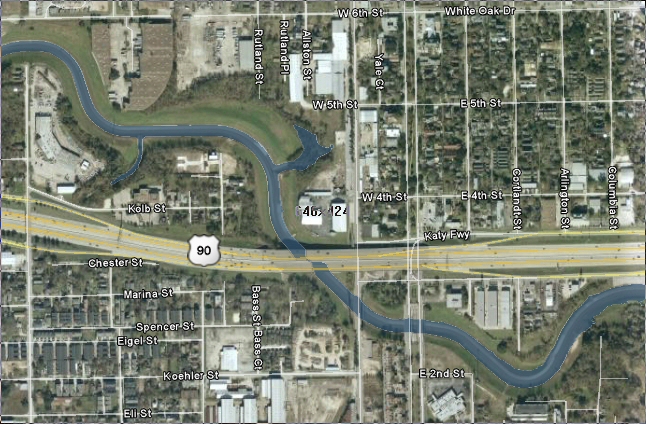
HGTT2 – NOAA Comments (10 March 2009)

Projection: is in NAD\_1983\_StatePlane\_Texas\_South\_Central\_FIPS\_4204\_Feet and we need the project to be in NAD 1983 Geographic……Shapefiles/raster reprojected in GCS\_NA\_1983.

Metadata: the metadata records are not complete. Need complete records for elev. 21-36. Metadata added

Inundation polygons:

Reference for Image 1



CSC: Discussed this issue with BP. Looks good now.

AECOM Response: Constriction is result of how the stream channel under the bridge is represented in the TIN & DEMS (artificially narrow) The polygons at this structure were smoothed to eliminate pinch in terrain and show connected flow.

CSC Comment: Layers 21–29: We probably need to ask the field staff what the obstruction is here.

Image 1

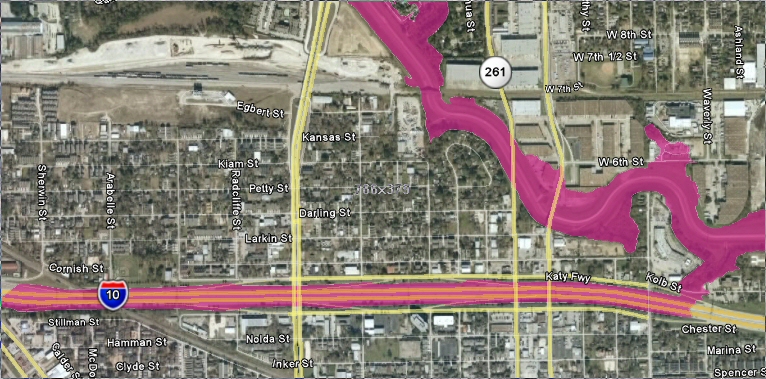


Image 2

AECOM Response: After review of terrain, we determined overtopping of I10 not occurring until the highest .layer; as a result, flooding on I-10 has been eliminated on all profiles except the highest when major flooding is occurring.

CSC Comment: Layers 39-44: We may want to verify with the field that I-10 is inundated to this extent at the higher inundation levels.

CSC Comment: Looks good.

Depth Grids

Layer 21

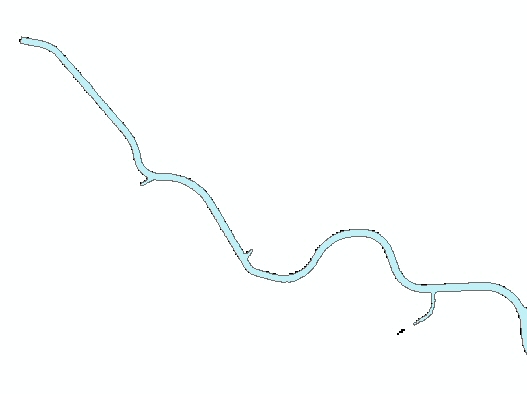
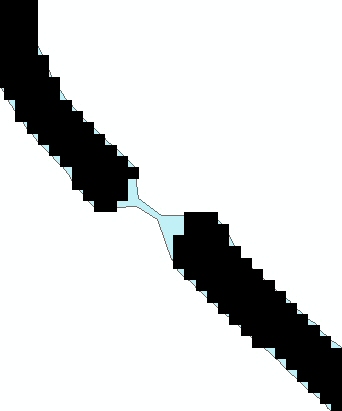


Image 3

CSC Comment: There’s a piece of the depth grid that is not attached to the river system or represented by the inundation polygon.

