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Table 2. Summary of Proposed or Ongoing Flood Mitigation Projects

Existing Project ID	RFPG No.	RFPG Name	Project Name	Description	Counties	HUC8s	HUC12s	Watersheds	Project Status	Project Cost	Source of Funding	Dedicated Funding for Construction	Expected Year of Completi	Anticipated Benefit
12000001	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 155201011	Karnes	12100303	121003030404	12000023	Ongoing	932474	TXDOT	Y	2022	BRIDGE REPLACEMENT
12000002	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 142201009	Karnes	12100303	121003030304	12000041	Ongoing	1326780	TXDOT	Y	2021	BRIDGE REPLACEMENT
12000003	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 099102013	Karnes	12100303	121003030205	12000034	Proposed	402500	TXDOT	Y		BRIDGE REPLACEMENT
12000004	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 008802062	Goliad	12100303	121003030604	12000049	Proposed	17550000	TXDOT	Y		BRIDGE REPLACEMENT
12000005	12	San Antonio	TXDOT ROAD PROJECTS - CONVERT NON-FREEWAY	TXDOT_ID: 025304138	Bexar	12100301,12100304	121003010103,121003040104	12000005,12000064	Ongoing	187918000	TXDOT	Y	2022	CONVERT NON-FREEWAY
12000006	12	San Antonio	TXDOT ROAD PROJECTS - CONVERT NON-FREEWAY	TXDOT_ID: 002407059	Bexar	12100302	121003020504,121003020502,121003020503,121003020505	12000106,12000107,12000108,12000109	Proposed	110000000	TXDOT	Y		CONVERT NON-FREEWAY
12000007	12	San Antonio	TXDOT ROAD PROJECTS - CONSTRUCT NEW ROAD	TXDOT_ID: 025304146	Bexar	12100301	121003010103	12000005	Ongoing	179542000	TXDOT	Y	2021	CONSTRUCT NEW ROAD
12000008	12	San Antonio	TXDOT ROAD PROJECTS - CONVERT NON-FREEWAY	TXDOT_ID: 245203111	Bexar	12100304	121003040205,121003040206	12000071,12000072	Proposed	300000000	TXDOT	Y		CONVERT NON-FREEWAY
12000009	12	San Antonio	TXDOT ROAD PROJECTS - CONSTRUCT FRONTAGE ROADS	TXDOT_ID: 051602030	Goliad	12100303	121003030507,121003030604	12000046,12000049	Ongoing	11249500	TXDOT	Y	2021	CONSTRUCT FRONTAGE ROADS
12000010	12	San Antonio	TXDOT ROAD PROJECTS - CONVERT NON-FREEWAY	TXDOT_ID: 245203112	Bexar	12100304	121003040202,121003040205	12000069,12000071	Proposed	45888900	TXDOT	Y		CONVERT NON-FREEWAY
12000011	12	San Antonio	TXDOT ROAD PROJECTS - CONSTRUCT FRONTAGE ROADS	TXDOT_ID: 189001046	Bexar	12100301,12100304	121003010106,121003040205	12000007,12000071	Ongoing	14631400	TXDOT	Y	2021	CONSTRUCT FRONTAGE ROADS
12000012	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 001608039	Bexar	12100301	121003010105	12000002	Proposed	6694600	TXDOT	Y		BRIDGE REPLACEMENT
12000013	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 112101022	Karnes	12100303	121003030402	12000021	Proposed	1490600	TXDOT	Y		BRIDGE REPLACEMENT
12000014	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 100902018	Wilson	12100304	121003040402	12000065	Proposed	2029110	TXDOT	Y		BRIDGE REPLACEMENT
12000015	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 094302012	De Witt	12100303	121003030601	12000047	Proposed	600000	TXDOT	Y		BRIDGE REPLACEMENT
12000016	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 014304072	Wilson	12100304	121003040401	12000060	Proposed	1776500	TXDOT	Y		BRIDGE REPLACEMENT
12000017	12	San Antonio	City Wide - Drainage Improvements Project	City of Seadrift: Drainage Improvement Project	Calhoun	12100403	121004030200	12000074	Proposed	4850939	TX GLO	Y		INCREASE CITY'S RESILIENCE
12000018	12	San Antonio	Drainage System Improvements Project	Calhoun County: Heron Slough Drainage System Improvements Project	Calhoun	12100403	121004030200	12000074	Proposed	11305233	TX GLO	Y		INCREASE DRAINAGE RESILIENCE
12000019	12	San Antonio	City Wide - Drainage and Stormwater Management Plan	City of Marion: Citywide Water and Wastewater Improvements	Guadalupe	12100304	121003040203	12000067	Proposed	9946170	TX GLO	Y		IMPROVE WATER AND WASTEWATER
12000020	12	San Antonio	City Wide - Wastewater Improvements	City of Seadrift: Facilitate proper functioning of critical wastewater-system components	Calhoun	12100403	121004030200	12000074	Proposed	1536580	TX GLO	Y		FACILITATES FUNCTIONING OF CRITICAL STORMWATER SYSTEMS
12000021	12	San Antonio	Seeling Channel Phase 3	COSA_SAPNo_ID: 23-01635	Bexar	12100301	121003010202	12000010	Ongoing	19968900	COSA	Y	2022	IMPROVES DRAINAGE
12000022	12	San Antonio	Barbara Drive Drainage Phase 2	COSA_SAPNo_ID: 23-01623	Bexar	12100301	121003010201	12000008	Ongoing	9665700	COSA	Y	2023	IMPROVES DRAINAGE
12000023	12	San Antonio	San Pedro Creek	COSA_SAPNo_ID: 23-01634	Bexar	12100301	121003010202	12000010	Ongoing	14600000	COSA	Y	2021	IMPROVES DRAINAGE
12000024	12	San Antonio	TXDOT ROAD PROJECTS - CONSTRUCT NEW ROAD	TXDOT_ID: 354404002	Bexar	12100302	121003020503	12000108	Proposed	12572400	TXDOT	Y		CONSTRUCT NEW ROAD
12000025	12	San Antonio	TXDOT ROAD PROJECTS - CONSTRUCT NEW ROAD	TXDOT_ID: 354403002	Medina,Bexar	12100302	121003020307	12000075	Proposed	4009000	TXDOT	Y		CONSTRUCT NEW ROAD

Table 2. Summary of Proposed or Ongoing Flood Mitigation Projects

Existing Project ID	RFPG No.	RFPG Name	Project Name	Description	Counties	HUC8s	HUC12s	Watersheds	Project Status	Project Cost	Source of Funding	Dedicated Funding for Construction	Expected Year of Completi	Anticipated Benefit
12000026	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE REPLACEMENT	TXDOT_ID: 015503037	Goliad	12100303	121003030603	12000050	Ongoing	3587100	TXDOT	Y	2021	BRIDGE REPLACEMENT
12000027	12	San Antonio	TXDOT ROAD PROJECTS - CONVERT NON-FREEWAY	TXDOT_ID: 002408138	Bexar	12100302	121003020405,121003020504	12000104,12000106	Proposed	10000000	TXDOT	Y		CONVERT NON-FREEWAY
12000028	12	San Antonio	TXDOT ROAD PROJECTS - BRIDGE MAINTENANCE	TXDOT_ID: 010005001	Karnes	12100303	121003030204,121003030202	12000027,12000030	Proposed	394860	TXDOT	Y		BRIDGE MAINTENANCE
12000029	12	San Antonio	County Wide - Flood Planning/Prevention Study	Karnes County Wide Flood Planning/Prevention Study	Atascosa,De Witt,Wilson,Goliad,Karnes	12100204,12100303,12100304,12100202,12100406,12110110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Ongoing	618750	TWDB FIF	Y	2020	FLOOD PLANNING / PREVENTION
12000030	12	San Antonio	County Wide - Hazard Mitigation Improvements Project	Refugio County Hazard Mitigation Improvements Project	Aransas,Refugio,Calhoun,Goliad,Victoria	12100303,12100404,12100406,12100405	121003030607,121003030606,121003030608,121004040000,121004060305,121004050304,121004050301,121004050303,121004050302,121004050101,121004050102	12000015,12000018,12000051,12000073	Proposed	6910130	TX GLO	Y		HAZARD MITIGATION IMPROVEMENT
12000031	12	San Antonio	City Wide - Water and Wastewater Improvements	City of Goliad: Wastewater Treatment System Improvements Project	Goliad	12100303	121003030604,121003030603	12000049,12000050	Proposed	93535536	TX GLO	Y		IMPROVE WASTEWATER TREATMENT
12000034	12	San Antonio	County Wide - Street Improvements	Aransas County: Improvement to Streets	Aransas,Refugio,Calhoun	12100404,12100403,12100405	121004040000,121004030200,121004050400,121004050304,121004050307,121004050303,121004050302,121004050102	12000073,12000074	Proposed	53860300	TX GLO	Y		IMPROVEMENT TO STREETS DAMAGED BY FLOODING
12000035	12	San Antonio	County Wide - Storm water conveyances and reducing the impact of future flooding,	Calhoun County: Facilitating proper storm water conveyances and reducing the impact of future flooding, and ensuring emergecy response systems are fully operational during emergency siutations	Aransas,Refugio,Calhoun,Victoria	12100204,12100303,12100402,12100404,12100403,12100405	121002040404,121003030608,121004020500,121004040000,121004030200,121004030100,121004030300,121004050400	12000051,12000073,12000074	Proposed	5936550	TX GLO	Y		FACILITATES STORMWATER CONVEYANCE
12000036	12	San Antonio	County Wide - Buyouts of storm-affected properties	Goliad County: Buyouts of storm-affected properties - approximately 6 homes	De Witt,Refugio,Goliad,Victoria,Karnes	12100204,12100303,12100406,12100405		12000017,12000018,12000025,12000026,12000042,12000043,12000044,12000045,12000046,12000047,12000048,12000049,12000050	Proposed	1583330	TX GLO	Y		BUYOUT OF STORM-AFFECTED PROPERTIES
12000037	12	San Antonio	City Wide - Drainage Improvements Project	City of Goliad: Improve drainage and stormwater infrastructure	Goliad	12100303	121003030604,121003030603	12000049,12000050	Proposed	477108	TX GLO	Y		IMPROVES DRAINAGE
12000038	12	San Antonio	County Wide - Drainage Improvements	Karnes County Improve drainage and stormwater infrastructure	Atascosa,De Witt,Wilson,Goliad,Karnes	12100204,12100303,12100304,12100202,12100406,12110110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Proposed	74177	TX GLO	Y		IMPROVES DRAINAGE
12000039	12	San Antonio	County Wide - Buyouts of storm-affected properties	Karnes County Buyouts of storm-affected properties - approximately 12 homes	Atascosa,De Witt,Wilson,Goliad,Karnes	12100204,12100303,12100304,12100202,12100406,12110110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Proposed	1725610	TX GLO	Y		BUYOUT OF STORM-AFFECTED PROPERTIES
12000040	12	San Antonio	County Wide - Drainage Improvements Project	Facilitating proper storm water conveyance and reducing the impact of future flooding	De Witt,Refugio,Calhoun,Goliad,Victoria	12100204,12100303,12100402,12100403	121002040205,121002040305,121002040403,121002040304,121002040404,121003030607,121003030605,121003030606,121003030608,121004030100	12000015,12000017,12000018,12000051	Proposed	3515650	TX GLO	Y		FACILITATES STORMWATER CONVEYANCE
12000041	12	San Antonio	Eisenhauer/Northwood-Devonshire Area Ph1	COSA_SAPNo_ID: 23-01628	Bexar	12100301	121003010105	12000002	Ongoing	9462630	COSA	Y	2022	IMPROVES DRAINAGE
12000042	12	San Antonio	Auldine Dr & Burr Oak Dr(Alley - Outfall)	COSA_SAPNo_ID: 23-01622	Bexar	12100301	121003010201	12000008	Ongoing	4355740	COSA	Y	2021	IMPROVES DRAINAGE
12000043	12	San Antonio	Port San Antonio	COSA_SAPNo_ID: 23-01633	Bexar	12100302	121003020406	12000105	Ongoing	28700300	COSA	Y	2022	IMPROVES DRAINAGE
12000044	12	San Antonio	Cedarhurst Dr Area(Dumont to Eaglerock)	COSA_SAPNo_ID: 23-01627	Bexar	12100302	121003020504	12000106	Ongoing	10133600	COSA	Y	2021	STORM DRAINAGE CONSTRUCTION
12000045	12	San Antonio	West Military Drive & Westmar Drive Area	COSA_SAPNo_ID: 23-01639	Bexar	12100302	121003020405	12000104	Ongoing	13637600	COSA	Y	2022	IMPROVES DRAINAGE
12000046	12	San Antonio	Vance Jackson Road Low-Water Crossings	COSA_SAPNo_ID: 23-01638	Bexar	12100301	121003010201	12000008	Ongoing	8103650	COSA	Y	2022	IMPROVE LOW WATER CROSSING
12000047	12	San Antonio	Lake Medina Dam Modifications	Modify the Lake Medina Dam to address safety issues. Install and test post-tension anchors in the abutment sections of the dam.	Medina,Bandera	12100302	121003020303,121003020304,121003020305	12000098,12000099,12000100	Ongoing	4000000	TWDB DFUND	Y		IMPROVES STABILITY OF DAM
12000048	12	San Antonio	City Wide - Drainage Improvements	Bandera City. City-side drainage improvements. Riparian improvements on the Medina River.	Bandera	12100302	121003020203,121003020204	12000088,12000089	Proposed	2430000	TWDB FIF	Y		MITIGATE DAMAGES AND CITY MAINTENANCE ACTIVITIES CAUSED BY FLOOD EVENTS
12000049	12	San Antonio	Marcelinas Study	Marcelinas Study	Wilson,Karnes	12100303,12100304,12110110		12000014,12000016,12000019,12000020,12000022,12000027,12000028,12000030,12000031,12000033,12000034,12000035,12000036,12000037,12000041,12000052,12000053,12000057,12000060,12000065	Proposed		TX GLO	Y		Unknown
12000050	12	San Antonio	San Antonio Bay	San Antonio Bay	Aransas,Calhoun	12100402,12100404,12100403,12100405	121004020500,121004040000,121004030200,121004030100,121004030300,121004050400	12000073,12000074	Proposed		TX GLO	Y		Unknown

