Page 1 of 4 Issue Date: December 22, 2017 Effective Date: May 4, 2018 Case No.: 17-04-6263P LOMR-APP



### Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

	COMMUNITY AND REVISION INFORMATION	PROJECT DESCRIPTION	BASIS OF REQUEST		
COMMUNITY	Town of Huntersville Mecklenburg County North Carolina	STREAM RESTORATION	FLOODWAY HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA		
	COMMUNITY NO.: 370478				
IDENTIFIER	Torrence Creek Stream Restoration	APPROXIMATE LATITUDE AND LONGITUDE: 35.401, -80.862 SOURCE: Precision Mapping Streets DATUM: NAD 83			
	ANNOTATED MAPPING ENCLOSURE	ANNOTATED STUDY ENCLOSURES			
TYPE: FIRM*	NO.: 3710464000K DATE: September 2, 2015	DATE OF EFFECTIVE FLOOD INSURA PROFILE: 262P FLOODWAY DATA TABLE: 22	NCE STUDY: September 2, 2015		

Enclosures reflect changes to flooding sources affected by this revision.

#### FLOODING SOURCE AND REVISED REACH

Torrence Creek - from approximately 50 feet downstream of McCoy Road to approximately 100 feet upstream of Reese Boulevard

SUMMARY OF REVISIONS							
Effective Flooding	Revised Flooding	Increases	Decreases				
Zone AE	Zone AE	YES	YES				
BFEs*	BFEs	YES	YES				
Floodway	Floodway	YES	YES				
Zone X(shaded)	Zone X (unshaded)	NONE	YES				
	Effective Flooding Zone AE BFEs* Floodway	Effective Flooding  Zone AE  BFEs*  Floodway  Revised Flooding  Zone AE  BFEs  Floodway	Effective Flooding Revised Flooding Increases  Zone AE Zone AE YES  BFEs* BFEs YES  Floodway Floodway YES				

#### **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 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 Map Information 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/national-flood-insurance-program.

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

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<sup>\*</sup> FIRM - Flood Insurance Rate Map



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# LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

Effective Date: May 4, 2018

#### **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.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

#### **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.

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 Map Information 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/national-flood-insurance-program.

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## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

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.

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:

Mr. Jesse Munoz
Director, Mitigation Division
Federal Emergency Management Agency, Region IV
Koger Center - Rutgers Building, 3003 Chamblee Tucker Road
Atlanta, GA 30341
(770)-220-5406

#### STATUS OF THE COMMUNITY NFIP MAPS

We are currently processing a Physical Map Revision (PMR) that will revise the FIRM and FIS report for a portion of Mecklenburg County, not including the area impacted by this LOMR. We will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the revised FIRM and FIS report, which have been updated by the PMR, were submitted to your community for review on August 30, 2016. We will incorporate the modifications made by this LOMR into the new FIS report before they become effective.

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 Map Information 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/national-flood-insurance-program.

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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 <a href="https://www.floodmaps.fema.gov/fhm/bfe\_status/bfe\_main.asp">https://www.floodmaps.fema.gov/fhm/bfe\_status/bfe\_main.asp</a>

LOCAL NEWSPAPER Name: Huntersville Herald Weekly

Dates: December 28, 2017 and January 4, 2018

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 Map Information 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/national-flood-insurance-program.

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Torrence Creek				02002				i
007	749	710	4,180	1.5	675.0	671.3 <sup>2</sup>	671.8	0.5
013	1,290	571	3,358	1.9	675.0	671.9 <sup>2</sup>	672.4	0.5
022	2,246	496	2,820	2.2	675.0	673.5 <sup>2</sup>	674.0	0.5
030	3,034	573	2,776	2.3	675.0	674.8 <sup>2</sup>	675.3	0.5
039	3,876	546	3,802	1.3	678.3	678.3	678.6	0.4
048	4,762	724	3,144	1.6	679.2	679.2	679.6	0.4
054	5,405	337	1,479	2.5	680.9	680.9	681.4	0.5
063	6,256	190	979	3.8	684.5	684.5	685.0	0.5
068	6,782	176	1,124	3.3	686.8	686.8	687.3	0.5
075	7,465	121	1,013	3.7	689.1	689.1	689.6	0.5
080	7,991	325	2,616	1.3	691.1	691.1	691.5	0.4
085	8,492	260	1,964	1.7	691.2	691.2	691.6	0.4
093	9,373	298	1,097	3.0	692.0	692.0	692.4	0.4
102	10,288	75	653	5.0	696.6	696.6	697.0	0.4
110	11,086	57	349	8.5	698.1	698.1	698.4	0.3
118	11,845	233	946	3.2	702.7	702.7	703.1	0.4
126	12,632	119	629	2.9	706.7	706.7	706.8	0.1
134	13,415	205	671	2.1	708.1	708.1	708.5	0.5
139	13,864	172	367	3.8	710.2	710.2	710.7	0.4
143	14,326	187	510	2.7	713.2	713.2	713.6	0.5
147	14,660	26	156	8.9	715.2	715.2	715.6	0.5
152	15,205	60	683	2,0	725,6	725.6	725,6	0.0