AECOM Response: Depth grid corrected at this location

CSC: Looks good

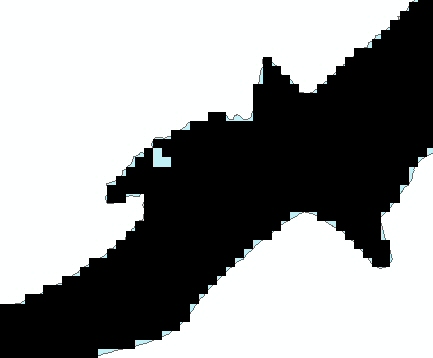
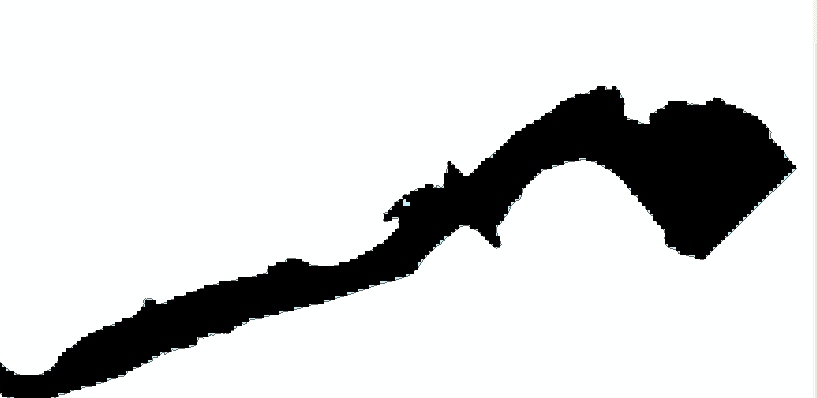


CSC: OK

AECOM Response: Raster cannot be modified in this case.

CSC Comment: Layers 21-26 - Again, this is something we should verify with the field, but I also wanted to point out that the depth grid is discontinuous at this location while the polygon shows there is inundation

Image 4



CSC: OK

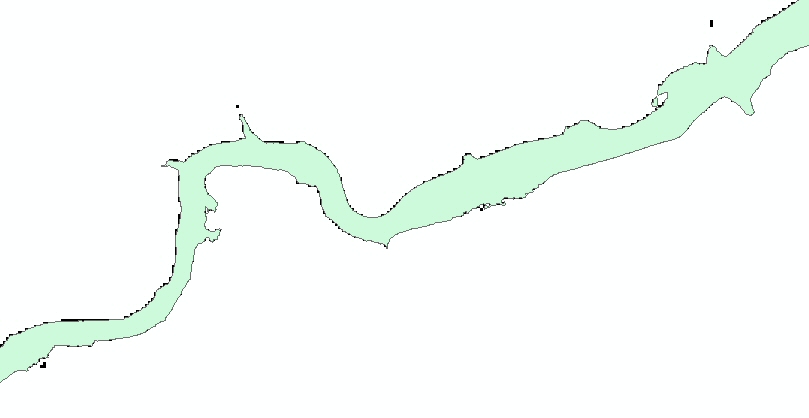
AECOM Response: Raster cannot be modified. The hole is due to a small island that was eliminated from the boundary polygon due to size.

CSC Comment: Layer 21 - There is a hole in the depth grid.

