



January 8, 2026

Kevin Sneed, CFM  
CTP Project Officer  
1700 MacCorkle Avenue, SE, 6th Floor  
Charleston, WV 25314  
(304) 957-2571  
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**SUBJECT:** Invoice 3 for COMS Tasks B, C, & D; FY24 CTP Community Outreach and Mitigation Strategies (COMS) Grant.

Dear Kevin,

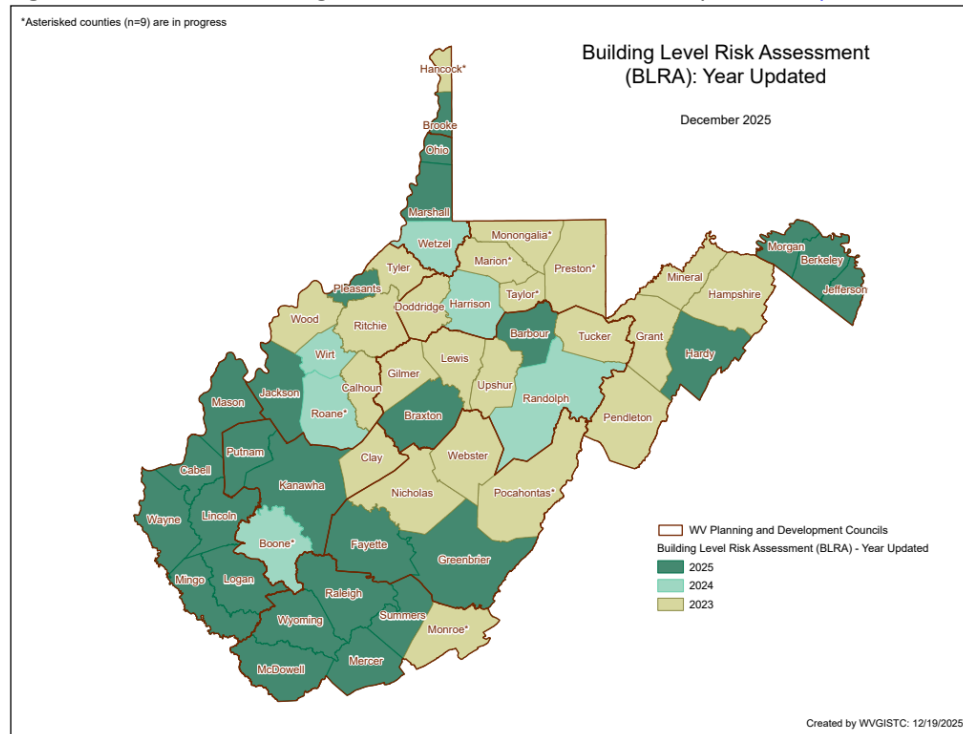
In accordance with the FY24 CTP Service Agreement, this first invoice in the amount of **\$69,000.00** is for **COMS Tasks B, C, & D** in support of the WV Flood Tool Services (Task A) for the WV Flood Tool ([www.mapwv.gov/Flood](http://www.mapwv.gov/Flood)). See the scope of work as outlined the 2024-25 (FY24) CTP Statement of Work Plan dated September 2024, and authorized under a WV-48 service agreement between the WVEMD and WV GIS Technical Center, West Virginia University. Refer to the FY24 COMS [Statement of Work](#) documents for more details about the specific tasks.

