

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards Figure 1

Date: 6/3/2014

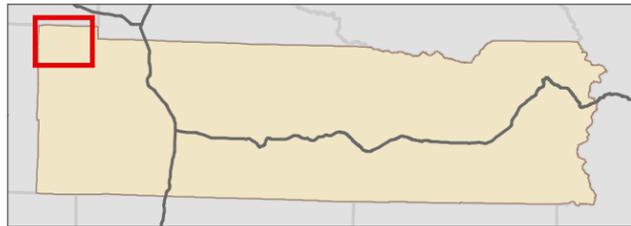
### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



GRAYS  
HARBOR  
COUNTY

PACIFIC  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 2

Date: 6/3/2014

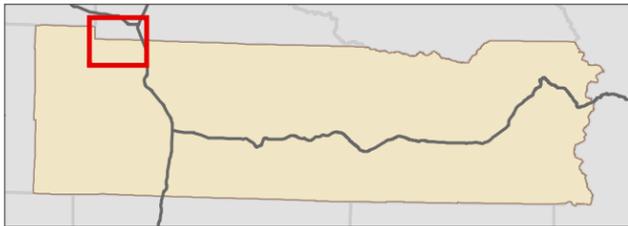
### Geologic Hazards

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0 0.25 0.5  
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Area of interest in red



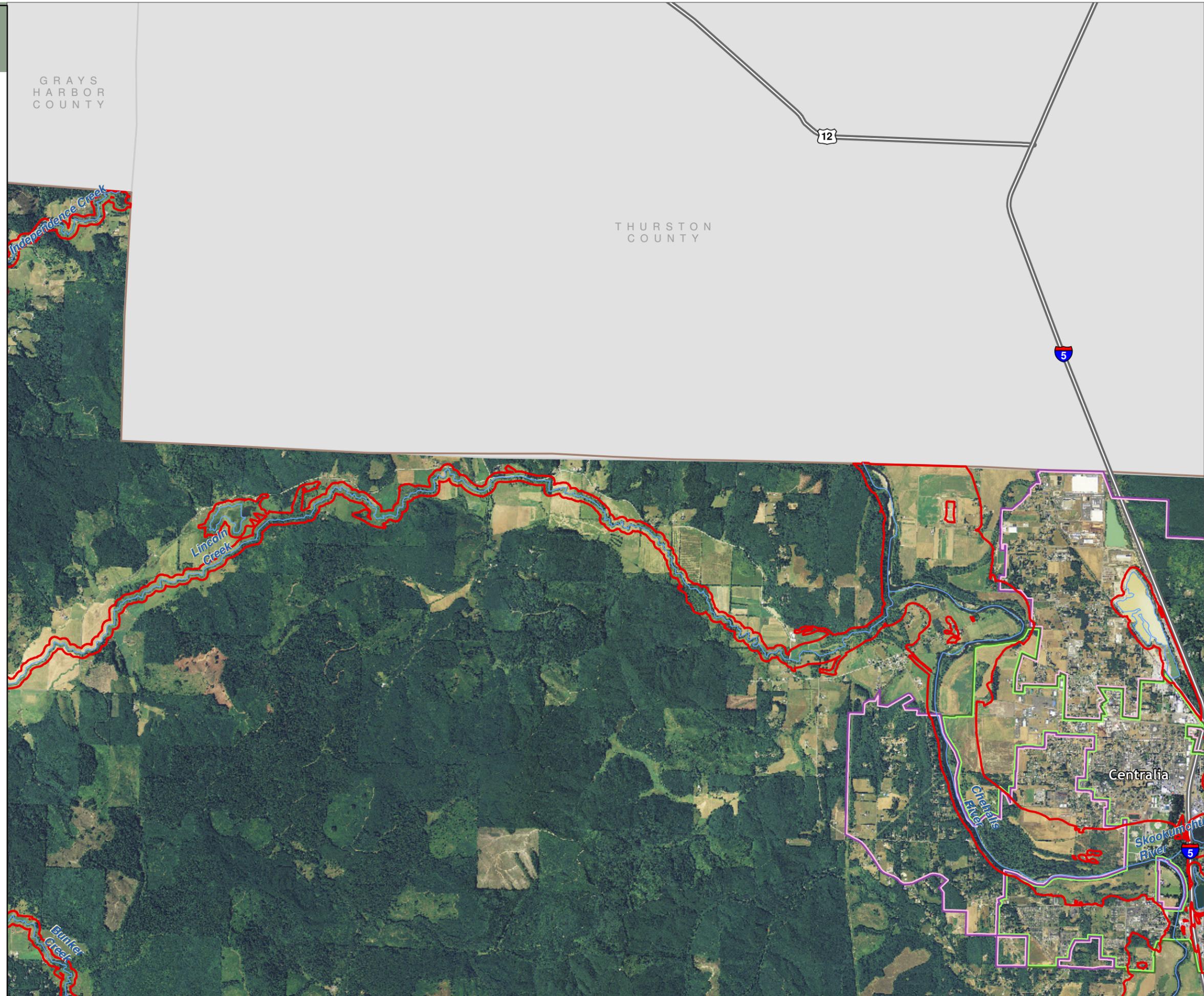
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### Lewis County Coalition



City of Morton City of Winlock



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## Map 11A - Geologic Hazards

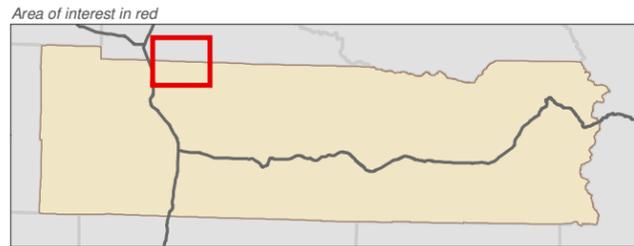
### Figure 3

Date: 6/3/2014

#### Geologic Hazards

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0 0.25 0.5  
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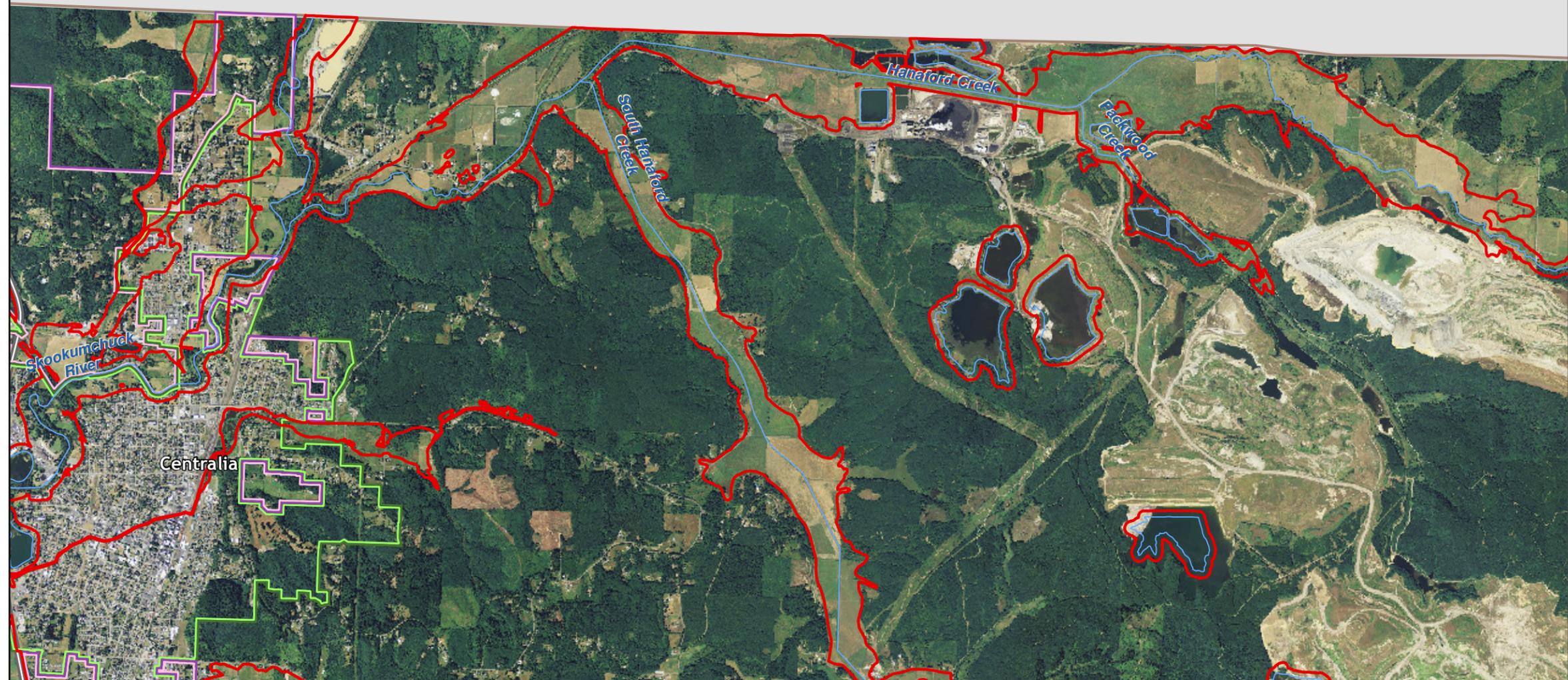
#### Lewis County Coalition



City of Morton City of Winlock



THURSTON  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

### Figure 4

Date: 6/3/2014

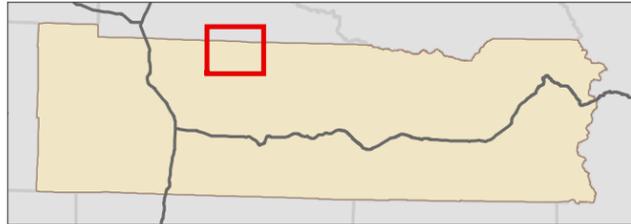
#### Geologic Hazards

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#### Lewis County Coalition



City of Morton City of Winlock



THURSTON  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

### Figure 5

Date: 6/3/2014

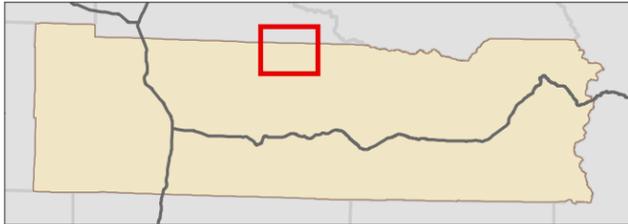
#### Geologic Hazards

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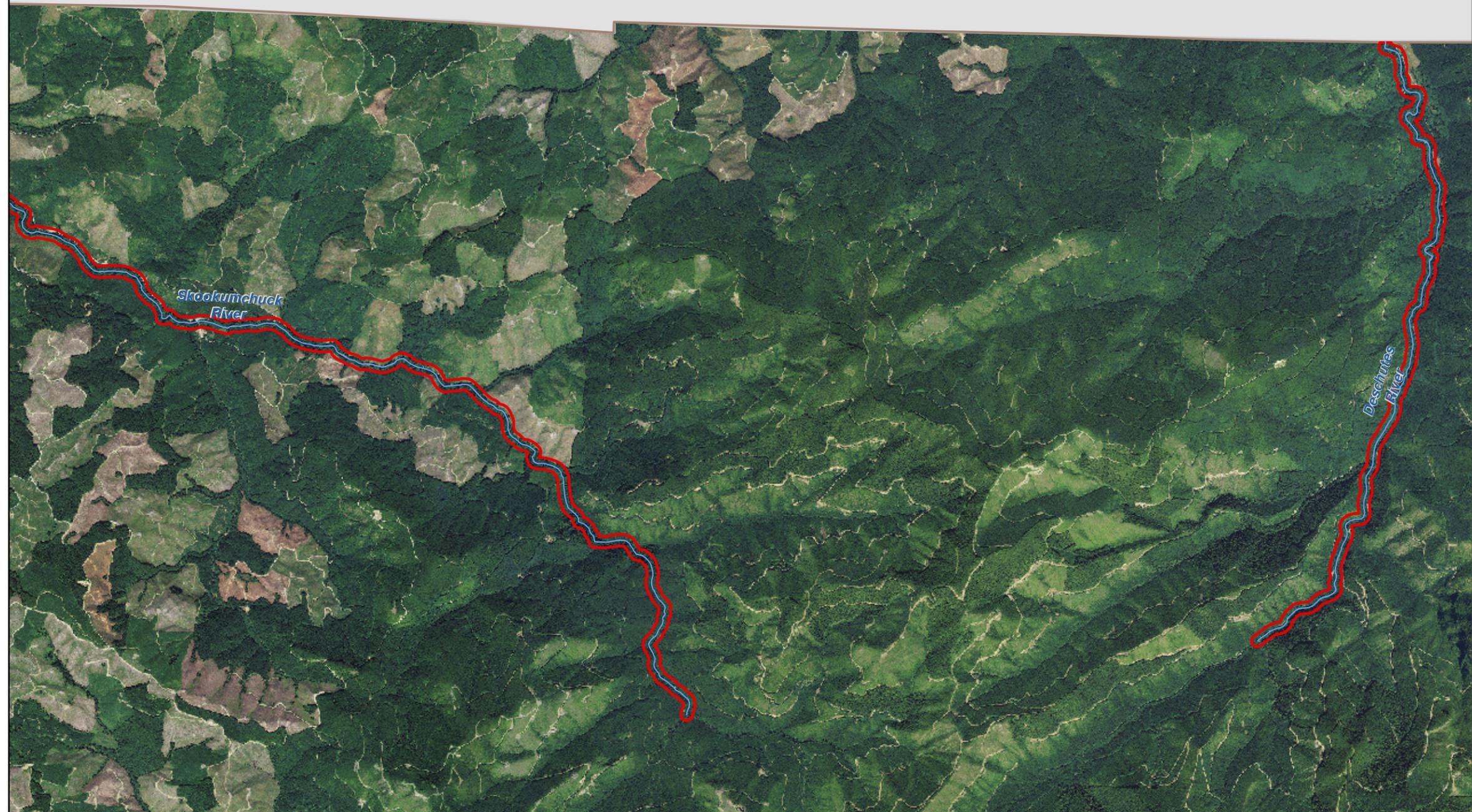
#### Lewis County Coalition



City of Morton City of Winlock



THURSTON  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

### Figure 6

Date: 6/3/2014

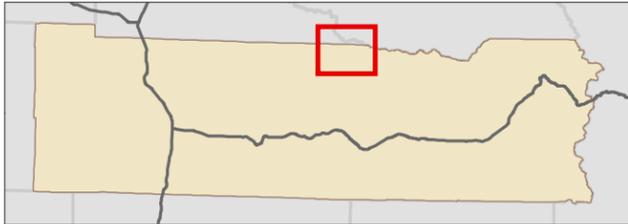
#### Geologic Hazards

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0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



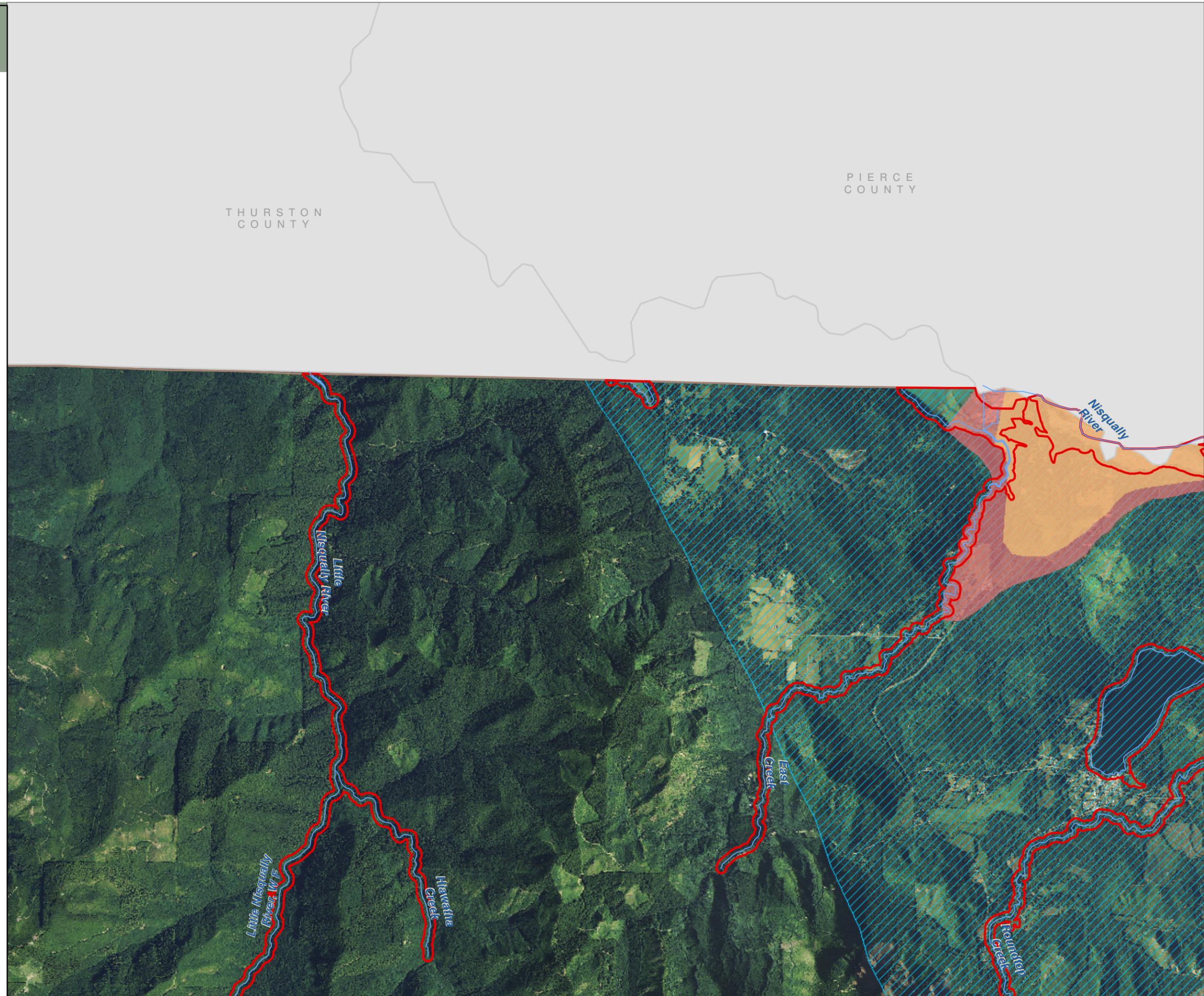
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#### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