Image 5

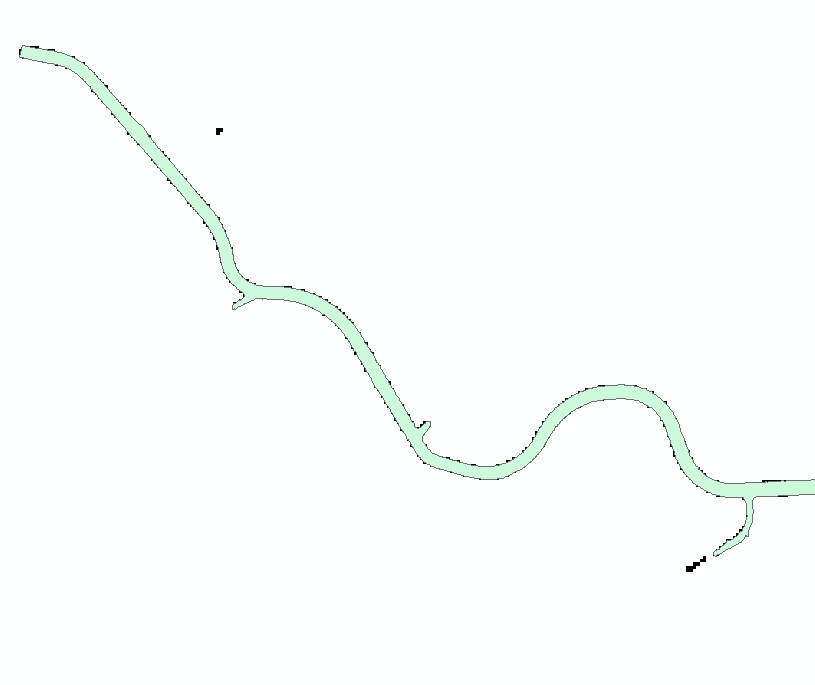
Reference for Image 5

Layer 22



Images 6

CSC Comment: Layer 22 (Images 6 & 7) - There are several areas where there are unattached pieces of the depth grid. The polygon does not reflect this.



CSC Comment: Edits look good.

AECOM Response: Rasters were clipped to eliminate disconnects in flooding

Image 7

CSC Comment: Layers 23-45 – there are several unattached pieces of depth grid that are not accounted for by the inundation polygon.

AECOM Response: Areas in the depth grid showing unattached flooding have been removed

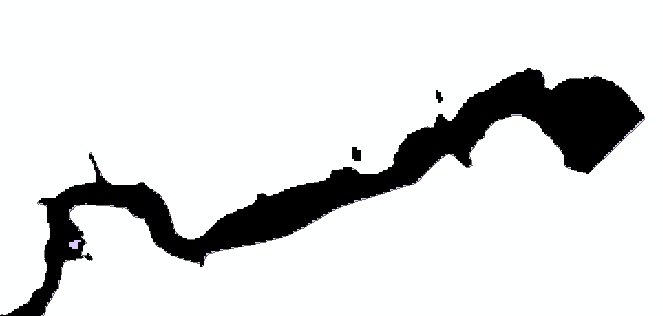
CSC: Edits look good.

CSC Comment: Layers 36, 37, 39-45 – there are several holes in the depth grids for these layers (some of which are very large holes.

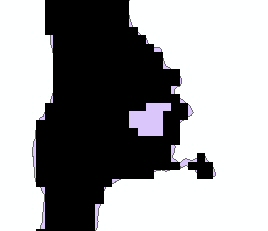
AECOM Response: We are unable to edit/add areas within the depth grid. The holes that do exist are < then the 250’ rule we have been using to clean the polygons. Therefore, when a small island is removed from the polygon shapefile, it will remain in the depth raster.

CSC: OK

Layer 24, 25, 26, 27, 34, 35



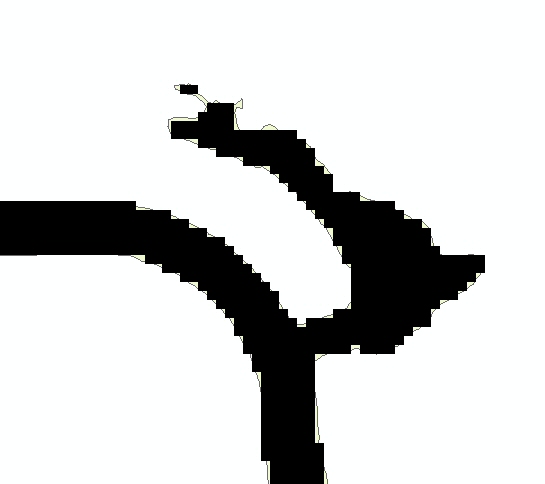
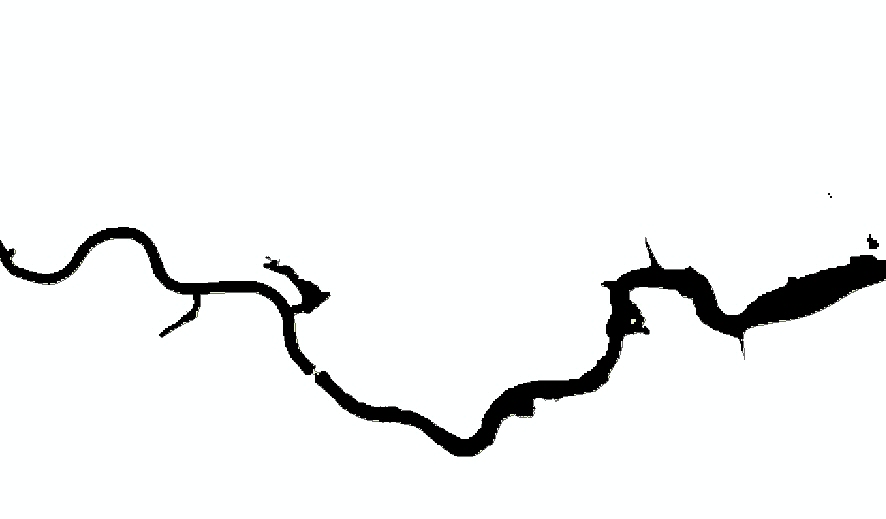
Reference for Image 8