Invoice #	Services Rendered	Amount																																																																	
<b>Task B</b>  01082026  Time Period 10/01/2024 to 12/31/2025	<b>[Task B] Update the statewide Building-Level Risk Assessments (BLRA) on the WV Flood Tool's RiskMAP View from new data sources, (e.g., Flood Studies, Tax assessment building characteristics like structure values, and mitigated structures.</b>  Updated the building-level risk assessments for <b>26 counties or 67% (65,435 of 98,072 structures)</b> of all flood-prone structures in high-risk flood zones. All new building-level risk assessments were updated to the <a href="#">Risk MAP View</a> of the WV Flood Tool. Performance period between 4/1/2025 and 12/31/2025.  <b>Table COMS-B.1.</b> Counties in which inventoried floodplain buildings and risk assessments were conducted. <table><tr><th>County</th><th>PDC</th><th>BIE</th><th>BLRA</th><th>Building Count</th></tr><tr><td>Barbour County</td><td>7</td><td>2025</td><td>2025</td><td>784</td></tr><tr><td>Berkeley County</td><td>9</td><td>2025</td><td>2025</td><td>826</td></tr><tr><td>Boone County</td><td>3</td><td>2025</td><td>2024</td><td>3,926</td></tr><tr><td>Braxton County</td><td>7</td><td>2025</td><td>2025</td><td>823</td></tr><tr><td>Brooke County</td><td>11</td><td>2025</td><td>2025</td><td>1,064</td></tr><tr><td>Cabell County</td><td>2</td><td>2025</td><td>2025</td><td>3,551</td></tr><tr><td>Calhoun County</td><td>5</td><td>2023</td><td>2023</td><td>623</td></tr><tr><td>Clay County</td><td>3</td><td>2025</td><td>2023</td><td>1,041</td></tr><tr><td>Doddridge County</td><td>6</td><td>2023</td><td>2023</td><td>769</td></tr><tr><td>Fayette County</td><td>4</td><td>2025</td><td>2025</td><td>1,736</td></tr><tr><td>Gilmer County</td><td>7</td><td>2025</td><td>2023</td><td>518</td></tr><tr><td>Grant County</td><td>8</td><td>2024</td><td>2023</td><td>319</td></tr></table>	County	PDC	BIE	BLRA	Building Count	Barbour County	7	2025	2025	784	Berkeley County	9	2025	2025	826	Boone County	3	2025	2024	3,926	Braxton County	7	2025	2025	823	Brooke County	11	2025	2025	1,064	Cabell County	2	2025	2025	3,551	Calhoun County	5	2023	2023	623	Clay County	3	2025	2023	1,041	Doddridge County	6	2023	2023	769	Fayette County	4	2025	2025	1,736	Gilmer County	7	2025	2023	518	Grant County	8	2024	2023	319	<b>\$24,000</b>