Table 3. Existing Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	1% Annual Chance Flood Risk									
					Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nighttime)	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	12	San Antonio	Aransas	36.932	12.217	0	0	0	0	0	0	7.477	0.016	2
2	12	San Antonio	Atascosa	15.844	0.962	57	51	32	95	95	1	2.205	0.045	1
3	12	San Antonio	Bandera	526.418	47.944	938	567	788	1027	1027	79	61.398	1.105	122
4	12	San Antonio	Bexar	1220.295	148.206	11261	8309	52003	31084	52003	992	353.048	10.087	1230
5	12	San Antonio	Calhoun	146.459	99.621	949	699	332	647	647	3	14.475	1.002	27
6	12	San Antonio	Comal	97.295	10.877	363	269	817	426	817	24	15.022	0.503	118
7	12	San Antonio	De Witt	77.455	10.927	22	6	3	8	8	15	6.976	0.483	81
8	12	San Antonio	Goliad	337.047	91.113	177	62	102	204	204	55	30.113	12.497	512
9	12	San Antonio	Guadalupe	172.968	33.497	2239	1768	8128	5336	8128	86	65.287	4.876	240
10	12	San Antonio	Karnes	596.240	120.558	336	161	195	422	422	97	58.800	22.649	739
11	12	San Antonio	Kendall	127.762	6.970	628	398	1812	1650	1812	32	12.465	0.067	65
12	12	San Antonio	Kerr	59.833	1.267	20	8	6	17	17	4	1.053	0.034	4
13	12	San Antonio	Medina	195.694	23.166	478	299	401	550	550	55	20.457	5.024	26
14	12	San Antonio	Refugio	98.006	37.193	163	67	101	166	166	15	10.128	2.712	262
15	12	San Antonio	Victoria	43.156	26.582	30	11	9	19	19	8	5.101	1.858	41
16	12	San Antonio	Wilson	658.237	129.100	1459	1020	1449	1823	1823	104	89.064	16.790	607
Total				4409.64	800.20	19120	13695	66178	43474	67738	1570	753.07	79.75	4077

Table 3. Existing Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	0.2% Annual Chance Flood Risk									
					Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nightime)	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	12	San Antonio	Aransas	36.932	5.574	0	0	0	0	0	0	5.592	0.017	4
2	12	San Antonio	Atascosa	15.844	0.000	0	0	0	0	0	0	0.000	0.000	0
3	12	San Antonio	Bandera	526.418	10.705	663	290	551	637	637	4	20.348	0.179	196
4	12	San Antonio	Bexar	1220.295	9.328	2347	1895	7839	5583	7839	35	44.710	1.762	481
5	12	San Antonio	Calhoun	146.459	25.328	604	457	338	316	338	1	18.604	0.785	61
6	12	San Antonio	Comal	97.295	2.121	286	238	665	323	665	4	4.639	0.097	93
7	12	San Antonio	De Witt	77.455	1.556	25	8	3	9	9	2	1.412	0.077	94
8	12	San Antonio	Goliad	337.047	11.125	110	33	56	130	130	3	8.297	1.297	212
9	12	San Antonio	Guadalupe	172.968	4.080	1570	1355	8080	5882	8080	5	20.323	0.765	87
10	12	San Antonio	Karnes	596.240	17.822	227	94	123	172	172	10	27.294	3.222	965
11	12	San Antonio	Kendall	127.762	0.826	333	208	2510	707	2510	0	4.626	0.027	26
12	12	San Antonio	Kerr	59.833	0.348	14	2	0	6	6	0	0.239	0.006	8
13	12	San Antonio	Medina	195.694	8.525	751	553	1603	1104	1603	4	20.828	4.217	34
14	12	San Antonio	Refugio	98.006	1.894	16	2	8	22	22	0	2.096	0.444	147
15	12	San Antonio	Victoria	43.156	0.998	7	3	1	2	2	0	0.557	0.048	23
16	12	San Antonio	Wilson	658.237	24.111	580	381	370	799	799	6	34.763	5.197	493
Total				4409.64	124.34	7533	5519	22147	15692	22812	74	214.33	18.14	2924

Table 3. Existing Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	Possible Flood Prone Areas								Average SVI of features in floodplain or flood prone areas
					Area (sqmi)	Number of Structures in Flood Prone Area	Residential Structures in in Flood Prone Area	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	
1	12	San Antonio	Aransas	36.932	0.000	0	0	0	0	0.000	0.000	0	0.474
2	12	San Antonio	Atascosa	15.844	0.000	0	0	0	0	0.000	0.000	0	0.750
3	12	San Antonio	Bandera	526.418	0.000	0	0	0	0	0.017	0.000	0	0.417
4	12	San Antonio	Bexar	1220.295	0.000	0	0	0	0	0.000	0.000	0	0.534
5	12	San Antonio	Calhoun	146.459	0.000	0	0	0	0	0.000	0.000	0	0.788
6	12	San Antonio	Comal	97.295	0.000	0	0	0	0	0.000	0.000	0	0.159
7	12	San Antonio	De Witt	77.455	0.000	0	0	0	0	0.000	0.000	0	0.412
8	12	San Antonio	Goliad	337.047	0.000	0	0	0	0	0.000	0.000	0	0.595
9	12	San Antonio	Guadalupe	172.968	0.000	0	0	0	0	0.000	0.000	0	0.309
10	12	San Antonio	Karnes	596.240	0.000	0	0	0	0	0.000	0.000	0	0.464
11	12	San Antonio	Kendall	127.762	0.054	10	8	26	0	1.159	0.000	0	0.327
12	12	San Antonio	Kerr	59.833	0.000	0	0	0	0	0.000	0.000	0	0.550
13	12	San Antonio	Medina	195.694	0.000	0	0	0	0	0.000	0.000	0	0.391
14	12	San Antonio	Refugio	98.006	0.000	0	0	0	0	0.000	0.000	0	0.628
15	12	San Antonio	Victoria	43.156	0.000	0	0	0	0	0.000	0.000	0	0.439
16	12	San Antonio	Wilson	658.237	0.000	0	0	0	0	0.000	0.000	0	0.480
Total				4409.64	0.05	10	8	26	0	1.18	0.00	0	

Table 5: Future Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	1% Annual Chance Flood Risk									
					Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nighttime)	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	12	San Antonio	Aransas	36.932	17.791	0	0	0	0	0	0	13.069	0.033	6
2	12	San Antonio	Atascosa	15.844	0.962	57	51	32	95	95	1	2.205	0.045	1
3	12	San Antonio	Bandera	526.418	58.648	1601	857	1339	1664	1664	83	81.746	1.284	125
4	12	San Antonio	Bexar	1220.295	157.539	13608	10204	59842	36667	59842	1026	397.758	11.849	1274
5	12	San Antonio	Calhoun	146.459	124.950	1553	1156	670	963	963	4	33.078	1.787	88
6	12	San Antonio	Comal	97.295	13.000	649	507	1482	749	1482	28	19.661	0.600	108
7	12	San Antonio	De Witt	77.455	12.484	47	14	6	17	17	17	8.388	0.560	92
8	12	San Antonio	Goliad	337.047	102.239	287	95	158	334	334	58	38.410	13.794	535
9	12	San Antonio	Guadalupe	172.968	37.577	3809	3123	16208	11218	16208	91	85.629	5.640	245
10	12	San Antonio	Karnes	596.240	138.381	563	255	318	594	594	107	86.113	25.871	771
11	12	San Antonio	Kendall	127.762	7.798	961	606	4322	2357	4322	32	17.109	0.093	65
12	12	San Antonio	Kerr	59.833	1.615	34	10	6	23	23	4	1.292	0.039	5
13	12	San Antonio	Medina	195.694	31.692	1229	852	2004	1654	2004	59	41.284	9.241	27
14	12	San Antonio	Refugio	98.006	39.090	179	69	109	188	188	15	12.255	3.156	260
15	12	San Antonio	Victoria	43.156	27.580	37	14	10	21	21	8	5.658	1.906	41
16	12	San Antonio	Wilson	658.237	153.218	2039	1401	1819	2622	2622	110	123.846	21.987	632
Total				4409.64	924.57	26653	19214	88325	59166	90379	1643	967.50	97.89	4275

Table 5: Future Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region	0.2% Annual Chance Flood Risk									
					Area in Floodplain (sqmi)	Number of Structures in Floodplain	Residential Structures in Floodplain	Population (daytime)	Population (nightime)	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)
1	12	San Antonio	Aransas	36.932	1.059	0	0	0	0	0	0	2.897	0.003	6
2	12	San Antonio	Atascosa	15.844	0.232	22	19	9	30	30	0	0.472	0.012	2
3	12	San Antonio	Bandera	526.418	15.181	1095	631	938	1363	1363	7	22.146	0.098	240
4	12	San Antonio	Bexar	1220.295	43.917	22277	19061	94501	74892	94501	360	237.517	2.056	2265
5	12	San Antonio	Calhoun	146.459	2.335	121	104	11	49	49	2	8.941	0.111	55
6	12	San Antonio	Comal	97.295	2.660	441	382	980	797	980	6	9.525	0.055	114
7	12	San Antonio	De Witt	77.455	4.341	44	12	5	18	18	2	9.799	0.242	147
8	12	San Antonio	Goliad	337.047	25.613	263	114	434	400	434	6	40.699	1.106	673
9	12	San Antonio	Guadalupe	172.968	10.807	1483	1251	4468	4033	4468	7	37.138	1.644	335
10	12	San Antonio	Karnes	596.240	34.492	471	204	408	416	416	21	80.011	3.441	1204
11	12	San Antonio	Kendall	127.762	3.025	536	391	1612	1868	1868	11	6.922	0.016	95
12	12	San Antonio	Kerr	59.833	0.899	47	19	5	19	19	0	0.832	0.008	9
13	12	San Antonio	Medina	195.694	3.988	285	171	288	413	413	4	7.419	0.522	47
14	12	San Antonio	Refugio	98.006	4.722	78	27	234	130	234	3	20.397	0.722	300
15	12	San Antonio	Victoria	43.156	1.968	22	12	6	25	25	1	4.586	0.119	48
16	12	San Antonio	Wilson	658.237	44.082	1666	1229	1941	2478	2478	23	115.094	2.928	842
Total				4409.64	199.32	28851	23627	105840	86931	107296	453	604.40	13.08	6382

Table 5: Future Condition Flood Risk Summary Table

	RFPG No.	RFPG Name	County	Area in Flood Planning Region (sqmi)	Possible Flood Prone Areas								Average SVI of features in floodplain or flood prone areas
					Area (sqmi)	Number of Structures in Flood Prone Area	Residential Structures in in Flood Prone Area	Population	Roadway Crossings (#)	Roadways Segments (miles)	Agricultural Areas (sqmi)	Critical Facilities (#)	
1	12	San Antonio	Aransas	36.932	0.000	0	0	0	0	0.000	0.000	0	0.474
2	12	San Antonio	Atascosa	15.844	0.000	0	0	0	0	0.000	0.000	0	0.748
3	12	San Antonio	Bandera	526.418	0.000	0	0	0	0	0.017	0.000	0	0.405
4	12	San Antonio	Bexar	1220.295	0.000	0	0	0	0	0.000	0.000	0	0.520
5	12	San Antonio	Calhoun	146.459	0.000	0	0	0	0	0.000	0.000	0	0.788
6	12	San Antonio	Comal	97.295	0.000	0	0	0	0	0.000	0.000	0	0.158
7	12	San Antonio	De Witt	77.455	0.000	0	0	0	0	0.000	0.000	0	0.412
8	12	San Antonio	Goliad	337.047	0.000	0	0	0	0	0.000	0.000	0	0.593
9	12	San Antonio	Guadalupe	172.968	0.000	0	0	0	0	0.000	0.000	0	0.290
10	12	San Antonio	Karnes	596.240	0.000	0	0	0	0	0.000	0.000	0	0.463
11	12	San Antonio	Kendall	127.762	0.054	10	8	26	0	1.159	0.000	0	0.317
12	12	San Antonio	Kerr	59.833	0.000	0	0	0	0	0.000	0.000	0	0.554
13	12	San Antonio	Medina	195.694	0.000	0	0	0	0	0.000	0.000	0	0.394
14	12	San Antonio	Refugio	98.006	0.000	0	0	0	0	0.000	0.000	0	0.626
15	12	San Antonio	Victoria	43.156	0.000	0	0	0	0	0.000	0.000	0	0.439
16	12	San Antonio	Wilson	658.237	0.000	0	0	0	0	0.000	0.000	0	0.479
Total				4409.64	0.05	10	8	26	0	1.18	0.00	0	