<sup>&</sup>lt;sup>1</sup> Feet above confluence with McDowell Creek

**REVISED DATA** 

TABLE 22

FEDERAL EMERGENCY MANAGEMENT AGENCY

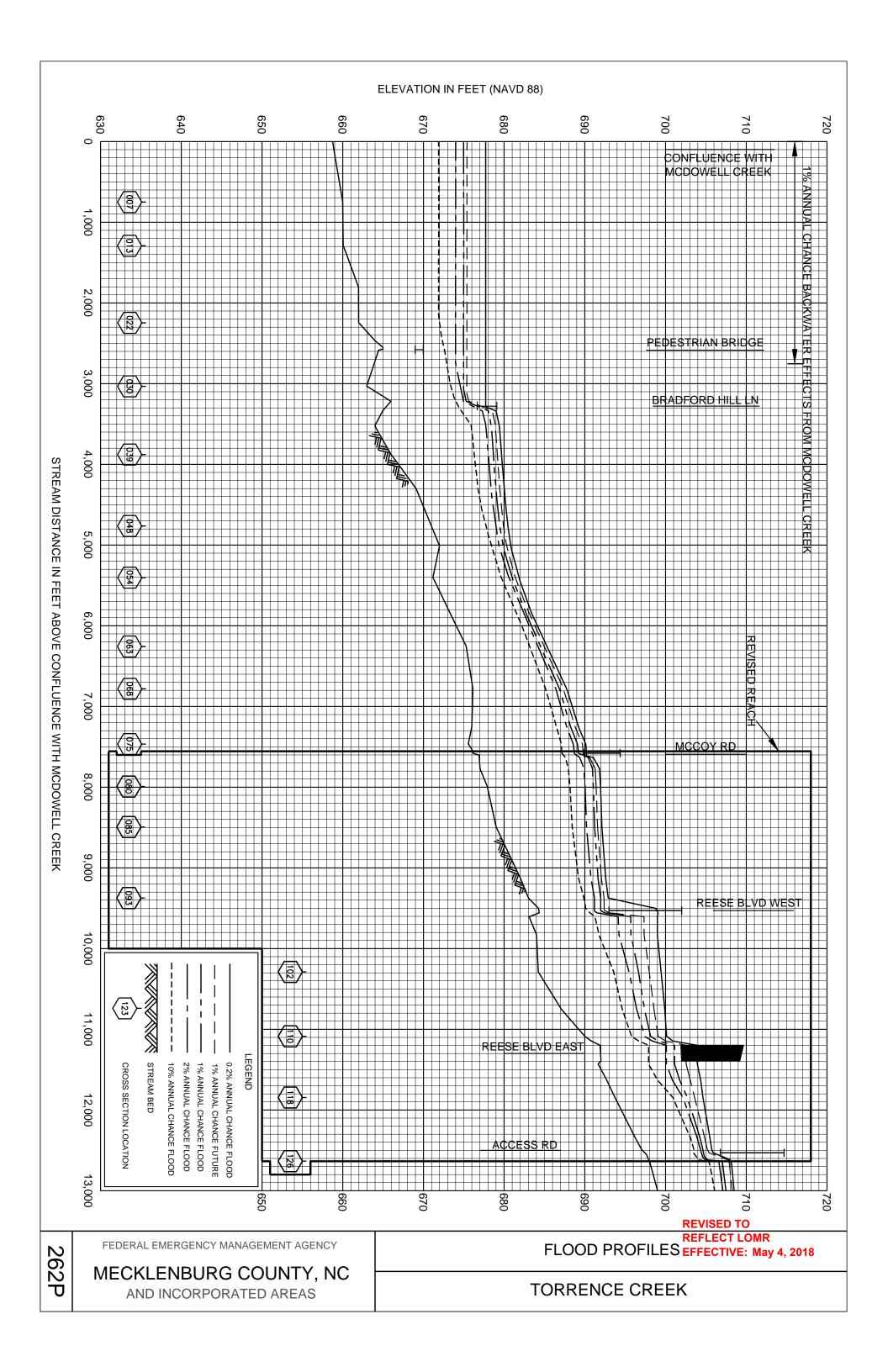
MECKLENBURG COUNTY, NC **AND INCORPORATED AREAS** 