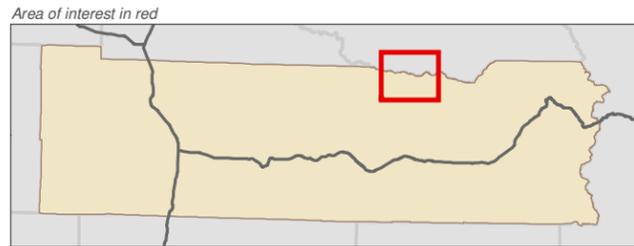
### Figure 7

Date: 6/3/2014

#### Geologic Hazards

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Miles  
1:48,000



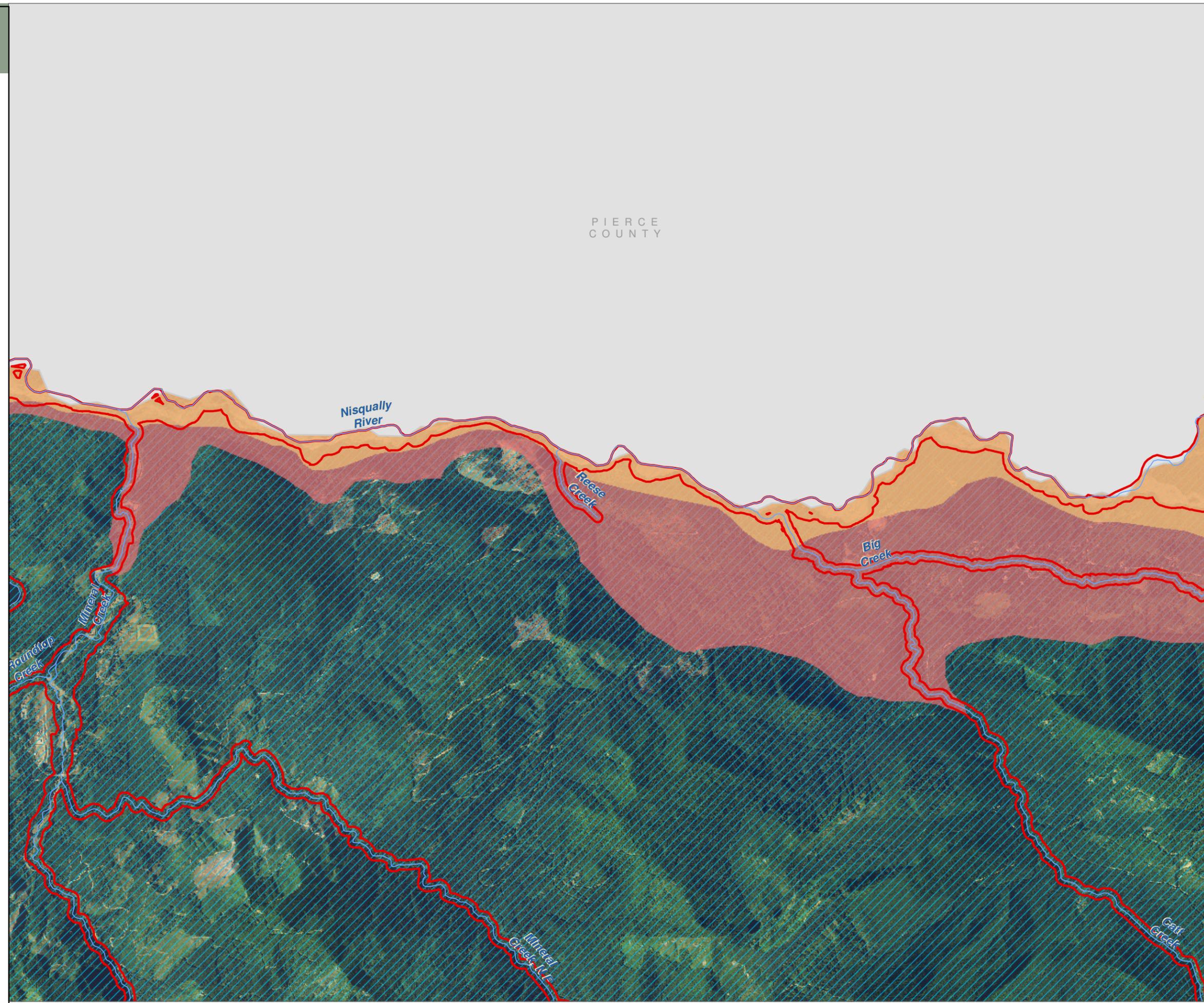
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#### Lewis County Coalition



City of Morton City of Winlock



PIERCE COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

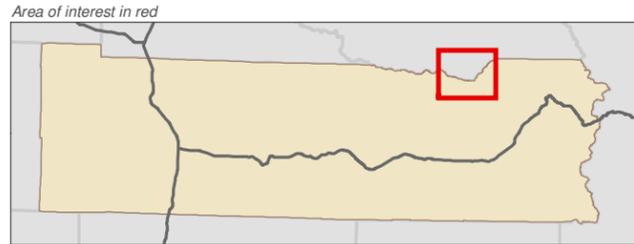
### Figure 8

Date: 6/3/2014

#### Geologic Hazards

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0 0.25 0.5  
Miles  
1:48,000



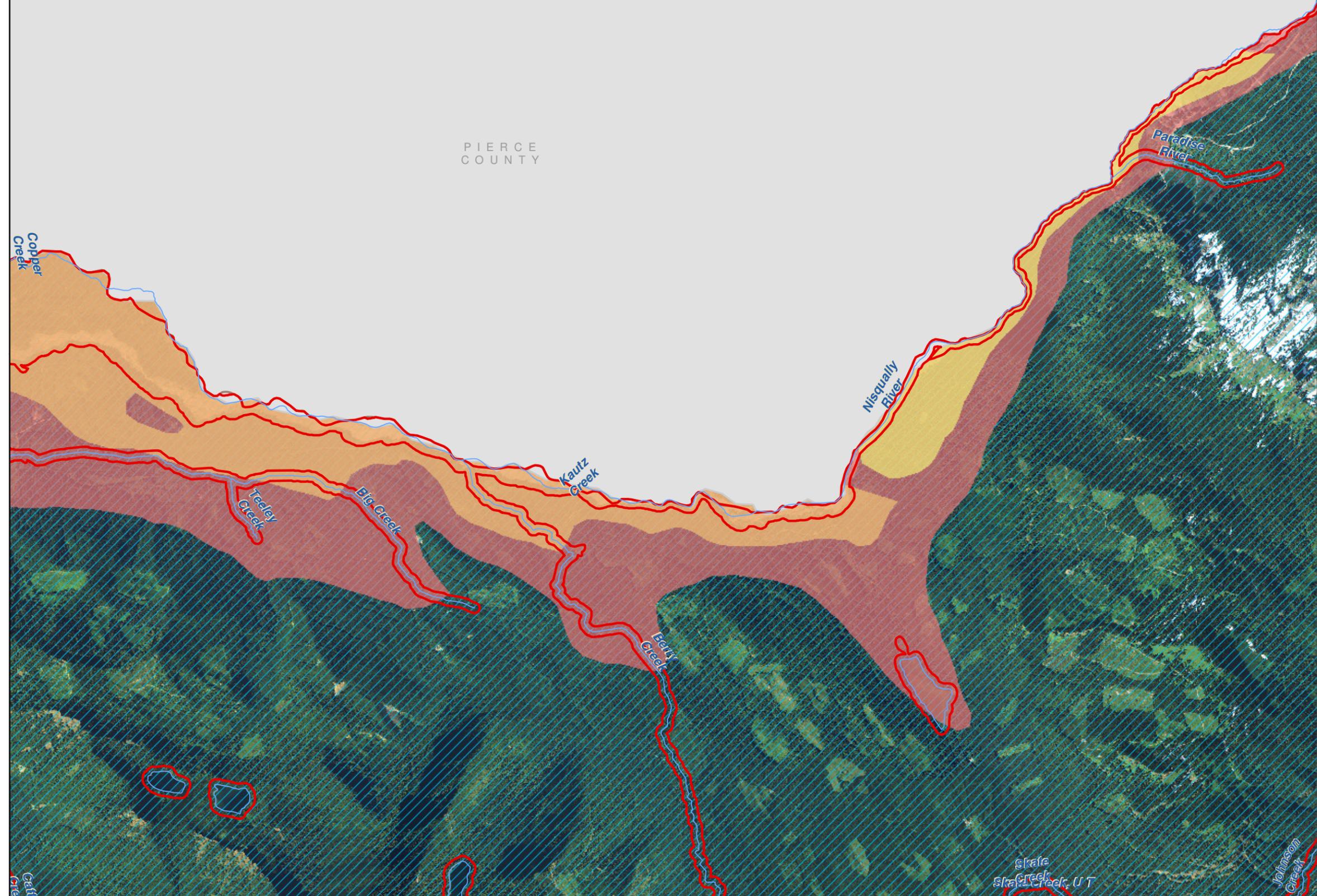
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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#### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

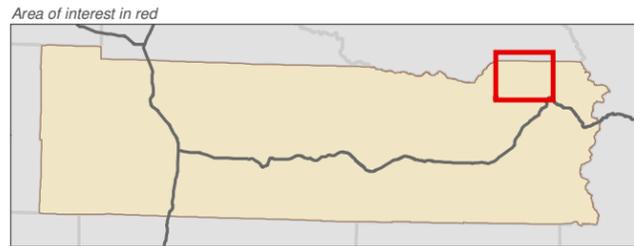
### Figure 9

Date: 6/3/2014

#### Geologic Hazards

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0 0.25 0.5  
Miles  
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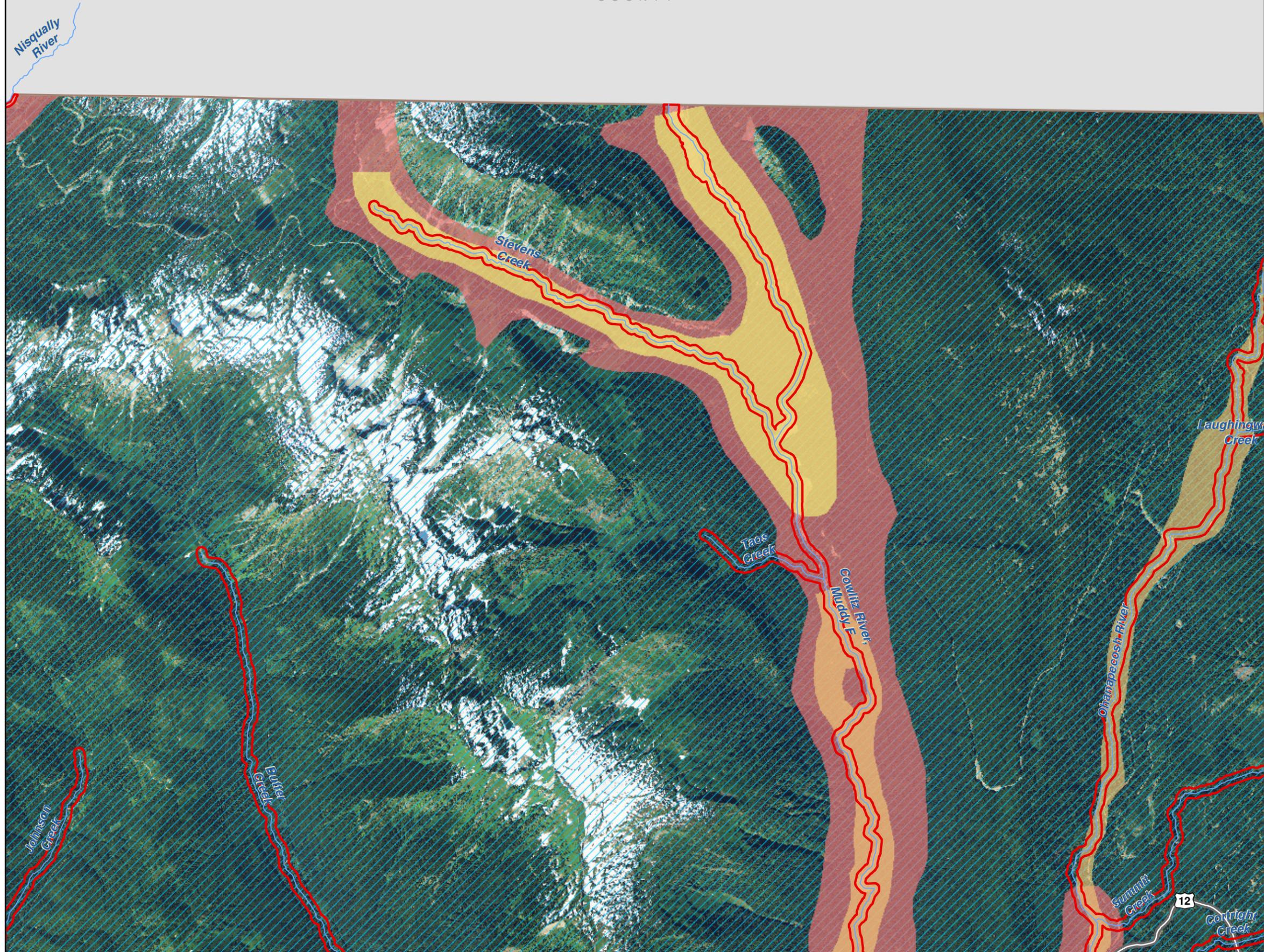
#### Lewis County Coalition



City of Morton City of Winlock



PIERCE  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

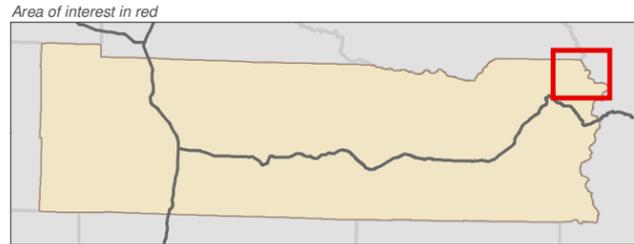
### Figure 10

Date: 6/3/2014

#### Geologic Hazards

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0 0.25 0.5  
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#### Lewis County Coalition