Table 6. Existing Floodplain Management Practices

Entity	Type	Entity ID	Floodplain Management Regulations (Yes/ No/ Unknown)A	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)A	NFIP Participant (Yes/ No)A,D	Higher Standards Adopted (Yes/ No)B	Floodplain Management Practices (Strong/Moderate/ Low/None)B	Level of Enforcement of Practices (High/ Moderate/ Low/ None)B,C	Existing Stormwater or Drainage Fee (Yes/ No)B	Web Link to Entity Regulations
Medina	County	00000005	Yes	Yes	Yes	Yes	Strong	High		medinacountytexas.org
Bexar	County	00000007	Yes	Yes	Yes	Yes	Strong	Moderate		Not Available online
Guadalupe	County	00000010	Yes	Yes	Yes	Yes	Strong			
Bandera	County	00000011	Yes	Yes	Yes	Yes	Moderate	Moderate		www.banderacounty.org
Comal	County	00000014	Yes	Yes	Yes	Yes	Moderate	High	No	https://cceo.org/flood/documents/Flood_Damage_Prevention_Order.pdf
Kendall	County	00000017	Yes	Yes	Yes	Yes	Moderate	High		
Kerr	County	00000022	Yes	Yes	Yes	Yes	Moderate	Moderate	No	https://www.co.kerr.tx.us/engineer/Flood_Damage_Prevention_Order_37967_02.24.2020.pdf
Aransas	County	00000083	Yes	Yes	Yes	Yes	Moderate	Moderate		https://www.aransascountytx.gov/main/docs/ordinances/OAmended%20Aransas%20County%20Floodplain%20Management%20Watershed%20Protection%20Order%20O-23-2019.pdf
Refugio	County	00000084	Yes	Yes	Yes	No	Low	Low		
Calhoun	County	00000088	Yes	Yes	Yes	Yes	Moderate	None		
Goliad	County	00000090	Yes	Yes	Yes	No	Low	None		
Victoria	County	00000094	Yes	Yes	Yes	No	Low	None		
Karnes	County	00000095	Yes	Yes	Yes	No	Moderate	Moderate		None
Atascosa	County	00000096	Yes	Yes	Yes	Yes	Moderate	None		
De Witt	County	00000099	Yes	Yes	Yes	No	Low	None		
Wilson	County	00000100	Yes	Yes	Yes	Yes	Moderate	Moderate	No	Flood_Order_Final_10272010.pdf
Nordheim	Municipality	00002402	No	No	No	No	None	None		
Fair Oaks Ranch	Municipality	12002436	Yes	Yes	Yes	Yes	Moderate	None		
Alamo Heights	Municipality	12002437	Yes	Yes	Yes	Yes	Moderate	None		
Balcones Heights	Municipality	12002438	Yes	Yes	Yes	No	Low	None		
Castle Hills	Municipality	12002439	Yes	Yes	Yes	Yes	Moderate	None		
China Grove	Municipality	12002440	Yes	Yes	Yes	Yes	Moderate	None		
Converse	Municipality	12002441	Yes	Yes	Yes	No	Low	None		
Elmendorf	Municipality	12002442	Yes	Yes	Yes	No	Low	High	No	https://library.municode.com/tx/elmendorf/codes/code_of_ordinances
Terrell Hills	Municipality	12002475	Yes	Yes	Yes	No	Low	None		
Windcrest	Municipality	12002476	Yes	Yes	Yes	Yes	Moderate	None		
Grey Forest	Municipality	12002506	Yes	Yes	Yes	No	Low	None		
Hill Country Village	Municipality	12002507	Yes	Yes	Yes	No	Low	None		
Hollywood Park	Municipality	12002508	Yes	Yes	Yes	No	Low	None		
Kirby	Municipality	12002510	Yes	Yes	Yes	No	Low	None		
Leon Valley	Municipality	12002511	Yes	Yes	Yes	Yes	Moderate	None		
Live Oak	Municipality	12002512	Yes	Yes	Yes	Yes	Strong	None		
Cibolo	Municipality	00002615	Yes	Yes	Yes	No	Low	None		
Bulverde	Municipality	00002669	Yes	Yes	Yes	Yes	Moderate	None		
New Braunfels	Municipality	00002670	Yes	Yes	Yes	Yes	Strong	None		
Schertz	Municipality	00002671	Yes	Yes	Yes	Yes	Moderate	None		
Karnes City	Municipality	12002756	Yes	Yes	Yes	No	Low	None		
Runge	Municipality	12002757	Yes	Yes	Yes	No	Low	None		
Boerne	Municipality	12002855	Yes	Yes	Yes	Yes	Moderate	None		
Olmos Park	Municipality	12002889	Yes	Yes	Yes	No	Low	None		
Floresville	Municipality	12002925	Yes	Yes	Yes	Yes	Moderate	None		
LaCoste	Municipality	12002954	Yes	Yes	Yes	Yes	Moderate	None		
Marion	Municipality	12002966	Yes	Yes	Yes	No	Low	None		
Universal City	Municipality	12002967	Yes	Yes	Yes	Yes	Moderate	None		
New Berlin	Municipality	00002973	Yes	Yes	Yes	No	Low	None		
Falls City	Municipality	12002974	Yes	Yes	Yes	No	Low	None		
Kenedy	Municipality	12002975	Yes	Yes	Yes	Yes	Moderate	None		
Goliad	Municipality	12002986	Yes	Yes	Yes	No	Low	None		
Shavano Park	Municipality	12003000	Yes	Yes	Yes	Yes	Moderate	None		
Helotes	Municipality	12003002	Yes	Yes	Yes	Yes	Moderate	None		

Table 6. Existing Floodplain Management Practices

Entity	Type	Entity ID	Floodplain Management Regulations (Yes/ No/ Unknown)A	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)A	NFIP Participant (Yes/ No)A,D	Higher Standards Adopted (Yes/ No)B	Floodplain Management Practices (Strong/Moderate/ Low/None)B	Level of Enforcement of Practices (High/ Moderate/ Low/ None)B,C	Existing Stormwater or Drainage Fee (Yes/ No)B	Web Link to Entity Regulations
Somerset	Municipality	12003003	Yes	Yes	Yes	No	Low	None		
St. Hedwig	Municipality	12003004	Yes	Yes	Yes	No	Low	None		
Austwell	Municipality	12003103	Yes	Yes	Yes	No	Low	None		
Seadrift	Municipality	12003175	Yes	Yes	Yes	Yes	Moderate	None		
La Vernia	Municipality	12003180	Yes	Yes	Yes	Yes	Moderate	None		
Poth	Municipality	12003181	Yes	Yes	Yes	No	Low	None		
Stockdale	Municipality	12003182	Yes	Yes	Yes	No	Low	None		
Sandy Oaks	Municipality	12003220	No	No	No	No	None	None	No	
Garden Ridge	Municipality	00003235	Yes	Yes	Yes	No	Low	None		
Selma	Municipality	12003258	Yes	Yes	Yes	No	Low	None		
Santa Clara	Municipality	00003276	Yes	Yes	Yes	No	Low	None		
Von Ormy	Municipality	12003318	Yes	Yes	Yes	No	Low	Moderate	Yes	
San Antonio	Municipality	12003327	Yes	Yes	Yes	Yes	Strong	High	No	
Castroville	Municipality	12003377	Yes	Yes	Yes	Yes	Moderate	None		
Bandera	Municipality	12003414	Yes	Yes	Yes	Yes	Moderate	Moderate		
San Antonio River Authority	River Authority	00000282	Unknown	No	No	No	None	None		
Nueces River Authority	River Authority	00000290	Unknown	No	No	No	None	None		
Guadalupe-Blanco River Authority	River Authority	00000291	Unknown	No	No	No	None	None		
Upper Guadalupe River Authority	River Authority	00000297	Unknown	No	No	No	None	None		
Bexar-Medina-Atascosa Counties WCID 1	River Authority	00000299	Unknown	No	No	No	None	None		
Bandera County River Authority	Other	00000339	Unknown	No	No	No	None	None		
Alamo Area Council of Governments	Other	00000255	Unknown	No	No	No	None	None		
Coastal Bend Council of Governments	Other	00000260	Unknown	No	No	No	None	None		
Golden Crescent Regional Planning Commission	Other	00000264	Unknown	No	No	No	None	None		
Canyon Regional Water Authority	Other	00000392	Unknown	No	No	No	None	None		
Falcon Point WCID 1	Other	12000480	Unknown	No	No	No	None	None		
Escondido Watershed District	Other	00000519	Unknown	No	No	No	None	None		
Hondo Creek Watershed Improvement District	Other	00000526	Unknown	No	No	No	None	None		
West Side Calhoun County Navigation District	Other	00000538	Unknown	No	No	No	None	None		
Medina County WCID 1	Other	12000546	Unknown	No	No	No	None	None		
Victoria County Navigation District	Other	00000588	Unknown	No	No	No	None	None		
Wilson County FWSD 1 of Wilson County Texas	Other	12000592	Unknown	No	No	No	None	None		
Westside 211 Special Improvement District	Other	12000648	Unknown	No	No	No	None	None		
Refugio County WCID 2	Other	00000714	Unknown	No	No	No	None	None		
rosswinds at South Lake Special Improvement Distri	Other	12000731	Unknown	No	No	No	None	None		
Refugio County Navigation District	Other	00000758	Unknown	No	No	No	None	None		
Green Valley SUD	Other	00000821	Unknown	No	No	No	None	None		
Medina County FWSD 1	Other	12000874	Unknown	No	No	No	None	None		
Kendall County WCID 2	Other	00000936	Unknown	No	No	No	None	None		
Kendall County WCID 2A	Other	12000937	Unknown	No	No	No	None	None		
bolo Canyon Conservation and Improvement Distric	Other	12000959	Unknown	No	No	No	None	None		
Ecleto Creek Watershed District	Other	00001006	Unknown	No	No	No	None	None		
Refugio County WCID 1	Other	12001057	Unknown	No	No	No	None	None		
La Salle WCID 1-A	Other	12001130	Unknown	No	No	No	None	None		
La Salle WCID 1-B	Other	12001132	Unknown	No	No	No	None	None		
Lerin Hills MUD	Other	12001324	Unknown	No	No	No	None	None		
San Antonio MUD 1	Other	12001484	Unknown	No	No	No	None	None		
Cibolo Creek Municipal Authority	Other	00001485	Unknown	No	No	No	None	None		
Bexar County WCID 10	Other	12001486	Unknown	No	No	No	None	None		
Flying L PUD	Other	12001520	Unknown	No	No	No	None	None		
Bandera County FWSD 1	Other	12001521	Unknown	No	No	No	None	None		
Northeast Medina County WCID 1	Other	12001530	Unknown	No	No	No	None	None		
Johnson Ranch MUD	Other	12001578	Unknown	No	No	No	None	None		

Table 6. Existing Floodplain Management Practices

Entity	Type	Entity ID	Floodplain Management Regulations (Yes/ No/ Unknown)A	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)A	NFIP Participant (Yes/ No)A,D	Higher Standards Adopted (Yes/ No)B	Floodplain Management Practices (Strong/Moderate/ Low/None)B	Level of Enforcement of Practices (High/ Moderate/ Low/ None)B,C	Existing Stormwater or Drainage Fee (Yes/ No)B	Web Link to Entity Regulations
East Central SUD	Other	12001595	Unknown	No	No	No	None	None		
Refugio County Drainage District 1	Other	00001608	Unknown	No	No	No	None	None		
Espada Development District	Other	12001650	Unknown	No	No	No	None	None		
Port O'Connor MUD	Other	00001672	Unknown	No	No	No	None	None		
Comal County WCID 6	Other	00002121	Unknown	No	No	No	None	None		
Kendall County WCID 4	Other	12002226	Unknown	No	No	No	None	None		
Kendall County WCID 3	Other	12002367	Unknown	No	No	No	None	None		

A At a minimum, the RFPGs must list all counties, cities and districts in the region with flood related authority in the region and identify whether entity they have any established floodplain management practices.

B This field may be left blank during the 1st planning cycle. However, RFPGs are strongly encouraged to provide this information when applicable and available.

C The following may serve as a guide for evaluating enforcement:

high – actively enforces the entire ordinance, performs many inspections throughout construction process, issues fines, violations, and Section 1316s where appropriate, and enforces substantial damage and substantial improvement;
moderate – enforces much of the ordinance, performs limited inspections and is limited in issuance of fines and violations;
low – provides permitting of development in the floodplain, may not perform inspections, may not issue fines or violations;
none – does not enforce floodplain management regulations.

