

Downstream Impact Modeling Results

AMEC Report

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MIG 3 Study Plan 12(A)
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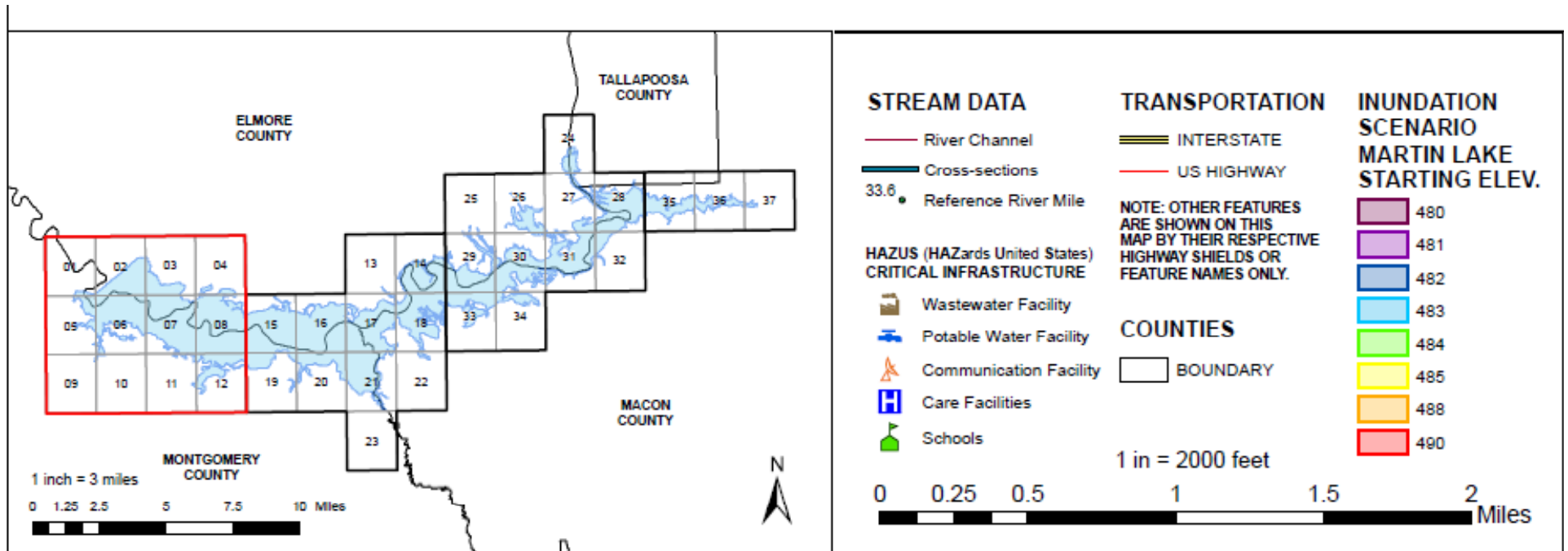
Determining Downstream Flooding Impacts