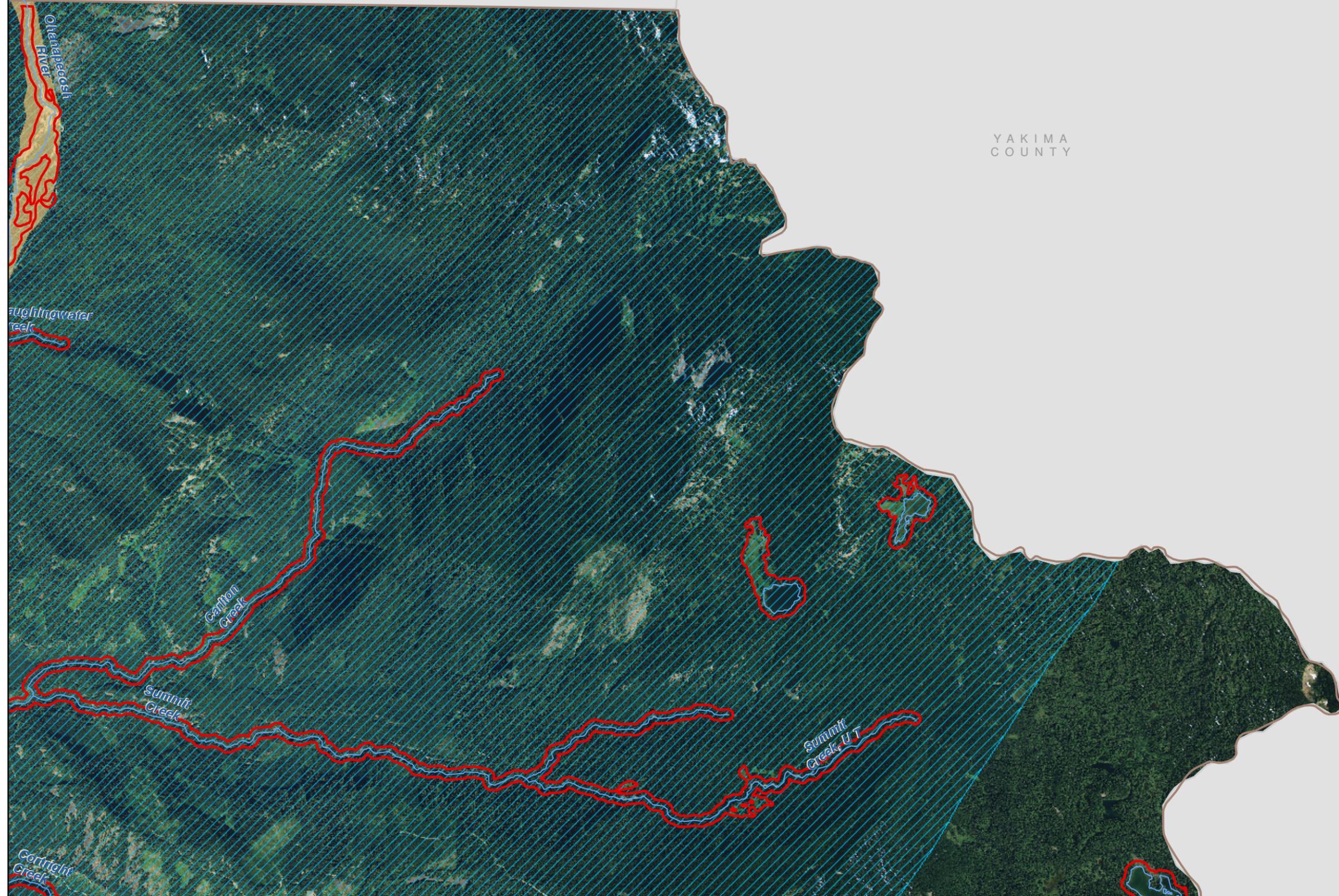


City of Morton City of Winlock



PIERCE  
COUNTY

YAKIMA  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

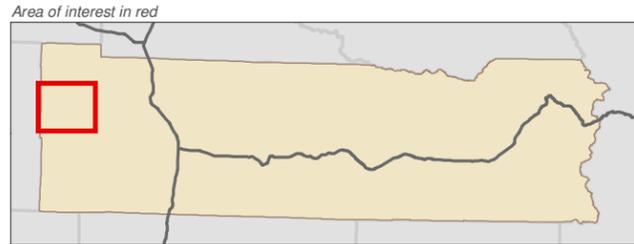
Figure 11

Date: 6/3/2014

### Geologic Hazards

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### Lewis County Coalition



City of Morton City of Winlock



PACIFIC  
COUNTY



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

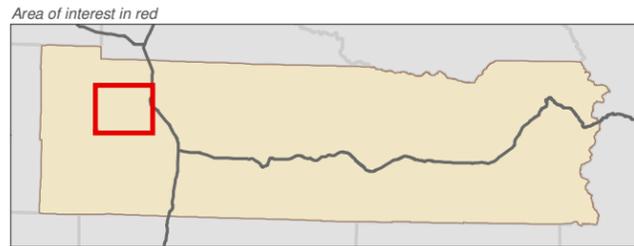
Figure 12

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
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0 0.25 0.5  
Miles  
1:48,000



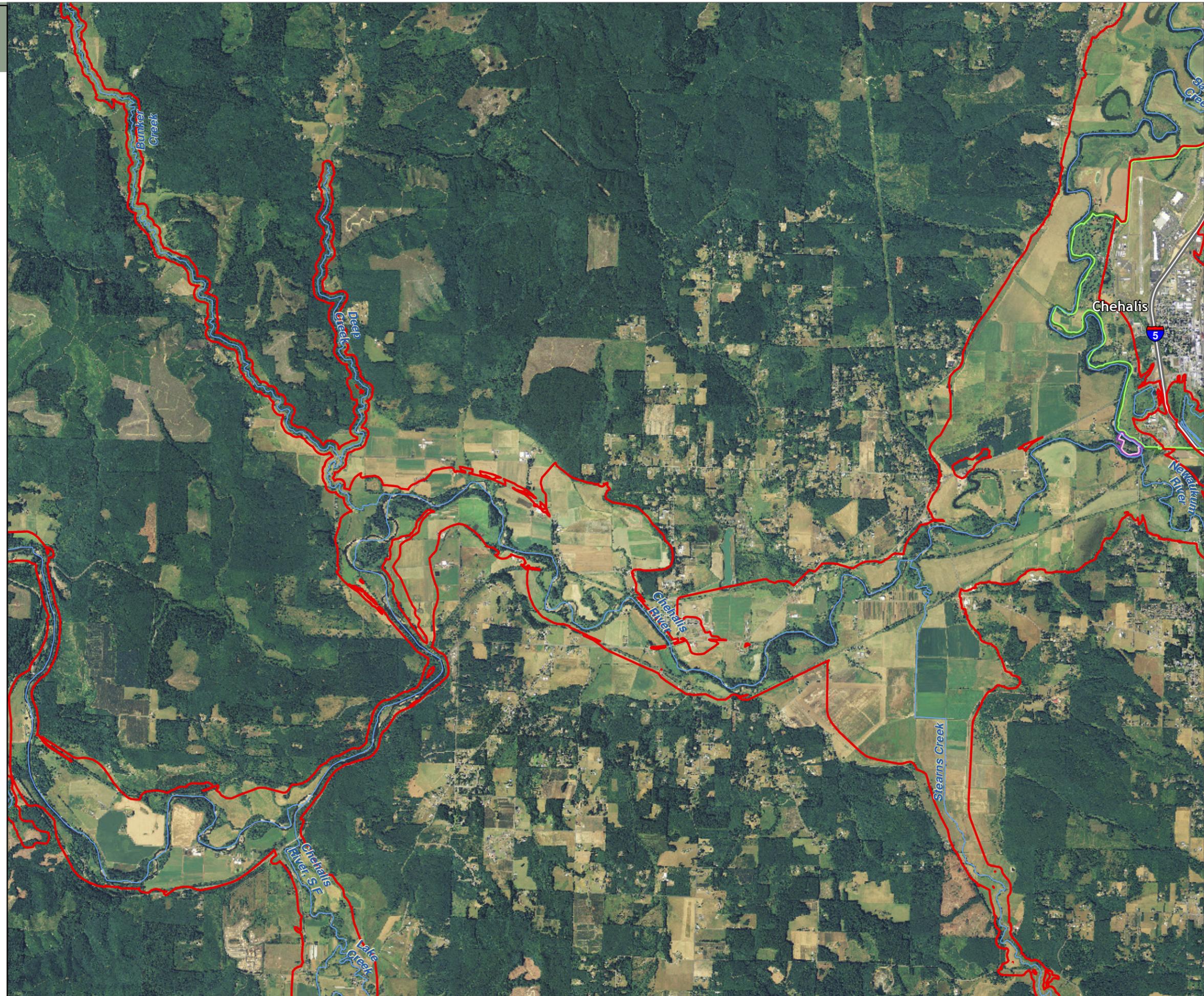
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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

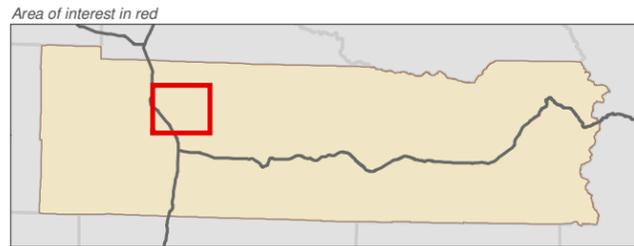
### Figure 13

Date: 6/3/2014

#### Geologic Hazards

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Miles  
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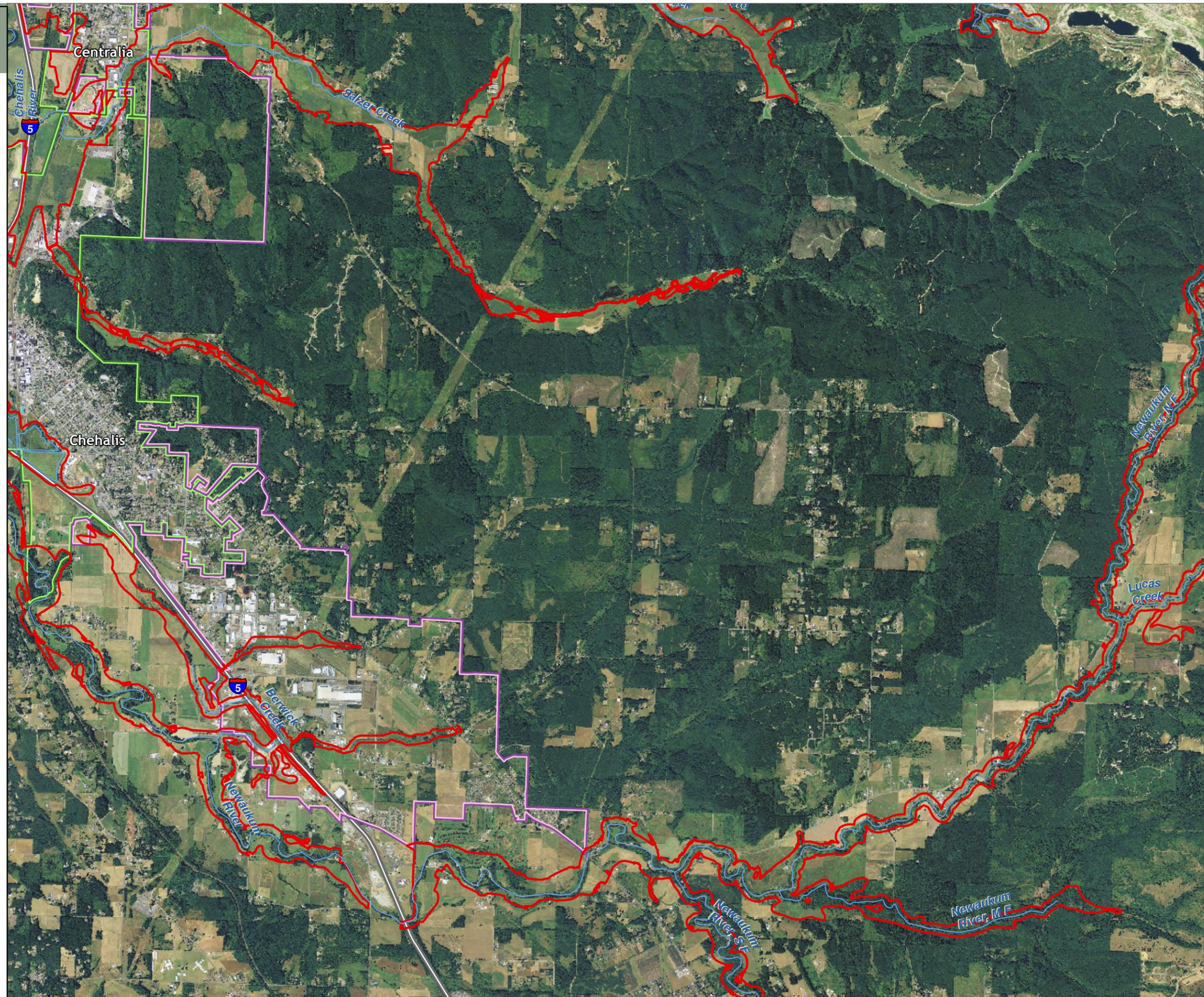
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#### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

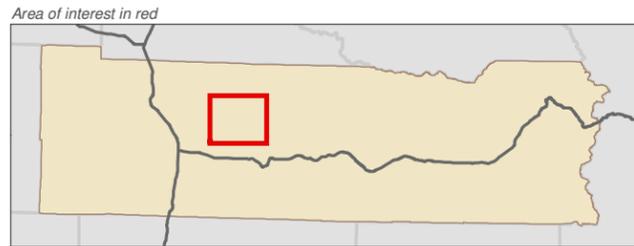
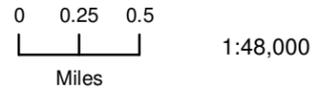
## Map 11A - Geologic Hazards

### Figure 14

Date: 6/3/2014

#### Geologic Hazards

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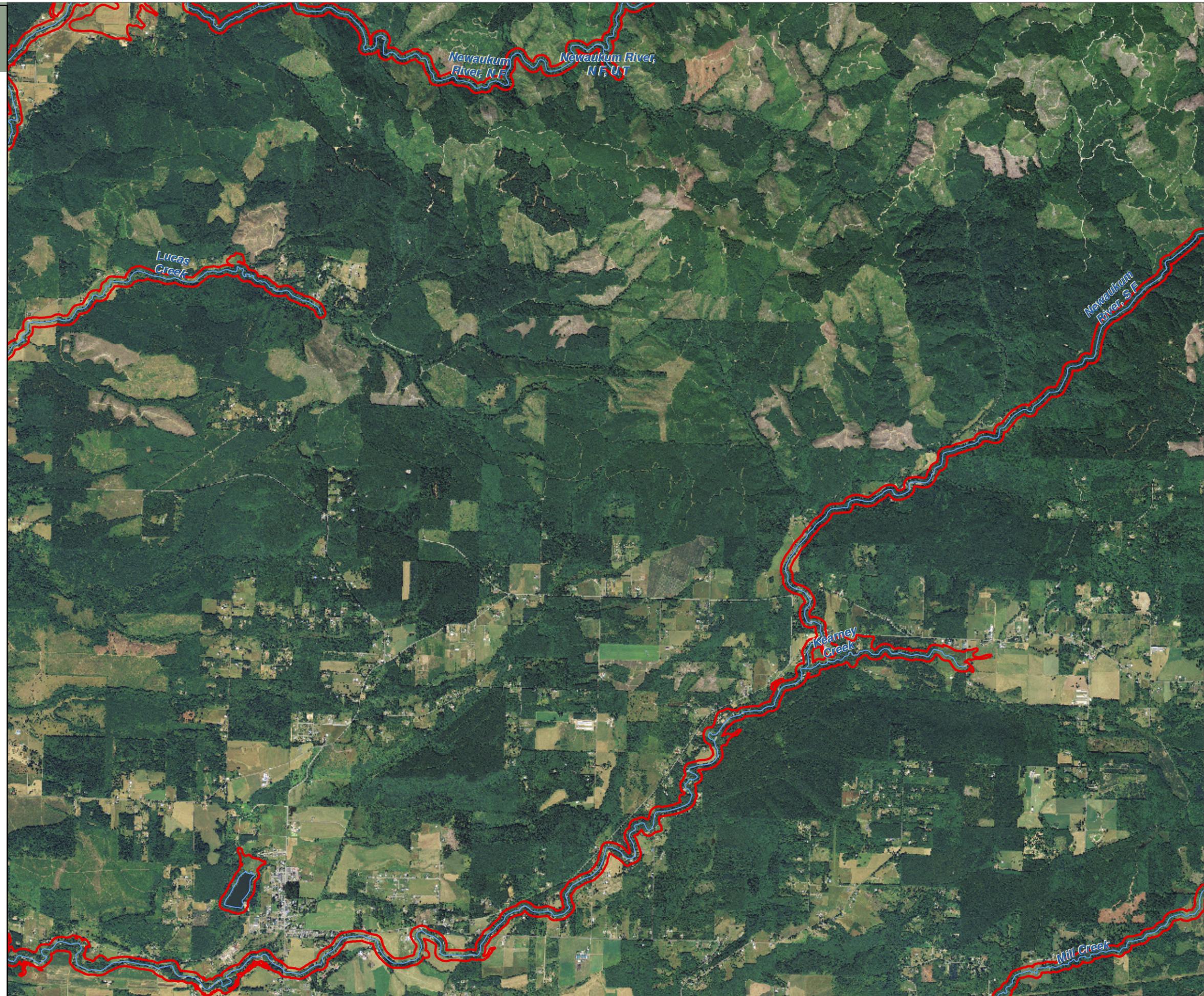
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City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