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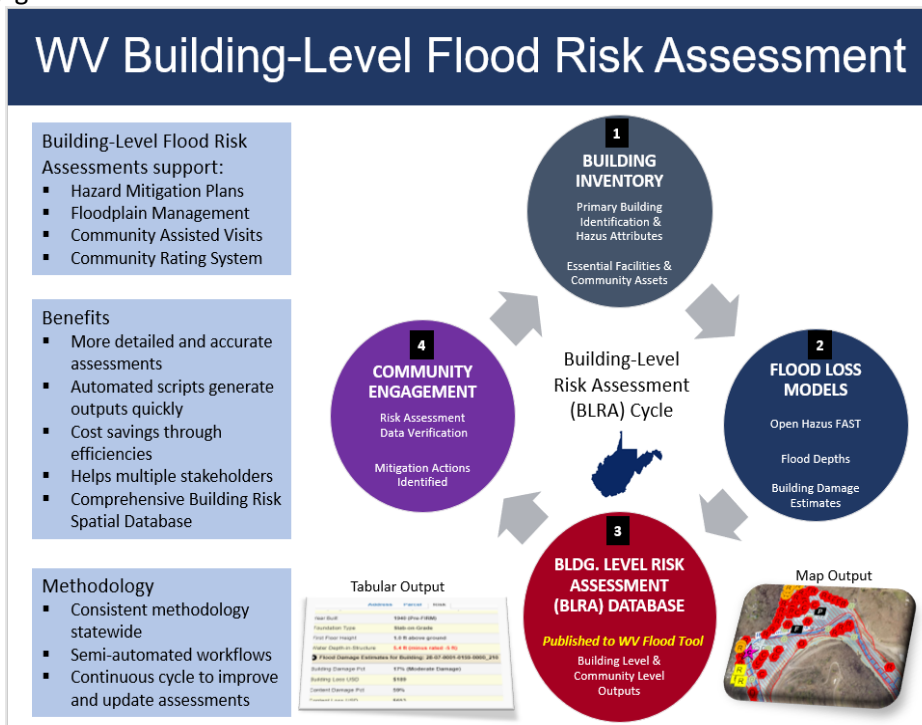
	Greenbrier County	4	2025	2025	1,884	
	Hampshire County	8	2024	2023	1,157	
	Hancock County	11	2025	2023	548	
	Hardy County	8	2025	2025	605	
	Harrison County	6	2024	2024	2,117	
	Jackson County	5	2025	2025	1,038	
	Jefferson County	9	2025	2025	776	
	Kanawha County	3	2025	2025	14,601	
	Lewis County	7	2025	2023	1,073	
	Lincoln County	2	2025	2025	2,594	
	Logan County	2	2025	2025	5,392	
	Marion County	6	2025	2023	1,701	
	Marshall County	10	2025	2025	1,614	
	Mason County	2	2025	2025	1,570	
	McDowell County	1	2025	2025	3,862	
	Mercer County	1	2025	2025	2,571	
	Mineral County	8	2024	2023	1,167	
	Mingo County	2	2025	2025	3,858	
	Monongalia County	6	2025	2023	1,197	
	Monroe County	1	2025	2023	348	
	Morgan County	9	2025	2025	637	
	Nicholas County	4	2025	2023	997	
	Ohio County	10	2025	2025	3,390	
	Pendleton County	8	2024	2023	472	
	Pleasants County	5	2025	2025	448	
	Pocahontas County	4	2025	2023	977	
	Preston County	6	2025	2023	756	
	Putnam County	3	2025	2025	2,670	
	Raleigh County	1	2025	2025	2,448	
	Randolph County	7	2024	2024	1,954	
	Ritchie County	5	2023	2023	522	
	Roane County	5	2025	2024	1,076	
	Summers County	1	2025	2025	831	
	Taylor County	6	2025	2023	427	
	Tucker County	7	2024	2023	625	
	Tyler County	5	2024	2023	839	
	Upshur County	7	2025	2023	1,432	
	Wayne County	2	2025	2025	2,905	
	Webster County	4	2025	2023	1,122	
	Wetzel County	10	2024	2024	2,129	
	Wirt County	5	2023	2024	522	
	Wood County	5	2025	2023	2,283	
	Wyoming County	1	2025	2025	2,957	
		42		26	98,072	
	<ul style="list-style-type: none"> <li>First step of BLRA Cycle: Building Inventory Enhanced (BIE) completed (blue shade) for 42 counties.</li> <li>Second and third steps of BLRA Cycle: Building-Level Risk Assessments completed for 65,435 floodplain structures, or 67% of inventory, completed (yellow shade) for 26 counties. See BLRA Cycle diagram below.</li> <li>Status graphics of <a href="#">Building Inventory Year Updates</a> &amp; <a href="#">Model-Backed 1% Depth Status</a></li> </ul>					

