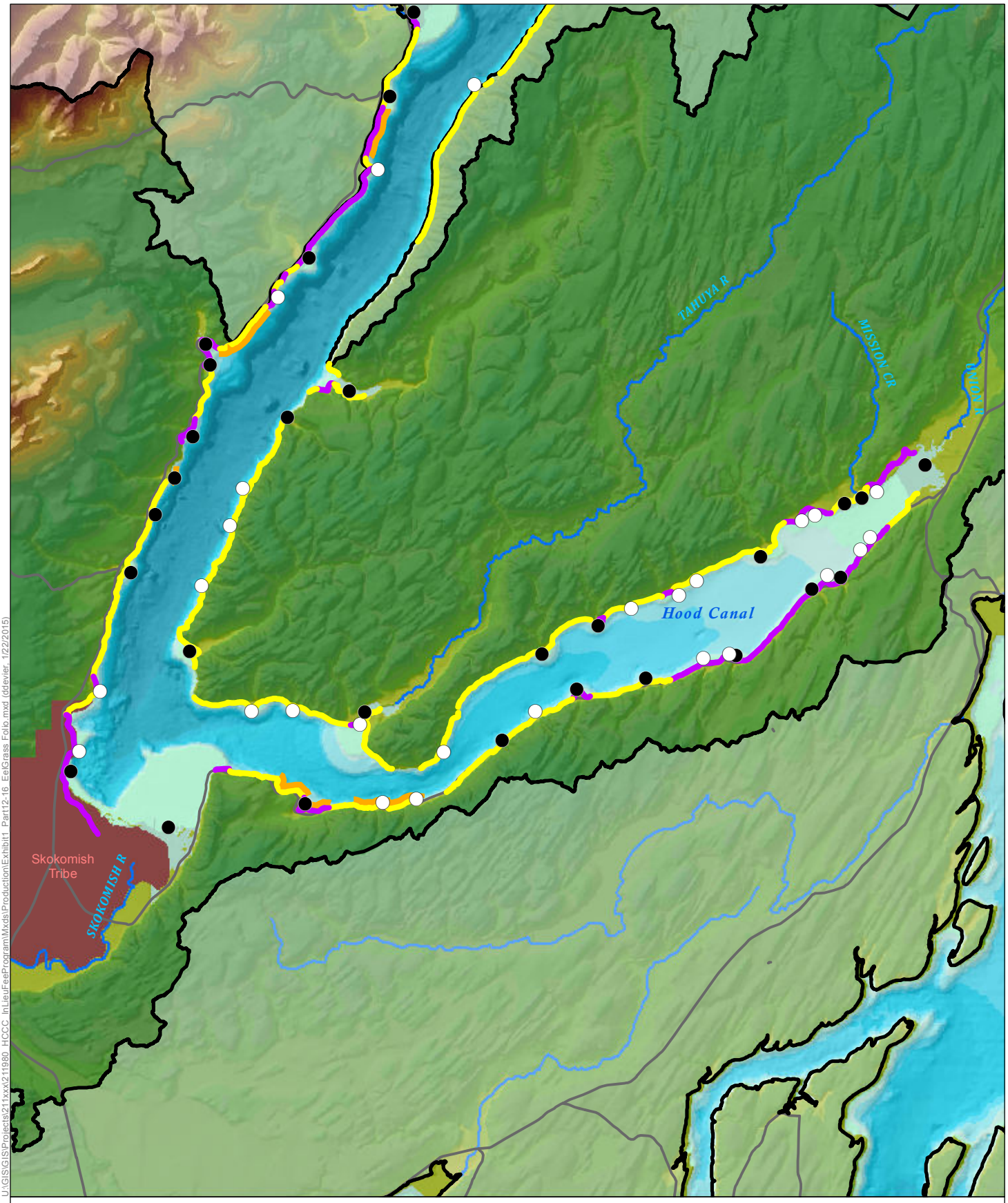
- AMU Boundary
- Tribal Reservations
- Eelgrass (Continuous)
- Eelgrass (Patchy)
- Kelp (Continuous)
- Kelp (Patchy)
- Spit/Marsh Complexes
- Stream-Delta Complexes

Eelgrass, Kelp, and Complexes
Central Hood Canal
Exhibit 1 Part 15

N

0 2
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part12-16_EelGrass Folio.mxd (ddevier, 1/22/2015)

Legend

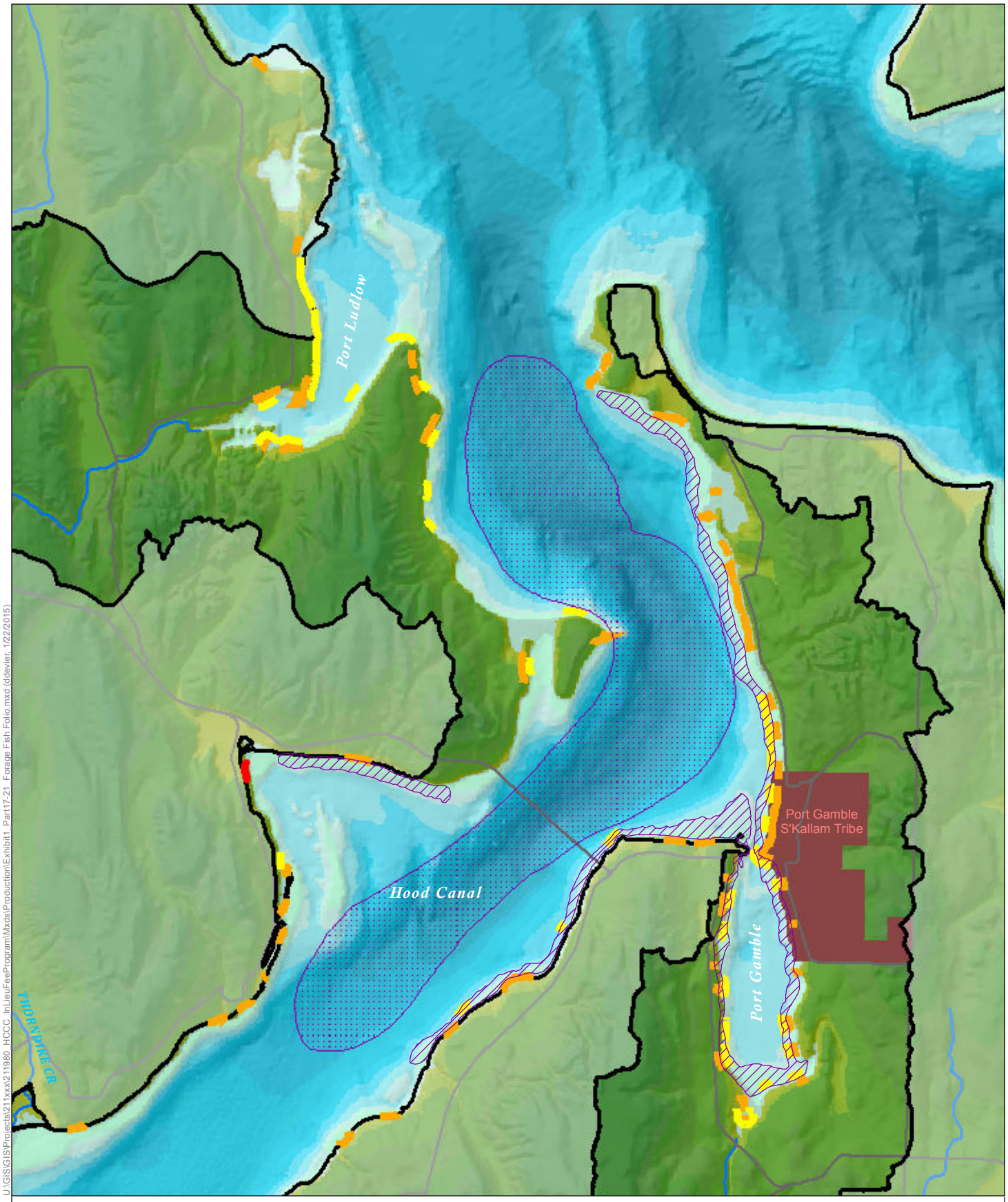
- AMU Boundary
- Tribal Reservations
- Eelgrass (Continuous)
- Eelgrass (Patchy)
- Kelp (Continuous)
- Kelp (Patchy)
- Spit/Marsh Complexes
- Stream-Delta Complexes

Eelgrass, Kelp, and Complexes
South Hood Canal
Exhibit 1 Part 16

N

0 2
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part17-21_Forage Fish Folio.mxd (ddevier, 1/22/2015)

Legend

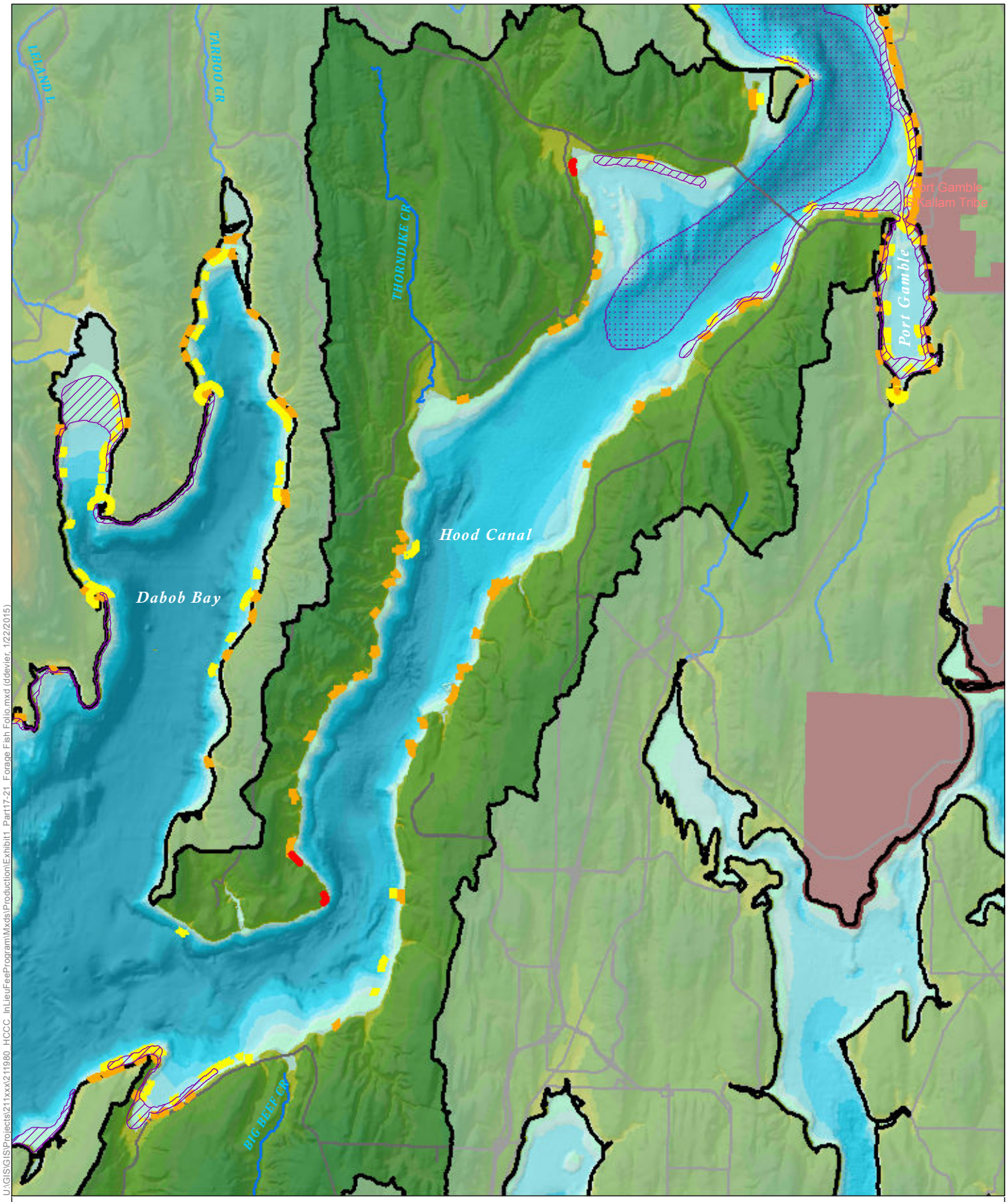
- AMU Boundary
- Tribal Reservations
- Herring Holding
- Herring Spawning
- Sand Lance Spawning
- Smelt Spawning
- Rock Sole

Forage Fish
Hood Canal Entrance
Exhibit 1 - Part 17

N

0 1.3
Miles

SOURCE: WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part17-21_Forage Fish Folio.mxd (ddevier, 1/22/2015)

Legend

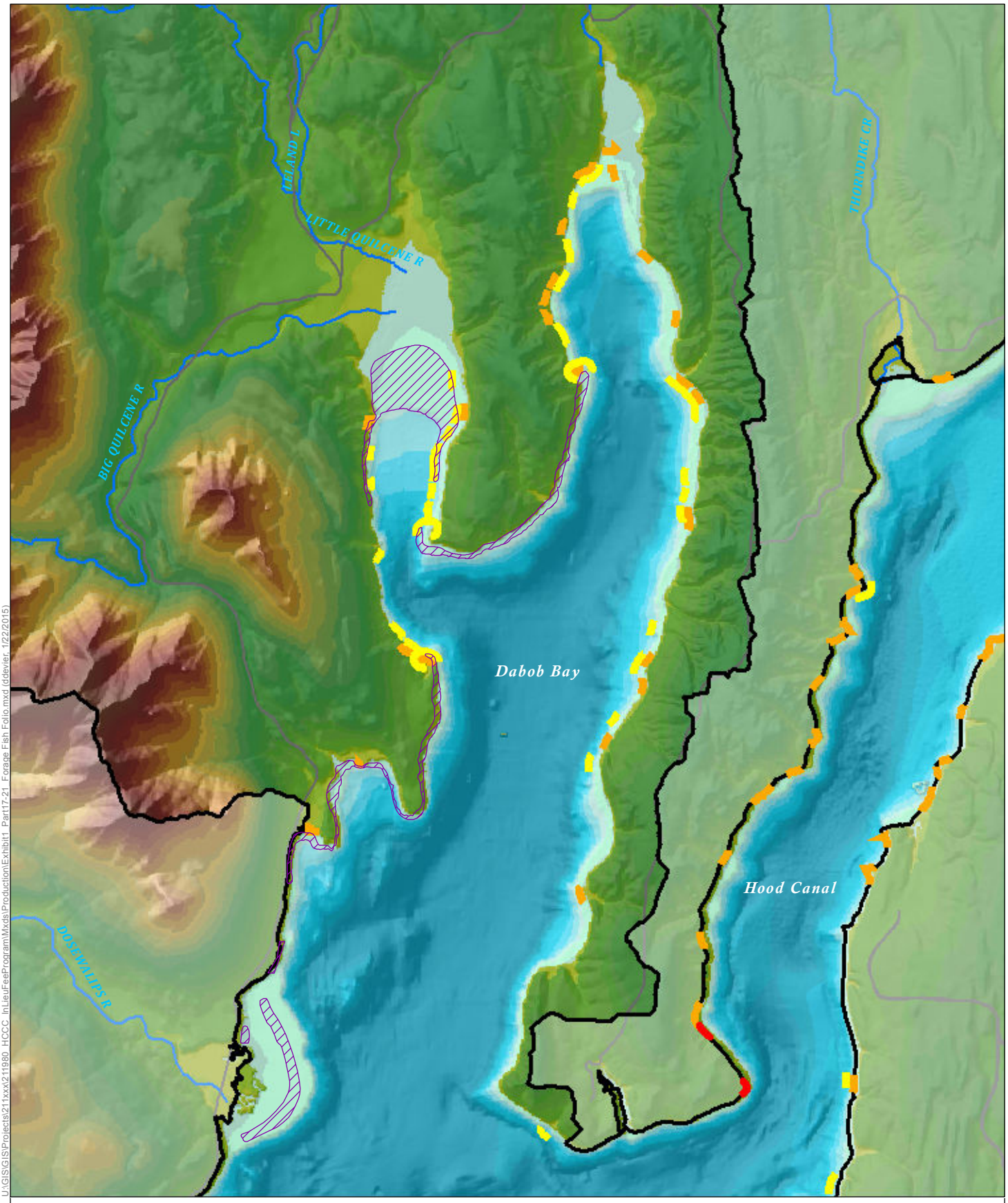
- AMU Boundary
- Tribal Reservations
- Herring Holding
- Herring Spawning
- Sand Lance Spawning
- Smelt Spawning
- Rock Sole