D Communities Participating in the National Flood Program- Texas, FEMA Community Status Book Report, May 15, 2021. FEMA NFIP Participation Book – TX 5-15-21.pdf

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000001	12	San Antonio	Track and document existing public outreach and education activities that improve awareness of flood hazards and benefits of flood planning, including nature based solutions, in the region and ensure there are at least 6 additional occurrences per year.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline and ensure a minimum number of occurrences.	Education and Outreach	
12000002	12	San Antonio	Increase to 12 per year and maintain and increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning including nature based solutions in the region.	Long Term (30 year)	2053	Entire RFPG		Number of activities.	Education and Outreach	
12000003	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 50% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions.	Short Term (10 year)	2033	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000004	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 100% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions.	Long Term (30 year)	2053	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000005	12	San Antonio	Support the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Short Term (10 year)	2033	Entire RFPG		Increase the number of NFIP communities by 25%.	Flood Warning and Readiness	12000009
12000006	12	San Antonio	Expand the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Long Term (30 year)	2053	Entire RFPG		Increase the number of NFIP communities too 100%.	Flood Warning and Readiness	12000010
12000007	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 25% of existing or at minimum 10.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of gages by 25% over 2022.	Flood Warning and Readiness	12000009
12000008	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 50% of existing.	Long Term (30 year)	2053	Entire RFPG		Increase the number of gages by 50% over 2022.	Flood Warning and Readiness	12000010
12000009	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Short Term (10 year)	2033	Entire RFPG		Increase by 40% of the NFIP communities.	Flood Warning and Readiness	12000007
12000010	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Long Term (30 year)	2053	Entire RFPG		Increase to 100% of the NFIP communities.	Flood Warning and Readiness	12000008

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000011	12	San Antonio	Establish a baseline and increase the number of NFIP communities which utilize Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 50% percent. (region specific)	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000012	12	San Antonio	Increase the number of NFIP communities which utilize/adopt Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 100%. (region specific)	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000013	12	San Antonio	Decrease the number of Zone X by 30% and increase the number of entities that conduct detailed studies to update their local flood risk by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000014	12	San Antonio	Increase the number of entities that conduct detailed studies to update their local flood risk to 100%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000015	12	San Antonio	Decrease the average age of FEMA Flood Insurance Rate Maps (NFHL/FIRMs/FIS) to less than 10 years.	Short Term (10 year)	2033	Entire RFPG		100% of maps.	Flood Studies and Analysis	
12000016	12	San Antonio	Establish a baseline number of existing studies and process for analyzing watersheds to identify existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline/ process and increasing the number of entities that use the process.	Flood Studies and Analysis	
12000017	12	San Antonio	Increase the number of participating Community Rating System (CRS) entities in the FPR by 5.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	12000018
12000018	12	San Antonio	Increase the number of participating entities within Community Rating System (CRS) in the FPR by 100% or improve their rating.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	12000017
12000019	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 10%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Prevention	
12000020	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 50%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000021	12	San Antonio	Increase the number of entities above the established baseline that have adopted a holistic watershed approach using existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements for flood risk reduction as a basis for comprehensive subdivision regulations.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	12000016
12000022	12	San Antonio	Establish a baseline and increase the number of acres of publicly protected open space by 10 % as part of land conservation and acquisitions to reduce future impacts of flooding.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of protected acres.	Non-Structural Flood Infrastructure Projects	12000016
12000023	12	San Antonio	Increase the number of restored acres of publicly protected open space land in the region.	Long Term (30 year)	2053	Entire RFPG		Number of restored acres.	Non-Structural Flood Infrastructure Projects	12000016
12000024	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000025	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 75%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000026	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 10%.	Short Term (10 year)	2033	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000027	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 50%.	Long Term (30 year)	2053	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000028	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 50%.	Short Term (10 year)	2033	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	
12000029	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 100%.	Long Term (30 year)	2053	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000030	12	San Antonio	Identify the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000031	12	San Antonio	Eliminate or mitigate the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Long Term (30 year)	2053	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000032	12	San Antonio	Increase the number of structural projects by 10% that include a NBS or Green Infrastructure (GI) component.	Short Term (10 year)	2033	Entire RFPG		Number of structural projects with NBS component.	Structural Flood Infrastructure Projects	
12000033	12	San Antonio	Increase the number of structural projects by 50% that include a NBS or Green Infrastructure (GI) component.	Long Term (30 year)	2053	Entire RFPG		Number of structural projects with NBS components.	Structural Flood Infrastructure Projects	

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000001	12	San Antonio	Study the San Antonio River, Ojo de Agua Creek and its tributaries	Install steam gauges and develop a study to identify solutions to flooding. Implement engineering findings to reduce and mitigate risks.	12000007,12000011,12000013,12000014	Karnes	12100303	121003030306,121003030404	12000016,12000023	Project Planning	1.18	Riverine, Urban,	12002757	00000095,00000255,00000282,00001006,12002757	No	250000		4	3	14	0	0	4	0.117	1.16386998			Y	Halff Identification Process
121000002	12	San Antonio	7820 Rolling Acres Trail	Low water crossing. Road closure gate is deployed at this crossing during large storm events.	12000033	Kendall	12100304	121003040103	12000063	Project Planning	0		12002436	00000017,00000255,00000291,12002436	No	290210.563		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000003	12	San Antonio	7900 Fair Oaks Parkway	Analysis needed to confirm no adverse impacts on the solution that was implemented.	12000011,12000013,12000014	Bexar	12100304	121003040103	12000063	Project Planning	0		12002436	00000007,00000255,00000282,12002436	No	60281.6523		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000004	12	San Antonio	Ammann Road Low Water Crossing	Low water crossing runs over the street due to insuff icient culverts that pass under Ammann Road. Replacing the current road with an elevated concrete bridge above the flood stage.	12000033	Kendall	12100304	121003040103	12000063	Project Planning	0		12002436	00000017,00000255,00000291	No	213657.5		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000005	12	San Antonio	7420 Rolling Acres Trail Low Water Crossing	Low Water crossing moves toward home on Meadow Creek Trail. Road Closure gate is deployed at this crossing during large storm events.	12000033	Kendall	12100304	121003040103	12000063	Project Planning	0	Riverine,	12002436	00000017,00000255,00000291,12002436	No	733169.938		1	0	11	0	0	0	0	0			Y	Halff Identification Process
121000006	12	San Antonio	8402 Battle Intense Low Water Crossing	Battle intense is often shut down in large rain events. Debris collects and damages this low water crossing	12000011,12000013,12000014	Bexar	12100304	121003040103	12000063	Project Planning	0	Riverine,	12002436	00000007,00000255,00000282,12002436	No	1105087		0	1	0	0	0	0	0	0			Y	Halff Identification Process
121000007	12	San Antonio	Battle Intense LWC Flow-activated Sensors	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road.	12000005	Bexar,Comal	12100304	121003040103	12000063	Project Planning	0	Riverine,	12002436	00000007,00000014,00000255,00000282,00000291,12002436	Yes	179792.25		0	0	0	0	1	1	0.25999999	0.03092			Y	Halff Identification Process
121000008	12	San Antonio	Rolling Acres Trail LWC Flow-activated Sensors	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road.	12000005	Kendall	12100304	121003040103	12000063	Project Planning	0.01	Riverine,	12002436	00000017,00000255,00000291,12002436	No	359584.5		0	0	0	0	0	2	0.28999999	0			Y	Halff Identification Process
121000012	12	San Antonio	Damage Center 1 (Stockdale Creek)	Stockdale Creek Stream Restoration with a natural channel design	12000029,12000030	Wilson	12100304	121003040401	12000060	Project Planning	0.02	Riverine,	12003182	00000100,00000255,00000282,12003182	Yes	3569335		0	0	0	0	3	4	0.13	0.105281			Y	Halff Identification Process
121000013	12	San Antonio	Karnes County Damage Centers Karnes A	Multiple structures at risk Within San Antonio River at US 181	12000011,12000013,12000014	Karnes	12100303	121003030202	12000030	Project Planning	0	Riverine,	12002974	00000095,00000255,00000282,12002974	No	4243043		0	0	0	0	0	1	0.03	0			Y	Halff Identification Process
121000015	12	San Antonio	Master Drainage Plan	A detailed drainage study of the city of Selma	12000011,12000013,12000014	Bexar,Guadalupe,Comal	12100304	121003040201,121003040202	12000066,12000069	Watershed Planning	5.02	Riverine, Urban,	12003258	00000007,00000010,00000014,00000255,00000282,00000291,00001485,12002512,00002671,12002967,12003258,12003327	Yes	577600		102	71	752	0	0	22	5.34000015	13.0146999			Y	Halff Identification Process
121000016	12	San Antonio	Antonio Drive Drainage Improvements	Bridge at Los Reyes Creek and Antonio Dr	12000029,12000030,12000033	Bexar	12100302	121003020404	12000103	Project Planning	0	Riverine,	12003002	00000007,00000255,00000282,12003002	No	150000		0	0	0	0	0	1	0.03	0			Y	Halff Identification Process
121000017	12	San Antonio	French Creek at Guilbeau Road NWWC	A basic trapezoidal channel with side slopes of 3:1, representing an earthen channel	12000029	Bexar	12100302	121003020402	12000078	Project Planning	0.1	Riverine,	12003327	00000007,00000255,00000282,12003327	No	3823238.5		27	26	234	0	0	5	0.63999999	0			Y	Halff Identification Process
121000018	12	San Antonio	Huebner Creek Flood Control Project Segment 1	The channel will be widened to 50" in front of Raymond Rimkus Park (6440 Evers Road) and then widened more from the park to the bridge.	12000029,12000030,12000033	Bexar	12100302	121003020405	12000104	Project Planning	0.07	Riverine,	12002511	00000007,00000255,00000282,12002511	Yes	22471310		12	5	28	1	0	3	0.09	0			Y	Halff Identification Process
121000019	12	San Antonio	DC19: Salado Creek Tributary B	Improvement on IH 10 culvert crossing to reduce peak flood stages upstream of IH 10 channel improvements downstream of IH 10 to prevent peak flood stage increase	12000029	Bexar	12100301	121003010105	12000002	Project Planning	0.06	Riverine,	12003327	00000007,00000255,00000282,12003327	No	5336253.5		65	65	172	0	0	8	0.92000002	0			Y	Halff Identification Process
121000020	12	San Antonio	LWC#41 Vance Jackson 200ft south of Scenic	Low Water Crossing needs Bridge/Culvert Improvements with possible advanced warning signals. Associated street reconstruction to include curbs, sidewalks, and driveway approaches be incorporated into the project.	12000029,12000033	Bexar	12100301	121003010201	12000008	Project Planning	0.01		12003327	00000007,00000255,00000282,12003327	Yes	283546		0	0	0	0	1	0	0	0			Y	Halff Identification Process
121000021	12	San Antonio	LWC 112.1 Pvt Rd. 300' North of Marbcah Rd.	Project consists of channel improvements and an outfall to Slick Creek to alleviate street flooding. Channel improvements include installing 10x4 MBC along the channel to improve flow at this portion of Slick Creek.	12000029	Bexar	12100302	121003020405	12000104	Project Planning	0.1		12003327	00000007,00000255,00000282,12003327	Yes	100000		0	0	0	0	3	0	0	0			Y	Halff Identification Process
121000022	12	San Antonio	LWC 100, Blakeley Area Drainage Improvement	This option consists of upsizing the Blakeley crossing to (3) 6'x3' RCB and providing a 7' bottom width concrete trap channel with 3:1 side slopes upstream of the crossing.	12000029	Bexar	12100301	121003010105	12000002	Project Planning	0	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	269346.063		5	5	8	0	1	1	0.051	0			Y	Halff Identification Process
121000023	12	San Antonio	LWC157 New Sulphur Springs Rd – East of Beck Rd	The proposed project will install 4-10' x 9' MBC at the LWC and reconstruct the portion of New Sulphur Springs Rd. affected by the culvert installation. The proposed street reconstruction will not include sidewalks or curbs.	12000029	Bexar	12100301	121003010302	12000009	Project Planning	0.01	Riverine,	12003327	00000007,00000255,00000282,00000392,12001595,12003327	Yes	340796.625		0	0	0	0	3	1	0.066	0.051726			Y	Halff Identification Process
121000024	12	San Antonio	LWC#156 New Sulphur Springs Rd – btwn S. Foster & Gardner	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length. The proposed bridge will span two streams at this location	12000029	Bexar	12100301	121003010302	12000009	Project Planning	0.01	Riverine,	12003327	00000007,00000255,00000282,00000392,12001595,12003327	Yes	2290161.25		0	0	0	0	1	1	0.09	0			Y	Halff Identification Process
121000025	12	San Antonio	LWC #159.1 Southton Rd	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length.	12000029	Bexar	12100301	121003010204	12000013	Project Planning	0.01	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	963772.063		0	0	0	0	1	1	0.033	0			Y	Halff Identification Process
121000026	12	San Antonio	LWC #34 Sleepy Hollow @ Sunburst	This project requires the placement culverts or a bridge to eliminate a low water crossing . Street Reconstruction includes driveway approaches, curbs, and sidewalks as required.	12000029,12000033	Bexar	12100301	121003010201	12000008	Project Planning	0.02	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	938002.688		1	1	2	0	1	2	0.13	0			Y	Halff Identification Process
121000027	12	San Antonio	Damage Center 43-Olmos Creek Middle Reach near DeZavala	The depth of flooding for the 100-year event ranges between 0.10 and 3.82 feet, therefore, buyouts do not appear to be a practical solution	12000025	Bexar	12100301	121003010201	12000008	Project Planning	0.26	Riverine,	12003327	00000007,00000255,00000282,12003000	No	8878636		9	9	18	0	0	1	0.073	0			Y	Halff Identification Process
121000028	12	San Antonio	Damage Center 4- Apache Creek	Majority of the flooding is caused by the undersized culverts downstream of West Woodlawn, providing addition of box culverts will provide adequate capacity to the existing storm drain system	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.14	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	8787565		116	115	366	0	1	11	1.15999997	0			Y	Halff Identification Process
121000029	12	San Antonio	Apache Creek & Elmendorf Lake Dam	The Elmendorf Lake Dam area is prone to flooding and will require an extensive drainage project to mitigate the floodplain. A Preliminary Engineering Report (PER) will need to be provided to assess a feasible solution	12000013	Bexar	12100301	121003010202	12000010	Watershed Planning	0.61	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	350000		470	410	1568	2	0	41	6.48000002	0.92471099			Y	Halff Identification Process
121000030	12	San Antonio	Cibolo Creek Tributary 19 Mapping Improvements	Alternative Anylsis and Project recommendation	12000011,12000013,12000014	Comal	12100304	121003040105,121003040104	12000061,12000064	Project Planning	0.82	Riverine,	00002669	00000014,00000255,00000291,00002121,00002669	No	100000		6	6	4	0	0	1	0.13	0			Y	Halff Identification Process
121000031	12	San Antonio	Indian Creek Mapping Improvements	Alternative Anylsis and Project recommendation	12000011,12000013,12000014	Comal	12100201,12100304	121003040104,121002010404,121002010401	12000064	Project Planning	13.08	Riverine,	00002669	00000014,00000255,00000291,00002669	Yes	100000		33	18	41	5	0	7	1	58.6540985			Y	Halff Identification Process
121000032	12	San Antonio	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030204,121003030202	12000027,12000030	Project Planning	0.91	Riverine, Urban,	12002974	00000095,00000255,00000282,12002974	No	50000		37	19	53	0	0	15	0.94999999	31.6249008			Y	Halff Identification Process
121000033	12	San Antonio	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting	12000021,12000022	Karnes	12100303	121003030401,121003030402,121003030403,121003030205,121003030206	12000020,12000021,12000022,12000034,12000037	Project Planning	2.31	Riverine,	00000095	00000095,00000255,00000282,00000519,12002756	No	100000		6	5	159	0	0	5	0.14	0.89692903			Y	HDR Identification Process
121000034	12	San Antonio	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030402	12000021	Project Planning	3.67	Riverine, Urban,	12002975	00000095,00000255,00000282,00000519,12002975	No	50000		42	24	59	0	0	21	0.43000001	13.1052999			Y	Halff Identification Process