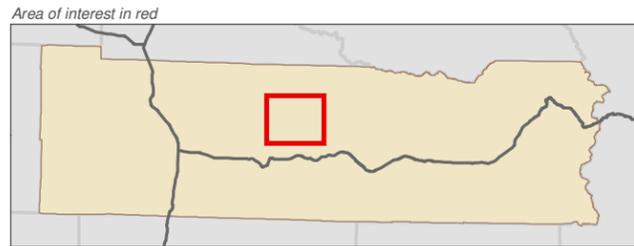
Figure 15

Date: 6/3/2014

### Geologic Hazards

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0 0.25 0.5  
Miles  
1:48,000



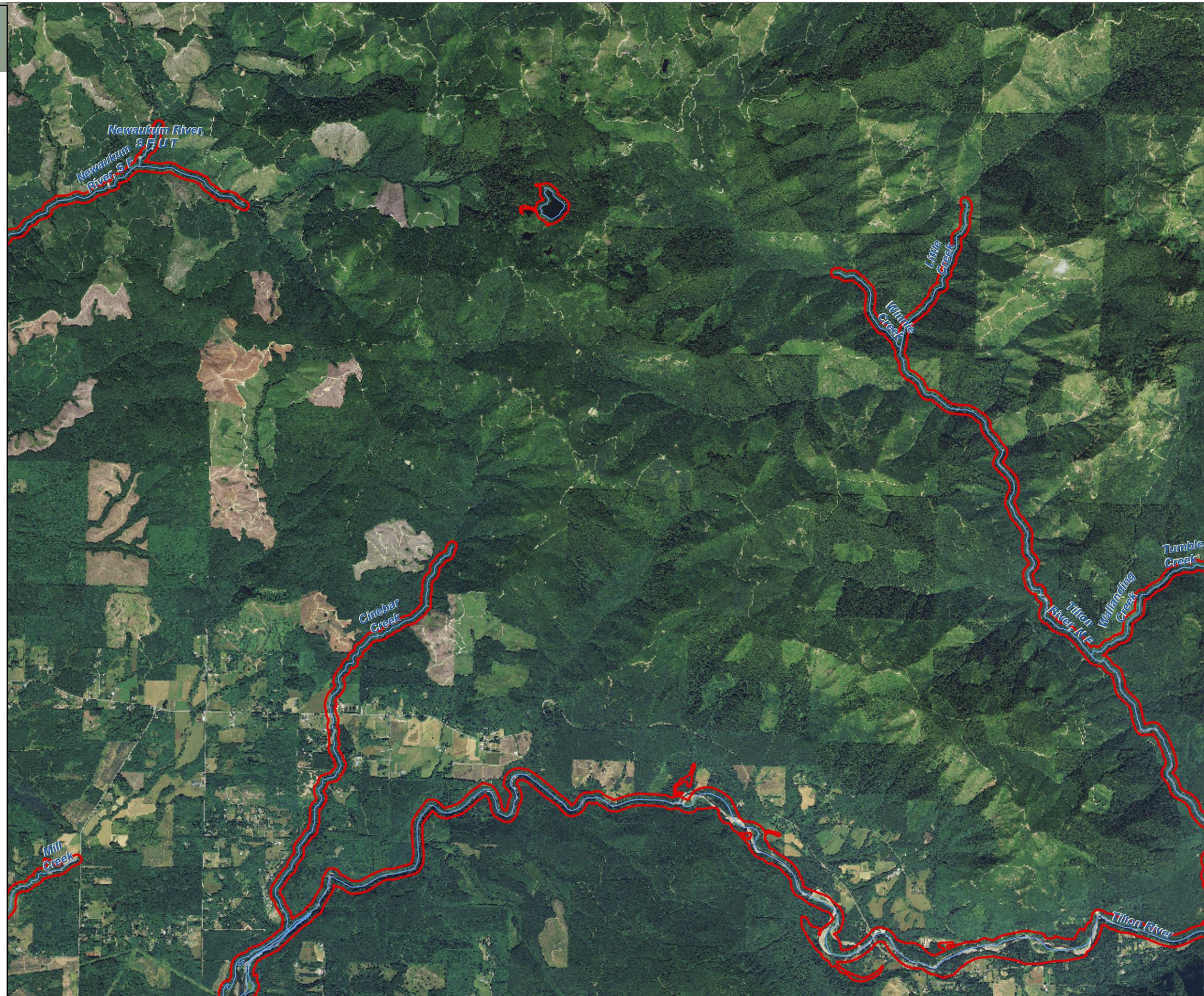
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# Lewis County, Washington Shoreline Master Program

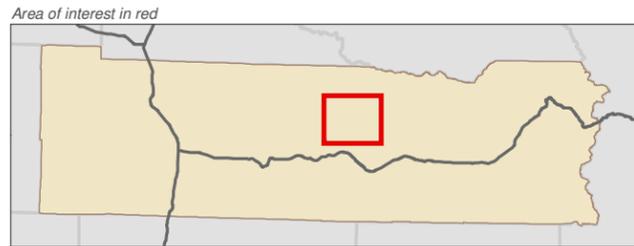
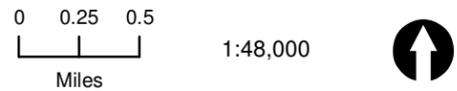
## Map 11A - Geologic Hazards

### Figure 16

Date: 6/3/2014

#### Geologic Hazards

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City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

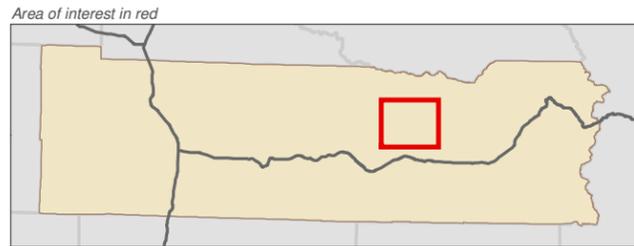
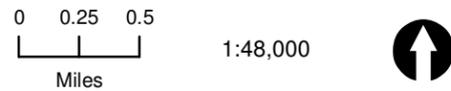
## Map 11A - Geologic Hazards

Figure 17

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

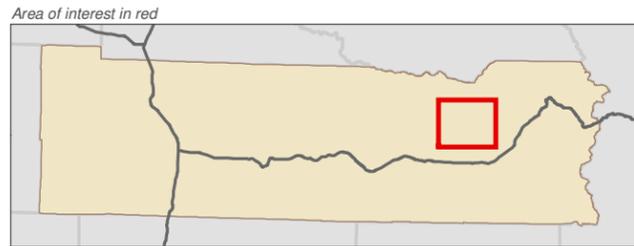
### Figure 18

Date: 6/3/2014

#### Geologic Hazards

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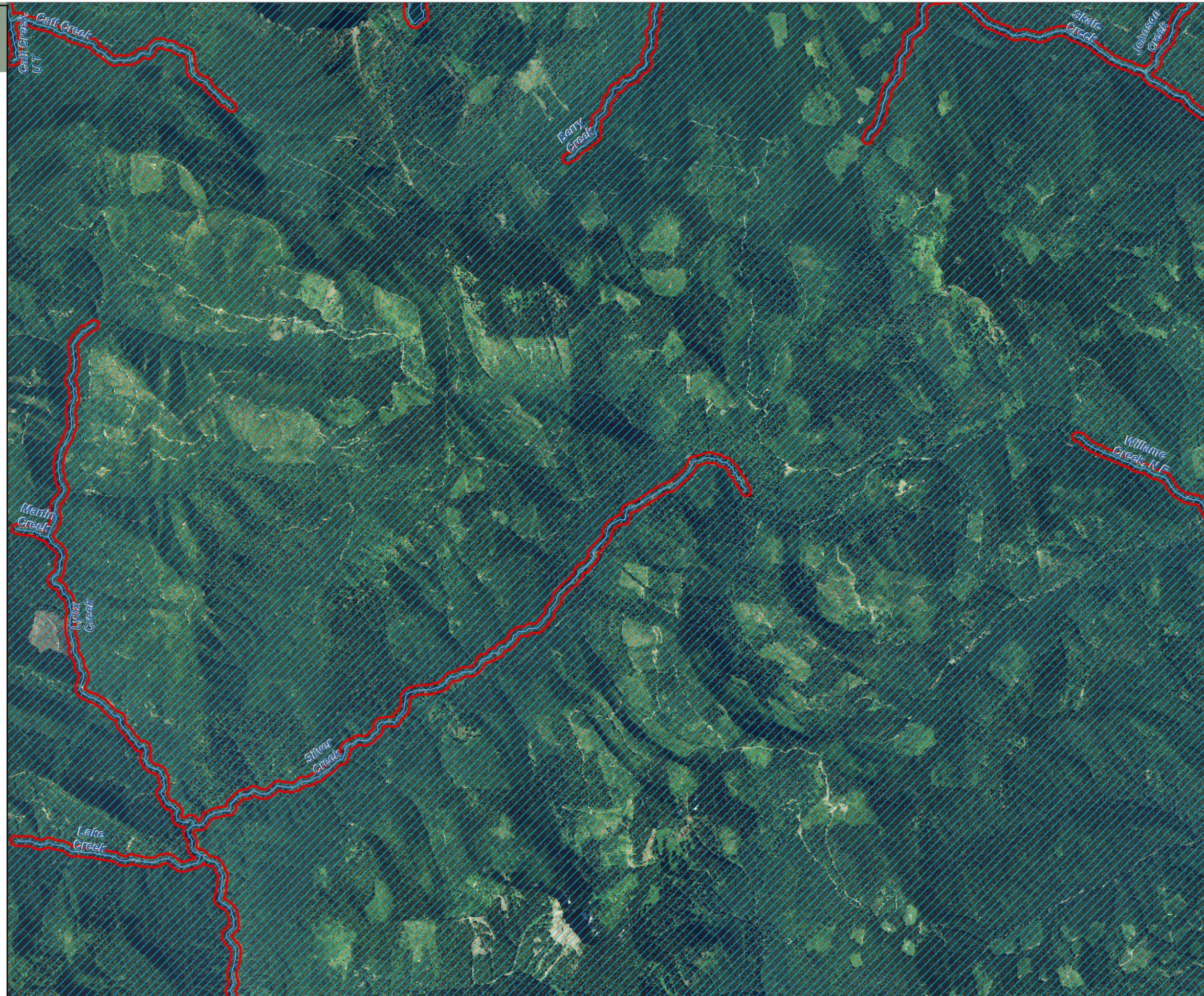
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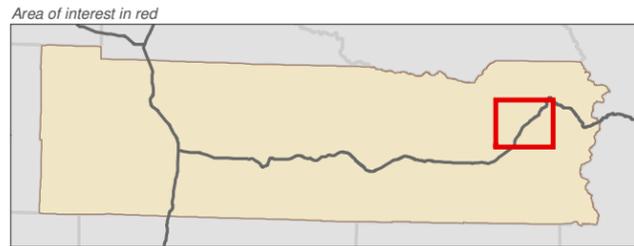
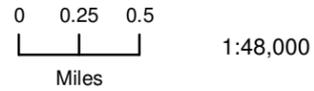
## Map 11A - Geologic Hazards

### Figure 19

Date: 6/3/2014

#### Geologic Hazards

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-  City
-  UGA



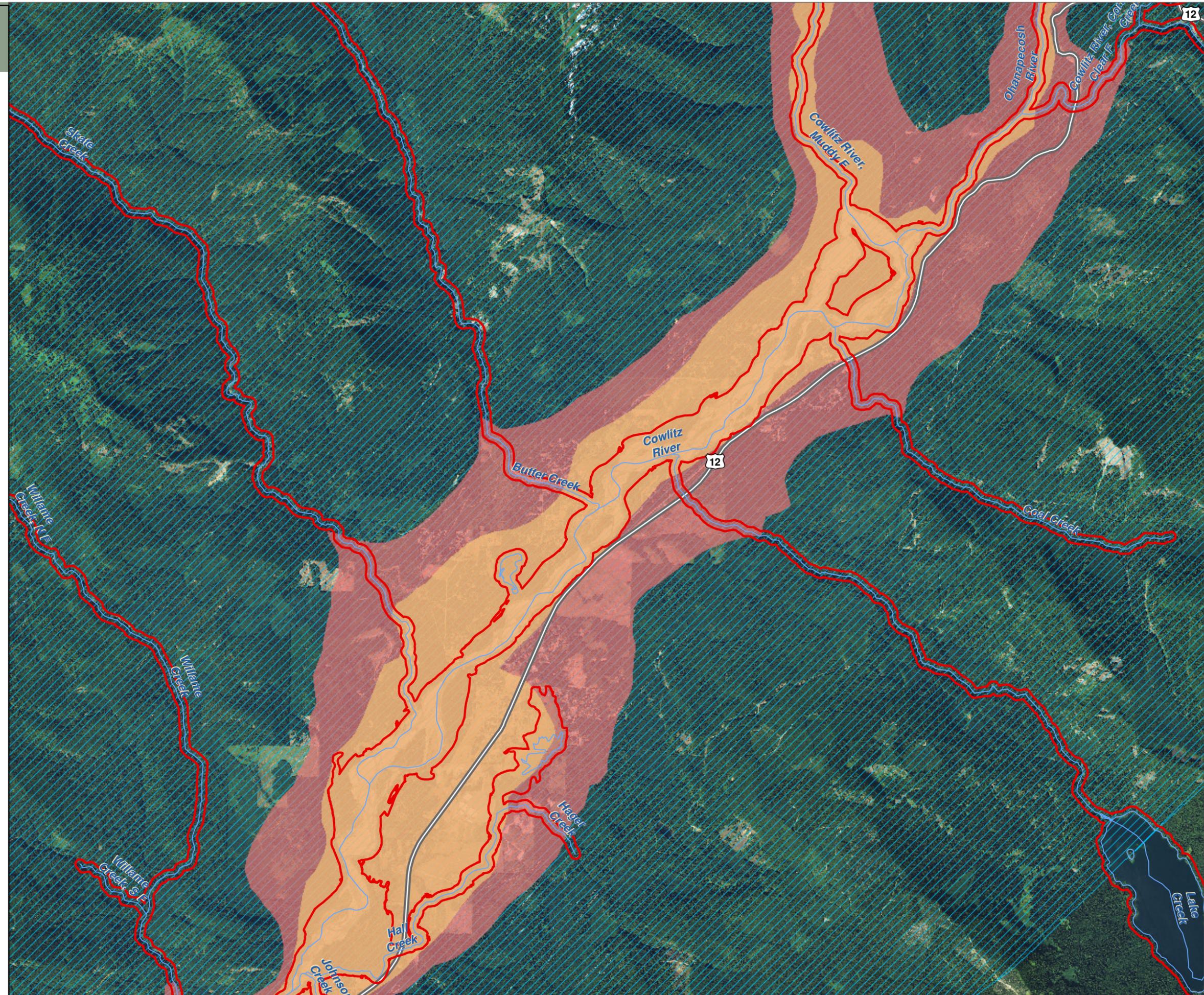
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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#### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

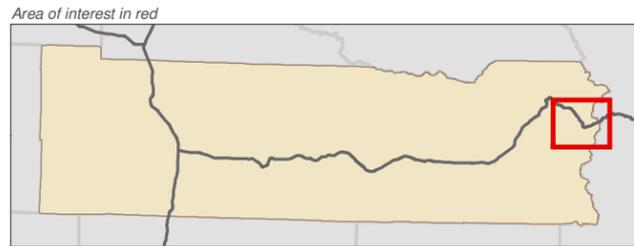
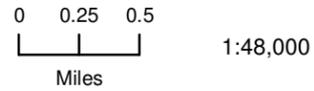
## Map 11A - Geologic Hazards

