## NOTES TO USERS

is for use in administering the National Flood Insurance Program. It does sarily identify all areas subject to flooding, particularly from local drainage of small size. The community map repository should be consulted for pdated or additional flood hazard information.

more dealed information in reas where Base Froot Elevations (BES), offered entire the second policy of south the Food entire the second policy of south the Food in Foodway Date and/or Summay of Sillwater Elevations tables contained for Foodway Date and/or Summay of Sillwater Elevations tables contained as aware that BES above not the FIRM represent counted whole-food to the FIRM there are aware that BES above not the FIRM represent counted whole-food to the FIRM there are sent to the FIRM there are the FIRM there are the sent of the FIRM represent counted whole-food to the used as the sole source of flood elevation information. Accordingly, action data presented in the FIS Report should be utilized in conjunction with the purposes of construction and/or foodland immanagement.

Base Flood Elevations shown on this map apply only landward of 0.0 erican Vertical Datum of 1988 (NAVD 89). Users of this FIRM should be crossalt flood elevations are also provided in the Summary of Silliwater is table in the Flood Insurance Study Report for this jurisdiction. Elevations the Summary of Silliwater Elevations table should be used for construction colipials management purposes when they are higher than the elevations that FIRM.

es of the **floodways** were computed at cross sections and interpolated cross sections. The floodways were based on hydraulic considerations with requirements of the National Flood Insurance Program. Floodway widths per

eas not in Special Flood Hazard Areas may be protected by **flood control**s. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance port for information on flood control structures for this jurisdiction.

confort information on flood control structures for this jurisdiction.

If yell Accordibility Leven Notes to Users: Check with your local you could not income information, such as the estimated level of protection which may exceed the 1-percent-amusch-amone levely and Emergency an, on the levee system(s) shown as providing protection for sreas on the data and documentation receives you comply with Section 65.10 of regulations by September 19, 2009. If the community or owner does the necessary data and documentation or if the data and does the necessary data and documentation or the data and 65.10 regulations FEMA will revise the food hazard and risk in for this area to infect de-accordibition of the levee system. To foot on this in residual risk areas, property owners and residents are do to consider flood insusance and floodproting or other protective.

action used in the preparation of this map was Universal Transverse (UTM) zone 10. The horizontal datum was NAD 83, GRS 1980 Differences indeum, spheroid, projection or UTM zones used in the n of FIRMs for adjacent jurisdictions may result in slight positional is in map features across jurisdiction boundaries. These differences do not accuracy of this FIRM.

vations on this map are referenced to the North American Vertical Datum of ease flood elevations must be compared to structure and ground elevations of to the same vertical adatum. For information regarding conversion the National Geodetic Vertical Datum of 1929 and the North American Datum of 1938, wist the National Geodetic Survey website at <u>Information of the National Geodetic Survey website</u> at <u>Information of the National Geodetic Survey at the following the <u>National Geodetic Survey at the following the <u>National Geodetic Survey at the following the </u></u></u>

mation Services NGS12 Geodetic Survey #9202 t-West Highway

current elevation, description, and/or location information for bench marks this map, please contact the information Services Branch of the Nations Survey at (301) 713-3242, or visit its website at http://www.ngs.noas.gov.

information shown on this FIRM was derived from multiple sources. Base ma provided in digital format by Cowlitz County GIS Department, WA DNR and information was compiled at various map scales during the time period

le baselines depicted on this map represent the hydraulic modeling baselines the flood profiles in the FIS report. As a result of improved topographic data, the baseline, in some cases, may deviate significantly from the channel or appear outside the SFHA.