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000035	12	San Antonio	Mitigate local flooding in identified problem areas	Identify problem flooding areas and implement a program to reduce loaclized flooding	12000011,12000013,12000014	Wilson	12100303	121003030204,121003030105	12000027,12000035	Project Planning	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	5000		69	50	100	0	6	25	1.54999995	11.5829			Y	Halff Identification Process
121000036	12	San Antonio	Develop and implement a Stormwater Management Plan for Stockdale Creek	Stockdale Creek, sa tributary of Clinton Branch which flows into Cibolo Creek, does not have sufficient capacity to contain floodwater as it flows through the center of Stockdale. The railroad on the east side of town used to act as a levee, but when it	12000013,12000014	Wilson	12100304	121003040401	12000060	Project Planning	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	No	1203488.63		73	44	102	0	7	22	1.75	3.18080997			Y	Halff Identification Process
121000037	12	San Antonio	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021,12000022	Karnes	12100303	121003030204,121003030202	12000027,12000030	Project Planning	0.91	Riverine, Urban,	12002974	00000095,00000255,00000282,12002974	No	100000		38	19	53	0	0	15	0.94999999	31.6249008			Y	HDR Identification Process
121000038	12	San Antonio	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030401,121003030402,121003030403,121003030205,12100303	12000020,12000021,12000022,12000034,12000037	Project Planning	2.31	Riverine,	00000095	00000095,00000255,00000282,00000519,12002756	No	50000		6	5	159	0	0	5	0.14	0.89692903			Y	Halff Identification Process
121000039	12	San Antonio	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021,12000022	Karnes	12100303	121003030306,121003030404	12000016,12000023	Project Planning	1.18	Riverine, Urban,	12002757	00000095,00000255,00000282,00001006,12002757	No	100000		4	1	14	0	0	4	0.116908	1.16386998			Y	HDR Identification Process
121000040	12	San Antonio	Install early warning systems	Conduct a feasibility study that evaluates the coverage area, property ownership and availability, power requirements, telemetry requirements, technology, cost, and other local considerations. Based on study findings, install an emergency warning systems	12000013,12000014	Wilson	12100303	121003030204,121003030105	12000027,12000035	Project Planning	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	100000		69	50	100	0	6	25	1.54999995	11.5829			Y	Halff Identification Process
121000041	12	San Antonio	Drainage Study Marcelinas Creek and its major tributary	Marcelinas Creek has a floodplain that runs through the center of the city. Install stream gauges and identify alternatives to mitigate flooding. Implement study findings.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	Project Planning	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	250726.813		69	50	100	0	6	25	1.54999995	11.5829			Y	Halff Identification Process
121000043	12	San Antonio	Drainage improvements to wastewater treatment plants	A drainage improvement was completed in 2018 with 2016 disaster relief funding. Internal plumbing was buried and the size of the weir box was increased. Funding and improvements are still needed to connect 2 and 3 and cross CR401 to increase discharge ca	12000029,12000030,12000033	Wilson	12100304	121003040401	12000060	Preparedness	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	852325.813		73	44	102	0	7	22	1.75	3.18080997			Y	Halff Identification Process
121000044	12	San Antonio	New Bridges on 6th and 8th Streets	New construction of waterway bridges on 6th and 8th Streets crossing Stockdale Creek. Lift elevation profile of the two bridges that provide access to critical facilities and services within the city as well as access from the City to the surrounding reg	12000029,12000030	Wilson	12100304	121003040401	12000060	Project Planning	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	651453.625		73	44	102	0	7	22	1.75	3.18080997			Y	Halff Identification Process
121000045	12	San Antonio	Detention/Retention pond on school property	Install a Detention/Retention pond and reservoir to store excess stormwater on school property along Fordtran Street	12000029,12000030	Wilson	12100304	121003040401	12000060	Project Planning	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	1604360.88		73	44	102	0	7	22	1.75	3.18080997			Y	Halff Identification Process
121000046	12	San Antonio	7840 Silver Spur Trail	Runoff collects from the northside of the city and passes this point before passing under Keeneland then to the Cibolo Creek Post Oak Creek low water crossing.	12000033	Kendall	12100304	121003040103	12000063	Project Planning	0		12002436	00000017,00000255,00000291,12002436	No	295351.406		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000047	12	San Antonio	8410 Noble Lark Dr	Regrade channel and install erosin control measures, repair the eroded foundation of the culvert headwall	12000029,12000030	Bexar	12100304	121003040103	12000063	Project Planning	0		12002436	00000007,00000255,00000282,12002436	No	165561.984		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000048	12	San Antonio	D/O Center A (Old Pearsall road at Medio Creek)	Old Pearsall Rd overtopping at Medio Creek Bridge and backwater conditions created from RailRoad Bridge DS Old pearsall rd	12000011,12000013,12000014	Bexar	12100302	121003020504	12000106	Project Planning	0.04	Riverine,	12003327	00000007,00000255,00000282,12003327	No	1959013.75		0	0	0	0	0	1	0.11	0			Y	Halff Identification Process
121000049	12	San Antonio	Damage Center 1 Project2A – Improved crossing at U.S. Highway 181	Creek crossing improvements on HWY 181. Ponding upstream to an elevation that inundates adjacent homes.	12000029,12000030	Wilson	12100303	121003030204	12000027	Project Planning	0	Riverine,	12003181	00000100,00000255,00000282,12003181	No	1928034.75		0	0	0	0	0	1	0.02	0			Y	Halff Identification Process
121000052	12	San Antonio	Damage Center 2 (South Tributary to Stockdale Creek)	Detention South Tributary to Stockdale Creek near the eastern city limit	12000029,12000030	Wilson	12100304	121003040401	12000060	Project Planning	0.03	Riverine,	12003182	00000100,00000255,00000282,12003182	No	660768.063		0	0	0	0	0	0	0	0.085733			Y	Halff Identification Process
121000053	12	San Antonio	Parrigin Road Drainage Improvements	Parrigin Road low water crossing at Helotes Creek Tributary A floods frequently, limiting access for nearby residences	12000011,12000013,12000014	Bexar	12100302	121003020404	12000103	Project Planning	0	Riverine,	12003002	00000007,00000255,00000282,12003002	No	295579.531		0	0	0	0	0	1	0.02	0			Y	Halff Identification Process
121000054	12	San Antonio	Detailed Study of Unnamed Trib 3 to Helotes Creek	Detailed hydrologic and hydraulic study is needed to determine appropriate drainage improvements.	12000011,12000013,12000014	Bexar	12100302	121003020404	12000103	Watershed Planning	0.02	Riverine,	12003002	00000007,00000255,00000282,12003327	Yes	40000		0	0	0	0	1	0	0	0			Y	Halff Identification Process
121000055	12	San Antonio	Detailed Study of Culebra Creek Trib C	Three low water crossings of Culebra Creek Tributary C, Beverly Hill Drive, Doheny at FM 1560, and FM 1560. A detailed hydrologic and hydraulic study is needed to determine appropriate drainage improvements	12000011,12000013,12000014	Bexar	12100302	121003020403	12000102	Watershed Planning	0.15	Riverine,	12003002	00000007,00000255,00000282,12003002	Yes	65000		0	0	0	0	1	3	0.28	0			Y	Halff Identification Process
121000056	12	San Antonio	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030306,121003030404	12000016,12000023	Project Planning	1.18	Riverine, Urban,	12002757	00000095,00000255,00000282,00001006,12002757	No	50000		4	3	14	0	0	4	0.117	1.16386998			Y	Halff Identification Process
121000057	12	San Antonio	French Creek RSWF	An on-channel RSWF provides approximately 150 acre-feet of storag	12000029	Bexar	12100302	121003020402	12000078	Project Planning	0.03	Riverine,	12003327	00000007,00000255,00000282,12003327	No	5975658.5		4	0	11	0	0	1	0.25	0			Y	Halff Identification Process
121000058	12	San Antonio	Culebra Creek Tributary A at Tezel Road Enhanced Conveyance	Increasing the flow area by widening the channel and increasing its side slope	12000029	Bexar	12100302	121003020404	12000103	Project Planning	0.18	Riverine,	12003327	00000007,00000255,00000282,12003327	No	3729220		99	99	344	0	0	19	0.88999999	0			Y	Halff Identification Process
121000059	12	San Antonio	Helotes Creek at Bandera Road Enhanced Conveyance	Channel modifications were designed as a basic trapezoidal channel with side slopes of 3:1.	12000029	Bexar	12100302	121003020404	12000103	Project Planning	0.18	Riverine,	12003327	00000007,00000255,00000282,12003002	No	907127.188		29	16	43	0	0	7	1.34000003	0			Y	Halff Identification Process
121000060	12	San Antonio	Helotes Creek RSWF	An off-channel RSWF provides approximately 3330 acres-ft oof storage.	12000029	Bexar	12100302	121003020404	12000103	Project Planning	0.42	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	5173548		28	16	141	0	2	5	0.57999998	0			Y	Halff Identification Process
121000061	12	San Antonio	Hubner Creek Flood Protection Barier	This project includes proposed Flood Protection Barrier between Ingram Road and Culebra Road	12000029	Bexar	12100302	121003020402,121003020404,121003020405	12000078,12000103,12000104	Project Planning	0.57	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	22480288		115	101	1059	0	1	10	1.86000001	1.12100005			Y	Halff Identification Process
121000062	12	San Antonio	Damage Center 5-Salado Creek Trib F	Approximately 4,487 feet of channel improvements as well as constructing two inline reservoirs.	12000029	Bexar	12100301	121003010104	12000004	Project Planning	0.96	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	7617754		54	27	243	0	3	9	1.23000002	0.73798299			Y	Halff Identification Process
121000063	12	San Antonio	Damage Center 3-Lorence Creek	Approximately 10,000 feet of channel improvement. The proposed drainage improvements reduces the occurrence of structural flooding in several areas along the banks of the creek.	12000029	Bexar	12100301	121003010103	12000005	Project Planning	0.72	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	2473246.75		65	59	181	0	2	16	0.61000001	0.222395			Y	Halff Identification Process
121000064	12	San Antonio	DC13/14: Walzem Creek	A proposed combination of regional detention and channel improvement to reduce flooding on Walzem Creek.	12000029	Bexar	12100301	121003010105	12000002	Project Planning	0.18	Riverine,	12003327	00000007,00000255,00000282,12001486,12002476,12003327	Yes	2034307.88		66	45	361	0	2	13	1.10000002	0			Y	Halff Identification Process

