


Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Main Dam - Design Storm Breach						
Cross Section	Distance from Dam (miles)	Time to Initial Wave (hours)	Time to Max Wave (hours)	10-year River Elevation (NAVD, feet)	Max Breach WSEL (NAVD, feet)	Elevation Increase (Max WSEL - 10-year) (feet)
A	7.48 ¹	0:42	2:53	269.9	272.1	2.2
B	5.10 ¹	0:25	1:77	271.9	274.8	2.9
C	4.25 ¹	0:17	1:52	272.8	275.9	3.1
D	2.56 ¹	0:08	1:18	274.3	278.3	4.0
E	0.65 ¹	0:00	1:07	276.3	281.9	5.6
F	0.33 ¹	0:00	0:52	276.7	283.5	6.8
G	0.39 ²	0:00	0:98	277.7	284.5	6.8
H	1.41 ²	0:08	1:00	279.1	285.3	6.2
I	2.35 ²	0:17	0:93	279.7	285.6	5.9
J	3.13 ²	0:25	0:88	280.2	285.9	5.7
K	3.64 ²	0:33	0:90	281.0	286.1	5.1
L	4.40 ²	0:42	0:93	282.1	286.4	4.3
M	4.64 ²	0:42	0:98	283.4	287.2	3.8
N	5.28 ²	0:42	1:02	284.1	287.4	3.3
O	5.75 ²	0:50	1:10	284.9	287.7	2.8
P	6.55 ²	0:58	1:47	286.0	288.2	2.2
Q	6.80 ²	0:58	1:50	286.5	288.4	1.9


¹ Cross-sections downstream of the dam
² Cross-sections upstream of the dam

Main Dam - Top of Dam Breach						
Cross Section	Distance from Dam (miles)	Time to Initial Wave (hours)	Time to Max Wave (hours)	10-year River Elevation (NAVD, feet)	Max Breach WSEL (NAVD, feet)	Elevation Increase (Max WSEL - 10-year) (feet)
A	7.48 ¹	0:33	2:67	269.9	270.9	1.0
B	5.10 ¹	0:25	1:68	271.9	273.4	1.5
C	4.25 ¹	0:17	1:40	272.8	274.5	1.7
D	2.56 ¹	0:17	0:98	274.3	276.8	2.5
E	0.65 ¹	0:08	0:42	276.3	281.7	5.4
F	0.33 ¹	0:08	0:35	276.7	283.7	7.0
G	0.39 ²	0:08	0:35	277.7	284.0	6.3
H	1.41 ²	0:17	0:82	279.1	284.2	5.1
I	2.35 ²	0:25	0:77	279.7	284.6	4.9
J	3.13 ²	0:25	0:75	280.2	285.1	4.9
K	3.64 ²	0:33	0:77	281.0	285.3	4.3
L	4.40 ²	0:42	0:78	282.1	285.6	3.5
M	4.64 ²	0:42	0:85	283.4	286.3	2.9
N	5.28 ²	0:42	0:90	284.1	286.5	2.3
O	5.75 ²	0:50	0:95	284.9	286.7	1.8
P	6.55 ²	0:50	1:03	286.0	287.2	1.2
Q	6.80 ²	0:50	1:08	286.5	287.3	0.8

¹ Cross-sections downstream of the dam
² Cross-sections upstream of the dam



Projection
State Plane Alabama West FIPS 0102
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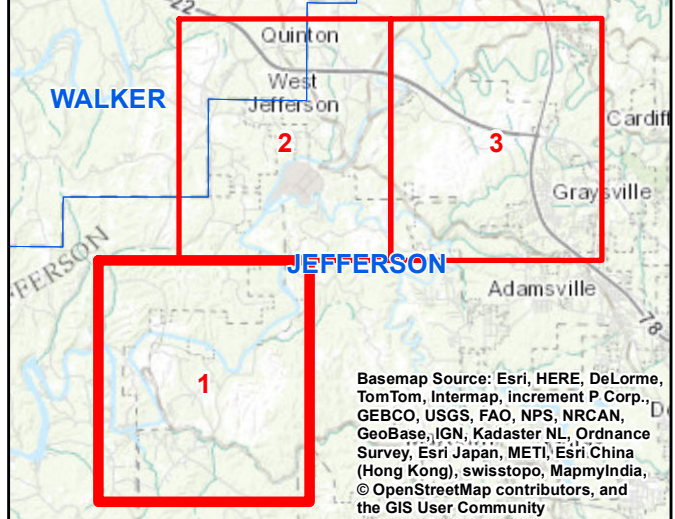
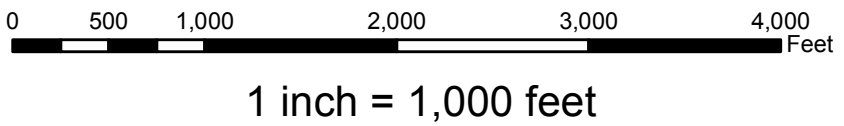



Note:
1. The information contained in this map is prepared for use in notification of downstream property owners by emergency management personnel.
2. Mapping of flooded areas and floodwave travel times are approximate. Timing and extent of actual inundation may differ from information presented on this map.
3. It is prudent to assume that areas outside, but adjacent to, the inundation limits shown could also be flooded.
4. The contours shown on this map were generated from the LiDAR Digital Elevation Model (DEM) for Jefferson County and the USGS 10-meter DEM for Walker County.

Plant Miller


Ash Pond Dam Inundation Analysis

Jefferson and Walker Counties







Critical Facility




Stream/River Centerline




Lettered Cross Section




Main Dam - Design Storm Breach Floodplain




Main Dam - Top of Dam Breach Floodplain



Effective 100-year Floodplain



40-foot Contours



County Boundary