



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Woodland Clark County Washington	NO PROJECT	1D HYDRAULIC ANALYSIS FLOODWAY UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 530035		
IDENTIFIER	Lewis River In Clark County, WA	APPROXIMATE LATITUDE & LONGITUDE: 45.916, -122.723 SOURCE: OTHER      DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*      NO.: 53015C0886G      DATE: December 16, 2015		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: December 16, 2015 PROFILES: 98P AND 99P FLOODWAY DATA TABLE: 15	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE(S) & REVISED REACH(ES)

Lewis River - From approximately 7.66 miles above the river mouth to approximately 8.6 miles above the river mouth

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Lewis River	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES
	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

\* BFEs - Base (1-percent-annual-chance) Flood Elevations

### DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief  
Engineering Services Branch  
Federal Insurance and Mitigation Administration

23-10-0005P

102-I-A-C



# Federal Emergency Management Agency

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### OTHER COMMUNITIES AFFECTED BY THIS REVISION

**CID Number:** 530024      **Name:** Unincorporated Areas of Clark County, Washington

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM	NO.: 53011C0061D	DATE: September 5, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: January 19, 2018 PROFILES: 71P AND 72P FLOODWAY DATA TABLE: 9
TYPE: FIRM	NO.: 53011C0062D	DATE: September 5, 2012	

**CID Number:** 530032      **Name:** Unincorporated Areas of Cowlitz County, Washington

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM	NO.: 53015C0886G	DATE: December 16, 2015	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: December 16, 2015 PROFILES: 98P AND 99P FLOODWAY DATA TABLE: 15
TYPE: FIRM	NO.: 53015C0887G	DATE: December 16, 2015	

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### COMMUNITY INFORMATION

#### APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

A handwritten signature in black ink, appearing to read "Rick F. Sacbibit".

Patrick "Rick" F. Sacbibit, P.E., Branch Chief  
Engineering Services Branch  
Federal Insurance and Mitigation Administration



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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Kristen Meyers  
Director, Mitigation Division  
Federal Emergency Management Agency, Region X  
Federal Regional Center  
130 228th Street, Southwest  
Bothell, WA 98021-8627  
(425) 487-4543

### STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at

[https://www.floodmaps.fema.gov/fhm/bfe\\_status/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp)

#### LOCAL NEWSPAPER

Name: *The Reflector*

Dates: January 4, 2023 and January 11, 2023

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH <sup>2</sup> (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88)	WITHOUT FLOODWAY (FEET NAVD88)	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)
LEWIS RIVER (Continued)								
E	2.380	884/545	17,318	7.7	26.4	25.9 <sup>3</sup>	26.5 <sup>3</sup>	0.6
F	2.980	636/396	14,395	9.2	27.1	27.1	27.9	0.8
G	3.180	536/362	12,769	10.4	27.6	27.6	28.3	0.7
H	3.380	1,090/902	16,615	8.0	28.5	28.5	29.2	0.7
I	3.700	1,130/665	19,165	5.3	30.3	30.3	30.8	0.5
J	3.900	655/335	15,104	6.8	30.5	30.5	31.0	0.5
K	4.290	1,151/245	19,207	5.3	31.1	31.1	31.6	0.5
L	5.010	715/400	17,108	6.0	32.0	32.0	32.6	0.6
M	5.270	547/300	12,906	7.9	32.0	32.0	32.6	0.6
N	5.350	660/452	15,763	6.5	32.6	32.6	33.2	0.6
O	5.420	581/308	14,943	6.8	32.7	32.7	33.3	0.6
P	5.480	511/256	14,815	6.9	32.7	32.7	33.3	0.6
Q	6.540	490/216	13,418	7.6	34.4	34.4	35.4	1.0
R	7.130	520/280	16,808	6.1	35.8	35.8	36.6	0.8
S	7.690	1,550/1,220	24,697	4.1	37.0	37.0	37.8	0.8
T	8.120	674/393	15,681	6.5	37.3	37.3	38.2	0.9
U	8.370	625/416	16,987	6.0	37.8	37.8	38.7	0.9

<sup>1</sup> Miles above mouth

<sup>3</sup> Water-surface elevation computed without consideration of backwater effects from Columbia River

<sup>2</sup> Width/width within Cowlitz County

REVISED DATA

REVISED TO  
REFLECT LOMR  
EFFECTIVE: May 11, 2023

TABLE 15

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COWLITZ COUNTY, WA**  
AND INCORPORATED AREAS