Forage Fish
North Hood Canal
Exhibit 1 - Part 18

N

0 2
Miles

SOURCE: WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part17-21_Forage Fish Folio.mxd (ddevier, 1/22/2015)

Legend

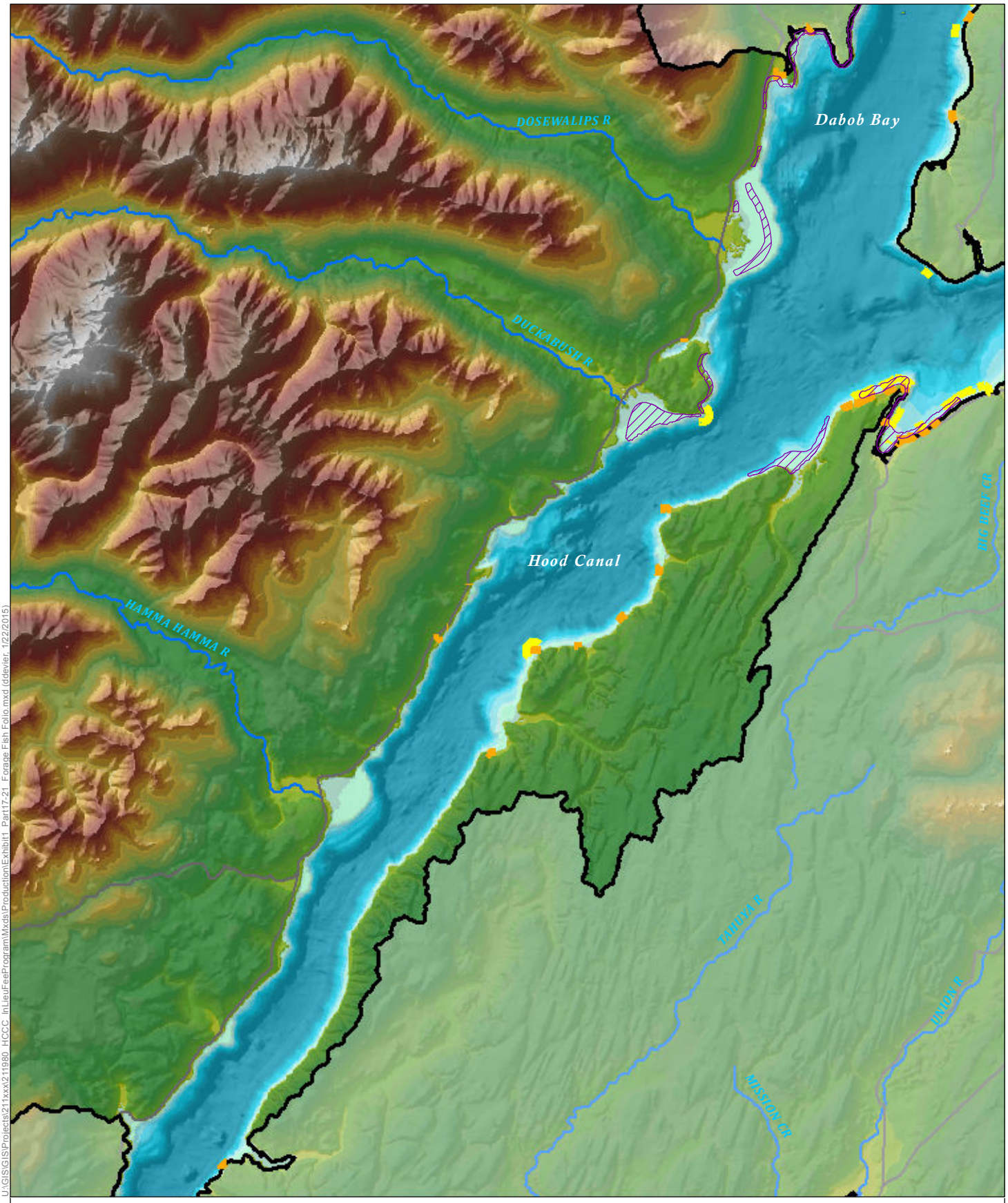
- AMU Boundary
- Tribal Reservations
- Herring Holding
- Herring Spawning
- Sand Lance Spawning
- Smelt Spawning
- Rock Sole

Forage Fish
Dabob Bay
Exhibit 1 - Part 19

N

0 1.4
Miles

SOURCE: WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part17-21_Forage Fish Folio.mxd (ddevier, 1/22/2015)

Legend

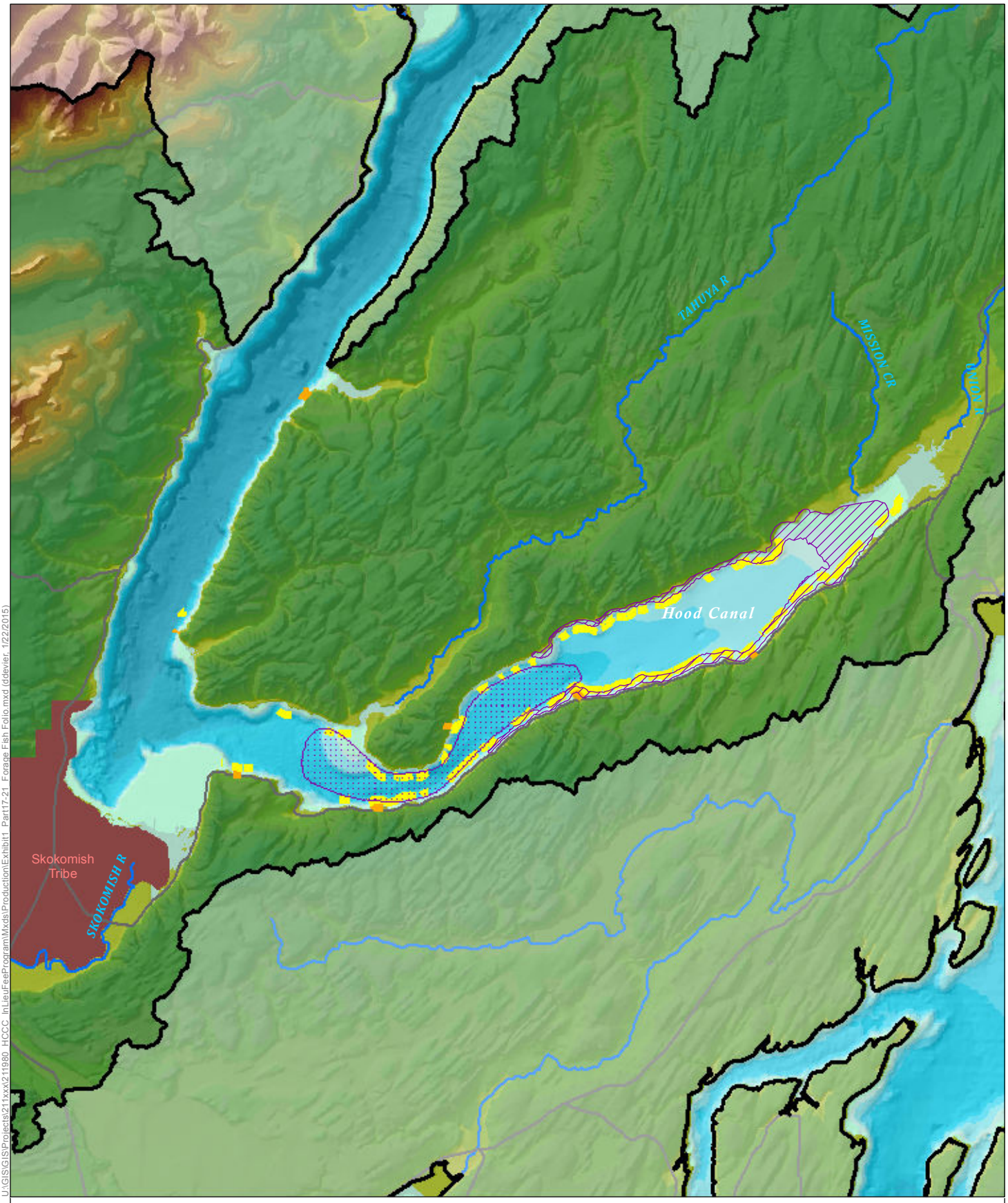
- AMU Boundary
- Tribal Reservations
- Herring Holding
- Herring Spawning
- Sand Lance Spawning
- Smelt Spawning
- Rock Sole

Forage Fish
Central Hood Canal
Exhibit 1 - Part 20

N

0 2
Miles

SOURCE: WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part17-21_Forage Fish Folio.mxd (ddevier, 1/22/2015)

Legend

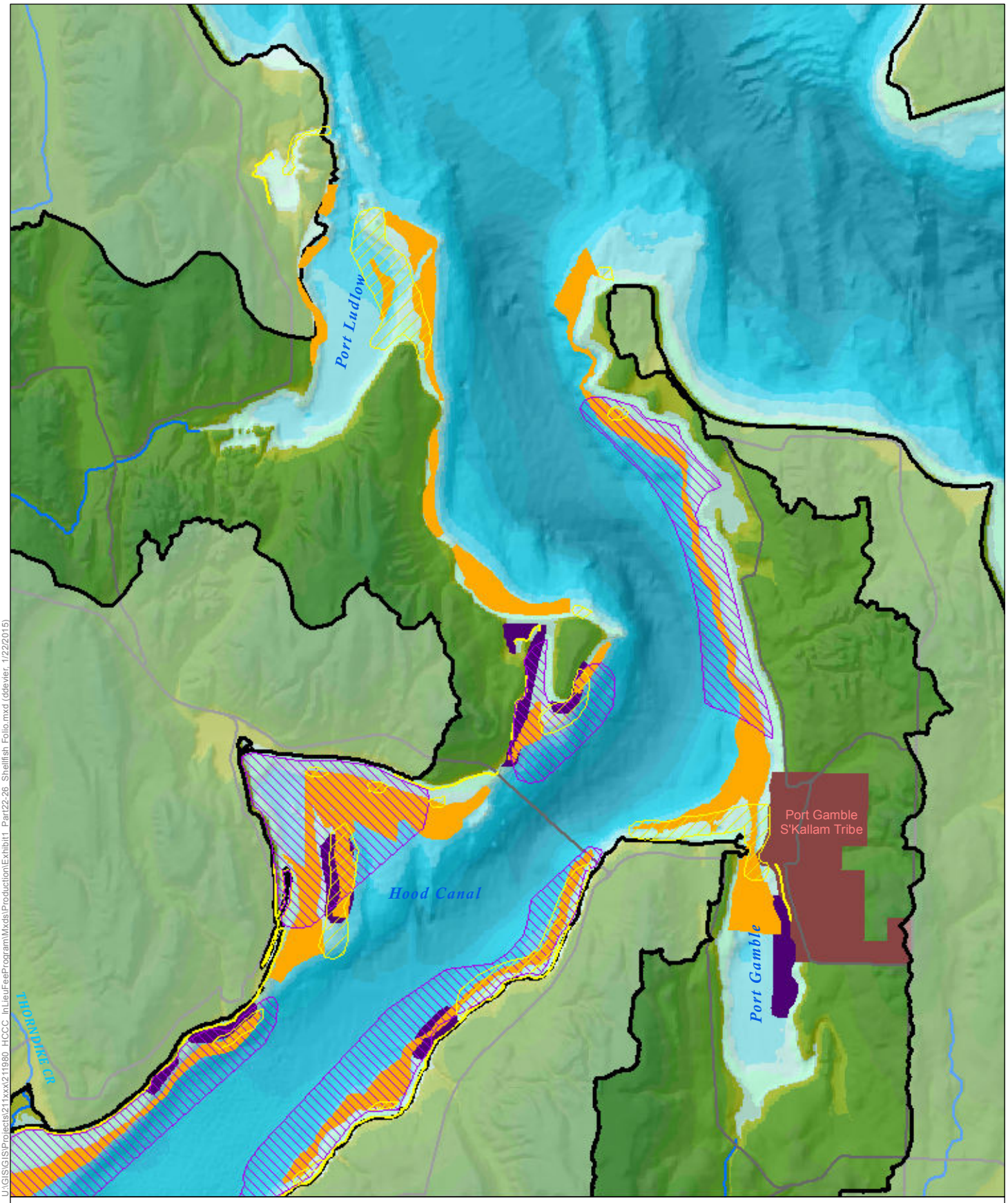
- AMU Boundary
- Tribal Reservations
- Herring Holding
- Herring Spawning
- Sand Lance Spawning
- Smelt Spawning
- Rock Sole

Forage Fish
South Hood Canal
Exhibit 1 - Part 21

N

0 2
Miles

SOURCE: WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part22-26_Shellfish_Folio.mxd (ddevier, 1/22/2015)