Figure 20

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA



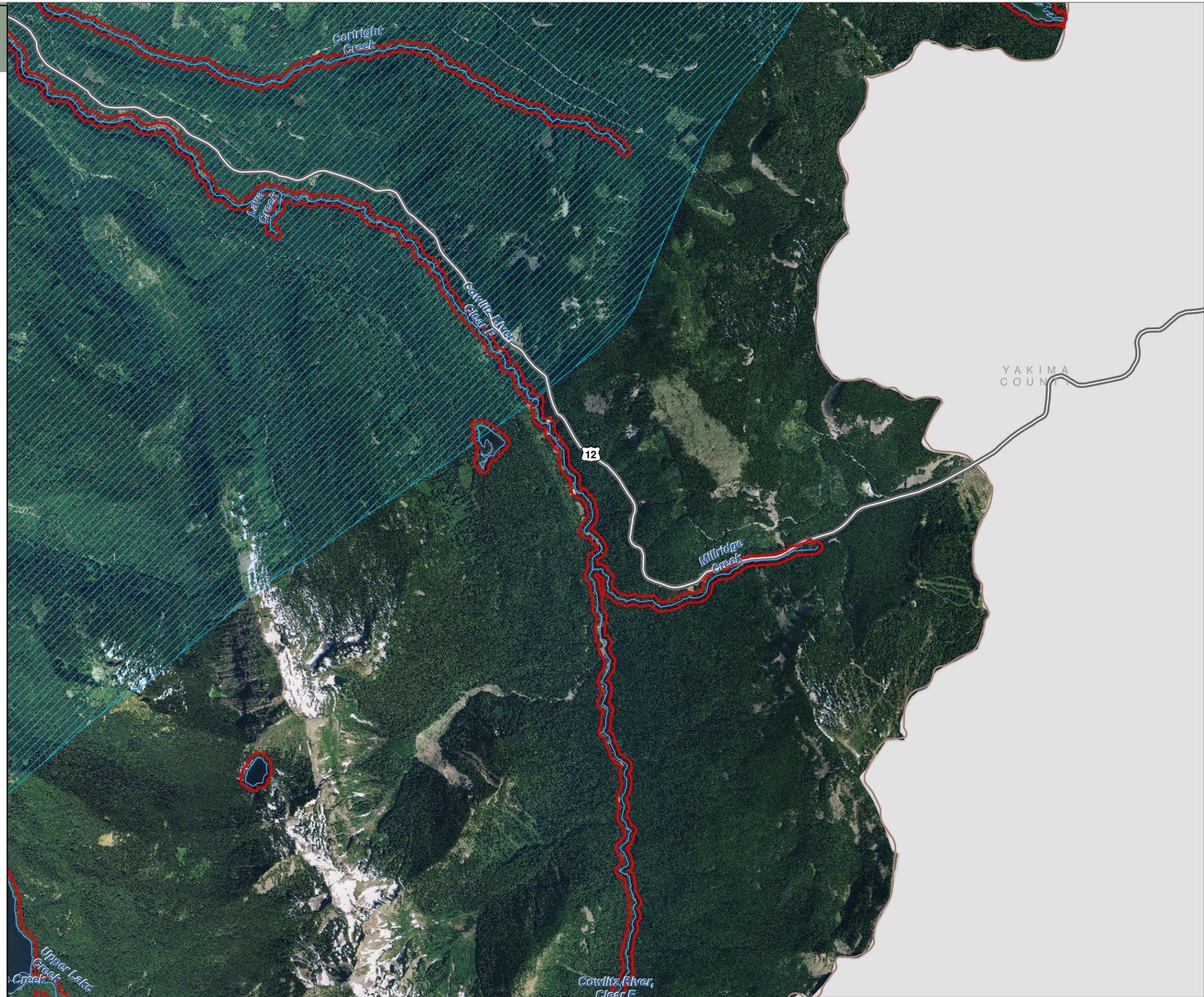
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

### Figure 21

Date: 6/3/2014

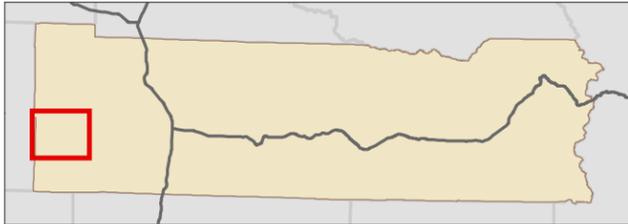
#### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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#### Lewis County Coalition



City of Morton City of Winlock



PACIFIC COUNTY



# Lewis County, Washington Shoreline Master Program

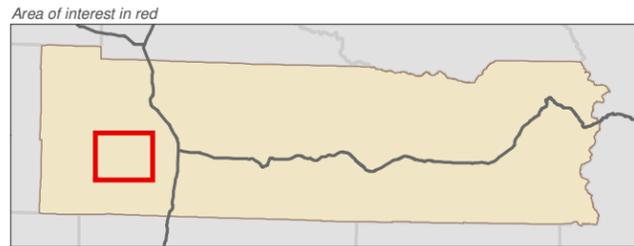
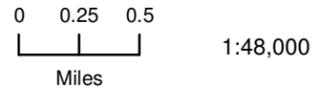
## Map 11A - Geologic Hazards

Figure 22

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA



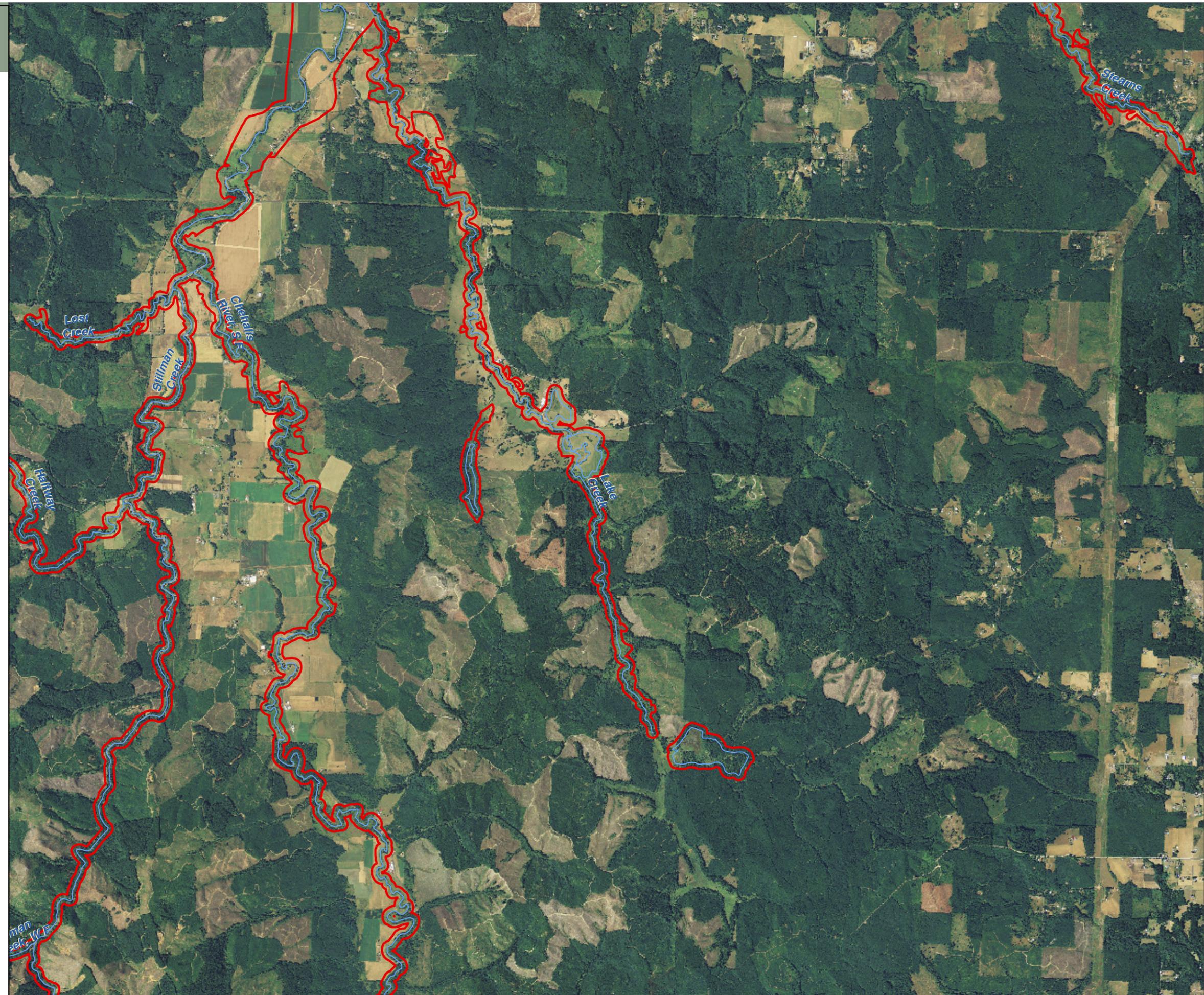
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

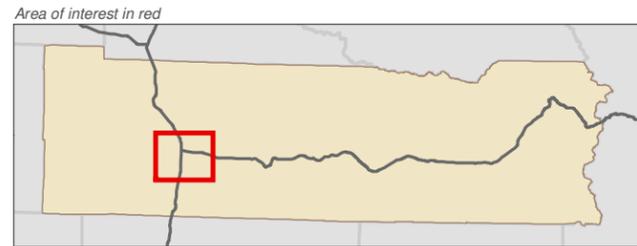
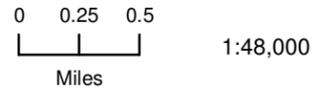
## Map 11A - Geologic Hazards

Figure 23

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA



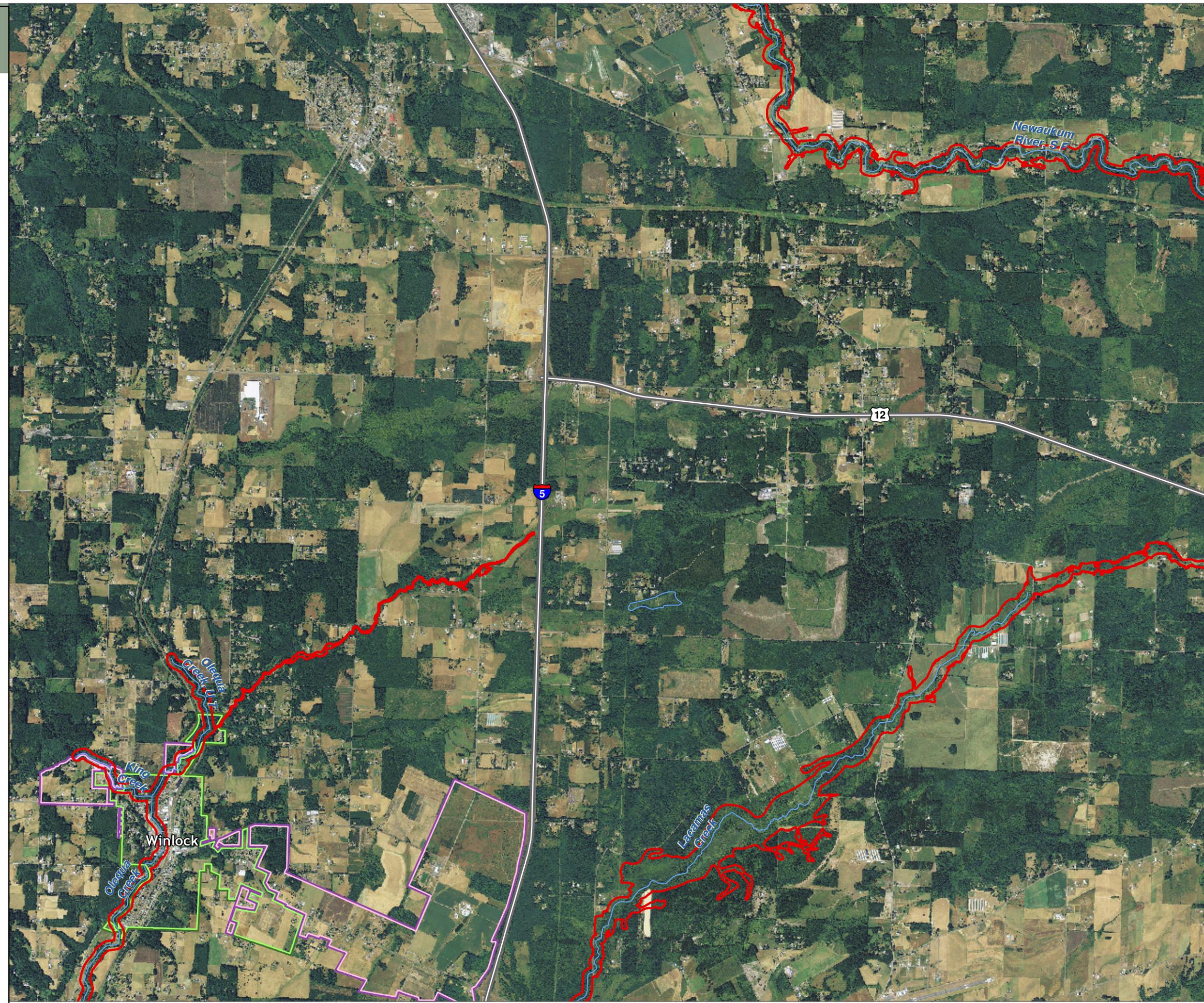
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

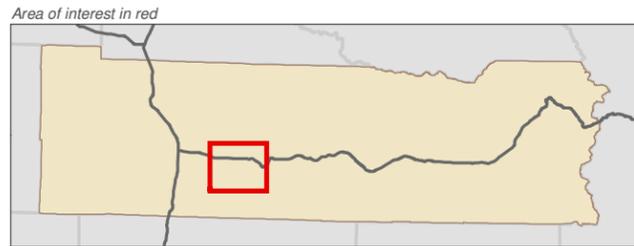
Figure 24

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



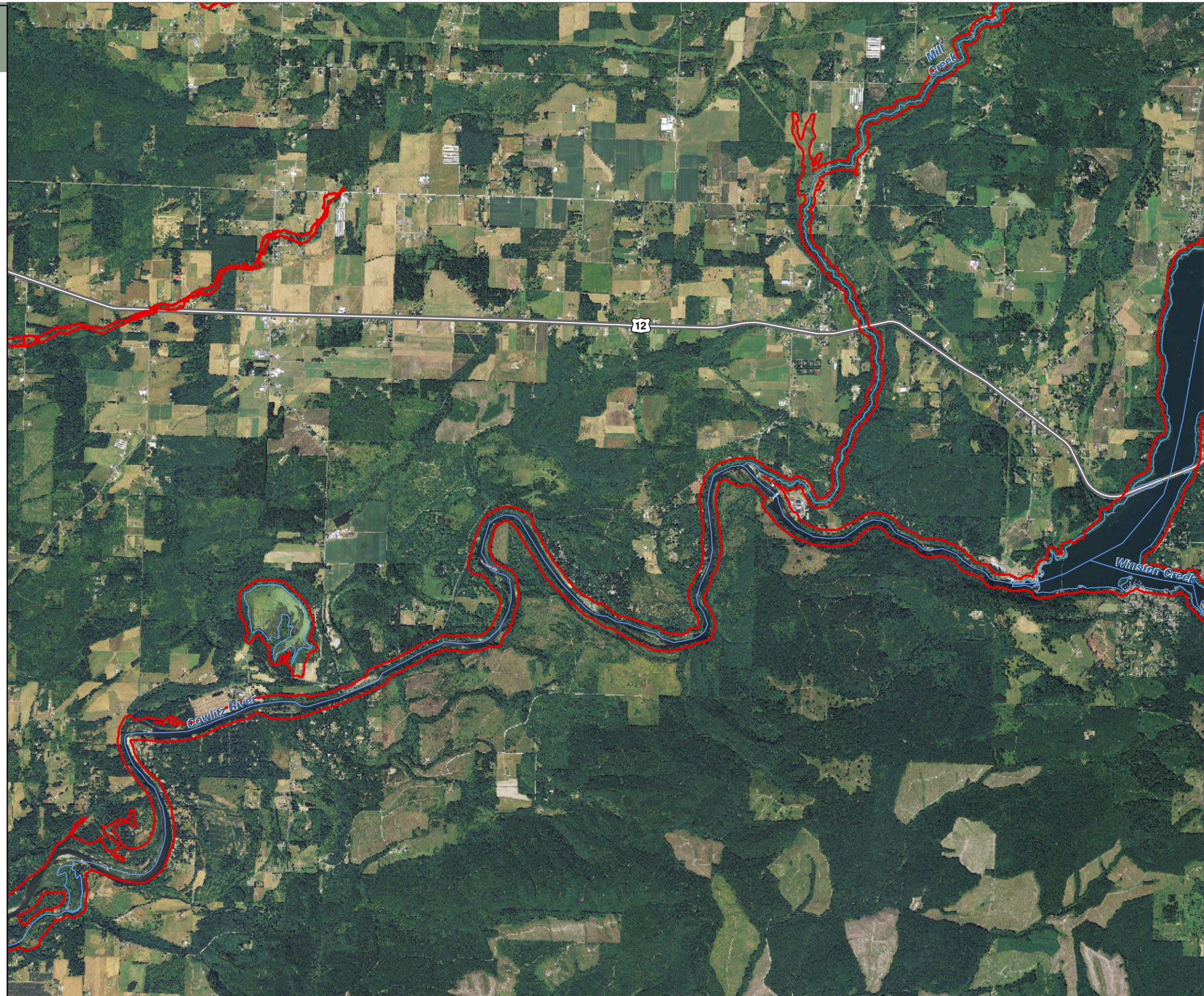
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 25

Date: 6/3/2014

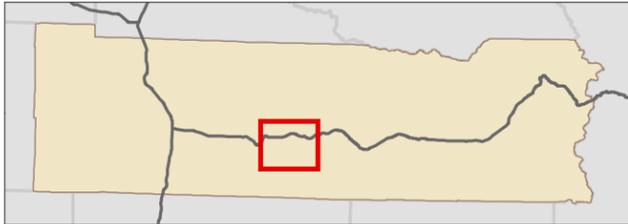
### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