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000065	12	San Antonio	Damage Center 2- Martinez Creek	The downstream culvert system creates a backwater which will continue to affect properties near the inlet of that structure. Improved channelization and culvert/bridge replacement and voluntary property acquisition	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.24	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	12459064		165	163	491	0	0	25	3.4000001	0			Y	Halff Identification Process
121000068	12	San Antonio	Normoyle Ditch - Alt 1	Channel improvements are proposed from the Six Mile Creek outfall up to approximately 200 feet upstream of New Laredo Hwy. The project area was limited to the area south of Kelly AFB as the majority of habitable structures area	12000029,12000033	Bexar	12100302	121003020406	12000105	Project Planning	0.37		12003327	00000007,00000255,00000282,00000392,12003327	No	150000		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000069	12	San Antonio	LWC 42 Dreamland south of RR Xing	The project will consist of proposed Bridge crossing with +/- 6300 LF of total channel grading upstream and downstream and excavating to eliminate a low water crossing. Street reconstruction includes driveway approaches, curbs, and sidewalks as required	12000029,12000033	Bexar	12100301	121003010201	12000008	Project Planning	0.14	Riverine,	12003327	00000007,00000255,00000282,00000392,12002439,12003327	Yes	770000		17	17	44	0	1	6	0.5	0			Y	Halff Identification Process
121000070	12	San Antonio	LWC No 113-116 and Associated Channel Improvements	This project proposes to upgrade LWC 115 & 116 and construct an underground storm system on Military to tie into the existing earthen channel. The underground system will consist of 10' curb inlets, 6'x3' box culverts, 24"-42" (RCP),outfall structures	12000029	Bexar	12100302	121003020405	12000104	Project Planning	0.04		12003327	00000007,00000255,00000282,12003327	Yes	917273.938		0	0	0	0	3	0	0	0			Y	Halff Identification Process
121000071	12	San Antonio	LWC# 91 Weidner 500 ft N of Schertz	Construct a bridge on Weidner Rd. to pass a 100 yr storm to replace LWC# 91, to include curbs and sidewalks. This project will require channel excavation. This LWC is not within a FEMA floodplain.	12000029,12000033	Bexar	12100301	121003010104	12000004	Project Planning	0.01		12003327	00000007,00000255,00000282,12003327	No	699298.938		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000072	12	San Antonio	LWC #15 Copperhill Between Parkstone & Happy Hollow	Low Water Crossing #15 has approximately 128 acres of storm water that is conveyed through this crossing. This project proposes to construct an underground drainage system to assist in the conveyance of runoff crossing through this section	12000029	Bexar	12100301	121003010103	12000005	Project Planning	0		12003327	00000007,00000255,00000282,12003327	Yes	238773.328		0	0	0	0	1	0	0	0			Y	Halff Identification Process
121000073	12	San Antonio	LWC #13 West Ave. @ Interpark	Since approximately 2006, residents have complained about flooding within a low point on West Ave. Approximately 173 acres drains through this area. This project will construct an underground drainage system with an earthen channel	12000029	Bexar	12100301	121003010102	12000001	Project Planning	0		12003327	00000007,00000255,00000282,12003327	Yes	1374680		0	0	0	0	1	0	0	0			Y	Halff Identification Process
121000074	12	San Antonio	New Sulphur Springs – East of Lodi Rd	This project will install a cross arm/barricade at the LWC. Construction of a bridge or culvertinstallation	12000029,12000033	Bexar	12100301	121003010302	12000009	Project Planning	0.03	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	Yes	430557.781		3	3	12	0	1	1	0.098	0			Y	Halff Identification Process
121000075	12	San Antonio	LWC #71 Danville and Overbrook	This project requires the replacement of existing low water crossing on Danville with an upgraded culvert (2-10'X10' MBC) or bridge to eliminate a low water crossing with some channel modifications upstream and downstream of the crossing	12000029,12000033	Bexar	12100301	121003010202	12000010	Project Planning	0.01	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	2890500		0	0	0	0	1	2	0.15000001	0			Y	Halff Identification Process
121000076	12	San Antonio	LWC#72 Spencer Lane, east of Balcones Rd.	During a rain storm event, storm water runoff from the East Woodlawn Ditch overtops the road. This project proposes the construction of a culvert crossing to include an associated energy dissipation system, headwall, and outfall structures.	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	487969.594		0	0	0	0	1	1	0.07	0			Y	Halff Identification Process
121000077	12	San Antonio	Mahncke Park Outfall	To convey the 100-yr ultimate development and relieve the current backwater conditions. This project proposes drainage improvement to watershed SA4.To reduce clogging and increase effciency.	12000029	Bexar	12100301	121003010201	12000008	Watershed Planning	0.08	Riverine,	12003327	00000007,00000255,00000282,12003327	No	1526935.63		16	14	53	0	0	5	0.23999999	0			Y	Halff Identification Process
121000079	12	San Antonio	Damage Center 40-San Antonio River DS Reach near Roosevelt	Three lots have 100-year flood depths greater than 2 feet and were therefore not considered for flood-proofing. Due to its location between parks,it appears reasonable to be buyout the flooed properties and continue the park	12000025	Bexar	12100301	121003010203	12000011	Project Planning	0.31	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	250000		73	52	892	0	1	9	0.94999999	0			Y	Halff Identification Process
121000081	12	San Antonio	Damage Center 38-Olmos Creek Lower Reach Near Montview	Flooding occurs on the left overbank and begins just upstream of Montview. A total of 10 lots are impacted by the 100-year storm event and the depth of flooding ranges between 0.10 and 0.15 feet.Flood depths are less than 0.5 feet; therefore	12000029	Bexar	12100301	121003010201	12000008	Project Planning	0.05	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	No	250000		8	8	51	0	0	3	0.389	0			Y	Halff Identification Process
121000082	12	San Antonio	Damage Center 3-Zarzamora Creek	The proposed earthen channel would begin upstream of the pedestrian bridge and end approximately 780 feet downstream of Ingram Road	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.55	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	32730102		62	60	223	1	1	21	1.89999998	0.067383			Y	Halff Identification Process
121000083	12	San Antonio	Damage Center 6- Martinez Creek	Voluntary Property Acquisition is the only option that would be recommended under current regulatory and funding scenarios	12000025	Bexar	12100301	121003010202	12000010	Project Planning	0.66	Riverine,	12003327	00000007,00000255,00000282,12003327	No	40552312		427	361	1043	0	0	29	8.39999962	0			Y	Halff Identification Process
121000084	12	San Antonio	Damage Center 7-Zarzamora Creek	Based on the value of the homes within this damage center, VPAs appear to be a practical option that may be well received	12000025	Bexar	12100301	121003010202	12000010	Project Planning	0.51	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	14775610		259	249	729	10	0	27	3.70000005	0.44479001			Y	Halff Identification Process
121000085	12	San Antonio	Damage Center 9- Alazan Creek	severe flooding upstream of South Colorado Street, where the majority of the buildings flood during the 10&50 yr. Channel improvments	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.36	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	19406184		237	168	615	1	0	37	3.9000001	0.079213			Y	Halff Identification Process
121000086	12	San Antonio	Damage Center 14- Airport Trib	There are four bridges within this Damage Center, of which all overtop during the 1% AC storm event. Voluntary Acquisition of 79 residential propoerties that are compromised	12000025	Bexar	12100301	121003010104,121003010201	12000004,12000008	Project Planning	0.35	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	250000		85	62	553	1	0	11	1.5	0			Y	Halff Identification Process
121000087	12	San Antonio	Damage Center 19- San Pedro Creek	A lateral detention project is recommended to reduce the Camaron Street spill which will also provide some minor relief to the storm sewer surcharges at West Elmira Street, Cadwallader Street, Marshall Street, and Hill Street	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.11	Riverine,	12003327	00000007,00000255,00000282,12003327	No	8615588		33	13	275	0	0	14	1.41999996	0			Y	Halff Identification Process
121000088	12	San Antonio	Damage Center 20-Matinez Creek	Lateral detention is a viable alternative for this project and could be used in conjunction with VPA, and reduced channelization, to meet the desired outcomes of multi-use functionality and flood reduction.	12000029	Bexar	12100301	121003010202	12000010	Project Planning	0.26	Riverine,	12003327	00000007,00000255,00000282,12003327	No	22251474		202	192	593	0	0	26	2.73000002	0			Y	Halff Identification Process
121000089	12	San Antonio	Damage Center 23-New Braunfels, Austin Hwy, Broadway Drain	Reduce regional flooding and remove secure safe passage during 100 yr event. Utilizes a combined regional and local trunkline of 4'x4' and new outfall near Patterson Avenue.	12000029	Bexar	12100301	121003010201	12000008	Project Planning	0.88	Riverine,	12003327	00000007,00000255,00000282,12002437,12002475,12003327	No	23560934		127	70	1413	0	0	44	5.4000001	0			Y	Halff Identification Process
121000090	12	San Antonio	Damage Center 32-Six Mile Creek	the proposed pond would have a direct impact on the flow in Normoyle Ditch, it is recommended that the required drainage structures be r.eanalyzed	12000013,12000014	Bexar	12100301	121003010203	12000011	Watershed Planning	0.56	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	Yes	9392589		0	0	0	0	0	1	0.15000001	0			Y	Halff Identification Process
121000091	12	San Antonio	Damage Center 34-State Hospital Creek	the channelization project will have to be constructed to remove all structures from the 1% annual chance storm event floodplain	12000029	Bexar	12100301	121003010203	12000011	Project Planning	0.26	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	2005668.38		54	54	139	0	1	8	1.13999999	0			Y	Halff Identification Process
121000092	12	San Antonio	LWC at Ammann Rd and Post Oak Creek	Improve the low water crossing at Ammann Road and Post Oak Creek	12000029	Kendall	12100304	121003040103	12000063	Project Planning	0.09	Riverine,	00000017	00000017,00000255,00000291	No	100000		0	0	0	0	0	1	0.04	0			Y	Halff Identification Process
121000094	12	San Antonio	Damage Center 31-Rockwood Creek	Limits of the effective DFIRM model are incorrect based on the DFIRM hydrology if the hydrology is re-evaluated to take into account the limiting factor of the storm drain system, the actual flow to Rockwood	12000029	Bexar	12100301	121003010203	12000011	Watershed Planning	0.15	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	150000		123	111	297	2	0	10	0.77999997	0			Y	Halff Identification Process