Legend

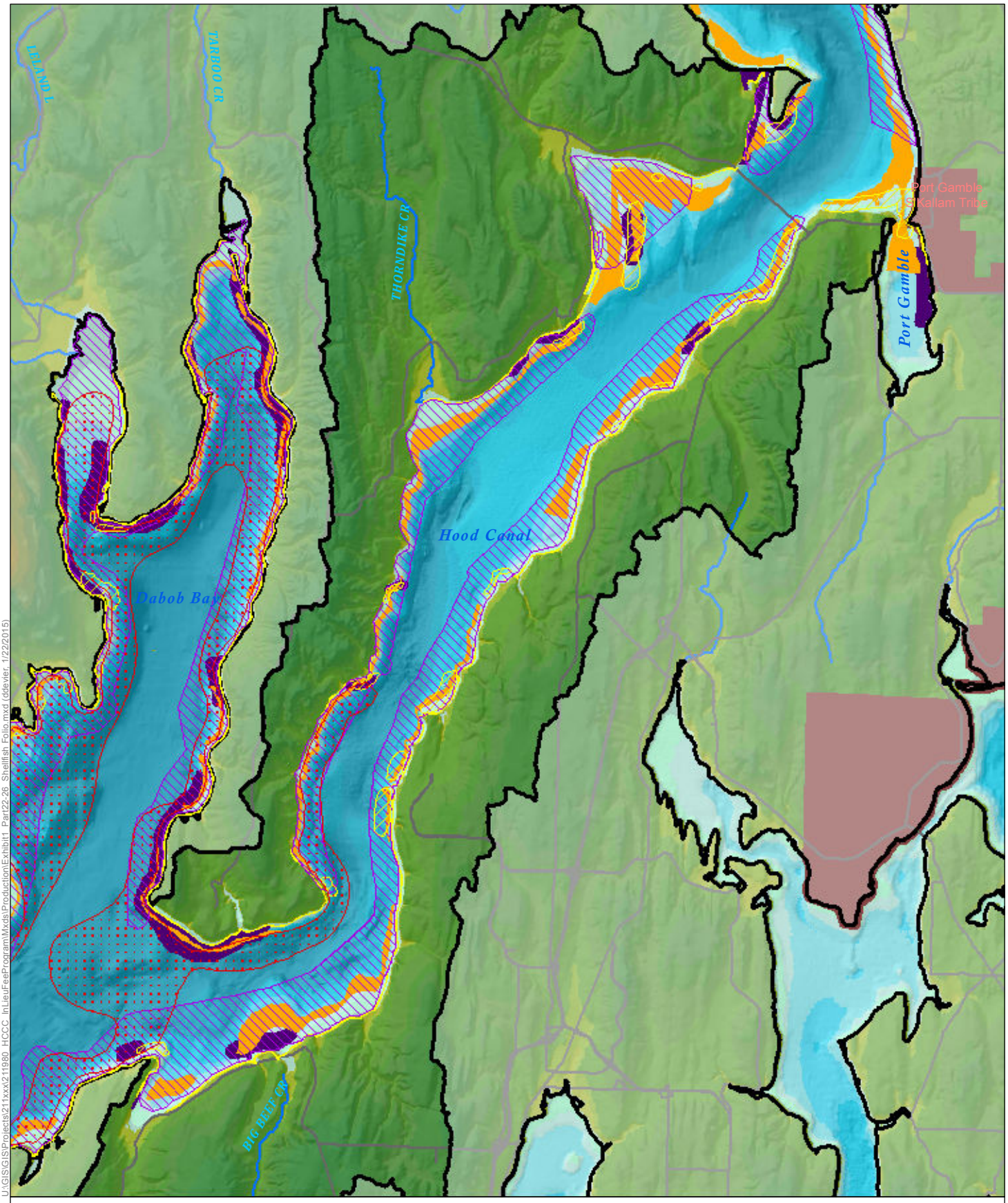
- AMU Boundary
- Tribal Reservations
- Pandalid Shrimp
- Subtidal Hardshell Clam
- Dungeness Crab
- Geoduck
- Oyster Beds
- Hardshell Clam

Shellfish
Hood Canal Entrance
Exhibit 1 - Part 22

N

0 1.3
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part22-26_Shellfish_Folio.mxd (ddevier, 1/22/2015)

Legend

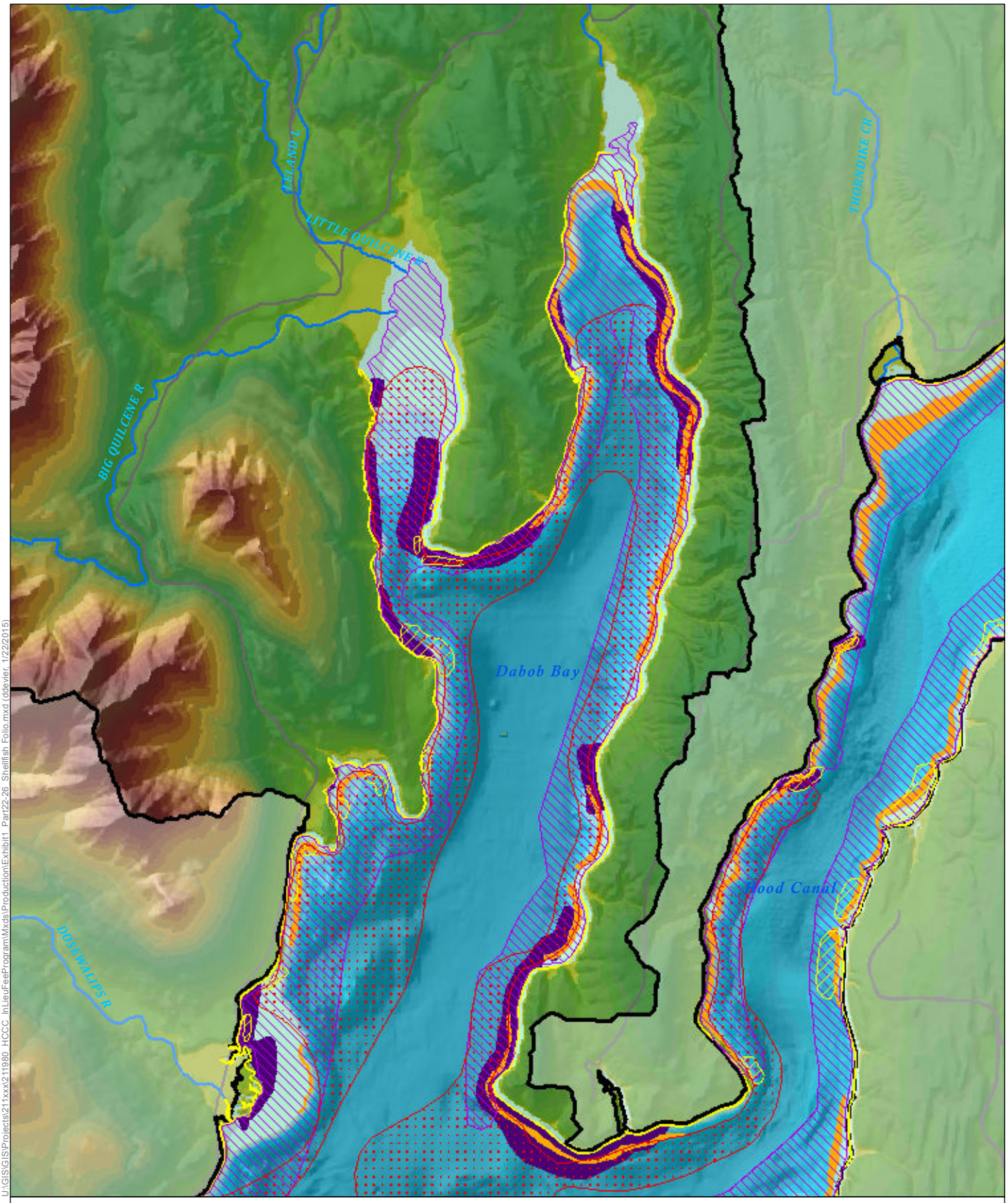
- AMU Boundary
- Tribal Reservations
- Pandalid Shrimp
- Subtidal Hardshell Clam
- Dungeness Crab
- Geoduck
- Oyster Beds
- Hardshell Clam

Shellfish
North Hood Canal
Exhibit 1 - Part 23

N

0 2
Miles

SOURCE: PSNERP, 2010



Legend

- AMU Boundary
- Tribal Reservations
- Pandalid Shrimp
- Subtidal Hardshell Clam
- Dungeness Crab
- Geoduck
- Oyster Beds
- Hardshell Clam

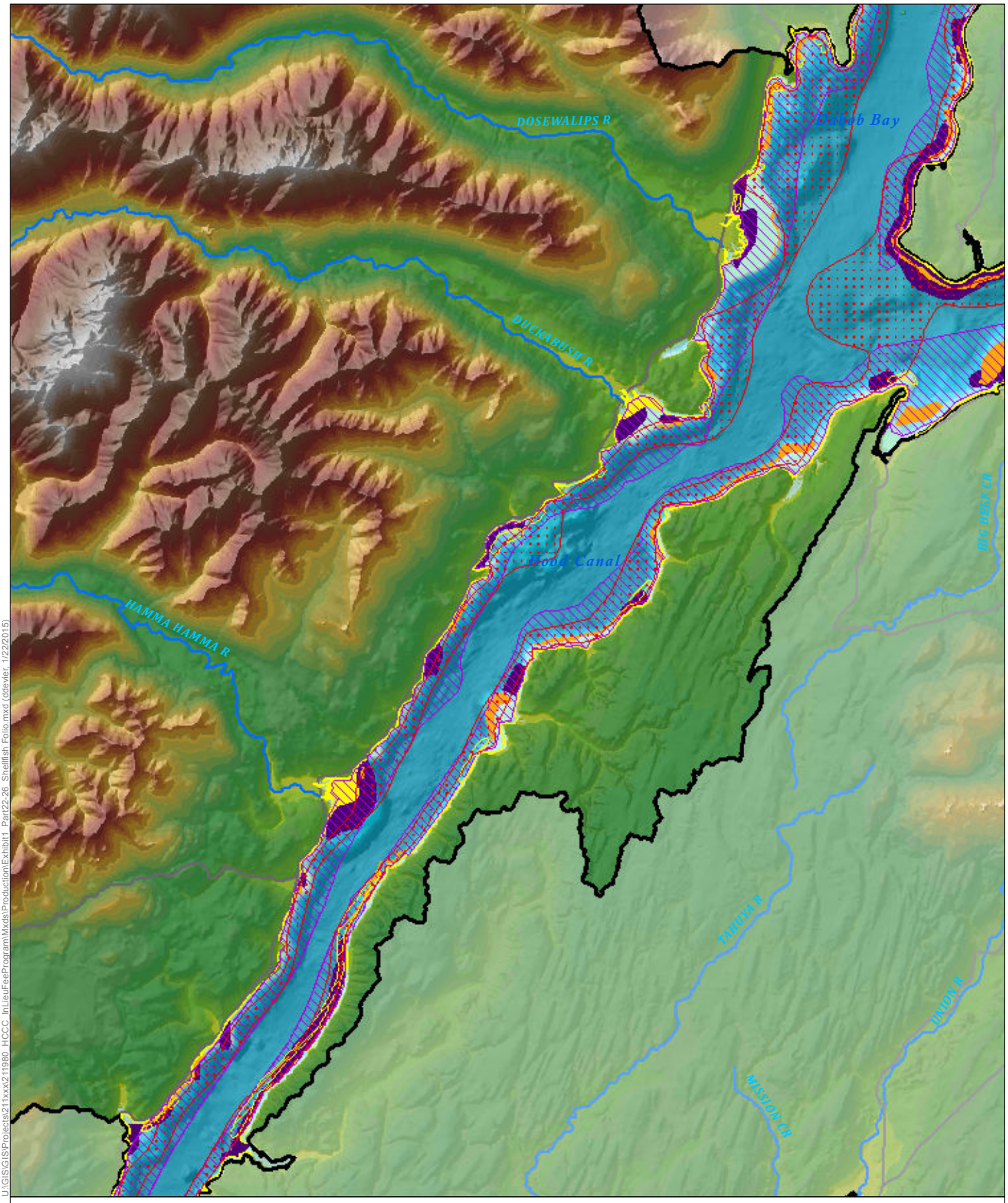
Shellfish
Dabob Bay
Exhibit 1 - Part 24

N

0 1.4
Miles

SOURCE: PSNERP, 2010

U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part22-26_Shellfish Follio.mxd (ddevier, 1/22/2015)



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part22-26_Shellfish_Folio.mxd (ddevier, 1/22/2015)

Legend

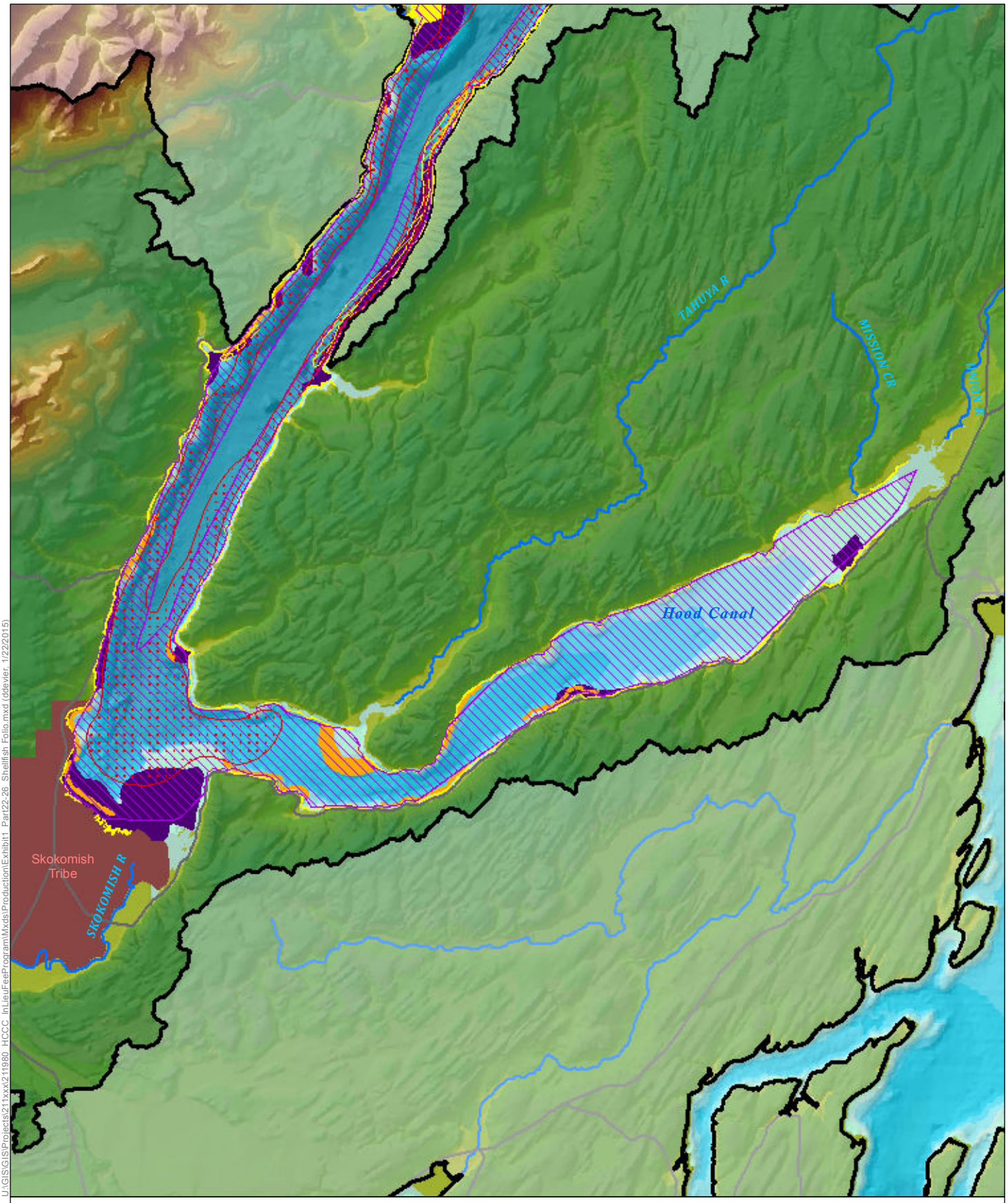
- AMU Boundary
- Tribal Reservations
- Pandalid Shrimp
- Subtidal Hardshell Clam
- Dungeness Crab
- Geoduck
- Oyster Beds
- Hardshell Clam

SOURCE: PSNERP, 2010

Shellfish
Central Hood Canal
Exhibit 1 - Part 25

N

0 2
Miles



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part22-26_Shellfish_Folio.mxd (ddevier, 1/22/2015)