- Online Building Level Tables updated for Primary Structures & Significant Facilities as part of WV Risk Explorer's [Building-Level Tools](#).

**Figure COMS-B.2.** Building-Level Flood Risk Assessment Update [Graphic](#)

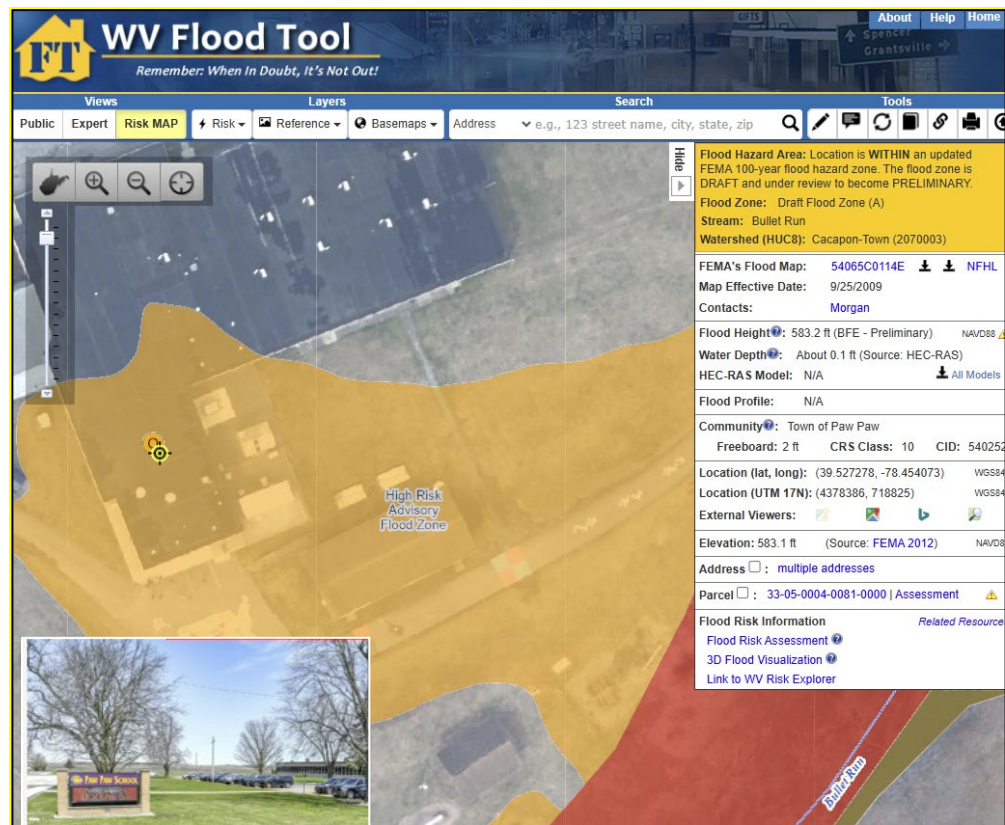


**Figure COMS-B.3.** Building-Level Flood Risk Assessment [Cycle](#) (BLRA). Major processing steps: (1) Building Inventory, (2) Flood Loss Models, (3) Building-Level Risk Assessment outputs published to WV Flood Tool, and (4) Community Engagement.



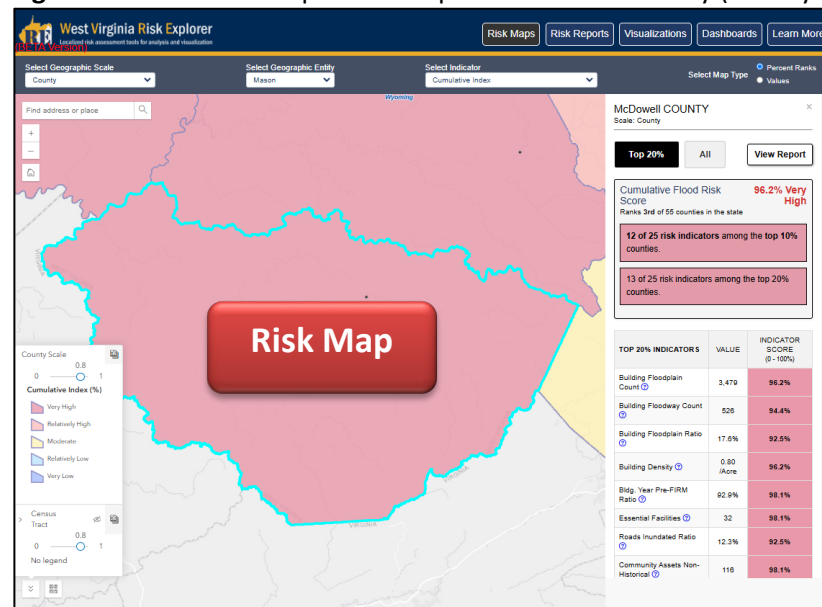
- BUILDING LEVEL RISK METHODOLOGY. View the [WV Flood Risk Assessment Methodology Report](#) in support of hazard mitigation plans.
- BUILDING LEVEL RISK CYCLE. Refer to the [Methodology Section](#) of the WV Risk Explorer's Learn More Resources page for detailed documentation about how the building level risk assessment cycle (BLRA) which continuously creates the building-level risk assessments. [BLRA Cycle Report](#) | [BLRA Cycle Diagram](#) | [Building Inventory Workflow Diagram](#)

**Figure COMS-B.4.** Example RiskMAP View of WV Flood Tool showing essential facility Paw Paw Elementary School (Building ID **33-05-0004-0081-0000\_60**) inventoried in the DRAFT 1%-annual-chance floodplain Zone A of Morgan County for a riverine 1%-annual-chance flood event. View [map link](#) on WV Flood Tool or [essential facility](#) on BL Significant Facilities tool.