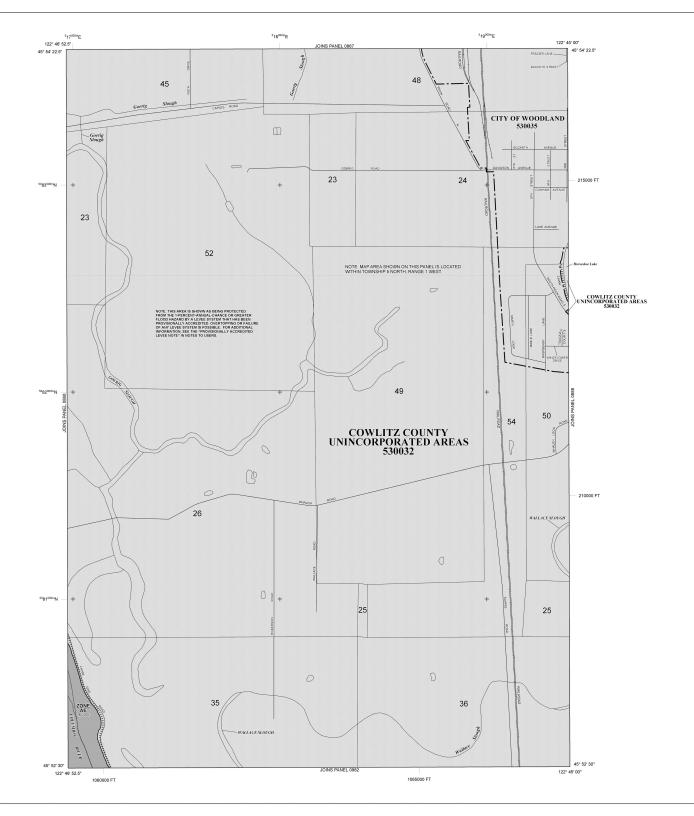
reflects more detailed and up-to-date stream channel configurations e shown on the previous FIRM for this jurisdiction. The floodplains and that were transferred from the previous FIRM may have been adjusted that were transferred from the previous FIRM may have been adjusted to these new stream channel configurations. As a result, the rofiles and Floodway Data tables for multiple streams in the Flood Study Report (which contains authoritative hydraulic data) may reflect annel distances that differ from what is shown on this may.

e limits shown on this map are based on the best data available at the time tion. Because changes due to annexations or de-annexations may have after this map was published, map users should contact appropriate y officials to verify current corporate limit locations.

efer to the separately printed **Map Index** for an overview map of the towing the layout of map panels; community map repository addresses; titing of Communities table containing National Flood Insurance Program each community as well as a listing of the panels on which each community

mation on available products associated with this FIRM visit the Map Center (MSC) website at <a href="http://msc.fems.cov">http://msc.fems.cov</a>, Available products may evolusly issued Letters of Map Change, a Flood Insurance Study Report, plate versions of this map. Many of these products can be ordered or faceful from the MSC website.

ve questions about this map, how to order products, or the National pursance Program in general, please call the FEMA Map Information e (FMIX) at 1-877-FEMA-MAP (1-877-338-2827) or visit the FEMA http://www.fema.gov/business/nfip.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD areas and charce flood (1.0% per flood), also known as the base flood, is the flood since of being equaled or exceeded in any lyeny seit. The Special Flood Hazard subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard Cores, A.A., #A. A.A., #A. 89, V. and Y. The Blase Flood Decisions 14 we areas.

ZONE A No Base Flood Elevations determined

ZONE AE Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Eledetermined. ZONE AH ZONE AO

Special Flood Hazard Areas formerly protected from the 1% annual of flood by a flood control system that was subsequently described. 26 All inclares that the former flood control system is being restored to protection from the 1% annual chance or greater flood.

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations deter-

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood determined. Coastal flood zone with velocity hazard (wave action); Base Flood Ele determined.

//// FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be increachment so that the 1% annual chance flood can be carried without substantial inclined heights.

Areas of 0.2% annual chance flood; areas of 1% annual chance flood wi wereage depths of less than 1 foot or with drainage areas less than 1 squ mile; and areas protected by levees from 1% annual chance flood. ZONE X

Areas determined to be outside the 0.2% annual chance floodolain. ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Are 1% Annual Chance Floodplain Boundary 0.2% Annual Chance Floodplain Boundary

Floodway boundary

.....

Boundary dividing Special Flood Hazard Area Zones and bo dividing Special Flood Hazard Areas of different Base Flood flood depths, or flood velocities. ~~513~~ Base Flood Elevation line and value; elevation in feet\*

(EL 987) Base Flood Elevation value where uniform within zone; ele-

\*Referenced to the North American Vertical Datum of 1988

(A)

23 ----- (23)

45" 02" 08", 93" 02" 12" Geographic coordinates referenced to the North Amer 1983 (NAD 83) Western Hemisphere

5000-foot ticks: Washington State Plane South Zone (FIPS Zone 4602), Lambert Conformal Conic projection 1000-meter Universal Transverse Mercator grid values, zon Bench mark (see explanation in Notes to Users section of t DX5510 ×

\*M15

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP December 16, 2015

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



PANEL 0869G

**FIRM** 

FLOOD INSURANCE RATE M COWLITZ COUNTY, WASHINGTON AND INCORPORATED ARE

PANEL 869 OF 1020

OXOIDHINSHURZANICHE PROCERZANI

CONTAINS:

COMMUNITY COWLITZ COUNT

WOODLAND, CITY OF

Notice to User: The **Map Number** should be used when placing map or **Community Number** shown above sused on insurance applications for the



Federal Emergency Management