Legend

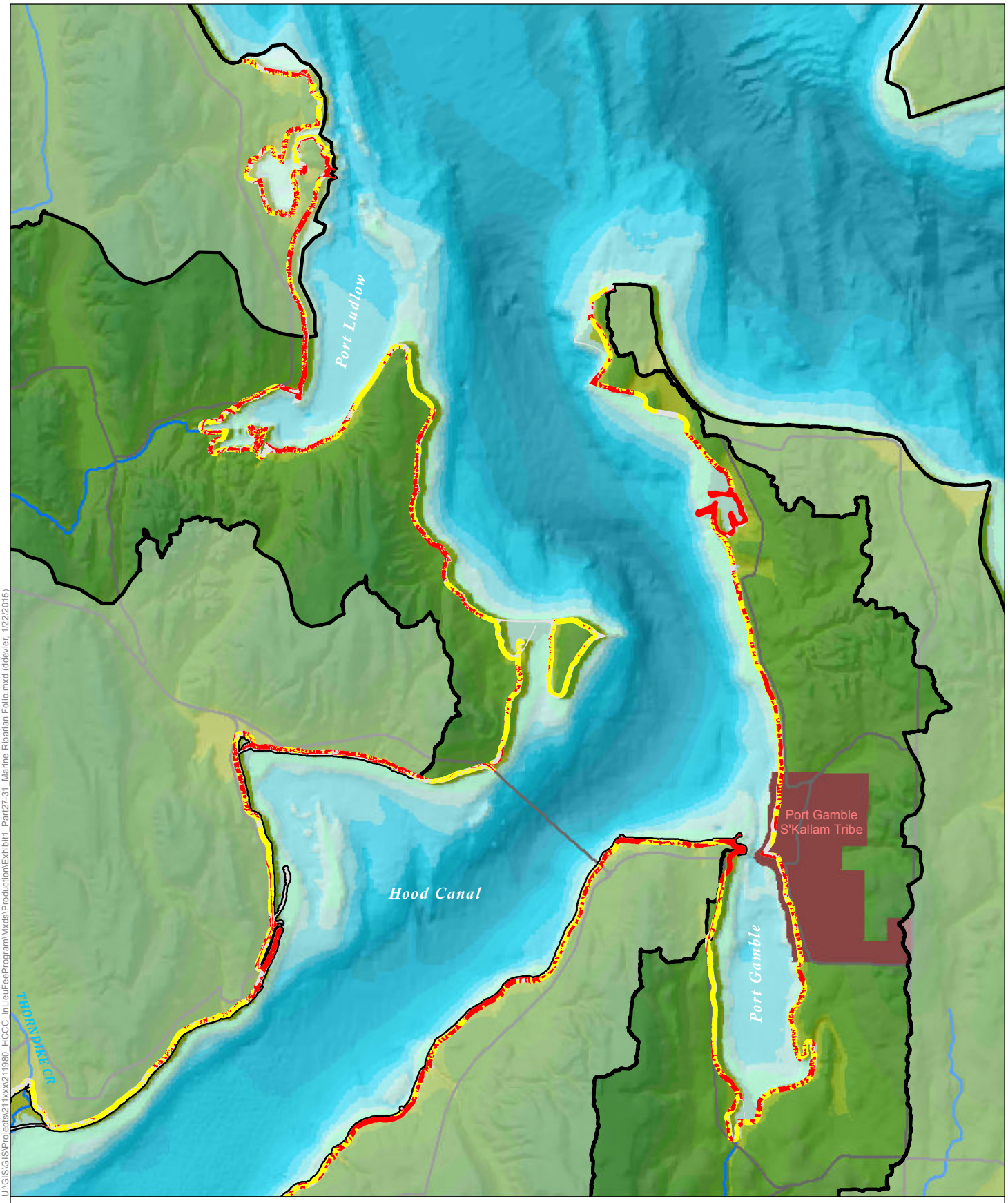
- AMU Boundary
- Tribal Reservations
- Pandalid Shrimp
- Subtidal Hardshell Clam
- Dungeness Crab
- Geoduck
- Oyster Beds
- Hardshell Clam

Shellfish
South Hood Canal
Exhibit 1 - Part 26

N

0 2
Miles

SOURCE: PSNERP, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part27-31_Marine Riparian Folio.mxd (ddevier, 1/22/2015)

Legend

- AMU Boundary
- Tribal Reservations

Marine Riparain (300ft from OHWM)

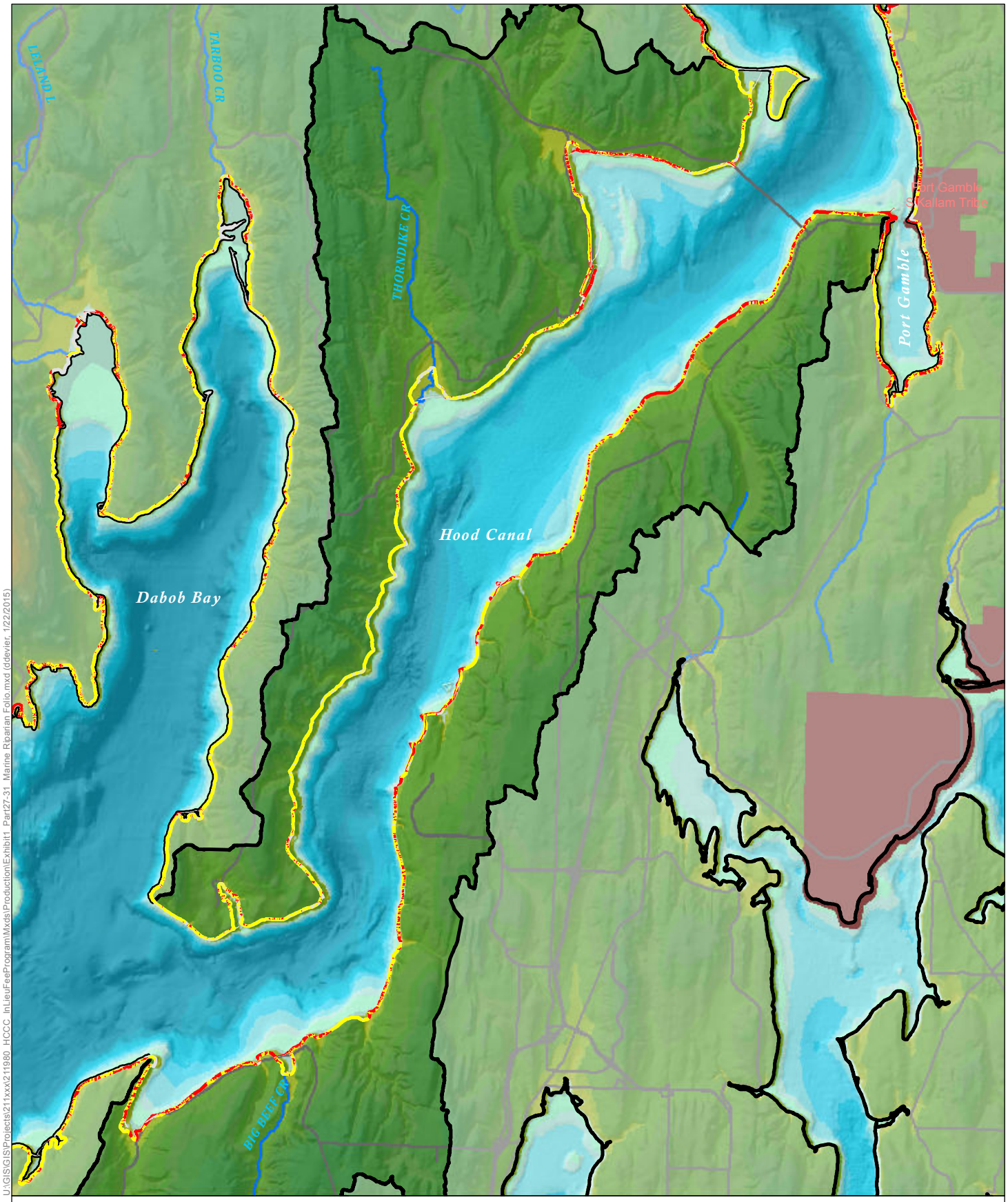
- Closed Canopy
- Non-Forest
- No Data

SOURCE: HCCC, 2012

Marine Riparian
Hood Canal Entrance
Exhibit 1 - Part 27

N

0 1.3
Miles



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part27-31_Marine Riparian Folio.mxd (ddevier, 1/22/2015)

Legend

- AMU Boundary
- Tribal Reservations

Marine Riparain (300ft from OHWM)

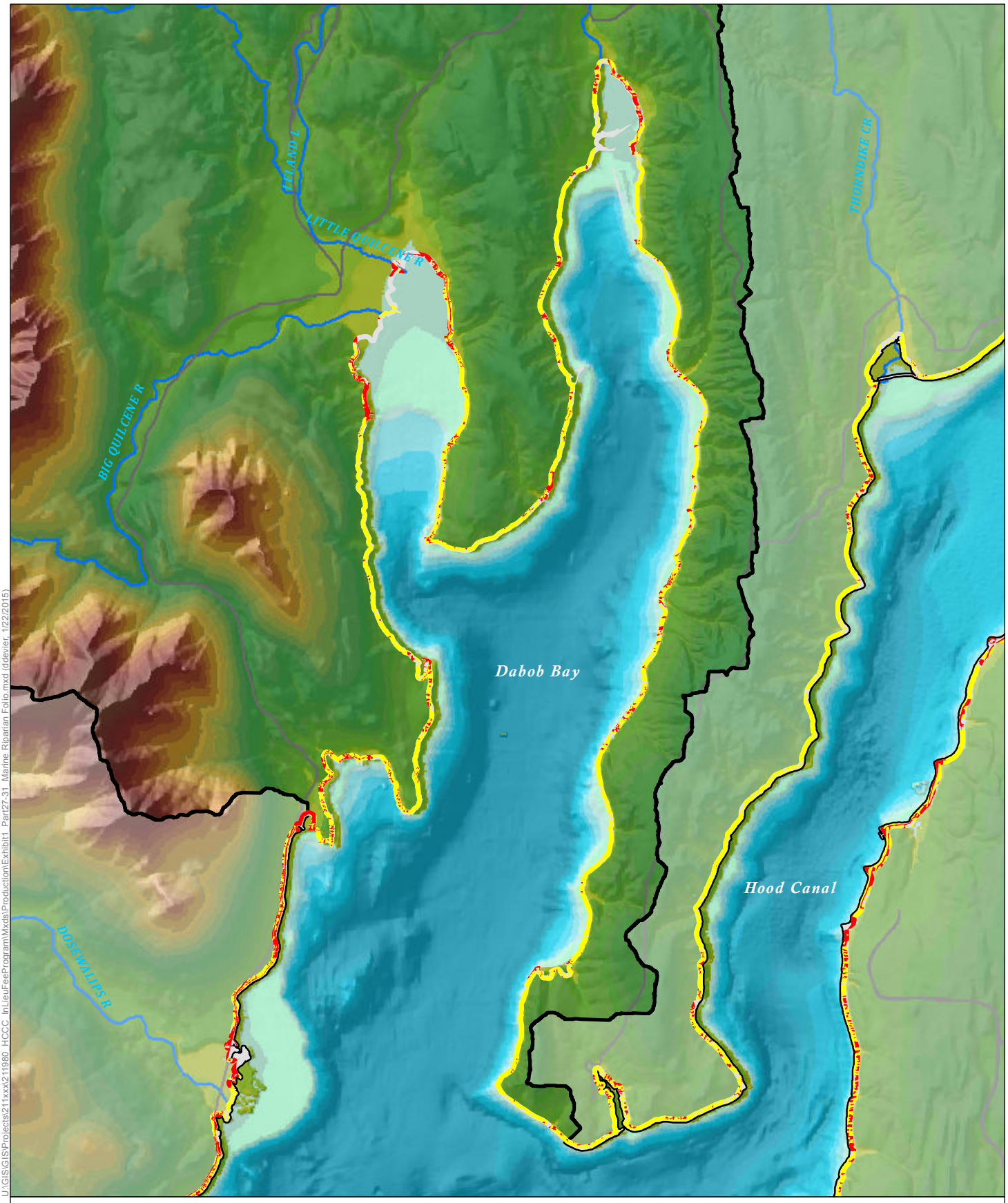
- Closed Canopy
- Non-Forest
- No Data

Marine Riparian
North Hood Canal
Exhibit 1 - Part 28

N

0 2
Miles

SOURCE: HCCC, 2012



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part27-31_Marine Riparian Folio.mxd (ddevier, 1/22/2015)

Legend

AMU Boundary

Tribal Reservations

Marine Riparain (300ft from OHWM)

Closed Canopy

Non-Forest

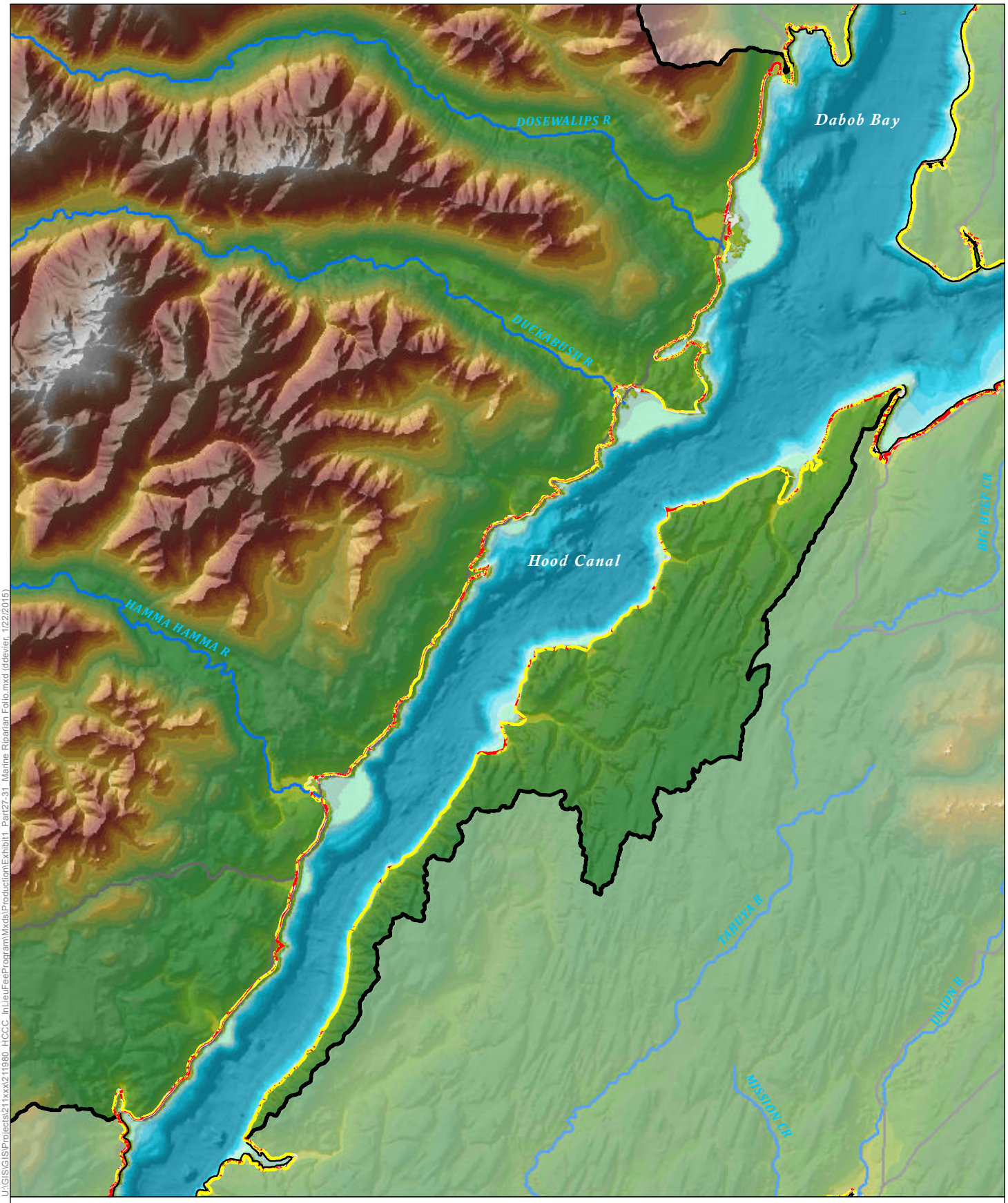
No Data

Marine Riparian
Dabob Bay
Exhibit 1 - Part 29

N

0 1.4
Miles

SOURCE: HCCC, 2012



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part27-31_Marine Riparian Folio.mxd (ddevier, 1/22/2015)