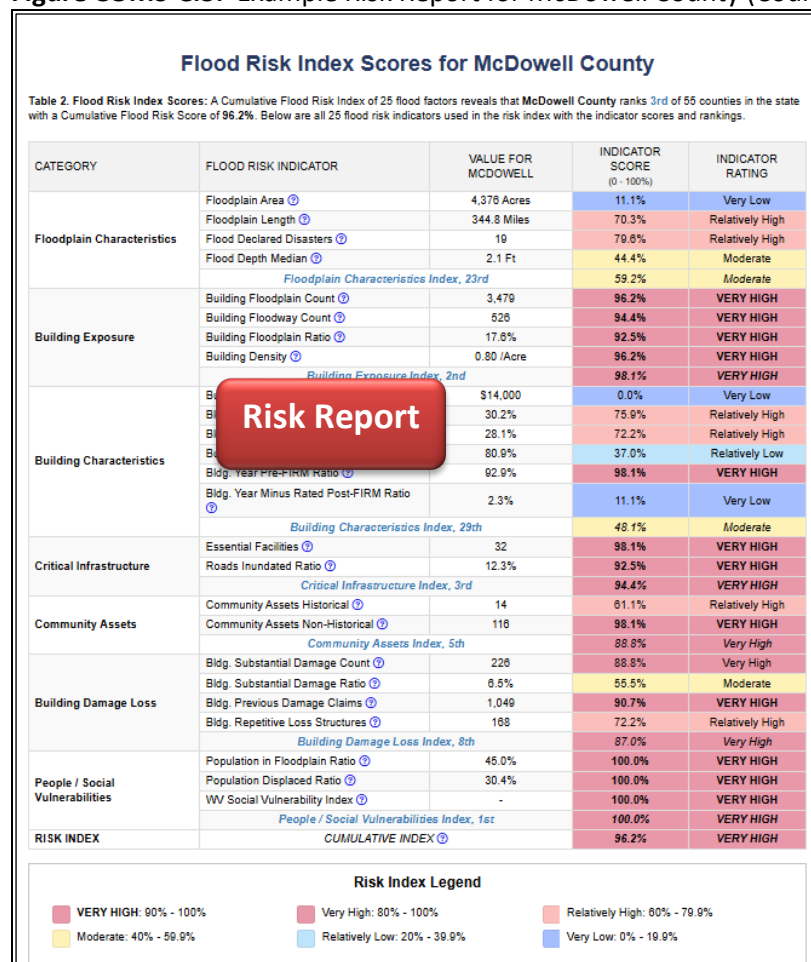


Task C	<p><b>[TASK C] Develop, Verify, and Publish Flood Risk Profiles at State, Regional, Community, and Watershed/Stream Levels.</b></p> <p>For exploring riverine flood risk, updated online interactive riverine <b>Risk Maps</b> and <b>Risk Reports</b> for eight aggregate or geographic scale levels:</p> <p><b>Table COMS-C.1.</b> Risk Map and Report Links at 8 geographic scales</p> <table><tr><th>RISK MAPS</th><th>RISK REPORTS</th></tr><tr><td><ul style="list-style-type: none"><li>• <a href="#">Statewide</a></li><li>• <a href="#">11 Regional Councils</a></li><li>• <a href="#">55 Counties</a></li><li>• <a href="#">284 Communities</a></li><li>• <a href="#">55 Unincorporated Areas</a></li><li>• <a href="#">229 Incorporated Places</a></li></ul> <ul style="list-style-type: none"><li>• <a href="#">33 Watersheds</a></li><li>• <a href="#">156 Named Streams (Top 2%)</a></li></ul></td><td><ul style="list-style-type: none"><li>• <a href="#">Statewide</a></li><li>• <a href="#">11 Regional Councils</a></li><li>• <a href="#">55 Counties</a></li><li>• <a href="#">284 Communities</a></li><li>• <a href="#">55 Unincorporated Areas</a></li><li>• <a href="#">229 Incorporated Places</a></li></ul> <ul style="list-style-type: none"><li>• <a href="#">33 Watersheds</a></li><li>• <a href="#">156 Named Streams (Top 2%)</a></li></ul></td></tr></table> <p>Depending on the scales of analysis, users can explore property flood risk data for the following purposes:</p> <ul style="list-style-type: none"><li>• Validating floodplain management practices at the <b>incorporated/unincorporated</b> or <b>community</b> scales</li><li>• Exploring risk assessments and mitigation actions at the <b>community</b> level</li><li>• Hazard mitigation planning at the <b>county</b> or <b>regional</b> scales</li><li>• Resiliency