In layers 24, 25, 26, 27 this hole in the depth grid represented in image 8 is present. In depth grids 34 and 35 there is a hole in the depth grid just up river from this location.

Image 8

Layer 25



CSC: OK

AECOM Response: The polygons are correct. Due to the narrowness of the attached flooding the raster is unable to add cells to this area.

CSC Comments: There are a few pixels of the depth grid that are unattached from the river system, but are showing attached by the polygon. Which is correct?

Reference for Image 9

Image 9

Layer 26

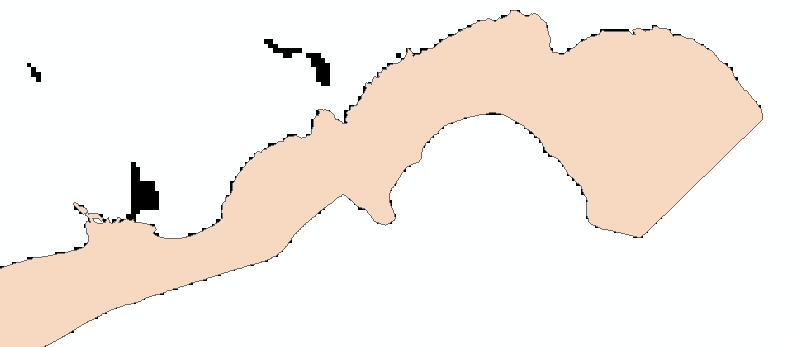


Image 10

CSC Comment: Layer 26 – There are several unattached pieces of the depth grid that are not reflected in the polygon.

AECOM Response: Raster clipped

CSC: OK

Layer 32, 33

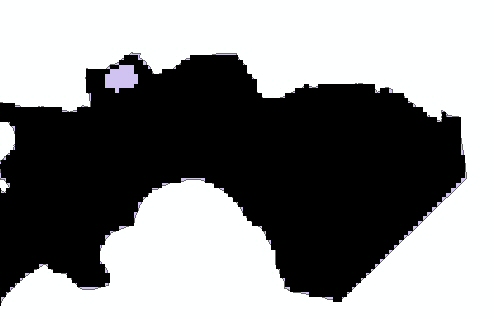


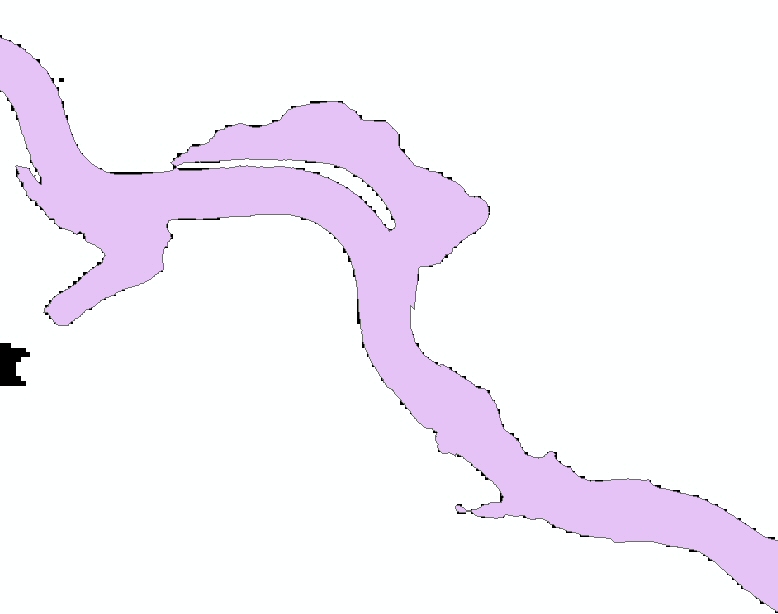
Image 11

CSC Comment: Layer 32, 33 – there is a large hole in the depth grid for these layers at this location.