Legend

- AMU Boundary
- Tribal Reservations

Marine Riparain (300ft from OHWM)

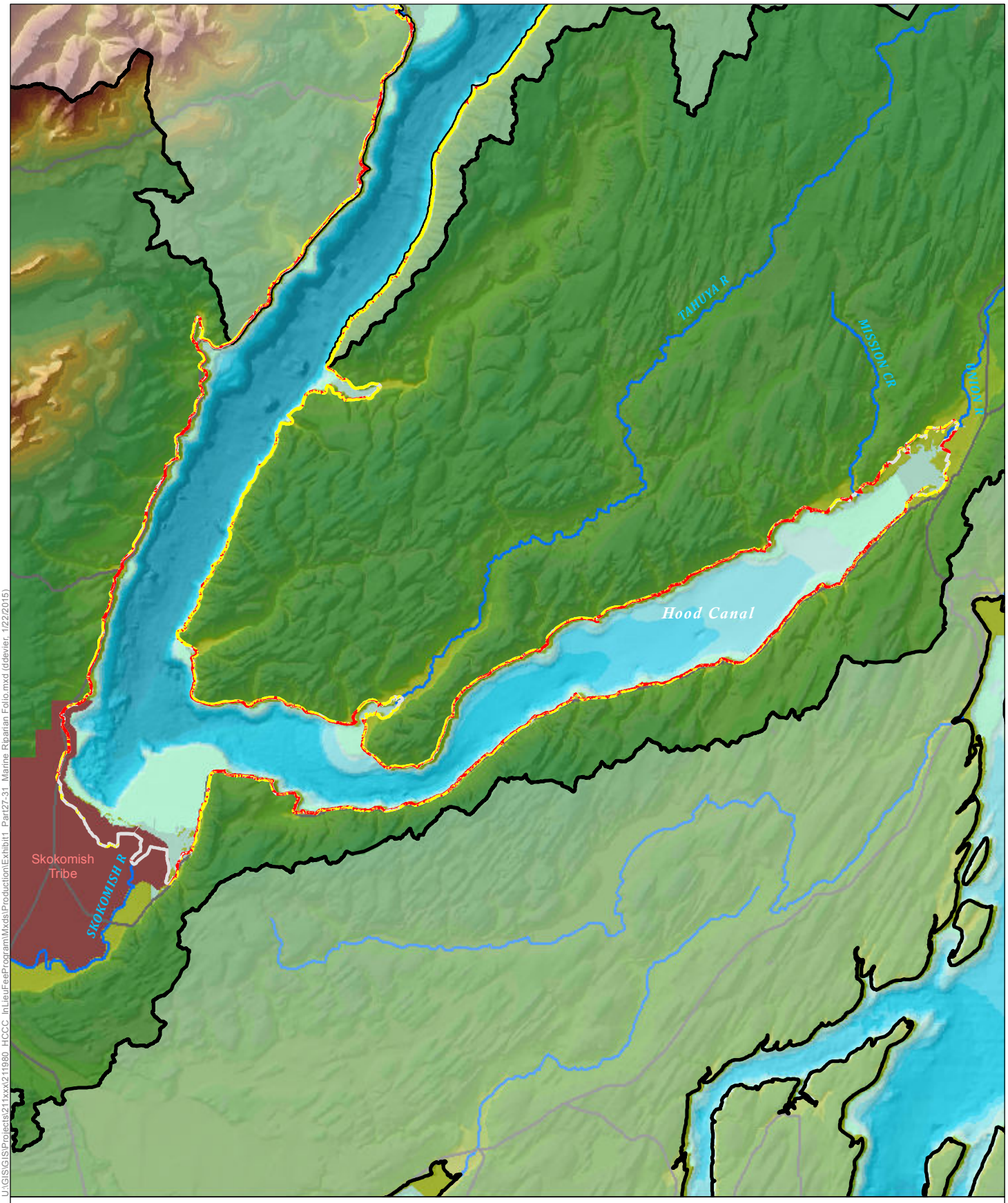
- Closed Canopy
- Non-Forest
- No Data

SOURCE: HCCC, 2012

Marine Riparian
Central Hood Canal
Exhibit 1 - Part 30

N

0 2
Miles



U:\GIS\GIS\Projects\211xx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part27-31_Marine Riparian Follo.mxd (ddevier, 1/22/2015)

Legend

- AMU Boundary
- Tribal Reservations

Marine Riparain (300ft from OHWM)

- Closed Canopy
- Non-Forest
- No Data

Marine Riparian
South Hood Canal
Exhibit 1 - Part 31

N

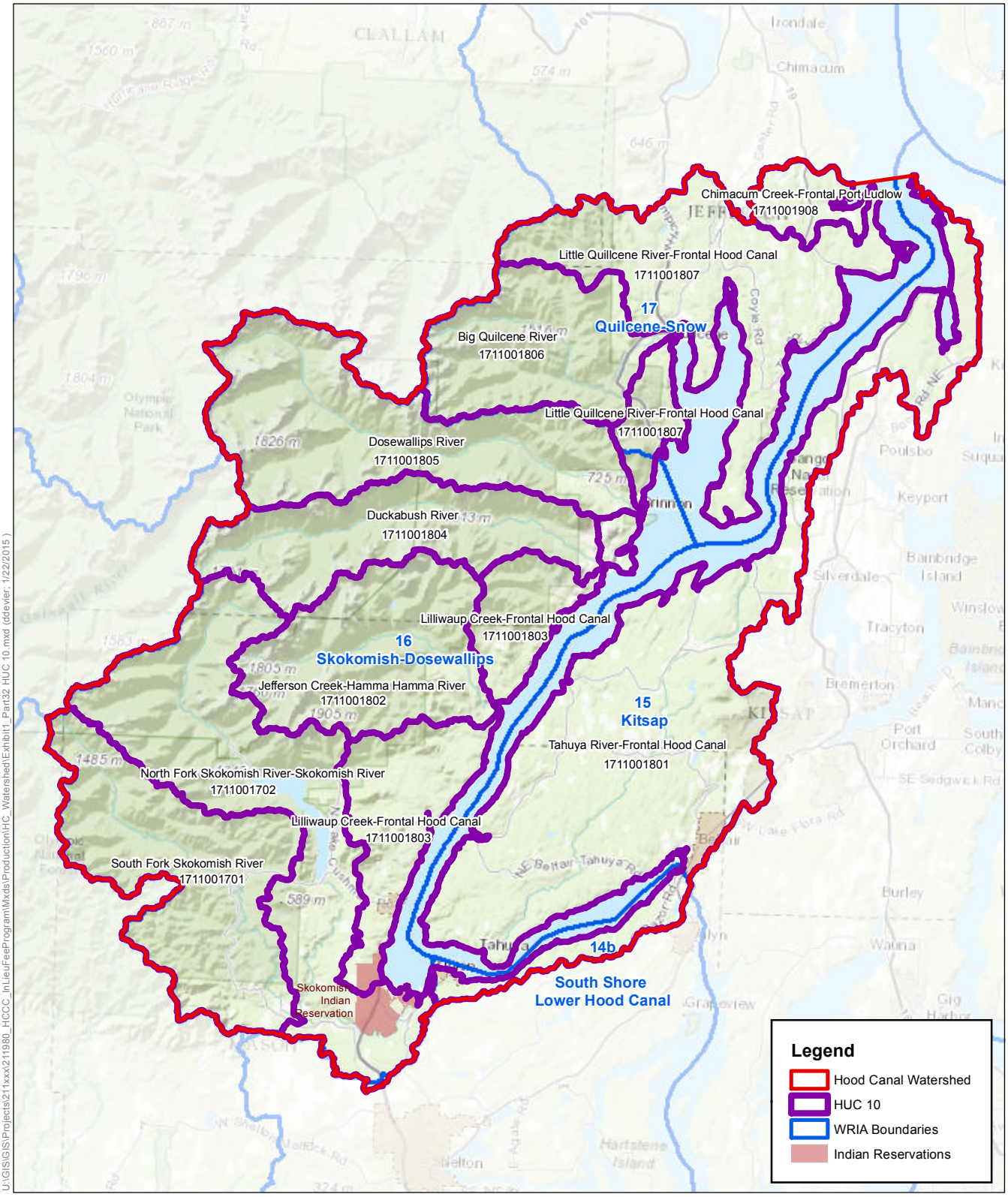
0 2
Miles

SOURCE: HCCC, 2012

Marine Riparian Cover for AMUs: Total Acres and as a Percentage of Total Land Cover: Exhibit 1, Part 31a

AMU (Acres)	Closed Canopy	Non-Forest	Off-Shore	Other Natural Vegetation	Total
Hood Canal Entrance	280.33	243.85	20.60	42.51	587.29
North Hood Canal	455.90	397.01	36.66	37.26	926.83
Central Hood Canal	924.55	267.14	75.92	97.88	1,365.49
South Hood Canal	1,051.44	869.10	51.09	300.83	2,272.46
Grand Total	2,712.22	1,777.10	184.27	478.47	5,152.06

AMU (%)	Closed Canopy	Non-Forest	Off-Shore	Other Natural Vegetation	Total
Hood Canal Entrance	47.7%	41.5%	3.5%	7.2%	100.0%
North Hood Canal	49.2%	42.8%	4.0%	4.0%	100.0%
Central Hood Canal	67.7%	19.6%	5.6%	7.2%	100.0%
South Hood Canal	46.3%	38.2%	2.2%	13.2%	100.0%
Grand Total	52.6%	34.5%	3.6%	9.3%	100.0%



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\HC_Watershed\Exhibit1_Part32 HUC 10.mxd (ddevier: 1/22/2015)

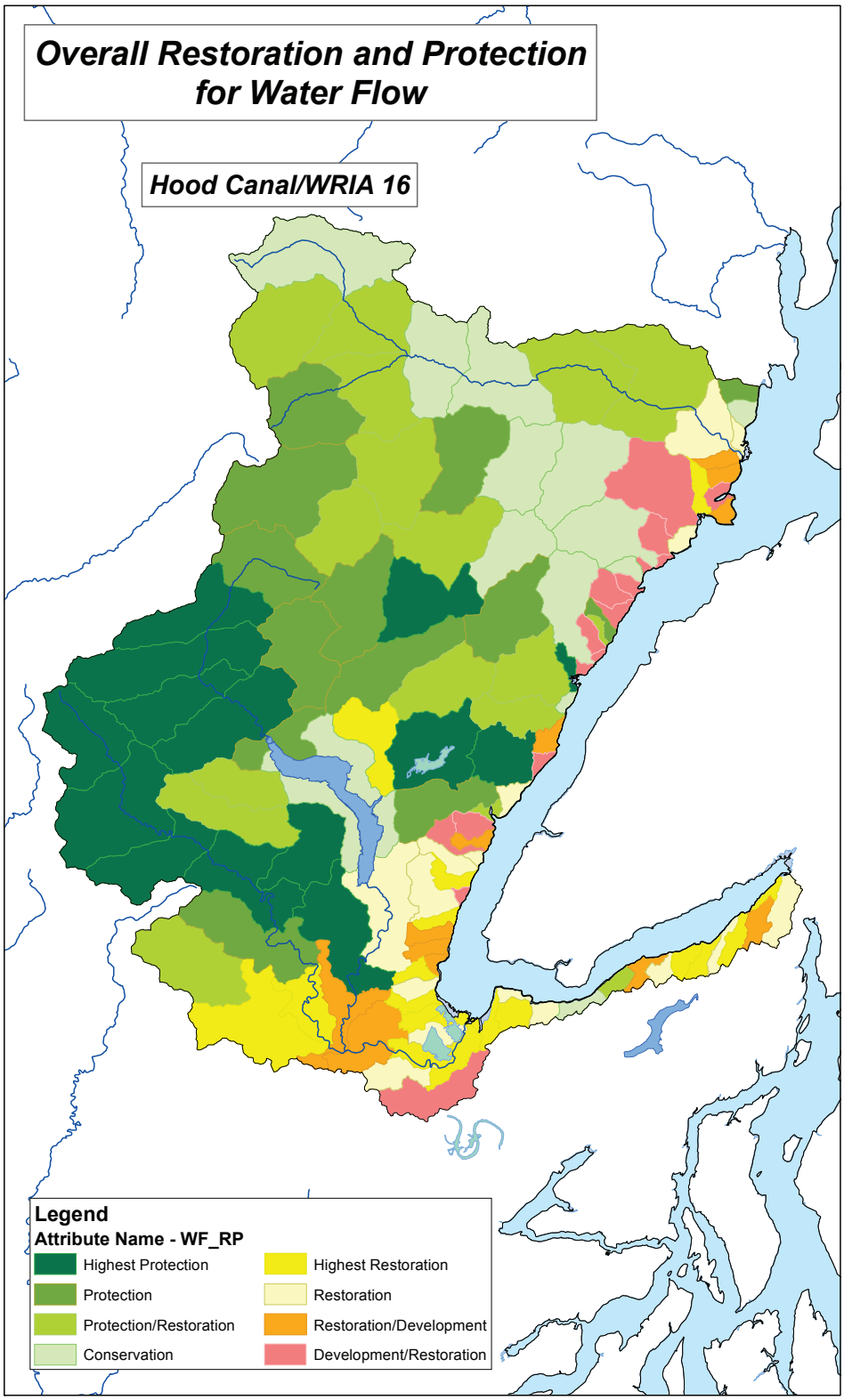
SOURCE: Ecology, 2009; ESRI 2015.