**FLOODWAY DATA**

**LEWIS RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH <sup>2</sup> (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88)	WITHOUT FLOODWAY (FEET NAVD88)	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)	
LEWIS RIVER (Continued)									
	V	8.600	600/426	14,967	6.8	38.0	38.0	39.0	1.0
	W	9.200	1,709/138	27,613	3.7	39.7	39.7	40.5	0.8
	X	9.850	1,420/288	28,526	3.6	40.5	40.5	41.4	0.9
	Y	10.690	3,021/140	33,021	3.1	41.4	41.4	42.3	0.9
	Z	11.340	2,600/96	29,987	3.4	42.2	42.2	43.0	0.8
	AA	11.670	724/35	15,044	6.8	42.7	42.7	43.4	0.7
	AB	12.480	420/175	8,952	11.4	46.1	46.1	46.6	0.5
	AC	12.950	386/192	9,516	10.7	50.1	50.1	50.4	0.3
	AD	13.500	990/246	16,133	6.3	53.7	53.7	54.5	0.8
	AE	14.440	691/104	19,586	5.2	57.3	57.3	58.3	1.0
	AF	15.090	540/131	11,444	8.9	58.4	58.4	59.4	1.0
	AG	15.360	493/0 <sup>3</sup>	11,212	9.1	59.4	59.4	60.4	1.0
	AH	15.670	499/127	10,651	8.8	60.6	60.6	61.6	1.0
	AI	16.080	256/76	7,868	11.9	62.1	62.1	63.0	0.9
	AJ	16.350	313/43	7,659	12.3	63.9	63.9	64.7	0.8
	AK	16.690	438/171	10,160	9.3	66.2	66.2	67.2	1.0
	AL	17.080	330/160	8,979	10.5	67.8	67.8	68.8	1.0

<sup>1</sup> Miles above mouth

<sup>3</sup> Floodway lies outside Cowlitz County limits

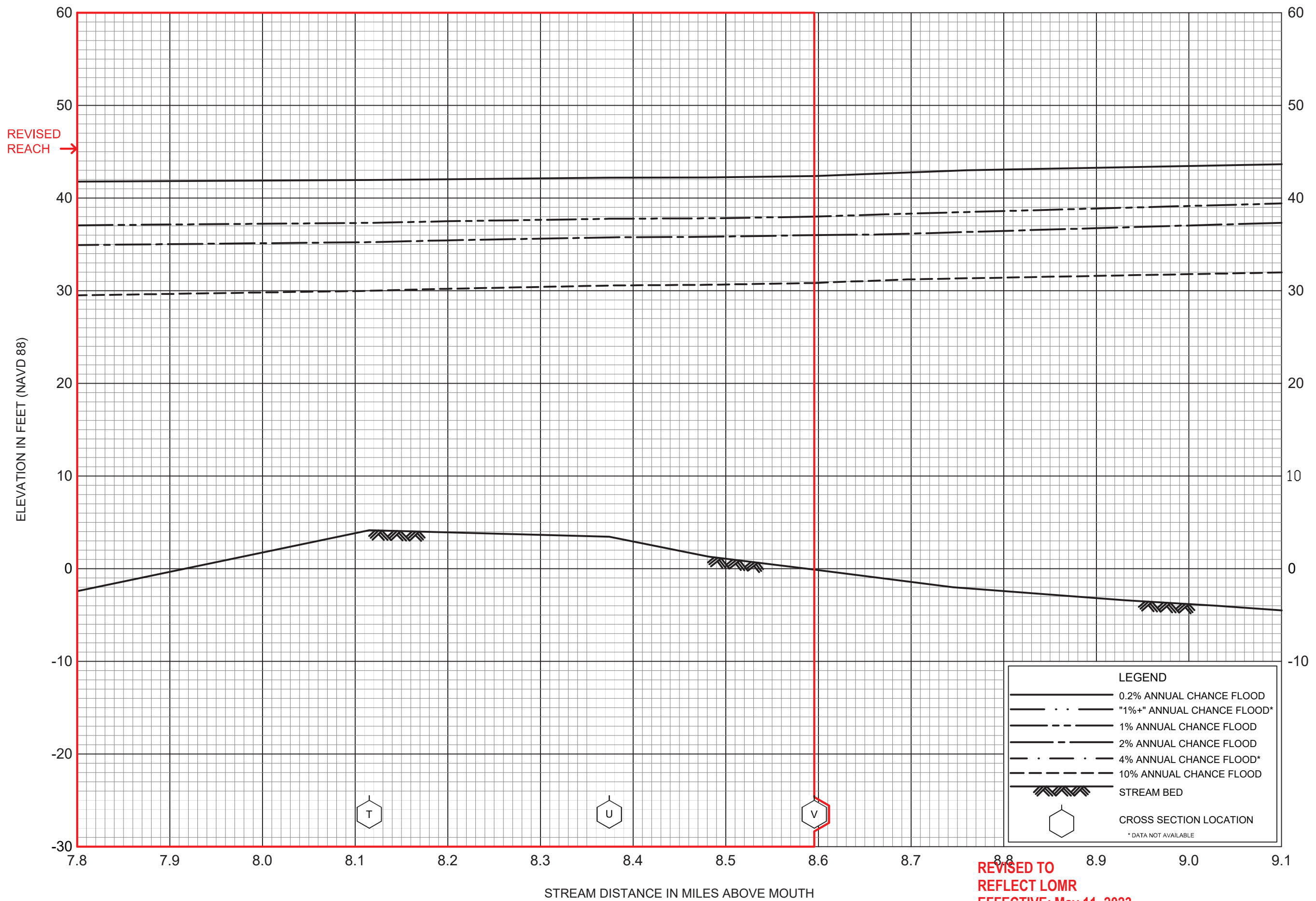
<sup>2</sup> Width/width within Cowlitz County