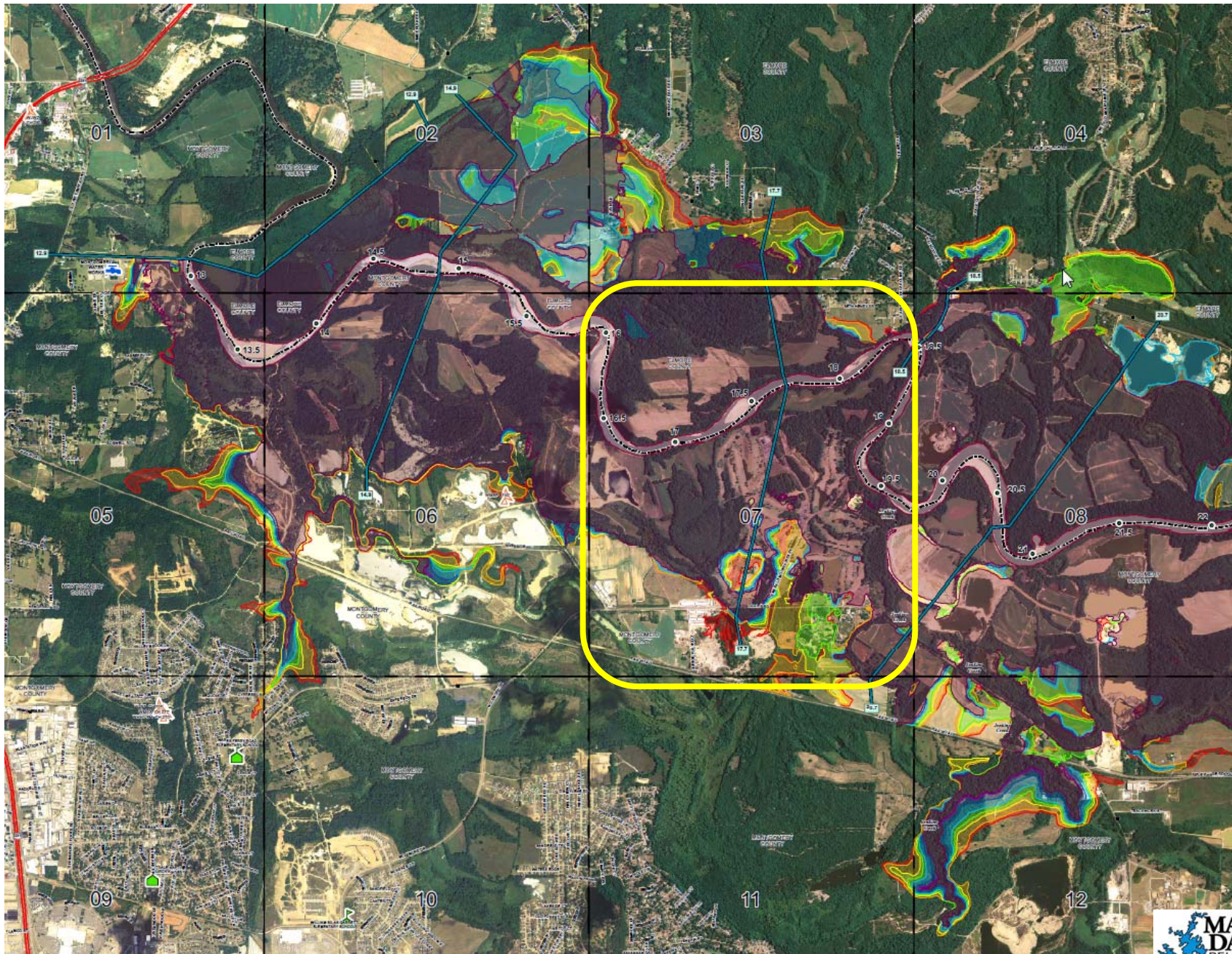
The Process

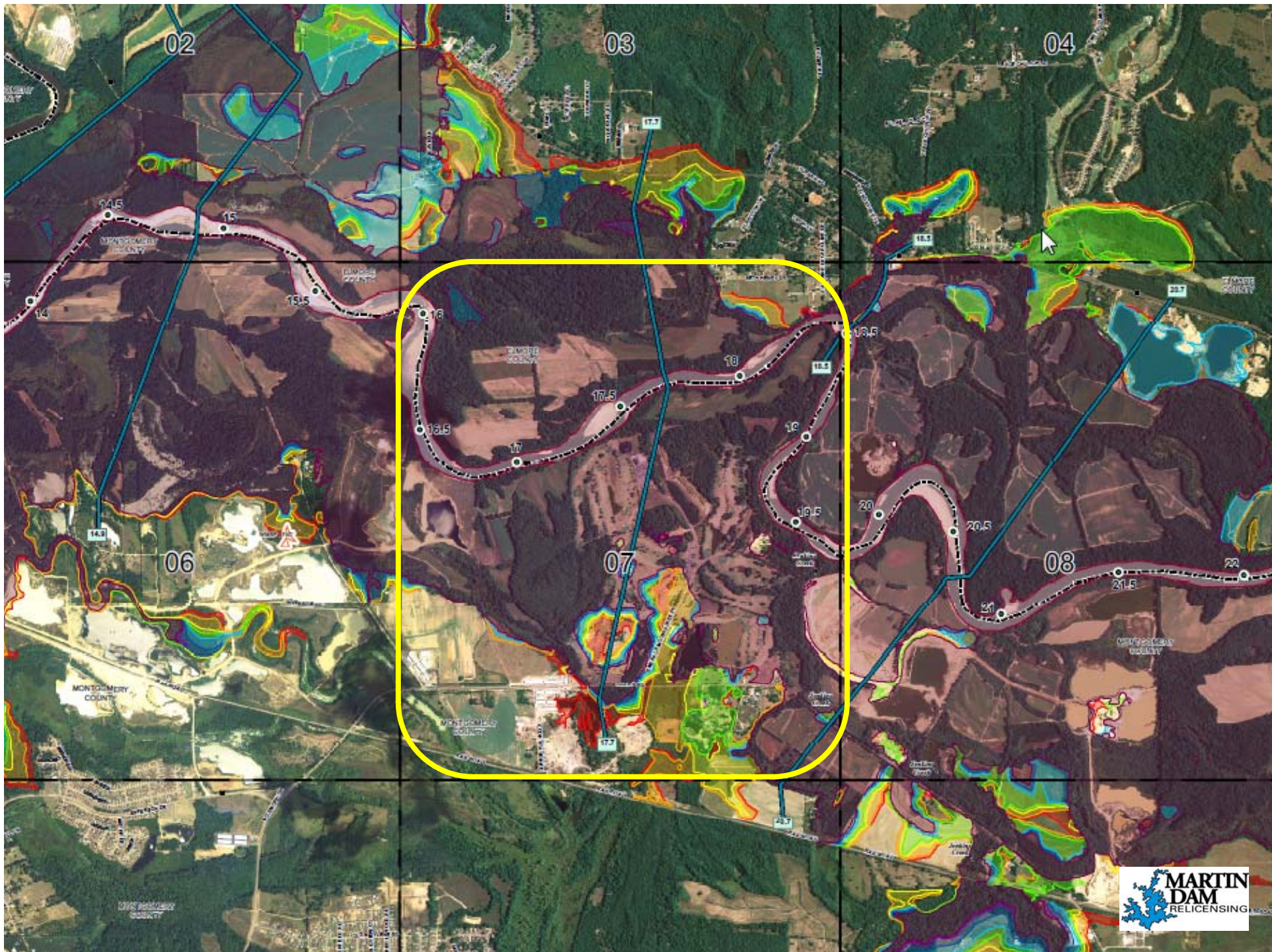
1. Use the APCo Flood Study Report to establish downstream river elevations
2. Combine the downstream river elevations with map contours to determine the “lay of the land”
3. Use aerial photography to count the structures



How You Read the Maps







JOINS PANEL: 06



JOINS PANEL: 08

How Much Land



Table 1. Approximate Total Inundated Area

Model Scenario (ft) (Above MSL)	Approximate Inundated Area (acres)	Approximate Inundated Area by Landuse Category				
		Agricultural (acres)	Industrial (acres)	Commercial (acres)	Residential (acres)	Water (acres)
481	19,924	17,733	448	385	23	1,335
482	20,256	18,063	449	385	23	1,336
483	20,568	18,354	459	393	25	1,337
484	22,043	19,774	478	408	46	1,337
485	22,500	20,097	491	496	79	1,337
486	23,277	20,752	581	513	94	1,337
489	24,353	21,499	607	560	123	1,564
491	24,706	21,755	626	585	139	1,601

Table 2. Additional Inundated Area Compared to the Previous Model Scenario

Model Scenario (ft) (Above MSL)	Approximate Additional Inundated Area		Approximate Additional Inundated Area by Landuse Category				
	(Stepped) (acres)	(Accrued) (acres)	Agricultural (acres)	Industrial (acres)	Commercial (acres)	Residential (acres)	Water (acres)
481	-	-	-	-	-	-	-
482	332	332	330	1	0	0	1
483	312	644	291	10	8	2	1
484	1,475	2,119	1,420	19	15	21	0
485	457	2,576	323	13	88	33	0
486	777	3,353	655	90	17	15	0
489	1,076	4,429	747	26	47	29	227
491	353	4,782	256	19	25	16	37



How Many Structures



Table 3. Approximate Number of Potentially Affected Structures

Model Scenario (ft Above MSL)	Affected Structures	Affected Structures by Landuse Category		
		Industrial	Commercial	Residential
481	18	3	11	4
482	18	3	11	4
483	27	3	20	4
484	41	3	21	17
485	47	4	22	21
486	50	4	24	22
488	63	5	25	33
491	75	5	25	45



Questions ?