HCCC ILF Program. 211980

Exhibit 1 - Part 32

Overview - Hood Canal Watershed
Hood Canal, Washington

0 5
Miles



FILE NAME: Fig01_Part33_WRIA16.ai / CREATED BY: JAB / DATE LAST UPDATED: 03/30/12

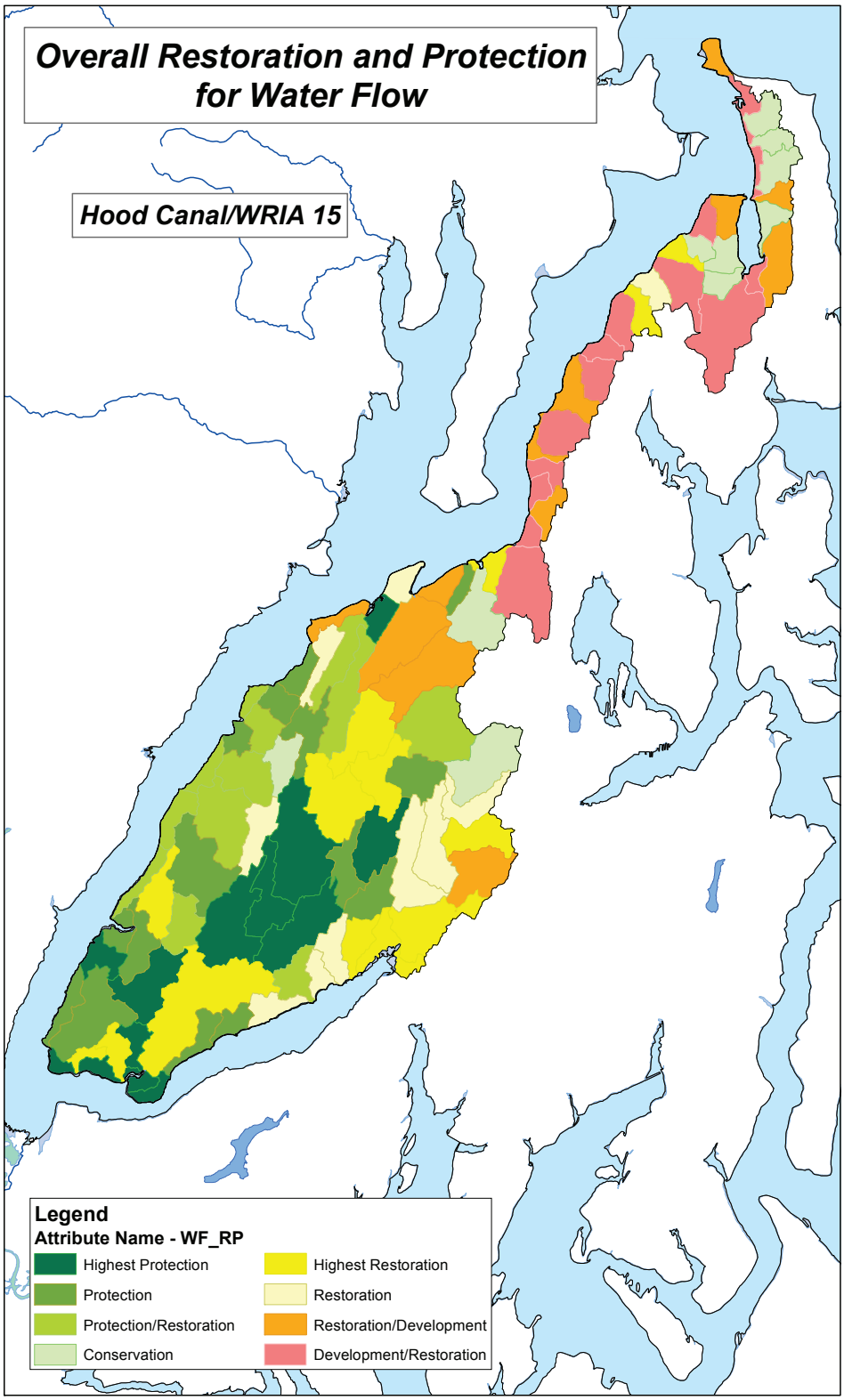
SOURCE: Ecology, 2012.

HCCC ILF Program . 210761

Exhibit 1 - Part 33

Hood Canal/WRIA 16

Hood Canal, Washington



FILE NAME: Fig01_Part34_WRIA15.ai / CREATED BY: JAB / DATE LAST UPDATED: 03/30/12

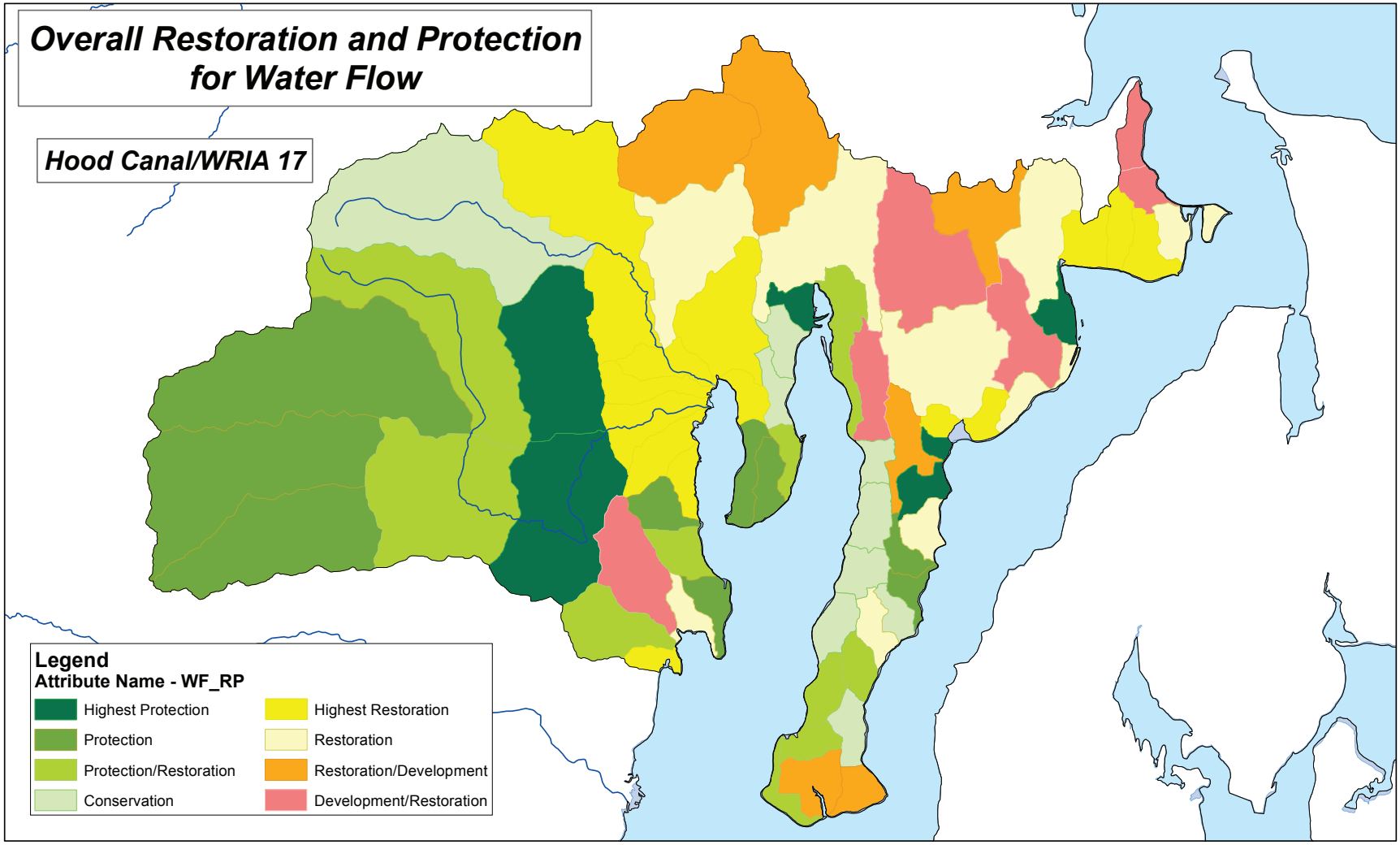
SOURCE: Ecology, 2012.

HCCC ILF Program . 210761

Exhibit 1 - Part 34

Hood Canal/WRIA 15

Hood Canal, Washington



FILE NAME: Fig01_Part35_WRIA17.ai / CREATED BY: JAB / DATE LAST UPDATED: 03/30/12

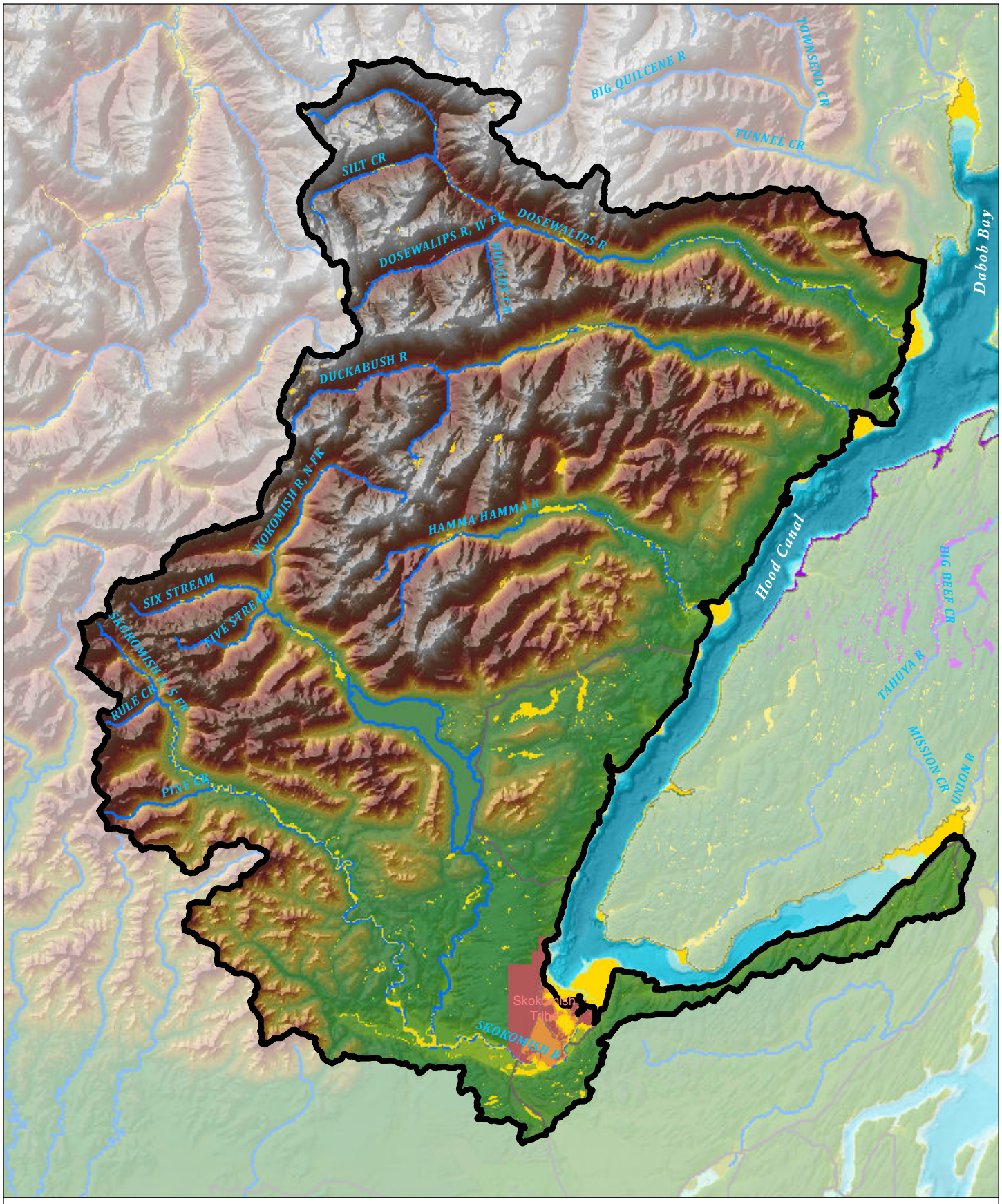
SOURCE: Ecology, 2012.

HCCC ILF Program . 210761

Exhibit 1 - Part 35

Hood Canal/WRIA 17

Hood Canal, Washington



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part36-38_Wetland Folio.mxd (ddevier; 3/30/2012)

Legend

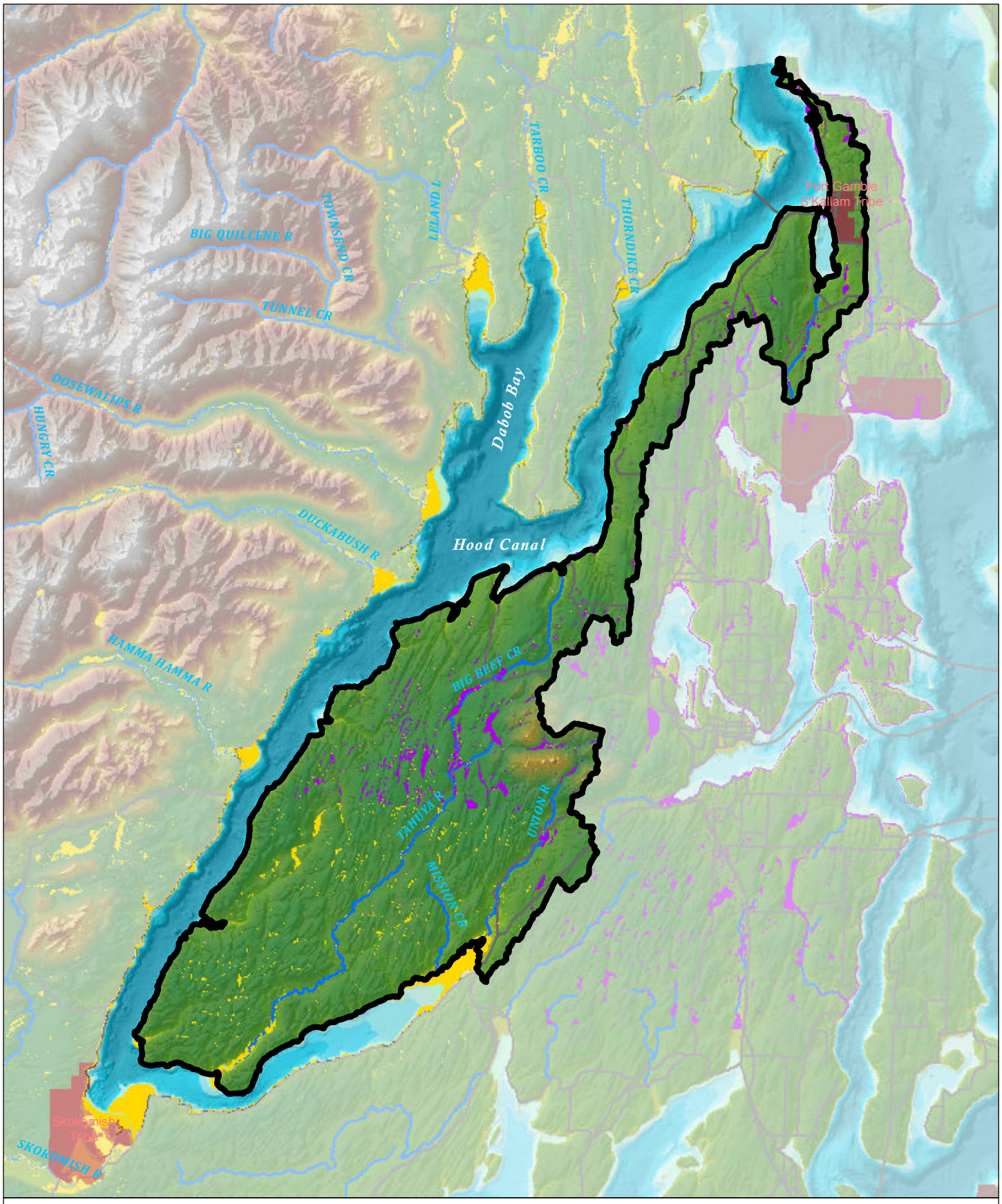
- Service Area Boundary
- Tribal Reservations
- Wetlands (NWI)
- Wetlands (Kitsap)