**REVISED TO  
REFLECT LOMR  
EFFECTIVE: May 11, 2023**

TABLE 15	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	COWLITZ COUNTY, WA AND INCORPORATED AREAS		LEWIS RIVER	





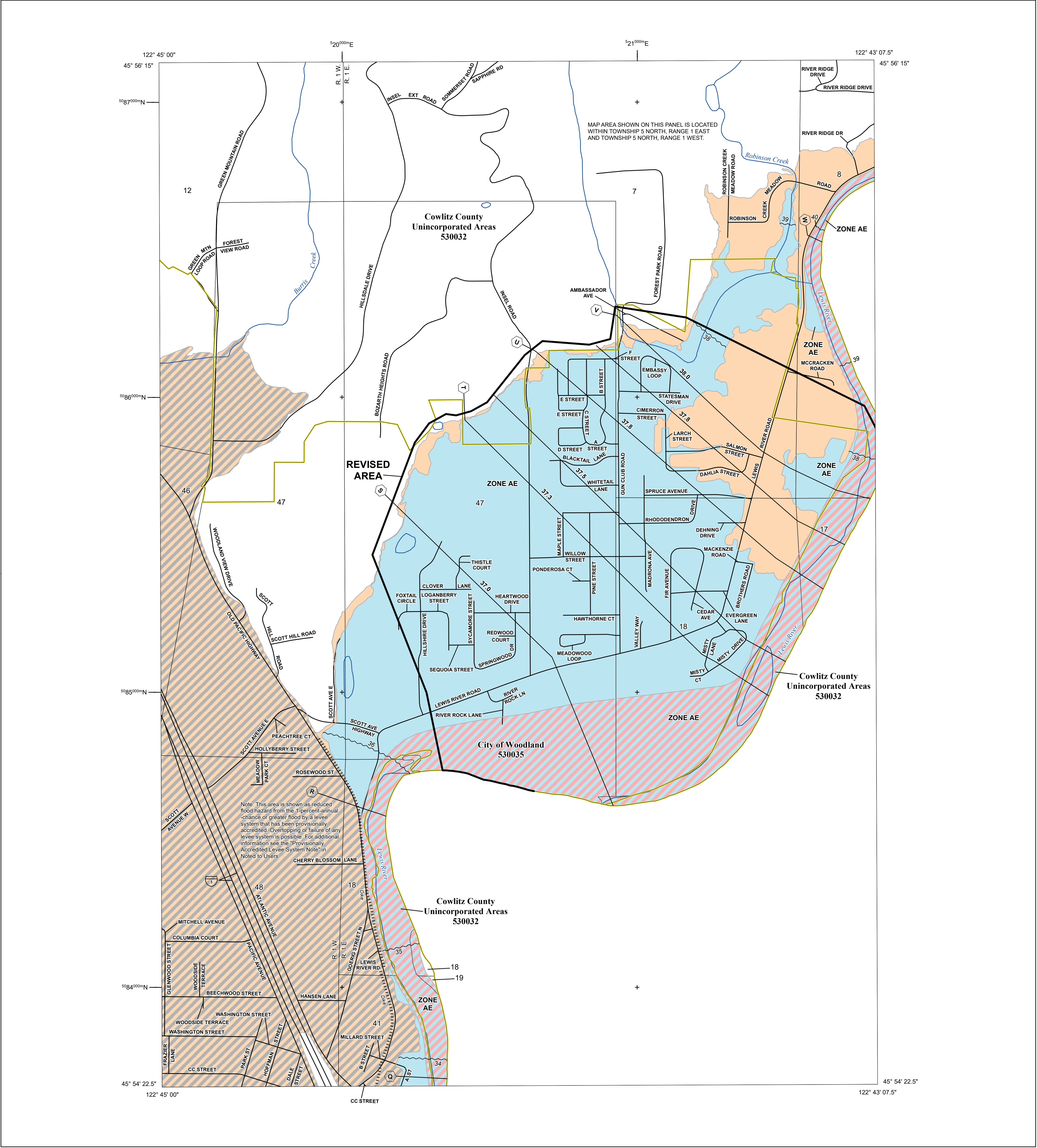


# FLOOD PROFILES

COWLITZ COUNTY, WA  
AND INCORPORATED AREAS

# LEWIS RIVER





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP  
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A,V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		NO SCREEN
GENERAL STRUCTURES		Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
		Area of Undetermined Flood Hazard Zone D
OTHER FEATURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
		Coastal Transect
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