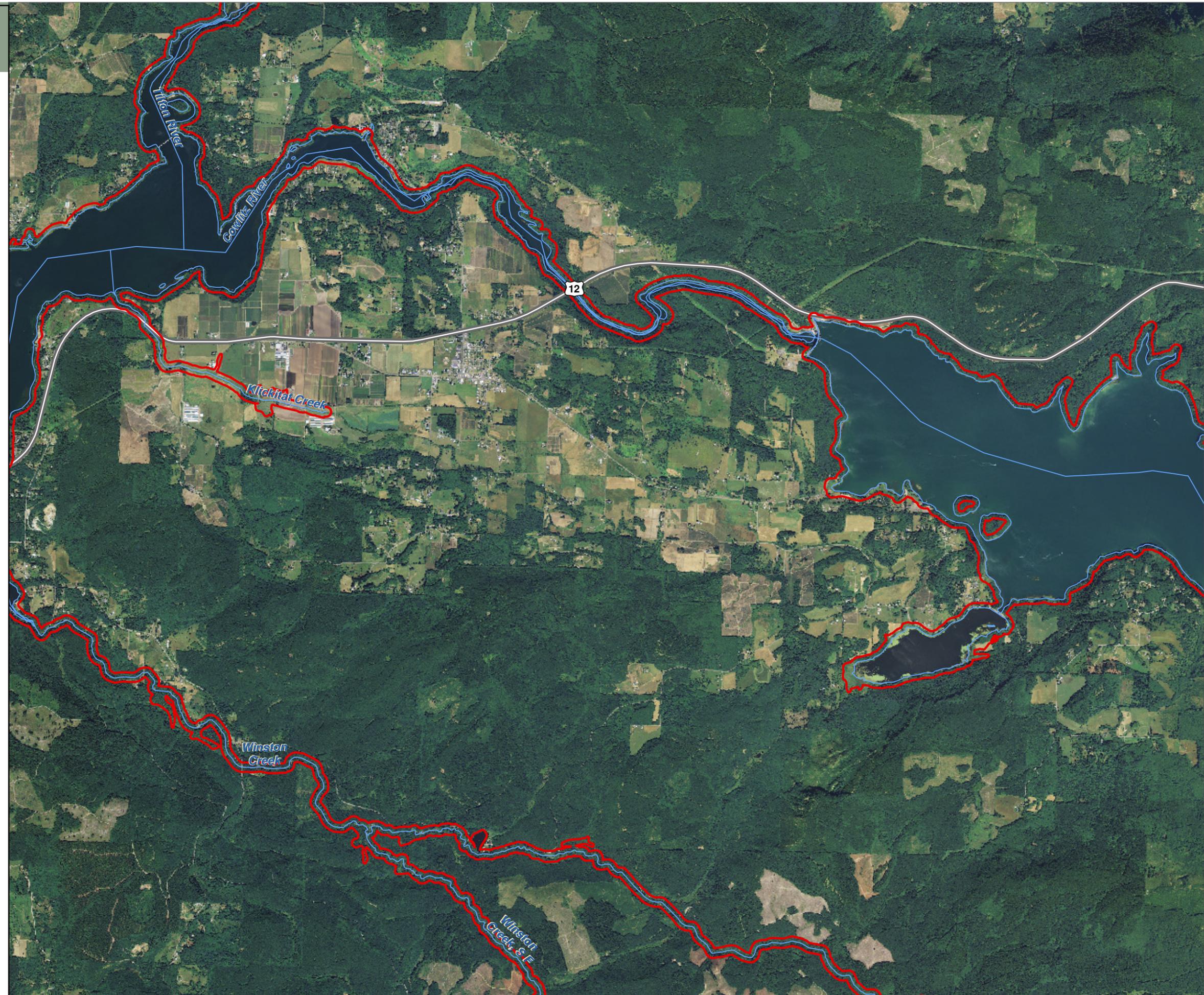
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 26

Date: 6/3/2014

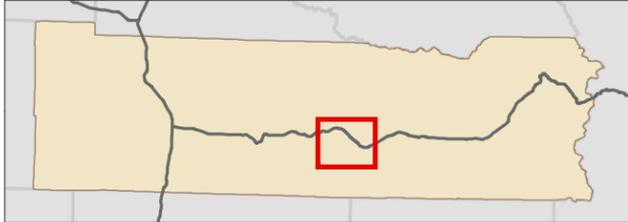
### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



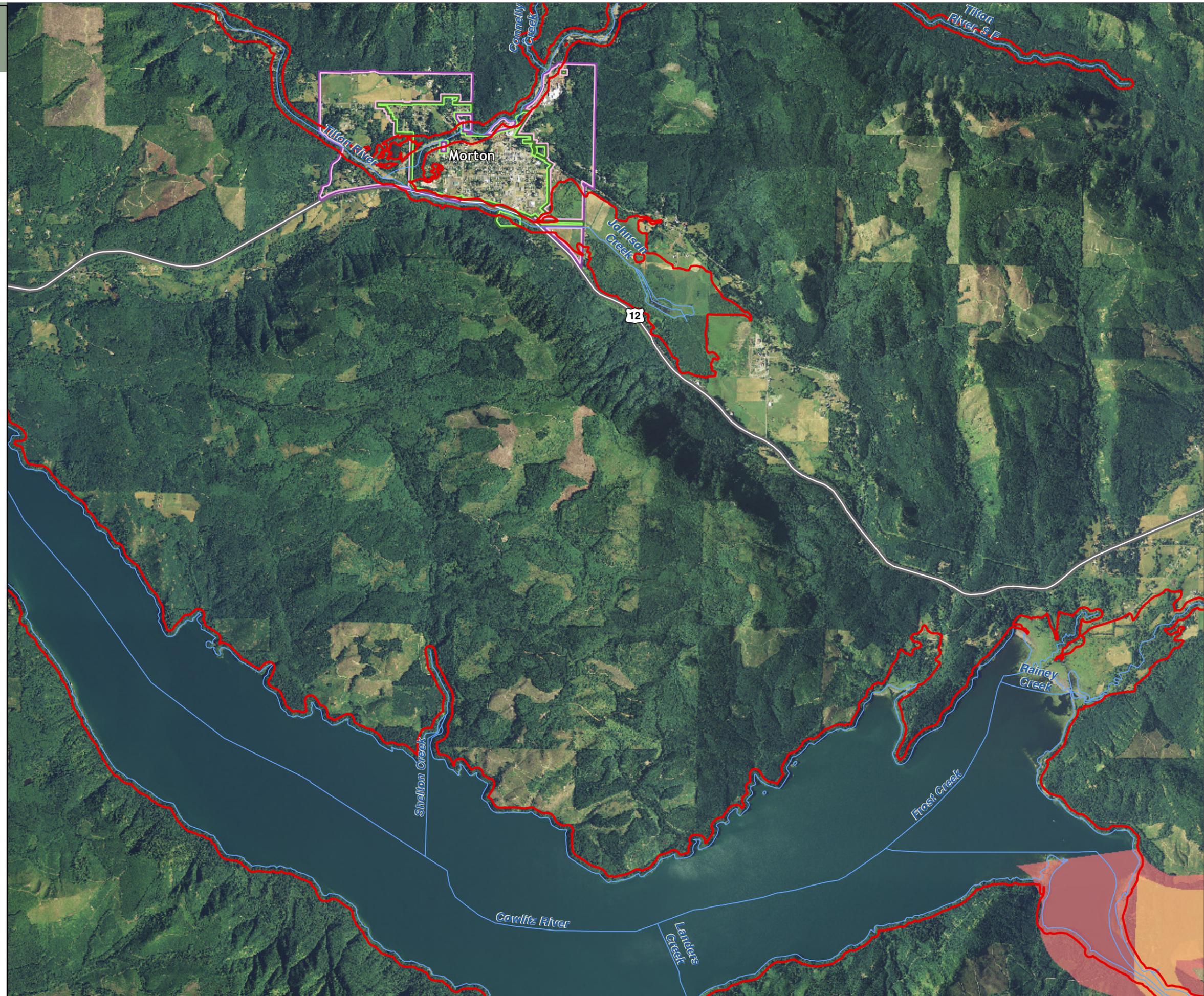
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

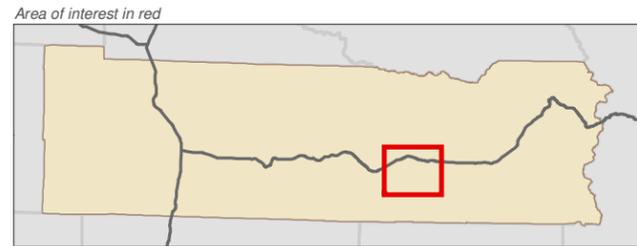
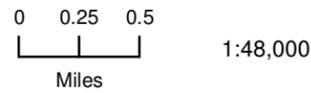
## Map 11A - Geologic Hazards

Figure 27

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA



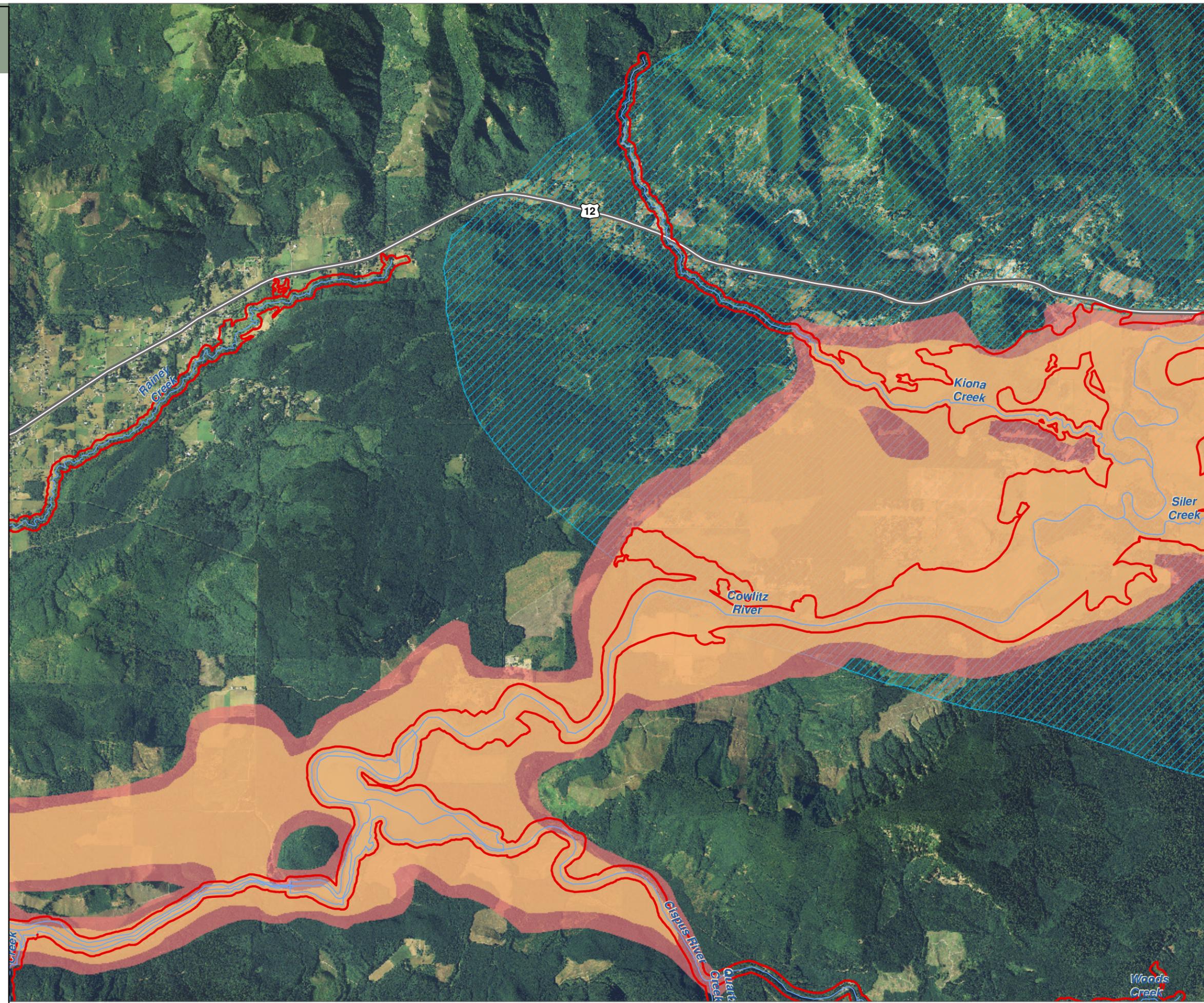
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

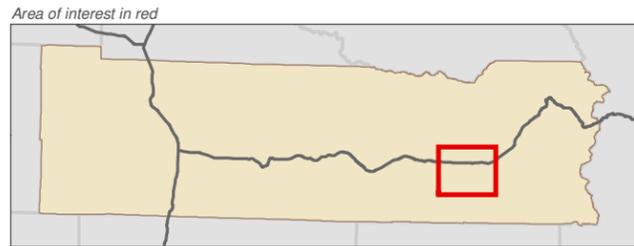
Figure 28

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



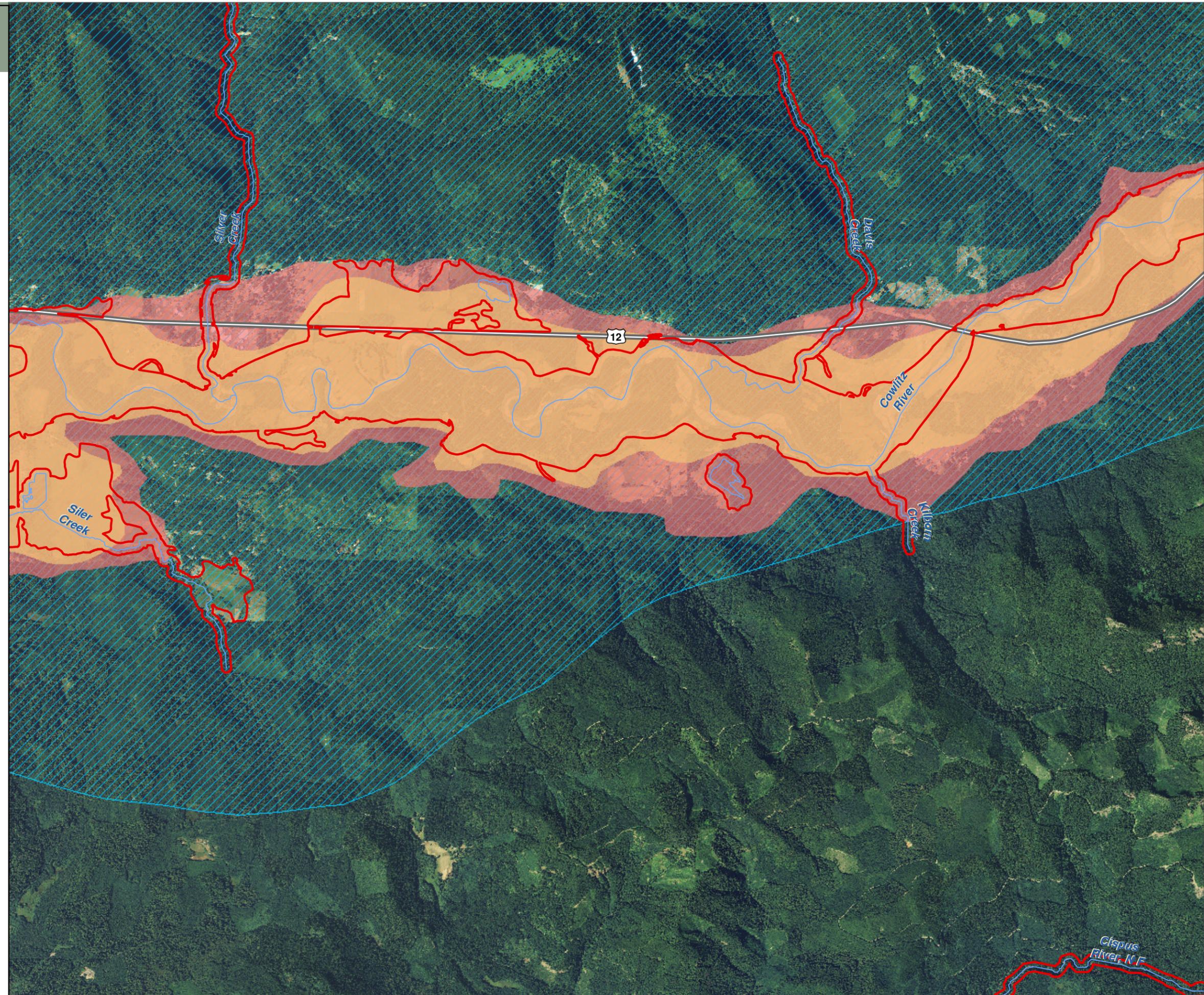
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

