

To: John Grace, Coastal Engineer, FEMA Region I
From: Fay Rubin, CTP Project Director
Date: March 1, 2018
Re: EMB-2016-CA-001 - Summary of Project Work Map Discussion

This memo summarizes the technical mapping issues we discussed during our 2/23/2018 teleconference. It also presents a revised timeline for the upcoming work map meetings, as per your request.

A. Mapping Issues

1. Mapping Gaps: During the post-modeling data review, the UNH/AECOM team identified a number of flooding sources with no mapped SFHA. (These coincide with areas with no mapped SFHA in the effective data.) While two of these are of significant size (Figure 1), the remainder are relatively small in size (Figure 2).



Figure 1 – Significant area of unmapped flooding source (outlined in yellow); also missing in current effective data (displayed in blue). Town of Nottingham, Rockingham County.

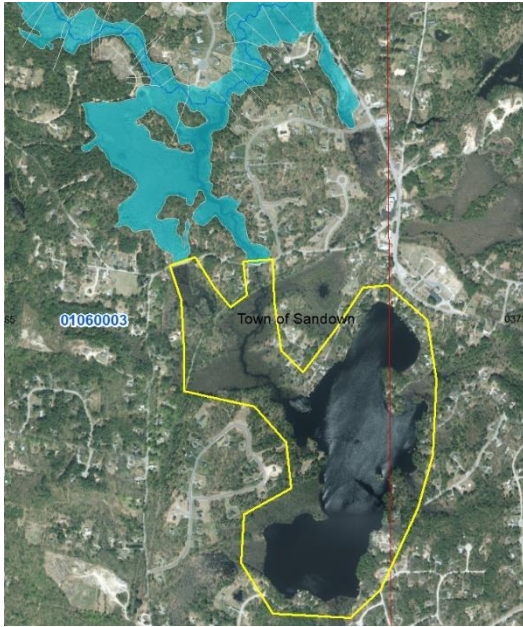


Figure 2 – Unmapped tributary flooding source (outlined in yellow) outside of original, primary hydrologic network. Town of Sandown, Rockingham County.

Resolution: Generate model-based SFHA's where it is scientifically and technically defensible to do so, e.g. where the flooding source is hydrologically connected and the drainage area is > 1 sq. mi.

2. Zone A's Carried over from Effective Data: In cases where Zone A's were mapped in the effective data for flooding sources that are hydrologically disconnected (e.g. isolated ponds), those SFHA's were carried over from the effective data into the new data set. However, a number of them appear questionable when overlaid on the project imagery (Figure 3).



Figure 3 – Zone A floodplain data (outlined in yellow) carried over from effective data. Town of Lee, Stafford County.

Resolution: If there is a visible flooding source in the imagery and the drainage area is >1 sq. mi., redelineate the SFHA by following the LIDAR-derived contour (or the shoreline if no contour data is available). If the flooding source is not visible or the drainage area is < 1 sq. mi., remove the SFHA.

3. Shaded Zone X's Carried over from Effective Data: The effective data included Shaded Zone X features. These were temporarily carried over into the new data set (Figure 4),

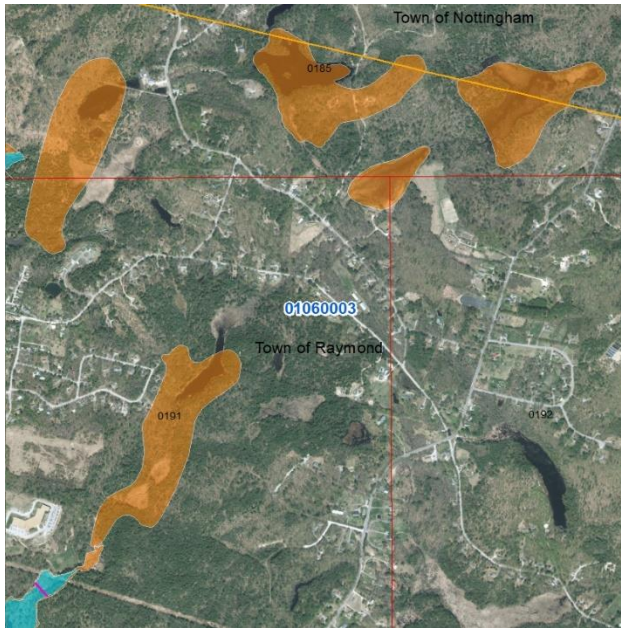


Figure 4 – Shaded Zone X floodplain data (displayed in orange) carried over from Effective data. Town of Raymond, Rockingham County.

Resolution: Remove Shaded Zone X's since they are not supported by any modeling.

B. Revised Work Map Timeline

Based on the decisions above, the revised timeline for hosting work map meetings is as follows:

| Date | Activity Completion |
|--------------|--|
| 3/2/2018 | Completion of revised preliminary data |
| 3/12/2018 | Production and printing of work maps |
| 3/13/2018 | Work map review meeting |
| 3/27/2018 | Completion of Region's review of work maps |
| 3/30/2018 | Establish new work map meeting date |
| 4/18/2018 | Incorporate post-review data revisions |
| Week of 4/30 | Host work map meetings |