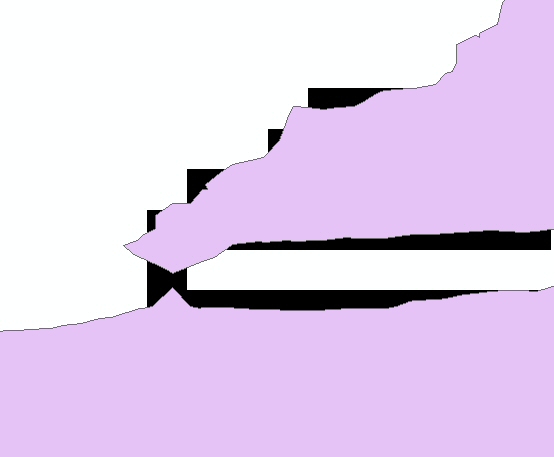
AECOM response: <See above comment on holes found in raster>

CSC: OK

Layer 36



Reference for Image 12

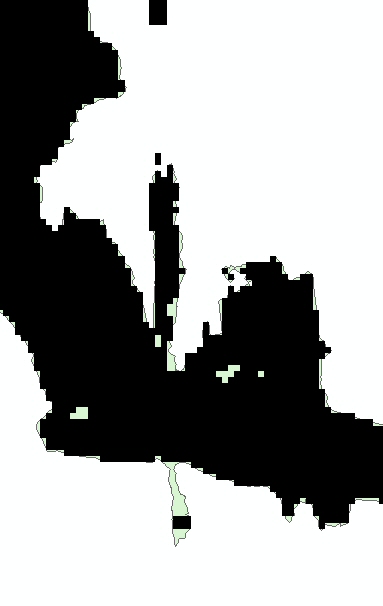
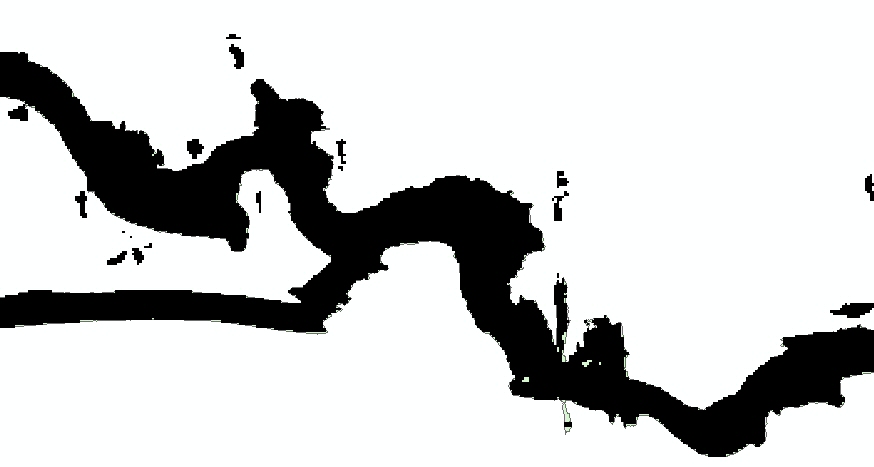


CSC: OK

AECOM Response: The polygons are correct. The flooding is so close together that the cells from the depth grids touch.

CSC Comment: At this location the depth grid shows the inundation connects, but the polygon shows that it does not. Which is correct?

Image 12

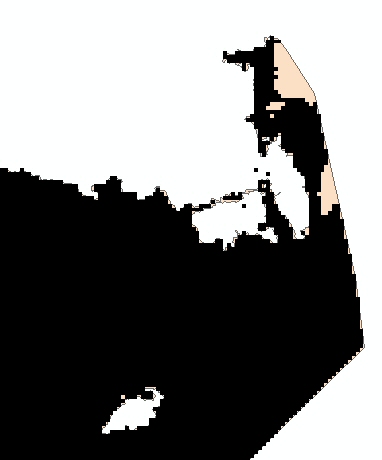
Layer 40 

CSC: OK

AECOM Response: Flooding area shown is too narrow for raster to be developed. Areas of disconnected flooding in the depth rasters have been eliminated

CSC Comment: There are a few gaps in this depth grid. In places, the depth grid does not correspond with the polygon.

Layer 44



CSC Comment: Layer 44 – there are large gaps in this depth grid, as well as some unattached pixels.

CSC: I guess this is the same raster issue that cannot be edited?