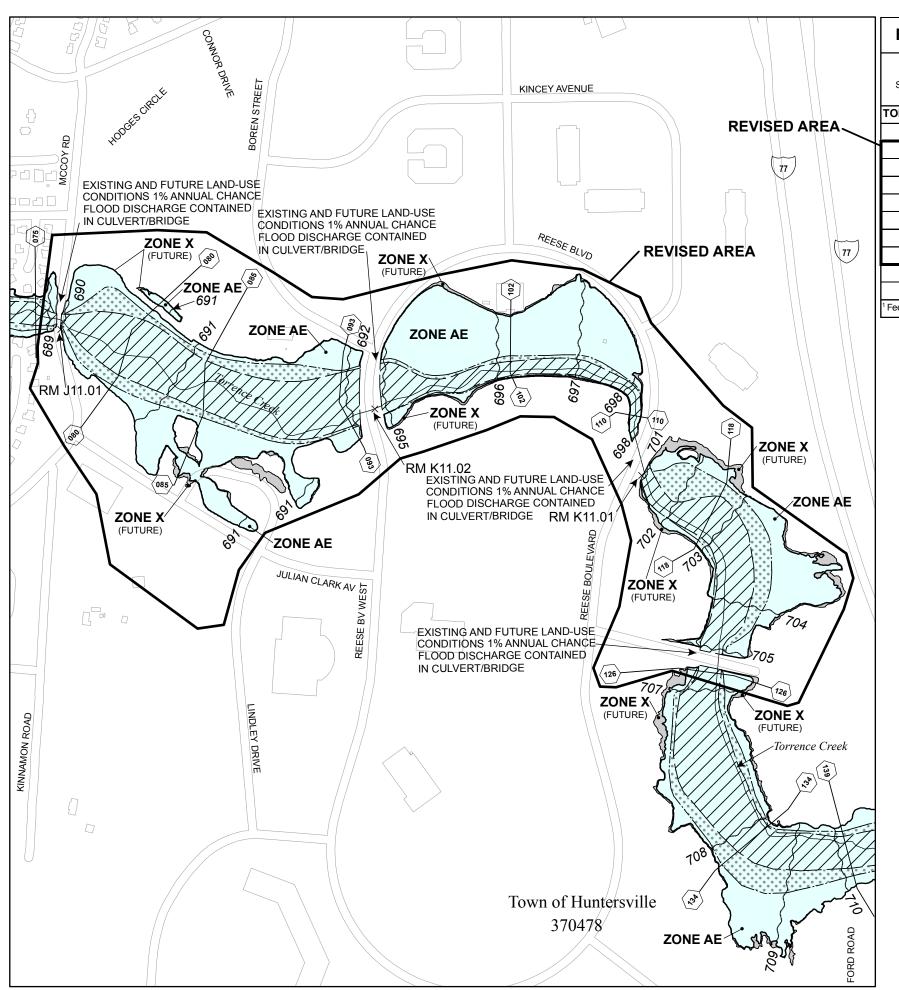
### **FLOODWAY DATA**

**REVISED TO** REFLECT LOMR

TORRENCE CREEK EFFECTIVE: May 4, 2018

<sup>&</sup>lt;sup>2</sup> Elevation computed without consideration of backwater effects





FLOOD HAZARD DATA TABLE		1% Annual Chance (100-year) Water-Surface ⊟evation (feet NAVD88)		Floodw ay	Line			
_	-	Flood Discharge (cfs)				Distance in Feet From Center of Stream to		
Cross Section		Stream Station  Existing Land Use Conditions  Existing Land Use Conditions  Existing Land Use Conditions  Conditions  Future Land Use Conditions	Future Land	Existing Land Use	Future Land Use	Encroachment Boundary (Looking Downstream)		
Occuon			Left / Right	Left / Right				
TORRENCE	CREEK							
075	7465 <sup>1</sup>	3,761	4,350	689.1	690.0	68 / 53	88 / 73	
080	7991 <sup>1</sup>	3,260	3,785	691.1	691.4	113 / 212	173 / 251	
085	8492 <sup>1</sup>	3,260	3,785	691.2	691.6	143 / 118	181 / 154	
093	9329 <sup>1</sup>	3,260	3,785	692.0	692.4	46 / 252	56 / 263	
102	10215 <sup>1</sup>	3,260	3,785	696.6	698.0	34 / 41	42 / 71	
110	11009 <sup>1</sup>	2,976	3,552	698.1	699.1	30 / 27	31 / 28	
118	11766 <sup>1</sup>	2,976	3,552	702.7	703.6	32 / 201	53 / 273	
126	12632 <sup>1</sup>	1,807	2,166	706.7	707.6	99 / 21	111 / 32	
134	13,415 <sup>1</sup>	1,391	1,513	708.1	709.0	190 / 14	298 / 18	
139	13,864 <sup>1</sup>	1,391	1,513	710.2	710.0	139 / 32	180 / 59	