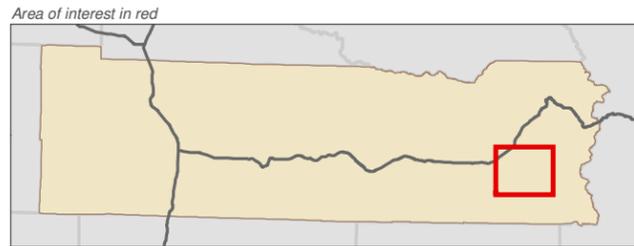
Figure 29

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
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-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



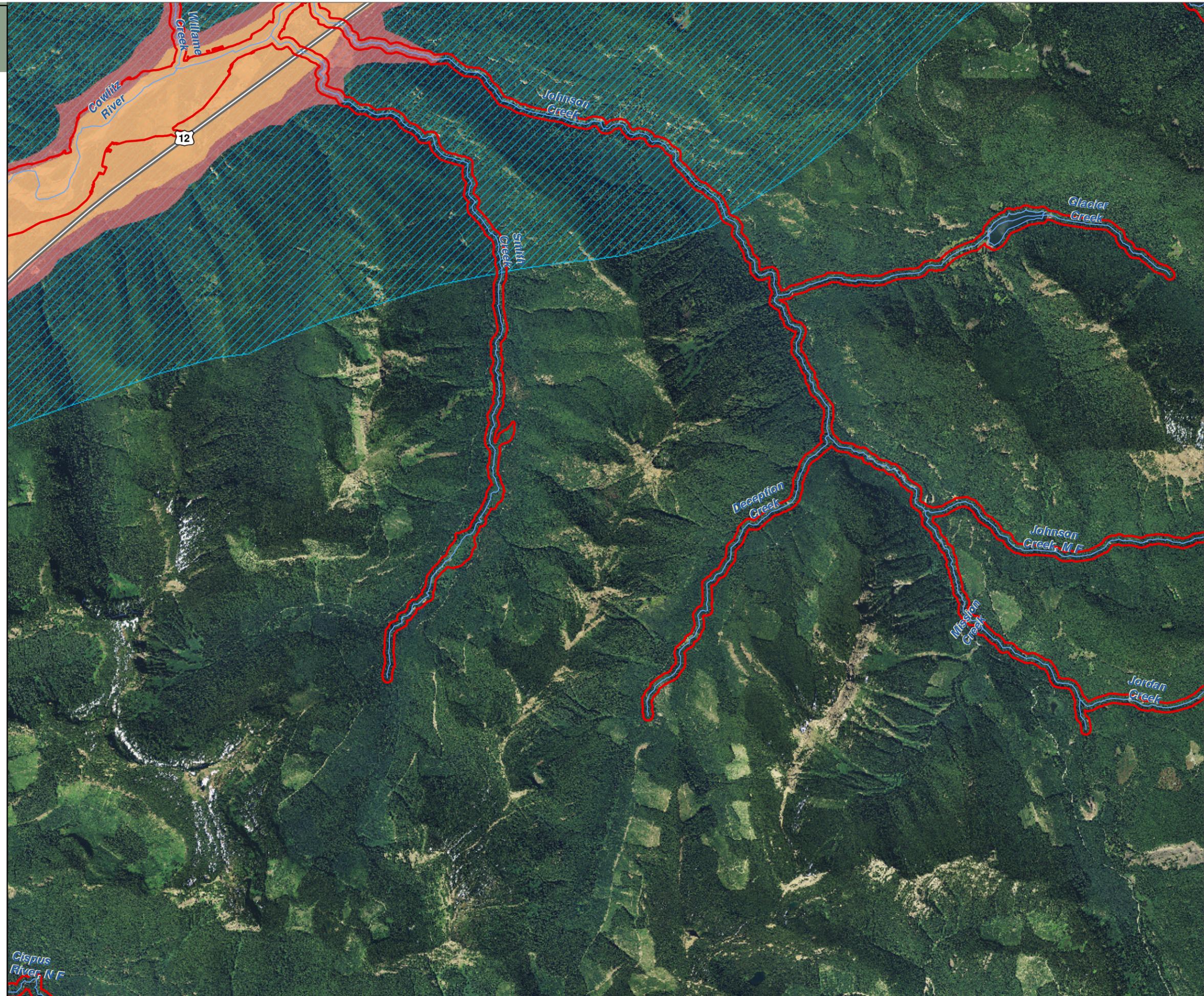
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards Figure 30

Date: 6/3/2014

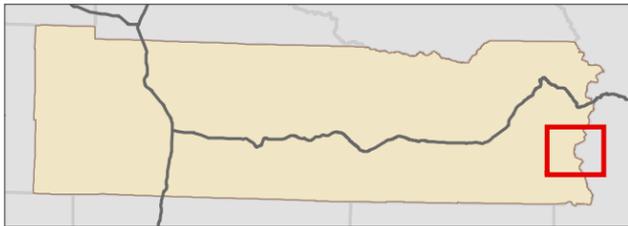
### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



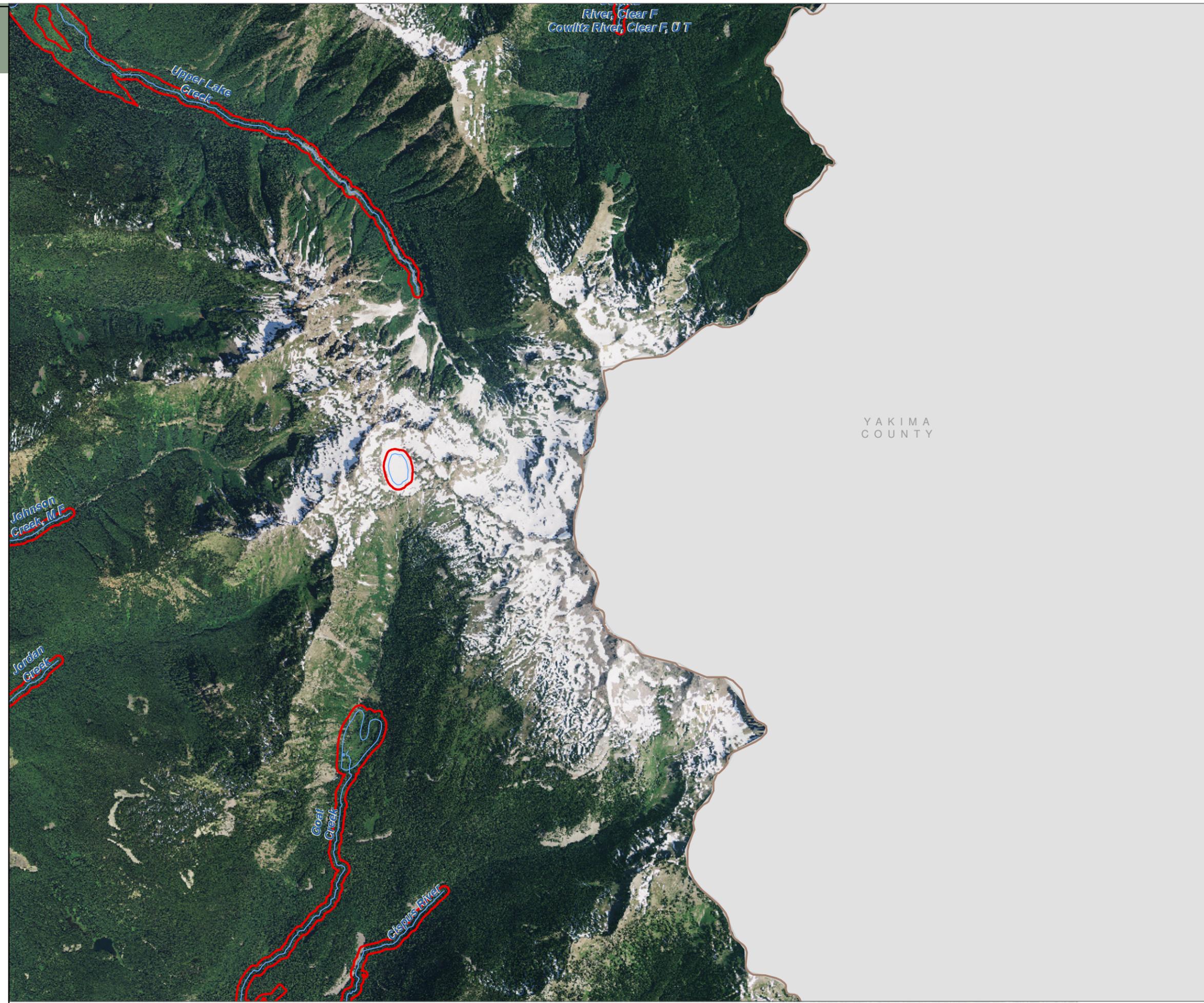
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

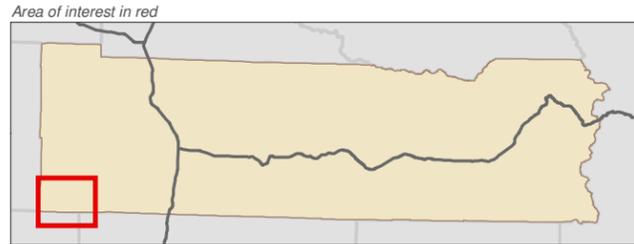
Figure 31

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



PACIFIC COUNTY



WAH K I A K U M  
C O U N T Y

C O W L I T Z  
C O U N T Y

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

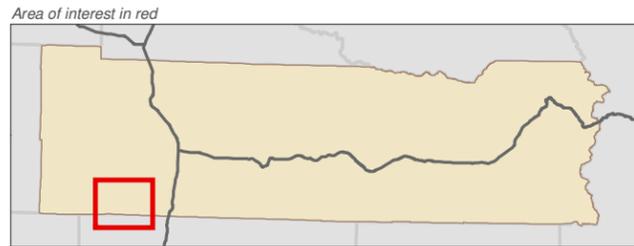
Figure 32

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



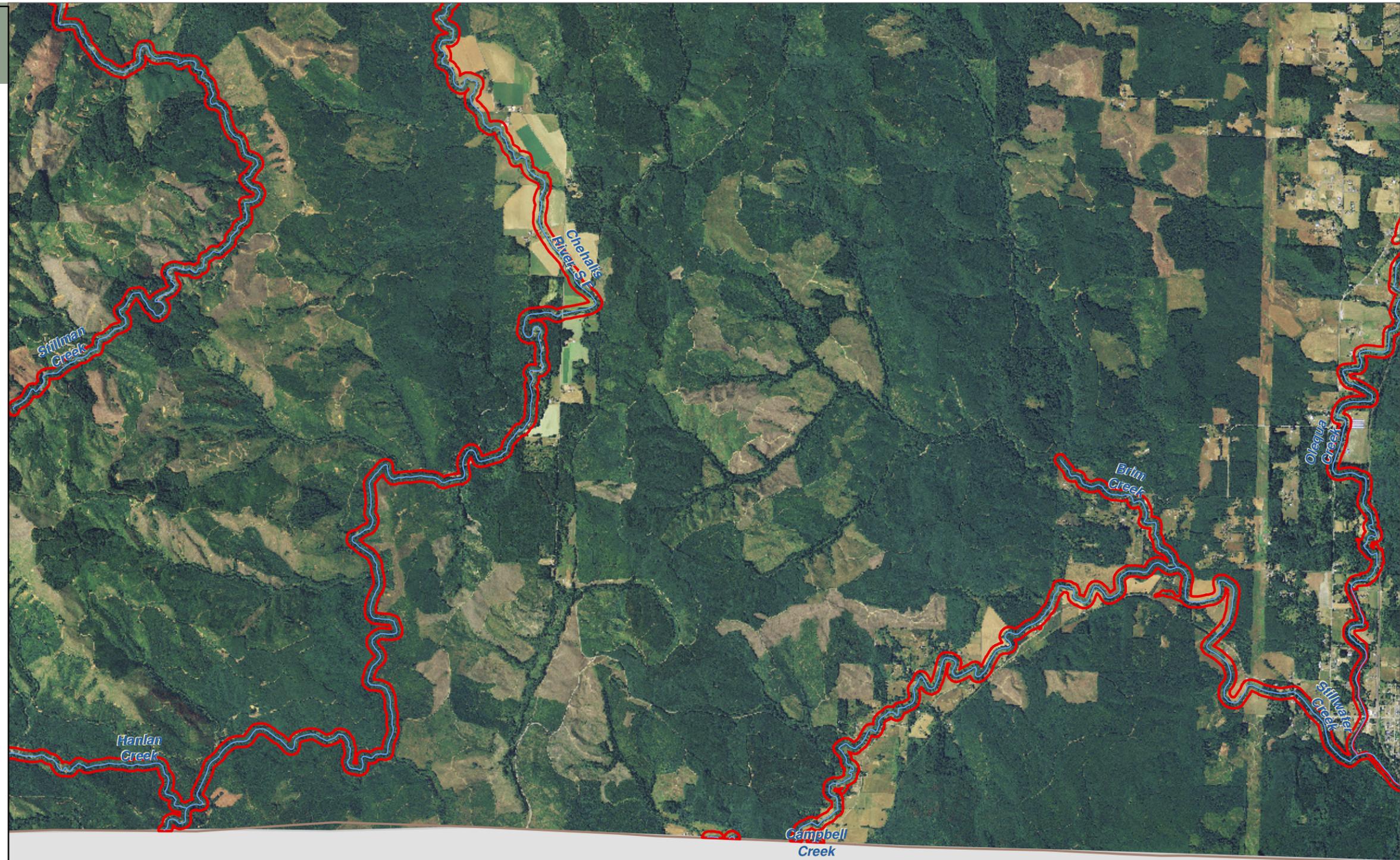
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



COWLITZ  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 33

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



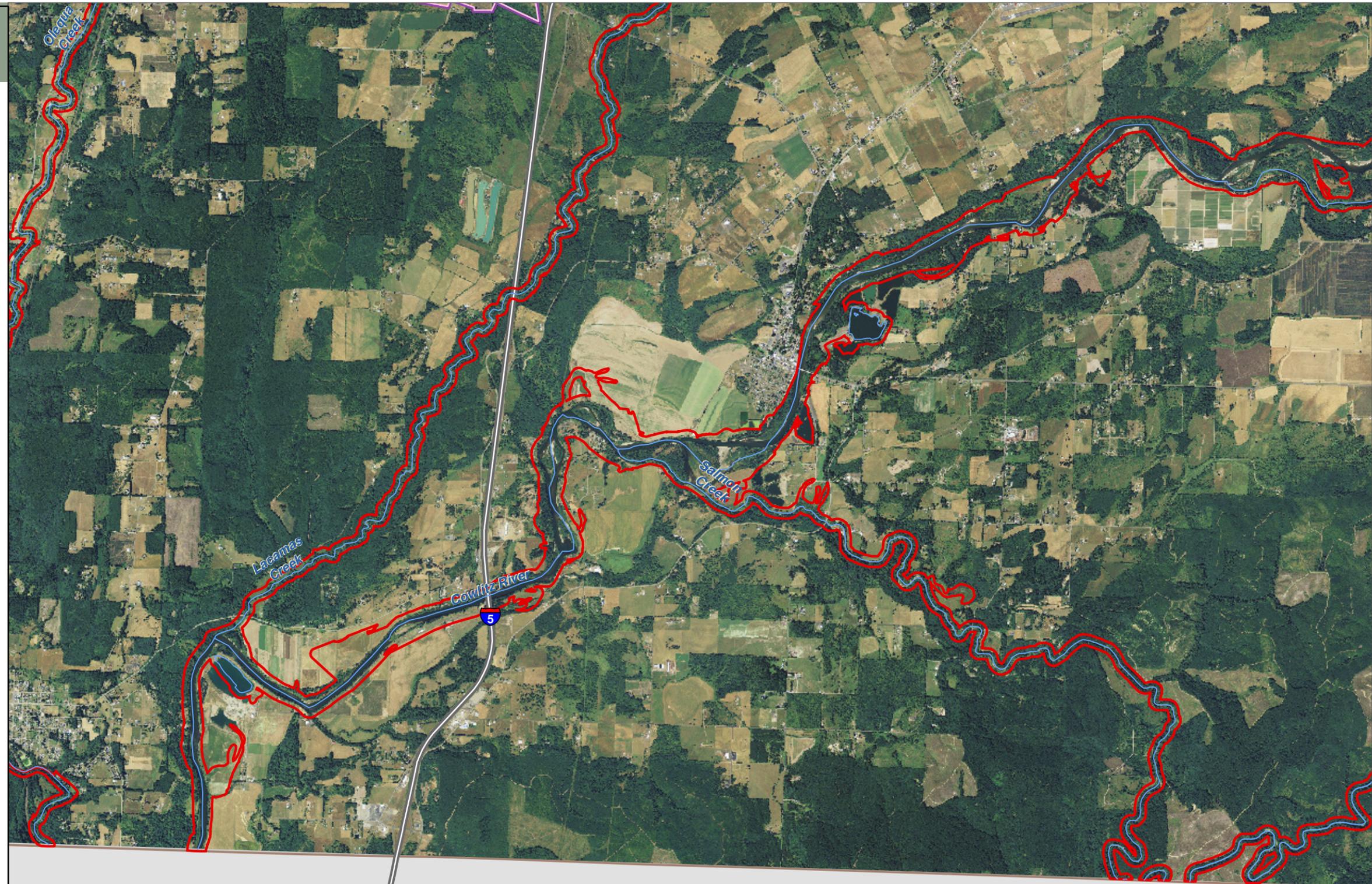
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