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000095	12	San Antonio	FM 1863 at Cibolo Creek LWC	Replace low water crossings at two locations(US &DS) where FM1863 crossing Cibolo Creek with bridges.	12000030	Bexar, Comal	12100304	121003040201	12000066	Project Planning	0.06	Riverine,	00000007	00000007,00000014,00000255,00000282,00000291,00002669	Yes	150000		1	1	3	0	2	1	0.81	0.54746699			Y	Halff Identification Process
121000096	12	San Antonio	Install pipe gates to close off streets	Install automated systems at low-water crossings with high rate of vehicular access resulting in frequency of accidents and loss of life.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	Preparedness	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	Yes	250000		69	50	100	0	6	25	1.54999995	11.5829			Y	Halff Identification Process
121000097	12	San Antonio	LWC# 101 Rittiman Creek @ Gibbs Sprawl	This proposed planning study adds culverts at the railroad crossing, upgrades the earthen channel in the park from the westerly property line to Rittiman road, and installation of larger box culverts at the Gibbs Sprawl LWC which requires Gibbs Sprawl	12000029	Bexar	12100301	121003010106	12000007	Project Planning	0.12	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	Yes	3994964.75		64	63	181	0	1	6	0.88	0			Y	Halff Identification Process
121000098	12	San Antonio	Maintain Drainage System	Improve storm water drainage within residential and commercial areas by removing brush and debris,opening and widening waterways, restricting building in the flood zone, and widening bridges. Status or project was 90% complete in 2012 plan awaiting purch	12000029,12000030,12000033	Wilson	12100304	121003040401	12000060	Project Planning	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	2073414.5		73	44	102	0	7	22	1.75	3.18080997			Y	Halff Identification Process
121000099	12	San Antonio	Upper Martinez Creek Improvements	Improvements to already channelized section of Martinez Creek (Cibolo Watershed) from Montgomery Dr to Walzem Rd and bridge improvements at Gibbs Sprawl Road	12000029	Bexar	12100304	121003040205	12000071	Project Planning	0.02	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	No	1673872.13		18	18	51	0	0	1	0.004	0			Y	Halff Identification Process
121000100	12	San Antonio	Recommend for Wilson Roadways - Project 4 - Mariana Rd & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	Project Planning	0	Riverine,	00000100	00000100,00000255,00000282	Yes	100000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000101	12	San Antonio	Recommend for Wilson Roadways - Project 5 - CR 108 & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	Project Planning	0	Riverine,	00000100	00000100,00000255,00000282,00000290	Yes	100000		0	0	0	0	0	1	0.01	0			Y	HDR Identification Process
121000102	12	San Antonio	Erosion at CR 401 and Cibolo Creek	Phase I: Engineering study of design solutions to erosion of CR 401 at Cibolo Creek.Phase II: Implementation of stabilization project to address stream incision and erosion CR 401 at Cibolo Creek.	12000034	Wilson	12100304	121003040401	12000060	Project Planning	0	Riverine,	00000100	00000100,00000255,00000282	Yes	100000		0	0	0	0	0	1	0.07	0			Y	HDR Identification Process
121000103	12	San Antonio	Erosion on CR 202 East and Marcelina Creek	Phase I: Engineering study of design solutions to erosion of CR 202 at Marcelina Creek. Phase II: Implementation of stabilization project to address stream incision and erosion CR 202 at Marcelina	12000030	Wilson	12100303	121003030204	12000027	Project Planning	0	Riverine,	00000100	00000100,00000255,00000282	Yes	100000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000105	12	San Antonio	Flat Creek Study	Update details on both current and expected ultimate watershed build-oit conditions, Identify at-risk infrastructure and detail oppurtunities for flood reduction, and provide mitigation plans with regard to risk due to delevopment.	12000014	Medina	12100302	121003020501,121003020502	12000081,12000107	Watershed Planning	5.8	Riverine,	12003377	00000005,00000255,12003377	Yes	500000		44	41	29	0	0	3	1.07000005	298.279999			Y	HDR Identification Process
121000106	12	San Antonio	Goliad Damage Center A	Vegetated swales along Bungalow Ave and N San Patricio St	12000032,12000012	Goliad	12100303	121003030604	12000049	Project Planning	0.01	Riverine,	00000090	00000090,00000264,00000282,12002986	No	50000		3	2	4	0	0	2	0.05	0			Y	HDR Identification Process
121000107	12	San Antonio	Goliad Damage Center B	Construct dam north of W. Ward St	12000026,12000012	Goliad	12100303	121003030604	12000049	Project Planning	0.02	Urban,	00000090	00000090,00000264,00000282	No	100000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000108	12	San Antonio	Kempf Creek Watershed Study	H&H Study. Alternatives analysis for regional flood conveyance systems. Project identification and recommendations.	12000014	Medina	12100302	121003020501	12000081	Watershed Planning	4.87	Riverine,	12003377	00000005,00000255	Yes	150000		32	18	20	0	0	6	2.24000001	697.672974			Y	HDR Identification Process
121000109	12	San Antonio	Lower Basin Predictive Flood Model	Lower Basin Predictive Flood Model	12000012	De Witt,Wilson,Bexar,Guadalupe,Refugio,Calhoun,Goliad,Victoria,Karnes	12100202,12100301,12100303,12100304,12110110			Watershed Planning	1481.11	Riverine, Coastal, Urban,	00000282	00000005,00000255	Yes	1000000		1068	537	790	0	0	1774	135.070007	31301.3008			Y	HDR Identification Process
121000110	12	San Antonio	Culvert improvement on Hatch St in Tivoli	The bridge on Hatch Street in Tivoli was replaced with a culvert which drains slow and causes the water to breach the levee. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	Project Planning	0	Urban,	Tivoli Community	00000084,00000260,00000291,00000758,12001057,00001608	No	150000		0	0	0	0	0	2	0	0			Y	HDR Identification Process
121000111	12	San Antonio	Culvert Improvement on Highway 239 in Tivoli	Culverts on Highway 239 in Tivoli are too small causing water to get in houses. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	Project Planning	0	Riverine, Urban,	Tivoli Community	00000084,00000260,00000291,00000758,12001057,00001608	No	150000		0	0	0	0	0	2	0.01	0			Y	HDR Identification Process
121000112	12	San Antonio	Miller Creek on the Smoky Creek Ranch Drainage Improvements	Miller Creek on the Smoky Creek Ranch drains Tivoli and the surrounding area which is washing out property where Indian artifacts were found. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	Project Planning	0.01	Riverine, Coastal,	Tivoli Community	00000084,00000260,00000291,00000714,00000758,00001608	No	150000		0	0	0	0	0	0	0	0.003007			Y	HDR Identification Process
121000113	12	San Antonio	New Drainage Analysis to Update/Revise Flood Maps	This action proposes performing a new drainage analysis for the community to update/revise Flood Maps to better identify areas subject to this Hazard; last study completed in September 1977.	12000014	Medina	12100302	121003020501,121003020503	12000081,12000108	Watershed Planning	0.63	Riverine,	12002954	00000005,00000255,12002954	Yes	100000		170	133	263	0	0	23	4.21999979	1.40019			Y	HDR Identification Process
121000114	12	San Antonio	Low Water Crossing Upgrades	Prioritize low water crossings within Karnes County and upgrade with higher level of flood protection, warnings, and signage	12000014,12000007	Atascosa,De Witt,Wilson,Goliad,Karnes	12100202,12100303,12100304,12110110		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Watershed Planning	749.22	Riverine, Urban,	00000095	00000095,00000096,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	No	305000		340	161	422	0	0	757	58.7999992	16557.1992			Y	HDR Identification Process
121000116	12	San Antonio	Recommend for Wilson Roadways-Project 3-CR 122 & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	Project Planning	0	Riverine,	00000100	00000100,00000255,00000282	Yes	100000		0	0	0	0	0	1	0.12	0			Y	HDR Identification Process
121000118	12	San Antonio	La Vernia Issue # 5 (Hwy 87 crossing and CR 342)	Study to assess city acquiring drainage easements in the area upstream of the Highway 87 crossings, as well as the area between the crossings at Highway 87 and the crossing at CR 342 for the purpose of constructing a channel.	12000016	Wilson	12100304	121003040302	12000056	Project Planning	0.03	Riverine,	12003180	00000100,00000255,00000282,00000392,12003180	No	150000		0	0	0	0	0	0	0.01	1.99131			Y	HDR Identification Process
121000119	12	San Antonio	La Vernia Issue # 2 and # 3 (City Park/ La Vernia ISD)	Study to assess 6'-wide concrete-bottom channel/sidewalk with earthen sides (graded 5:1) be constructed through this area to better define the flow path. Gauge boards on San Antonio Road. Aquire 25'-wide drainage easements.	12000013,12000032	Wilson	12100304	121003040302	12000056	Project Planning	0.07	Riverine,	12003180	00000100,00000255,00000282,00000392,12003180	Yes	150000		2	1	14	0	0	3	0.31	0			Y	HDR Identification Process
121000120	12	San Antonio	Escondidio Creek WS SCS Site 1, 2, 4 Dam	Rehabilitation of Escondido Creek 1,2, and 4 to ensure passage of the PMF.	12000030	Karnes	12100303	121003030402	12000021	Project Planning	0.13	Riverine,	00000282	00000095,00000255,00000282,00000519	No	300000		0	0	0	0	0	0	0	1.01918006			Y	HDR Identification Process
121000121	12	San Antonio	Wilson County LWC Study	Study to evaluate the LWC in Wilson County and recommend alternatives both short term and long term alternatives. Some short term alternatives could include Low Water Signage, Turn Around Don't Drown, automatic gates. 195 LWC in Wilson County.	12000030	Atascosa,Wilson,Bexar,Guadalupe,Karnes	12100202,12100301,12100303,12100304,12110110		12000006,12000012,12000027,12000028,12000029,12000030,12000031,12000032,12000033,12000034,12000035,12000036,12000038,12000039,12000040,12000041,12000052,12000053,12000054,12000056,12000057,12000059,12000060,12000065,12000070,12000072	Watershed Planning	805.06	Riverine, Urban,	00000100	00000007,00000010,00000095,00000096,00000100,00000255,00000264,00000282,00000290,00000291,00000392,12000592,00001006,12001595,12002442,12002925,00002973,12003180,12003181,12003182	Yes	300000		1469	1073	1849	0	0	1646	89.0599976	14071.4004			Y	HDR Identification Process