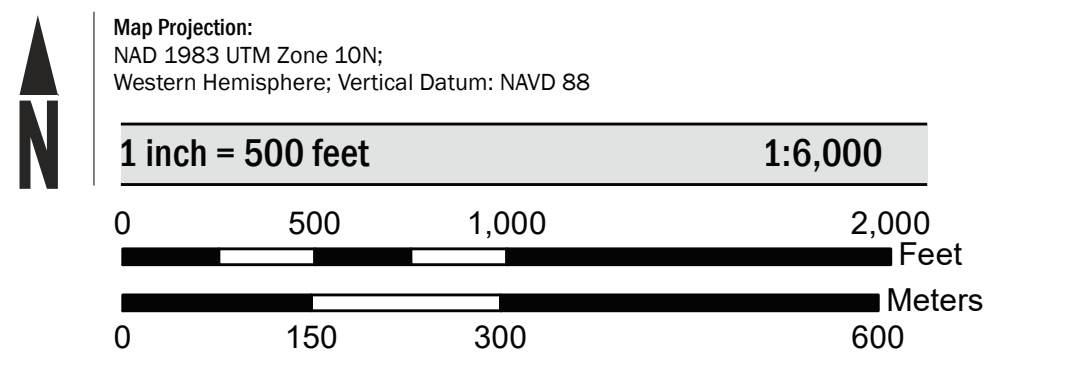
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

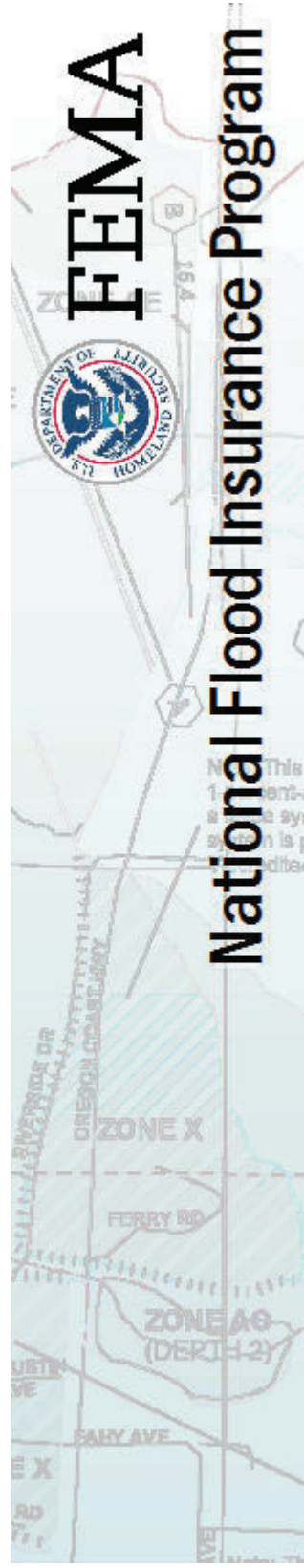
To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Cowlitz County GIS Department, WADNR and NGS. This information was compiled at various map scales during the time period 1992-2006.

SCALE



PANEL LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP

COWLITZ COUNTY, WASHINGTON  
and Incorporated Areas

PANEL 886 of 1020

COMMUNITY	NUMBER	PANEL	SUFFIX
COWLITZ COUNTY	530032	0886	G
WOODLAND, CITY OF	530035	0886	G

REVISED TO  
REFLECT LOMR  
EFFECTIVE: May 11, 2023

VERSION NUMBER  
2.1.3.0  
MAP NUMBER  
53015C0886G  
EFFECTIVE DATE  
DECEMBER 16, 2015