COWLITZ  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

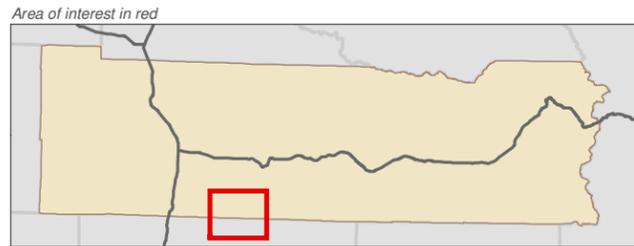
### Figure 34

Date: 6/3/2014

#### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



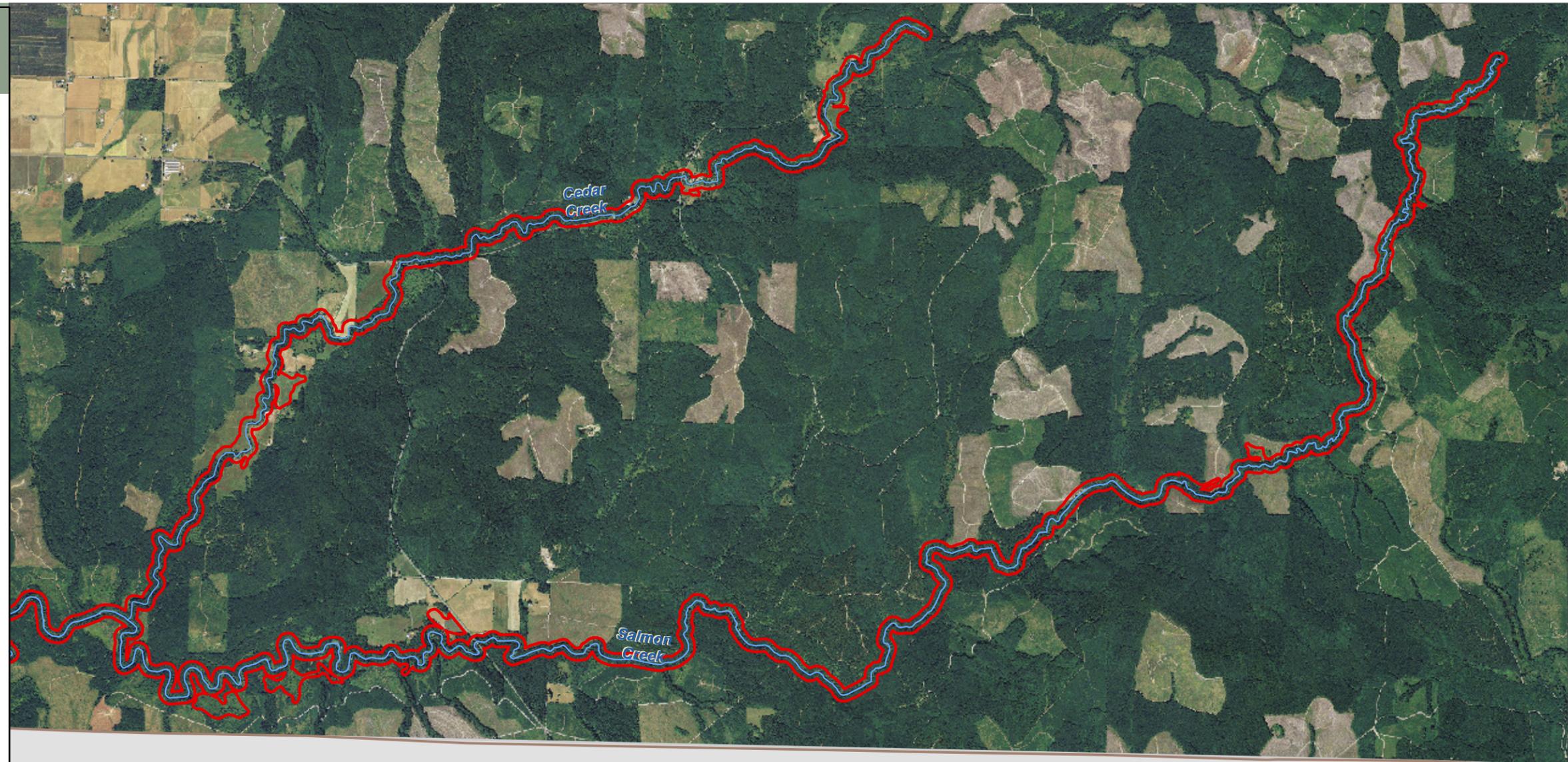
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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#### Lewis County Coalition



City of Morton City of Winlock



COWLITZ  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

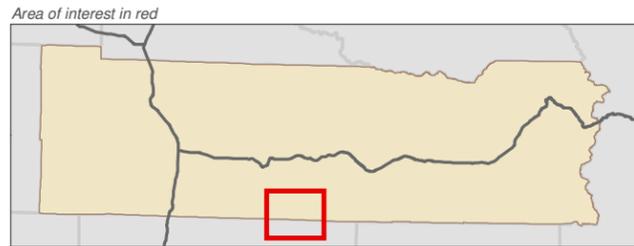
Figure 35

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



COWLITZ  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

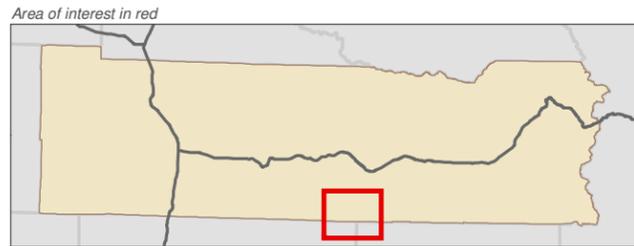
Figure 36

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5  
Miles  
1:48,000



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



COWLITZ  
COUNTY

SKAMANIA  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 37

Date: 6/3/2014

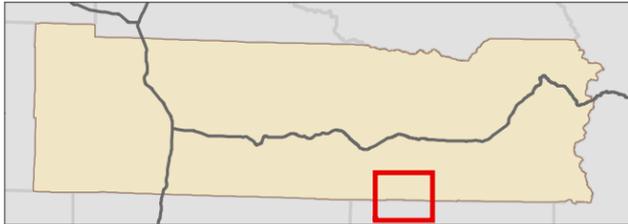
### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
-  Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
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-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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### Lewis County Coalition



City of Morton City of Winlock



SKAMANIA  
COUNTY

# Lewis County, Washington Shoreline Master Program

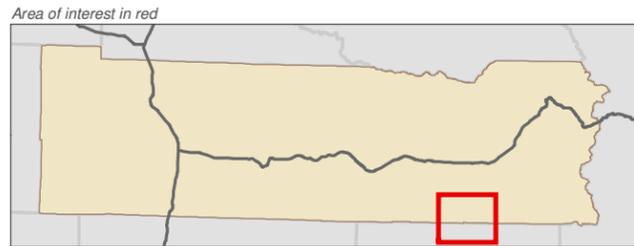
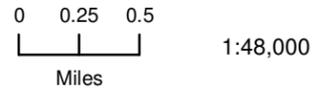
## Map 11A - Geologic Hazards

Figure 38

Date: 6/3/2014

### Geologic Hazards

- Small Lahars (Recurrence Interval < 100 Years - Case 3)
- Moderate Lahars (Recurrence Interval 100-500 Years - Case 2)
- Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
- Rainier Blast Zone
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

Shoreline jurisdiction boundaries depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm/verify information shown on this map.

### Lewis County Coalition



City of Morton City of Winlock



SKAMANIA  
COUNTY

# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

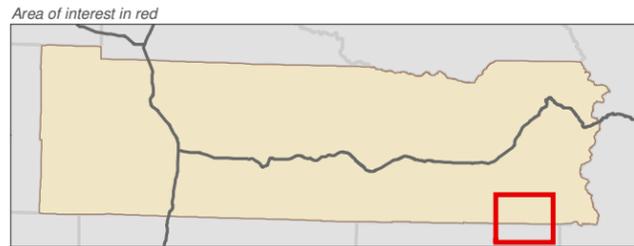
Figure 39

Date: 6/3/2014

### Geologic Hazards

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0 0.25 0.5  
Miles  
1:48,000



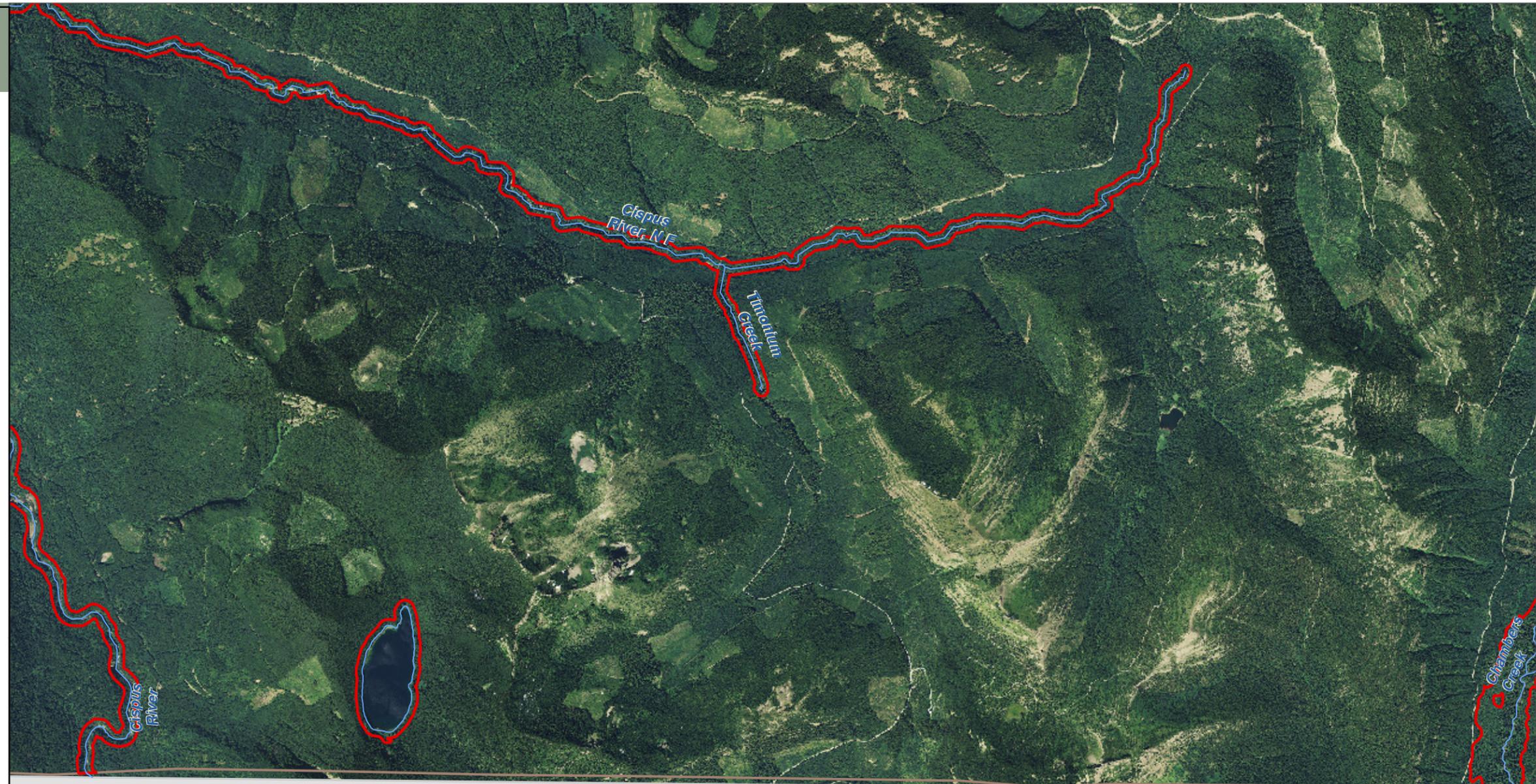
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City of Morton City of Winlock



SKAMANIA  
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# Lewis County, Washington Shoreline Master Program

## Map 11A - Geologic Hazards

Figure 40

Date: 6/3/2014

### Geologic Hazards

-  Small Lahars (Recurrence Interval < 100 Years - Case 3)
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-  Large Lahars (Recurrence Interval 500-1,000 Years - Case 1)
-  Rainier Blast Zone
-  SMA Rivers & Streams
-  SMA Lakes
-  Highways
-  Parcels
-  SMA Jurisdiction
-  City
-  UGA

0 0.25 0.5  
Miles  
1:48,000



Area of interest in red



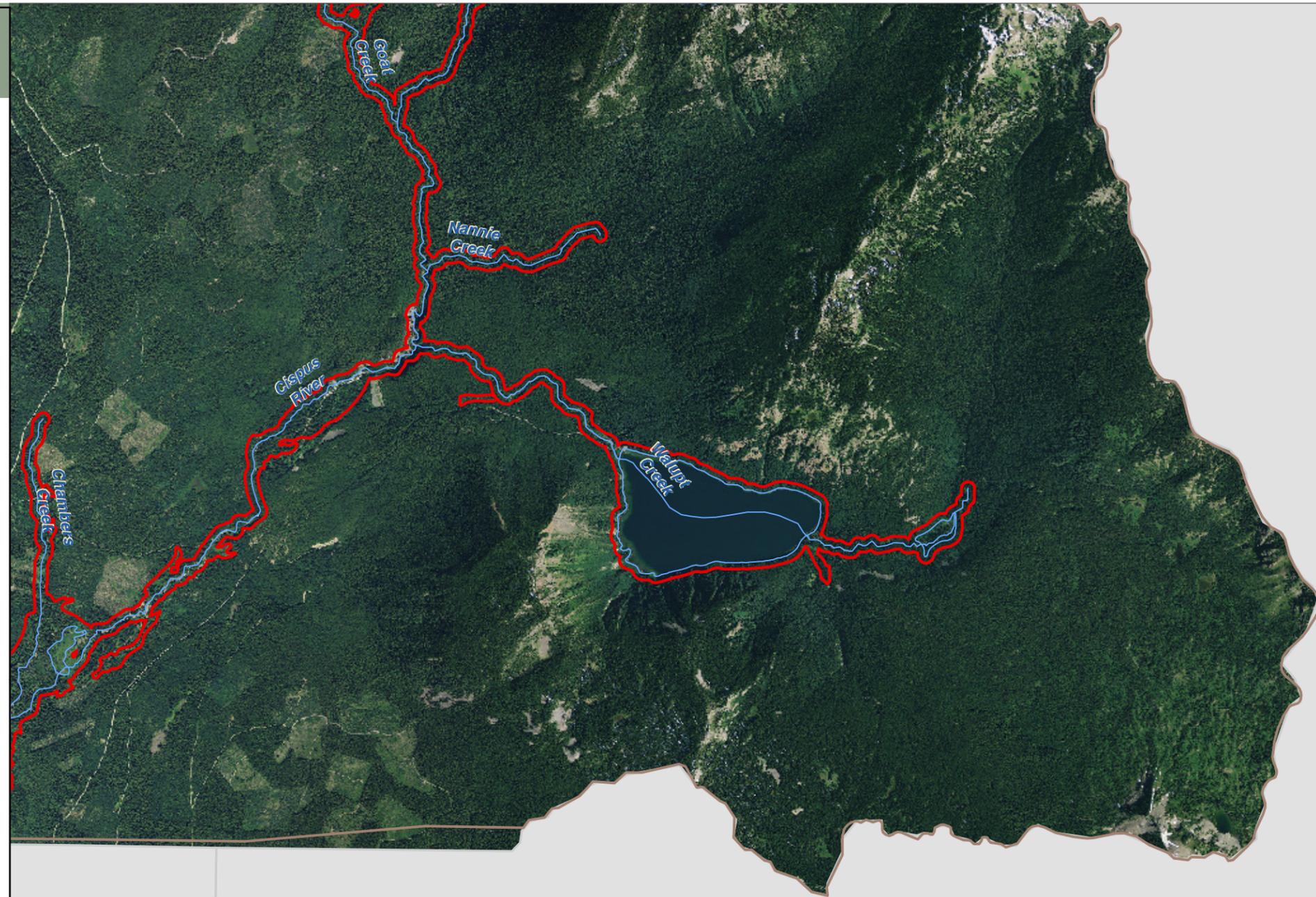
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City of Morton City of Winlock



SKAMANIA  
COUNTY

YAKIMA  
COUNTY