planning at the <b>statewide</b> scale</li><li>• Collecting information for FEMA’s Risk MAP discovery at the <b>watershed</b> scale</li><li>• Researching loss of property and life at the <b>river/stream</b> scale</li></ul> <p>Because certain risk indicators of the <b>Communities</b> scale follow a bimodal distribution, the 284 Communities are subdivided into 55 Unincorporated Areas and 229 Incorporated Places for more detailed analysis of scales. Of the 284 unincorporated/incorporated communities in West Virginia, 266 or 94% of these communities have mapped Special Flood Hazard Areas (SFHA) or high-risk floodplains.</p> <ul style="list-style-type: none"><li>• <a href="#">Learn more</a> about Risk Assessments: statewide assessments, local assessments, top rankings, and comparative rankings</li></ul>	RISK MAPS	RISK REPORTS	<ul style="list-style-type: none"><li>• <a href="#">Statewide</a></li><li>• <a href="#">11 Regional Councils</a></li><li>• <a href="#">55 Counties</a></li><li>• <a href="#">284 Communities</a></li><li>• <a href="#">55 Unincorporated Areas</a></li><li>• <a href="#">229 Incorporated Places</a></li></ul> <ul style="list-style-type: none"><li>• <a href="#">33 Watersheds</a></li><li>• <a href="#">156 Named Streams (Top 2%)</a></li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Statewide</a></li><li>• <a href="#">11 Regional Councils</a></li><li>• <a href="#">55 Counties</a></li><li>• <a href="#">284 Communities</a></li><li>• <a href="#">55 Unincorporated Areas</a></li><li>• <a href="#">229 Incorporated Places</a></li></ul> <ul style="list-style-type: none"><li>• <a href="#">33 Watersheds</a></li><li>• <a href="#">156 Named Streams (Top 2%)</a></li></ul>	\$28,000
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**Figure COMS-C.2. Example Risk Map for McDowell County (County Scale)**