Wetlands
WRIA 14b/16 Service Area
Exhibit 1 - Part 36

N

0 4
Miles

SOURCE: Kitsap County, 2008; WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part36-38_Wetland Folio.mxd (ddevier; 3/30/2012)

Legend

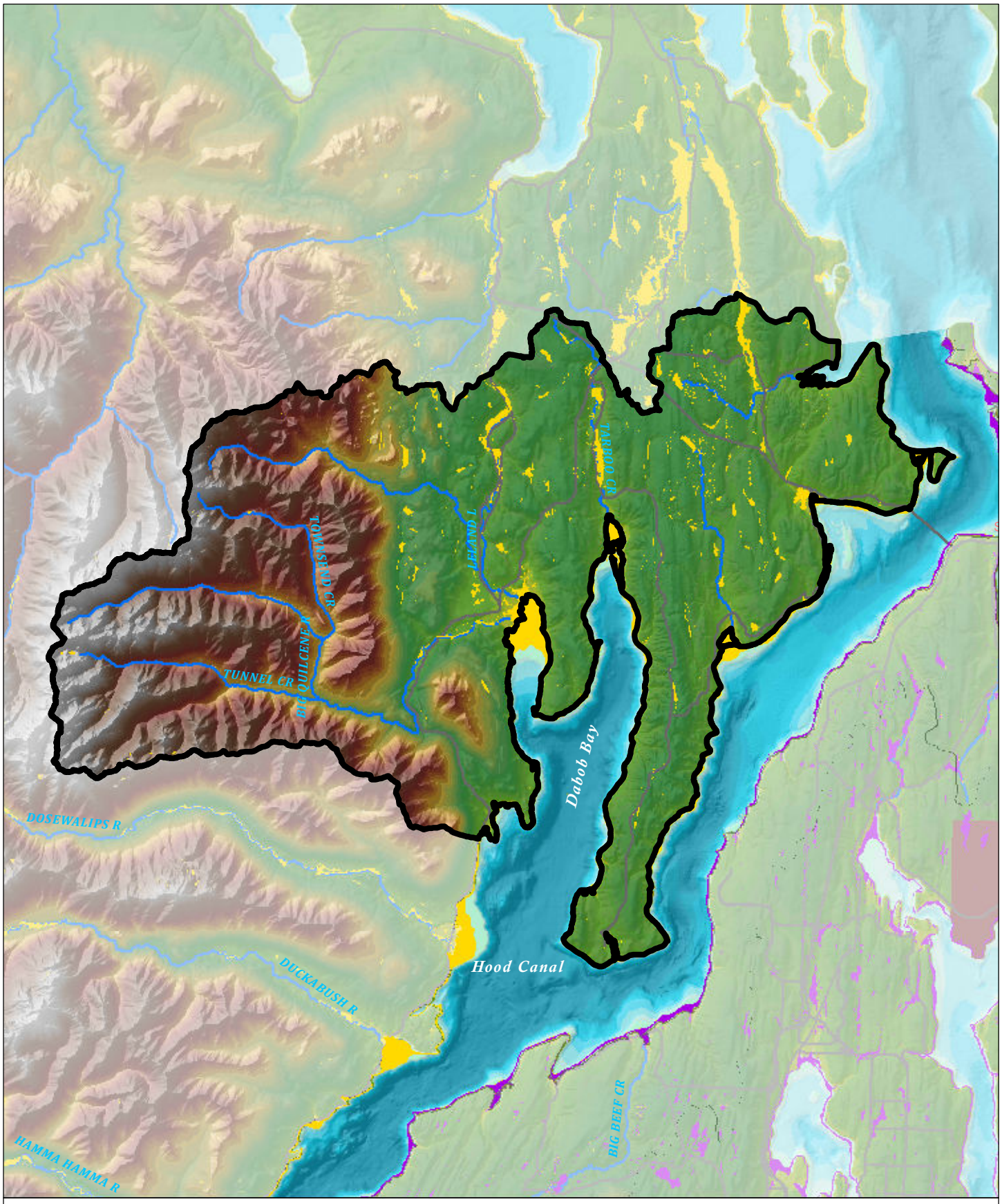
- Service Area Boundary
- Tribal Reservations
- Wetlands (NWI)
- Wetlands (Kitsap)

Wetlands
WRIA 15 Service Area
Exhibit 1 - Part 37

N

0 5
Miles

SOURCE: Kitsap County, 2008; WDFW, 2010



U:\GIS\GIS\Projects\211xxx211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part36-38_Wetland Folio.mxd (ddevier; 3/30/2012)

Legend

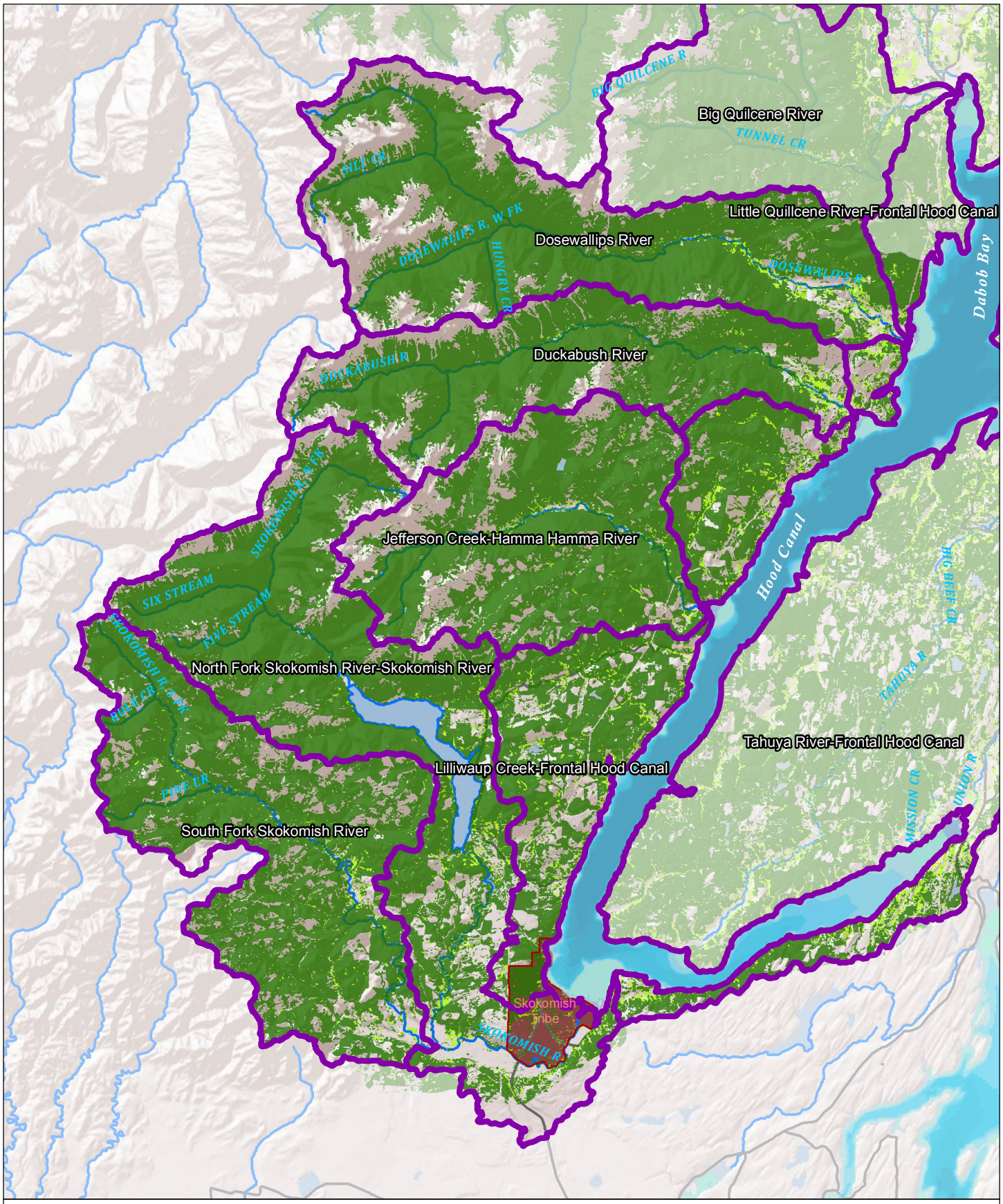
- Service Area Boundary
- Tribal Reservations
- Wetlands (NWI)
- Wetlands (Kitsap)

Wetlands
WRIA 17 Service Area
Exhibit 1 - Part 38

N

0 3
Miles

SOURCE: Kitsap County, 2008; WDFW, 2010



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part39-41_Forest Cover Folio.mxd (jak; 1/22/2015)

Legend

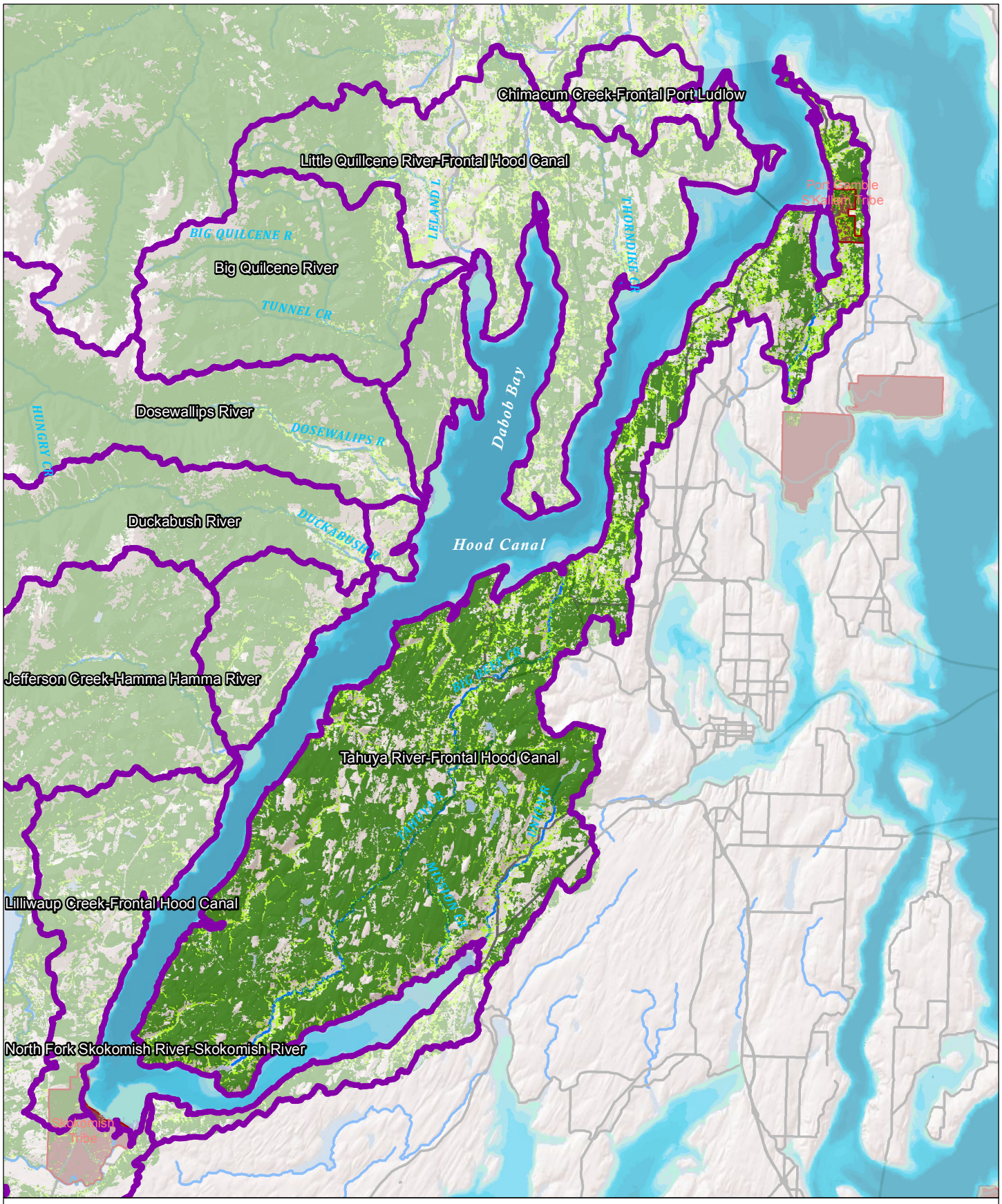
- Service Area Boundary
- Tribal Reservations
- Evergreen Forest
- Mixed Forest
- HUC 10 Boundaries

Forest Cover
Skokomish-Dosewallips
Exhibit 1 - Part 39

N

0 4
Miles

SOURCE: CCAP (NOAA), 2006; ESRI, 2014.



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part39-41_Forest Cover Folio.mxd (jak; 1/22/2015)

Legend

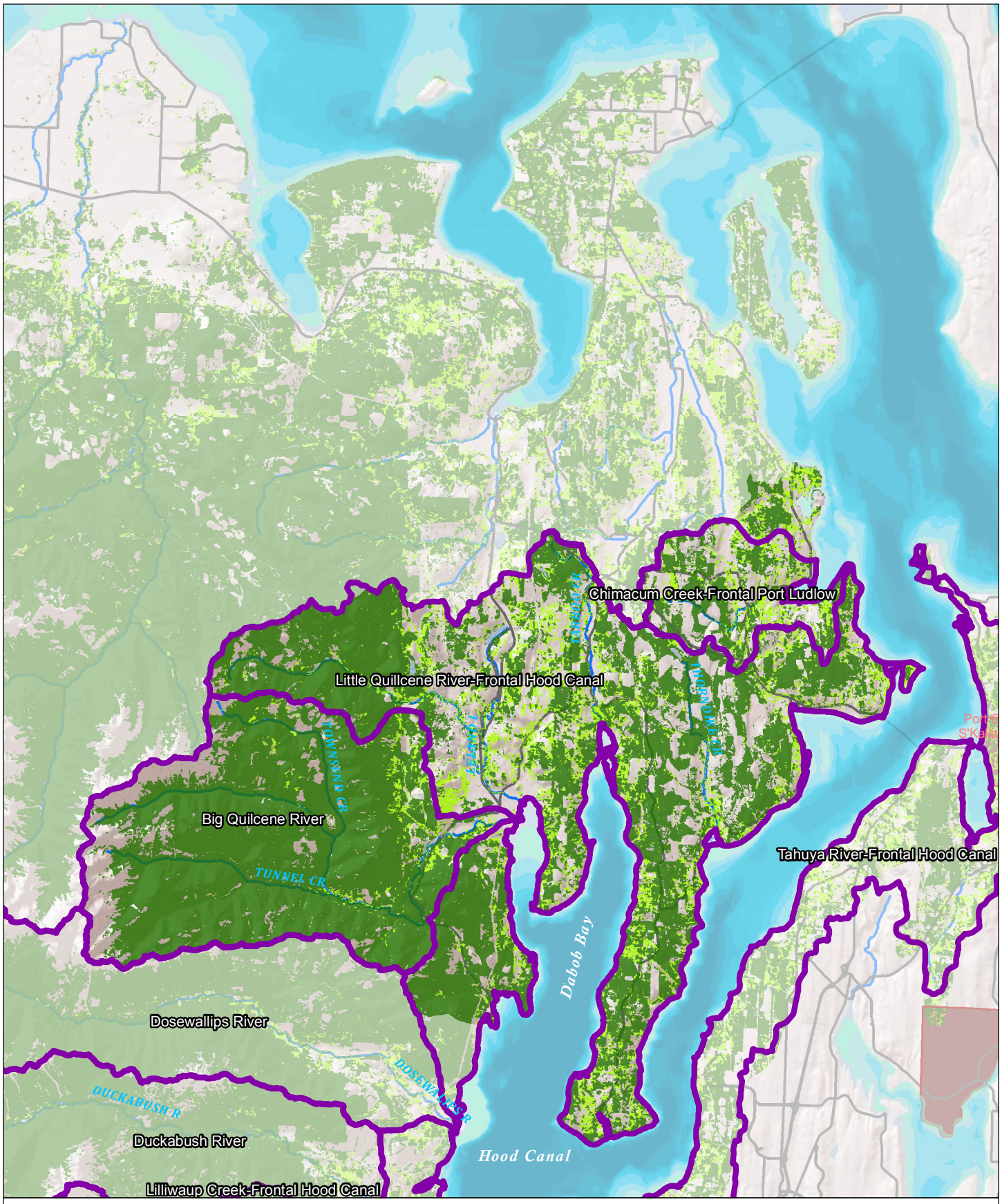
- Service Area Boundary
- Tribal Reservations
- Evergreen Forest
- Mixed Forest
- HUC 10 Boundaries

Forest Cover
Kitsap
Exhibit 1 - Part 40

N

0 5
Miles

SOURCE: CCAP (NOAA), 2006; ESRI, 2014.



U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Exhibit1_Part39-41_Forest Cover Folio.mxd (jak; 1/22/2015)

Legend

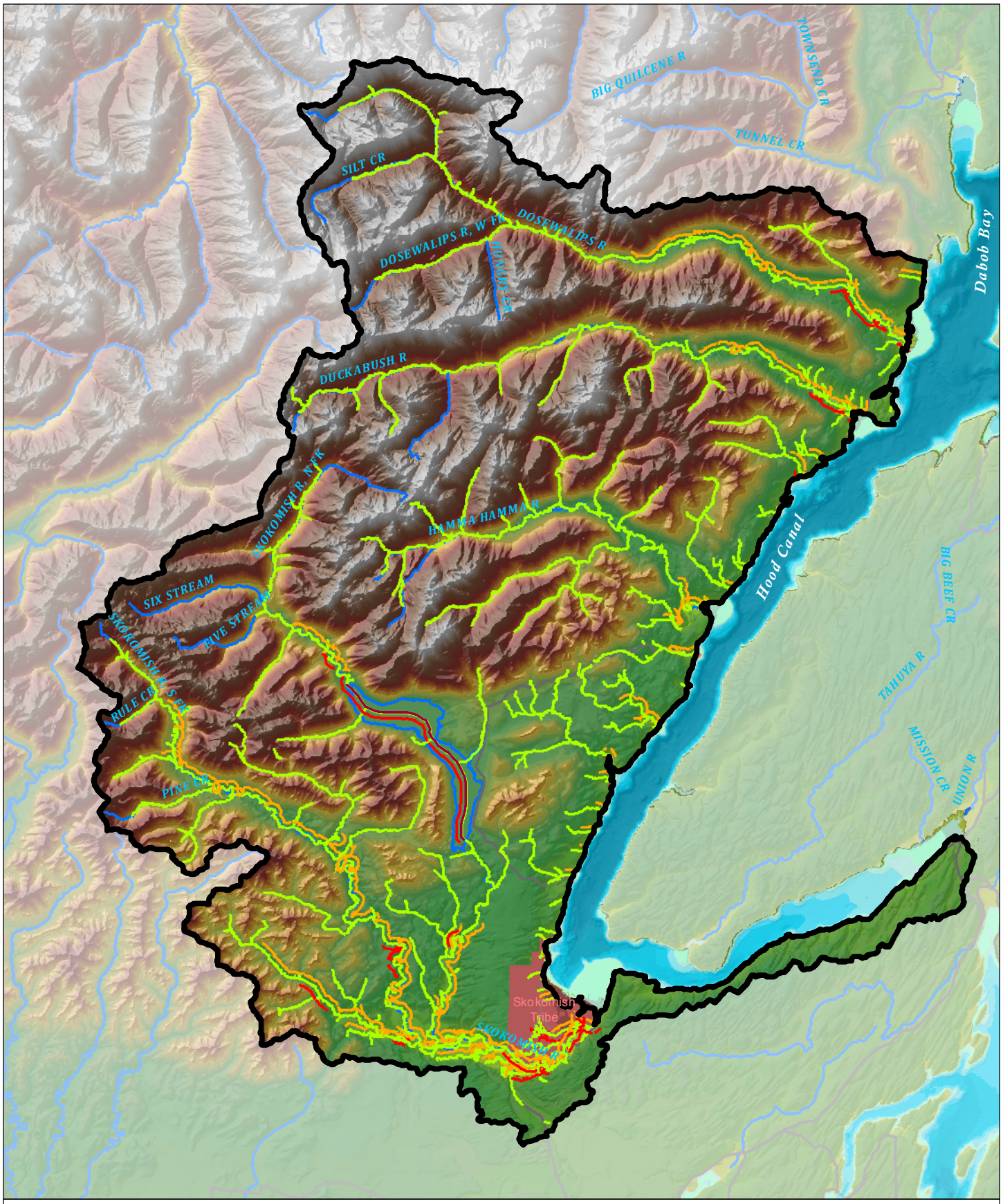
- Service Area Boundary
- Tribal Reservations
- Evergreen Forest
- Mixed Forest
- HUC 10 Boundaries

Forest Cover
Quilcene-Snow
Exhibit 1 - Part 41

N

0 3
Miles

SOURCE: CCAP (NOAA), 2006; ESRI, 2014.



Legend

- Service Area Boundary
- Tribal Reservations

Fish Distribution

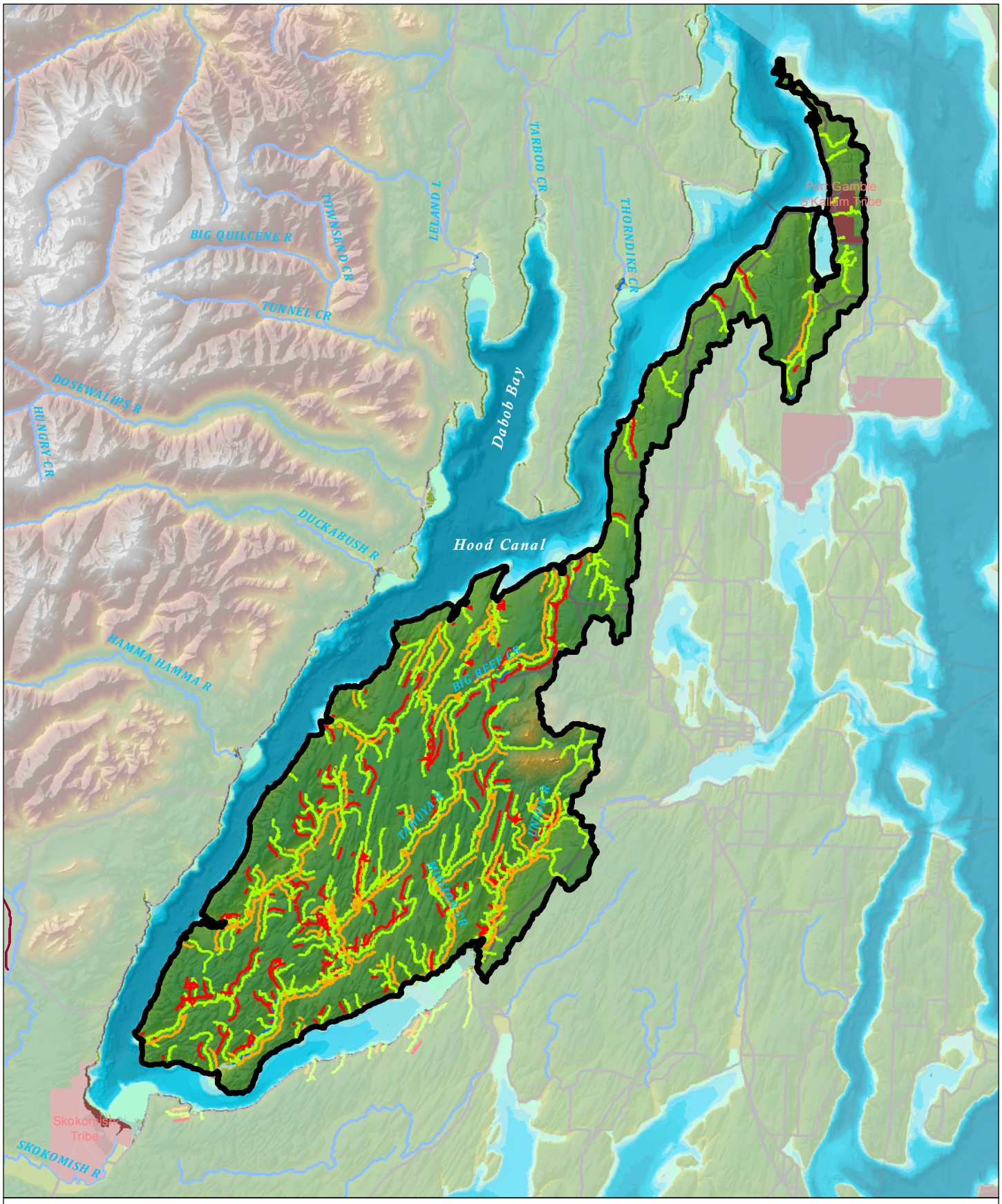
- Presence/Migration: Coho, Dolly Varden/Bull Trout, Fall Chinook, Fall Chum, Kokanne, Pink, Rainbow Trout, Sockeye, Summer Chum, Summer Steelhead, Winter Steelhead
- Known Spawning: Coho, Dolly Varden/Bull Trout, Fall Chinook, Fall Chum, Pink, Summer Chum, Summer Steelhead, Winter Steelhead
- Known Juvenile Rearing: Coho, Dolly Varden/Bull Trout, Fall Chinook, Fall Chum, Pink, Winter Steelhead

SOURCE: WDFW, 2010

Priority Fish Distribution
WRIA 14b/16 Service Area
Exhibit 1 - Part 42

N

0 4
Miles



Legend

- Service Area Boundary
- Tribal Reservations

Fish Distribution

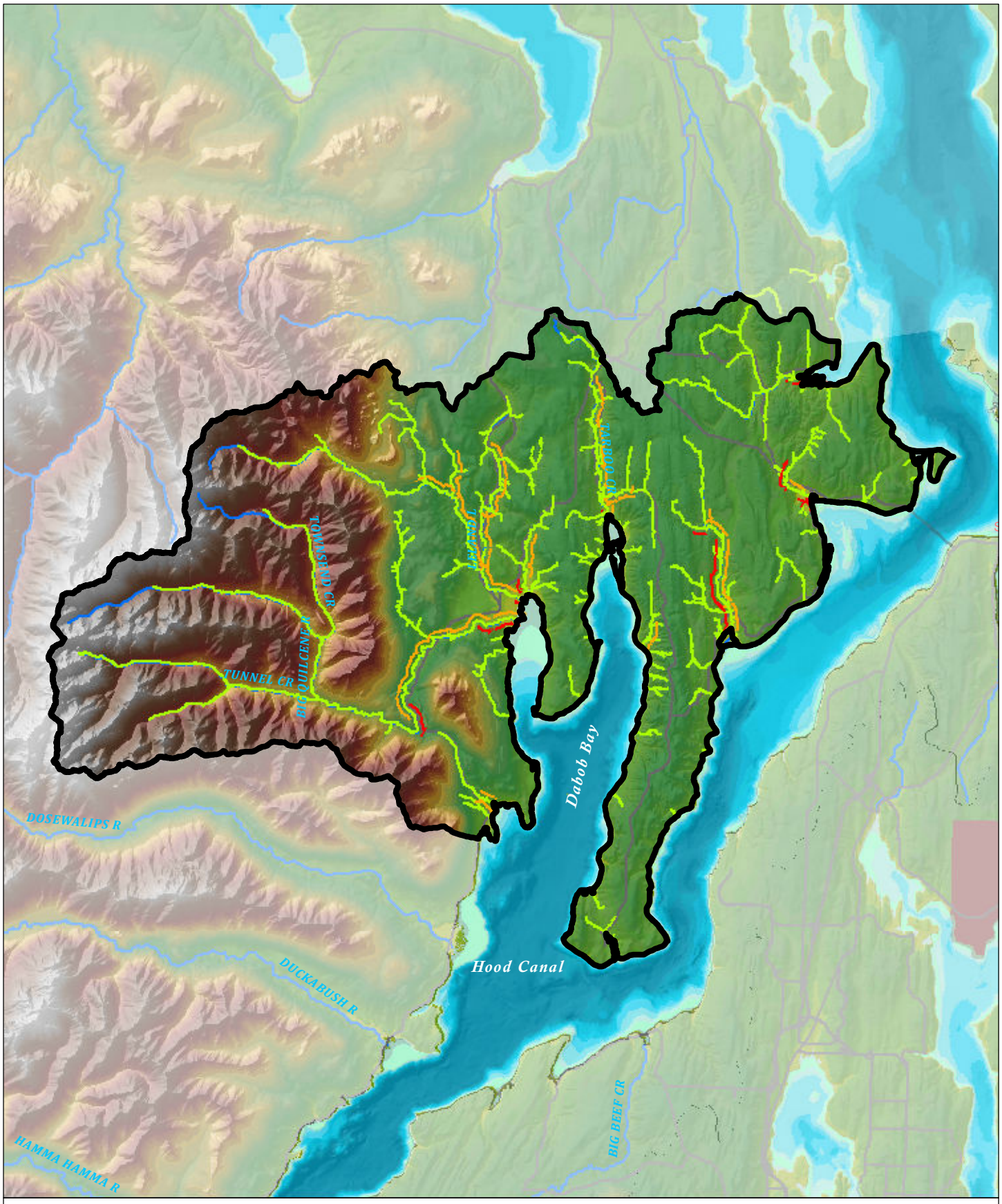
- Presence/Migration: Coho, Fall Chinook, Fall Chum, Largemouth Bass, Pink, Rainbow Trout, Resident Cutthroat, Summer Chum, Winter Steelhead
- Known Spawning: Coho, Fall Chinook, Fall Chum, Summer Chum, Winter Steelhead
- Known Juvenile Rearing: Coho, Fall Chinook, Fall Chum, Winter Steelhead

SOURCE: WDFW, 2010

Priority Fish Distribution
WRIA 15 Service Area
Exhibit 1 - Part 43

N

0 5
Miles



Legend

- Service Area Boundary
- Tribal Reservations

Fish Distribution

- Presence/Migration: Coho, Dolly Varden/Bull Trout, Fall Chinook, Fall Chum, Pink, Rainbow Trout, Resident Cutthroat, Summer Chum, Winter Steelhead
- Known Spawning: Coho, Fall Chinook, Fall Chum, Pink, Summer Chum, Winter Steelhead
- Known Juvenile Rearing: Coho, Fall Chinook, Fall Chum, Winter Steelhead

Priority Fish Distribution
WRIA 17 Service Area
Exhibit 1 - Part 44

N

0 3
Miles

SOURCE: WDFW, 2010

U:\GIS\GIS\Projects\211xxx\211980_HCCC_InLieuFeeProgram\Mxds\Production\Fish Distribution\Fish Distribution WRIA 17.mxd (ddevier: 1/22/2015)