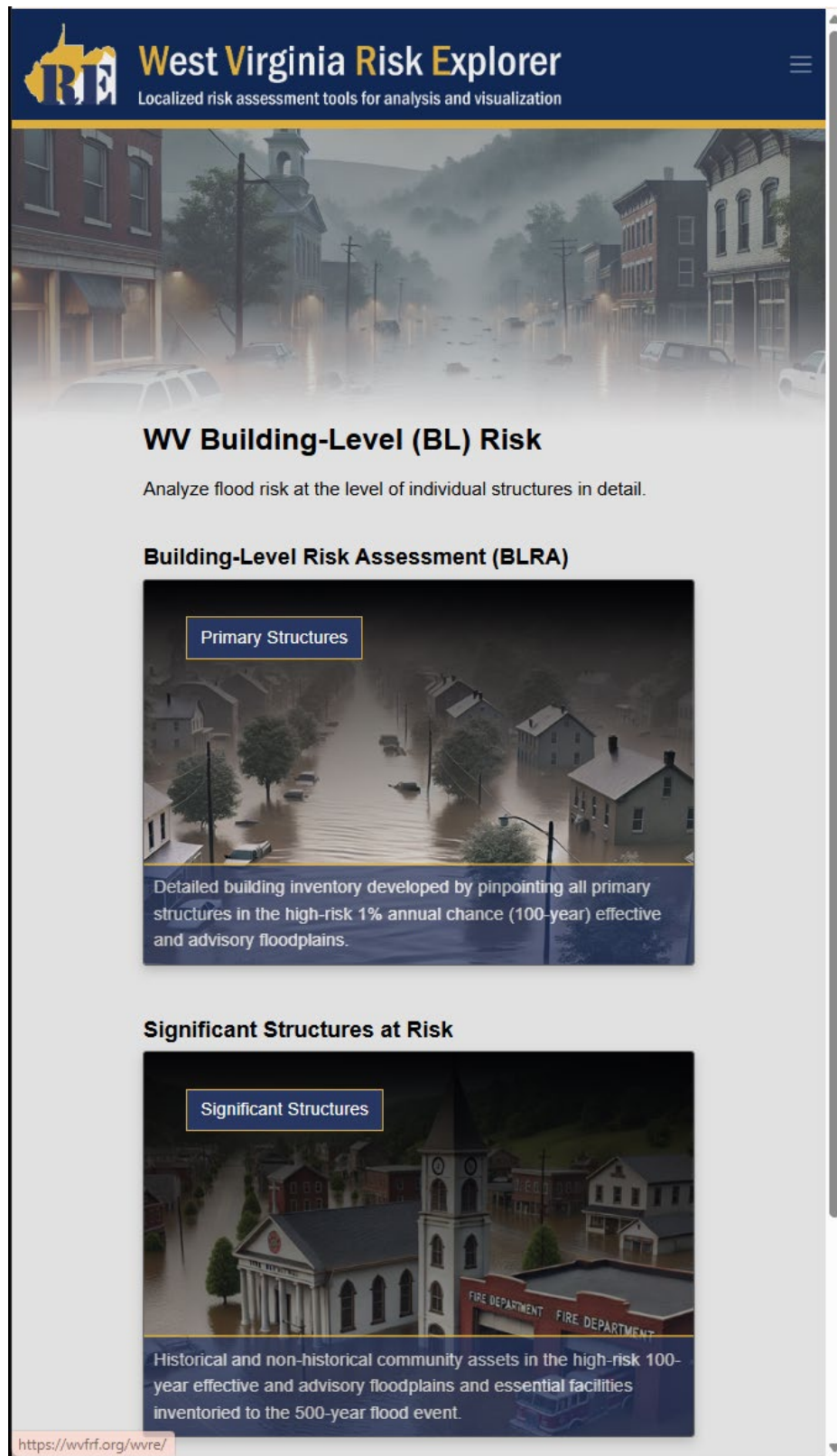


**Figure COMS-C.3. Example Risk Report for McDowell County (County Scale)**





**Figure COMS-C.4.** New [Building-Level \(BL\) Scale Risk Tools](#) created for Primary Structures & Significant Facilities.



<p><b>Task D</b></p>	<p><b>[TASK D] Develop, Verify, and Publish Flood Risk Profiles at State, Regional, Community, and Watershed/Stream Levels.</b></p> <p>Created and published 39 WV Flood Visualizations on the <a href="#">WV Flood Hazard Library</a>:</p> <ul style="list-style-type: none"> <li>• <a href="#">3D Movies</a> (n=8)</li> <li>• <a href="#">Viewsheds</a> (n=11)</li> <li>• <a href="#">Buildings Profiles</a> (n=15)</li> <li>• <a href="#">Story Maps</a> (n=5)</li> </ul> <p><b>Figure COMS-D.1. <a href="#">WV Flood Visualizations</a>:</b> 3D movies, Viewsheds, Building Profiles, &amp; Story Maps</p> 	<p><b>\$17,000</b></p>
	<p><b>Total invoice amount:</b></p>	<p><b>\$69,000</b></p>



Please use the following information for paying electronically:

Payment Transfer Information:

OASIS: 4187 111 1463 1463 6909 H514

WVU Acct: 11. 110530213. 11303179. 4108501. 999. 99999999

If you have any questions, or need clarifications, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script that reads "Kurt Donaldson".

Kurt Donaldson  
Project Manager  
WV GIS Technical Center, WVU  
e-mail: [kdonalds@wvu.edu](mailto:kdonalds@wvu.edu)

CC: WVU Revenue Services - [WVUDeposits@mail.wvu.edu](mailto:WVUDeposits@mail.wvu.edu)