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000123	12	San Antonio	City of Floresville Flood Study	City wide study	12000013	Wilson	12100303	121003030102,121003030103	12000028,12000033	Watershed Planning	7.7	Riverine, Urban,	12002925	00000100,00000255,00000282,12000592,12002925	No	100000		107	63	161	0	0	26	3.80999994	80.7819977			Y	HDR Identification Process
121000124	12	San Antonio	Highway 16 Bridge Upgrade	Closes the road down which is the main access for citizens. Study to upgrade crossing.	12000030	Bandera	12100302	121003020203,121003020204	12000088,12000089	Project Planning	0.05	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		1	0	0	0	1	2	0.30000001	0.116283			Y	HDR Identification Process
121000125	12	San Antonio	Bandera State Highway 173 Study	Prevents access to citizens from the city. Study to upgrade crossing.	12000030	Bandera	12100302	121003020204	12000089	Project Planning	0.01	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		0	0	0	0	0	1	0.04	0			Y	HDR Identification Process
121000126	12	San Antonio	Bandera English Crossing Study	This low water crossing can sometimes remain flooded for months. Study to upgrade road.	12000030	Bandera	12100302	121003020302	12000097	Project Planning	0.07	Riverine,	00000011	00000011,00000255,00000339	Yes	100000		0	0	0	0	0	1	0.34999999	0.44479001			Y	HDR Identification Process
121000127	12	San Antonio	Bandera FM 2107 Study	FM 2107 is the only path for residents to access community lifelines.FM 2107 is the only path for residents to access community lifelines. Study to upgrade road.	12000030	Bandera	12100302	121003020103	12000082	Project Planning	0.14	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		1	0	2	0	0	2	0.60000002	0.469868			Y	HDR Identification Process
121000128	12	San Antonio	Bandera Patterson Street Study	Impairs travel for citizens to reach community lifeline services. Study to upgrade road.	12000030	Bandera	12100302	121003020201	12000087	Project Planning	0.01	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		1	1	0	0	0	1	0.15000001	0.219705			Y	HDR Identification Process
121000129	12	San Antonio	Bandera Lower Mason Creek and Bandera Creek at State Highway 16	Lower Mason Creek and Bandera Creek contribute to flooding at SH 16. Study to upgrade road.	12000030	Bandera	12100302	121003020204	12000089	Project Planning	0.01	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		4	4	3	0	0	1	0.15000001	0			Y	HDR Identification Process
121000130	12	San Antonio	Bandera WWTP Study	Wastewater treatment plant is in 100 yr floodplain. Study to find solutions.	12000028	Bandera	12100302	121003020203	12000088	Project Planning	0.03	Riverine,	00000011	00000011,00000255,00000339,12003414	Yes	150000		2	2	0	0	0	2	0.01	0.79224199			Y	HDR Identification Process
121000131	12	San Antonio	Bandera 470 and Indian Creek Study	Blocks public access to lifelines in Bandera. Study to upgrade road.	12000030	Bandera	12100302	121003020203	12000088	Project Planning	0.02	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		0	0	0	0	0	2	0.15000001	0			Y	HDR Identification Process
121000132	12	San Antonio	Bandera 470 and Medina River Study	Blocks people of Tarpley from EMS and other lifelines in the city of Bandera. Study to upgrade road.	12000030	Bandera	12100302	121003020203	12000088	Project Planning	0.01	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		0	0	0	0	0	1	0.47	0			Y	HDR Identification Process
121000133	12	San Antonio	Natural capital inventory	Development of a dataset identifying lands under conservation easement. Project includes courthouse and deed records research to identify lands that are protected or have future development restrictions.	12000014	Atascosa,DeWitt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201,12100202,12100301,12100303,12100304,12110110,12100302			Watershed Planning	4409.74	Riverine, Coastal, Urban,	00000282	00000011,00000255,00000339	No	300000		19145	13704	66191	0	0	9511	753.049988	62646.1016			Y	HDR Identification Process
121000134	12	San Antonio	Evaluation and prioritization of new gauge locations	Study to identify stream gage locations in the San Antonio River Basin and cost effective/resilient monitoring technologies.	12000014	Atascosa,DeWitt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201,12100202,12100301,12100303,12100304,12110110,12100302			Watershed Planning	4409.74	Riverine, Coastal, Urban,	00000282	00000011,00000255,00000339	Yes	50000		19145	13704	66191	0	0	9511	753.049988	62646.1016			Y	HDR Identification Process
121000135	12	San Antonio	Future conditions data refinement study	Future conditions data refinement study,study future landuse and apply to future models	12000013	Atascosa,DeWitt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201,12100202,12100301,12100303,12100304,12110110,12100302			Watershed Planning	4409.74	Riverine, Coastal, Urban,	00000282	00000011,00000255,00000339	No	500000		19145	13704	66191	0	0	9511	753.049988	62646.1016			Y	HDR Identification Process
121000136	12	San Antonio	Port of San Antonio Floodproofing	Port SA, site specific, study flood mitigation for critial structures	12000028	Bexar	12100302	121003020406	12000105	Project Planning	0.03		00000282	00000007,00000255,00000282,12003327	Yes	250000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000137	12	San Antonio	River Authority WWTP Resilience	Study of all River Authority WWTP Resilience, finding alternatives for floodproofing	12000028	Atascosa,DeWitt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201,12100202,12100301,12100303,12100304,12110110,12100302			Project Planning	4409.74	Riverine, Coastal, Urban,	00000282	00000007,00000255,00000282,12003327	Yes	600000		19145	13704	66191	0	0	9511	753.049988	62646.1016			Y	HDR Identification Process
121000138	12	San Antonio	Bandera Substation In Floodplain Study	Electrical sub-station is in 100 yr floodplain. Study to find solutions.	12000028	Bexar	12100302	121003020405	12000104	Project Planning	0	Riverine,	00000011	00000011,00000255,00000339	Yes	150000		0	0	0	0	0	0	0	0.176359			Y	HDR Identification Process
121000139	12	San Antonio	Garcia Creek Channel Stabilization	Preliminary Engineering to identify stabilization methods and sizing.	12000030	Medina	12100302	121003020501	12000081	Project Planning	0.02	Riverine,	12003377	00000005,00000255,12003377	No	50000		0	0	0	0	0	2	0.06139042	0.09239171			Y	HDR Identification Process
121000140	12	San Antonio	Country Village Channel Improvements	Preliminary Engineering including an H&H study to size the channel improvements	12000030	Medina	12100302	121003020501	12000081	Project Planning	0.11		12003377	00000005,00000255,12003377	No	50000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000141	12	San Antonio	Lucas Creek at Cinco De Mayo Dr Bridge and Channel (DC-MRD)	Regional detention, channel improvements, and bridge/culvert upgrades, property acquisition	12000031	Bexar	12100302	121003020502,121003020503	12000107,12000108	Project Planning	0.97	Riverine,	00000005	00000007,00000255,00000282,00000392	Yes	150000		94	63	100	0	0	13	2.54999995	7.99344587			Y	HDR Identification Process
121000142	12	San Antonio	Cagnon Rd at Polecat Creek (DC-MRN)	Replace the existing crossing with an approximately 320-foot long bridge.	12000031	Bexar	12100302	121003020503	12000108	Project Planning	0.04	Riverine,	00000005	00000007,00000255,00000282,00000392	Yes	150000		1	0	2	0	0	0	0	0			Y	HDR Identification Process
121000143	12	San Antonio	Trumbo Rd at Palo Blanco Creek (DC-MRP)	Upgrades to Trumbo Rd and Loop 1604 crossings at Palo Blanco Creek with channel work.	12000031	Bexar	12100302	121003020509	12000094	Project Planning	0.25	Riverine,	00000005	00000007,00000255,00000282,00000290,00000392	Yes	100000		13	9	39	0	0	2	0.34999999	0.27402401			Y	HDR Identification Process
121000144	12	San Antonio	Wet-Proof Wastewater System	This action proposes "wet-proofing" city sewer lines to the Wastewater Treatment Plant	12000028	Medina	12100302	121003020501,121003020503	12000081,12000108	Project Planning	0.63	Riverine,	12002954	00000005,00000255,12002954	Yes	50000		170	133	263	0	0	24	4.21999979	1.40019			Y	HDR Identification Process
121000146	12	San Antonio	Additional flood proof at wastewater treatment plant	Study to evaluate removing the WWTP from flood and erosion risk	12000028	Wilson	12100304	121003040302	12000056	Project Planning	0.02	Riverine,	12003180	00000100,00000255,00000282,00000392,12003180	Yes	150000		5	5	9	0	0	2	0.14	2.0121901			Y	HDR Identification Process
121000147	12	San Antonio	Recommend for Wilson Roadways - Project 7 - CR 119 & Mariana Creek	Study: Upgrade bridge so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	Project Planning	0	Riverine,	00000011	00000100,00000255,00000282	Yes	100000		0	0	0	0	0	1	0.04	0			Y	HDR Identification Process
121000148	12	San Antonio	Property acquisition and demolition and/or relocations	Property acquisition and demolition and/or relocations	12000022	Wilson	12100303	121003030102,121003030103	12000028,12000033	Project Planning	7.7	Riverine, Urban,	12002925	00000100,00000255,00000282,12000592,12002925	No	1500000		107	63	161	0	0	26	3.80999994	80.7819977			Y	HDR Identification Process
121000149	12	San Antonio	Damage Center 2: Project 1 Channelization	The channelization project would add 8 feet to the left bank of the channel, and the depth would be kept at its existing elevation. The project would remove two structures adjacent to the stream from the floodplain.	12000026	Wilson	12100303	121003030103	12000033	Project Planning	0	Riverine,	12002925	00000100,00000255,00000282,12002925	No	100000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000151	12	San Antonio	Repetitive loss properties	Offer relocation/mitigation incentives to current flood hazard area property owners; initiate a community program to acquire repetitive loss structures identified by FEMA.	12000024	Wilson	12100304	121003040304,121003040302	12000053,12000056	Project Planning	1.72	Riverine, Urban,	12003180	00000100,00000255,00000282,00000392,12001595,12003180	Yes	150000		153	101	568	0	0	20	3.6400001	63.2599983			Y	HDR Identification Process
121000152	12	San Antonio	Nichols Creek Stabilization	Restoration of Nichols Creek to improve stream function including conveyance of flow and sediment.	12000026	Karnes	12100303	121003030402	12000021	Project Planning	0.02	Riverine,	00000282	00000095,00000255,00000282,00000519,12002975	No	1000000		0	0	0	0	0	1	0.01	0.1015			Y	HDR Identification Process

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000153	12	San Antonio	Master Drainage Plan for Bexar County Unincorporated Areas	Engineering master plan to assess flood damage centers for Bexar County unincorporated areas.	12000024	Atascosa,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall	12100301,12100303,12100304,12110110,12100302			Watershed Planning	1253.25	Riverine, Urban,	00000007	00000095,00000255,00000282,00000519,12002975	No	150000		11261	8306	52002	0	0	4535	353.029999	7583.35986			Y	HDR Identification Process
121000154	12	San Antonio	Master Drainage Plan for Bexar County HALT Low Water	Engineering master plan to assess existing HALT sites for drainage improvements.	12000024	Atascosa,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall	12100301,12100303,12100304,12110110,12100302			Watershed Planning	1253.25	Riverine, Urban,	00000007	00000095,00000255,00000282,00000519,12002975	No	150000		11261	8306	52002	0	0	4535	353.029999	7583.35986			Y	HDR Identification Process
121000155	12	San Antonio	Culebra Creek RSWF	Engineering study to evaluate the Culebra Creek RSWF under the revised Green & Ampt hydrology.	12000030	Bexar	12100302	121003020402,121003020403,121003020404,121003020405	12000078,12000102,12000103,12000104	Project Planning	0.36	Riverine,	00000007	00000007,00000255,00000282,00000392,12001484,12003327	Yes	50000		1	0	2	0	0	9	0.5	0.202686			Y	HDR Identification Process
121000157	12	San Antonio	Rockwood Creek (SA-39)	Engineering study to assess the removal of properties and residential structures from the 100-Yr flood plain along Rockwood Creek upstream of the San Antonio River and River Side Golf Course.	12000026	Bexar	12100301	121003010203	12000011	Project Planning	0.13	Riverine,	00000007	00000007,00000255,00000282,12003327	Yes	100000		120	108	293	0	0	10	0.76999998	0			Y	HDR Identification Process
121000158	12	San Antonio	Live Oak at Salitrillo Creek (CB-9)	Engineering study to assess removal of residential structures from the Salitrillo Creek 100-Yr flood plain upstream of Martinez Creek Dam No. 5.	12000027	Bexar	12100304	121003040205	12000071	Project Planning	0.78	Riverine,	00000007	00000007,00000255,00000282,12002512,12002967	Yes	250000		40	36	94	0	0	15	0.88048929	1.68083382			Y	HDR Identification Process
121000160	12	San Antonio	Update flood information and policies	Study to compile information on residential property in flood zones, establish a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process based on the 100-year flood event	12000030	Atascosa,De Witt,Wilson,Goliad,Karnes	12100202,12100303,12100304,12110110		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Project Planning	749.22	Riverine, Urban,	00000095	00000095,00000096,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	Yes	100000		340	161	422	0	0	757	58.7999992	16557.1992			Y	HDR Identification Process
121000161	12	San Antonio	Holistic Watershed based master planning consistent with Nature Based Solutions	This Flood Management Evaluation (FME) will fill the knowledge gap in the region on the benefits of NFMS for floodplains, flood peak attenuation, ecosystem services, groundwater recharge, and recreational value	12000013	Wilson,Bexar	12100301,12100303,12100304,12110110,12100302		12000001,12000002,12000003,12000004,12000005,12000006,12000007,12000008,12000009,12000010,12000011,12000012,12000013,12000029,12000055,12000056,12000063,12000064,12000066,12000069,12000071,12000076,12000078,12000094,12000104,12001105	Watershed Planning	505.2	Riverine, Urban,	00000282	00000084,00000260,00000291,00000714,00000758,00001608	Yes	2247403.25		7156	5573	41778	0	0	2760	194.160004	1054.41003			Y	HDR Identification Process
121000162	12	San Antonio	29010 Tivoli Way	Utilize existing stormwater infrastructure by regrading the roadway to slope towards existing inlets and open channels on the north and south side of Windermere Dr on the east side of Fair Oaks Parkway. New curb installed along the west side of Fair Oak	12000029,12000030	Bexar	12100304	121003040103	12000063	Project Planning	0		12002436	00000007,00000255,00000282,12002436	No	103952.023		0	0	0	0	0	0	0	0			Y	Halff Identification Process
121000164	12	San Antonio	Abbott Road and Graytown Road at Martinez Creek Study	A 2D hydraulic study flood study is needed to evaluate alternatives to remove these roads from overtopping. Priority should be placed on this study due to two deaths in 2021.	12000030,12000027	Bexar	12100304	121003040205	12000071	Project Planning	0.1	Riverine,	00000007	00000282,00000392,12001595,00000255,00000007,12003004,00000821	Yes	300000		7	6	12	0	1	3	0.63829064	15.6234264			Y	HDR Identification Process
121000165	12	San Antonio	Cibolo Creek Spill Study	A 2D hydraulic study flood study is needed to evaluate spill flow from the creek. The spill starts 2,500ft upstream of the Bexar Bowling Way Crossing to 2,000ft north of Ullrich Road Crossing.	12000027	Bexar	12100304	121003040202,121003040206	12000069,12000072	Project Planning	1.22	Riverine,	00000010	00000007,00000282,00000255,00000821,00000392,00000010,00000291	Yes	250000		43	23	54	0	1	3	1.15756392	79.4232178			Y	HDR Identification Process
121000166	12	San Antonio	FM1346 Crossing Upgrade Study	A hydraulic study is needed to evaluate alternatives to removing the FM1346 crossing from overtopping. Improvements to this road are important due to limited detour routes available.	12000030	Bexar	12100304	121003040301,121003040302	12000055,1200056	Project Planning	0.13	Riverine,	00000007	12003004,00000007,00000392,12001595,00000255,00000282	No	150000		0	0	0	0	0	1	0.35938999	1.05086315			Y	HDR Identification Process
121000167	12	San Antonio	Live Oak Slough Creek Improvements Study	The residents living along this slough are experiencing run-off water damage to their land causing the Live Oak Slough Creek to widened, and leaving them with less land usage.	12000027	Bexar	12100302	121003020505	12000109	Project Planning	0.02	Riverine,	12003318	12003318,00000255,00000282,00000007	No	250000		0	0	0	0	0	0	0	0			Y	HDR Identification Process
121000168	12	San Antonio	North Benton City Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020505	12000109	Project Planning	0.01	Riverine,	12003318	12003318,00000255,00000282,00000007	No	150000		7	4	6	0	1	3	0.17496911	0			Y	HDR Identification Process
121000169	12	San Antonio	Quintana Road Drainage Improvements Study	Study to improve the drainage around Quintana Road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020505	12000109	Project Planning	0.04	Riverine,	12003318	12003318,00000255,00000282,00000007	No	250000		9	8	15	0	0	2	0.24336547	0.16790755			Y	HDR Identification Process
121000170	12	San Antonio	South Benton City Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020506	12000091	Project Planning	0.01	Riverine,	12003318	12003318,00000255,00000282,00000007	Yes	150000		0	0	0	0	0	1	0.09999163	0.02462913			Y	HDR Identification Process
121000171	12	San Antonio	S Evans Rd Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020506	12000091	Project Planning	0.02	Riverine,	12003318	00000255,00000282,00000007	Yes	150000		0	0	0	0	0	1	0.19998194	3.23742223			Y	HDR Identification Process
121000172	12	San Antonio	Trainer Hale at Cibolo Creek	Improvements on Low water crossing at Trainer Hale Rd and Cibolo Creek	12000030	Bexar, Guadalupe	12100304	121003040206	12000072	Project Planning	0.26	Riverine,	00000007,00000010	00000007,00000010,00000255,00000282,00000291,00000392,00000821,12001595,00002973	Yes	150000		3	0	1	0	1	1	0.74000001	6.15625			Y	Halff Identification Process
121000173	12	San Antonio	Delcrest Channel Improvements PER	Improvements to strom drains and upstream drainage system to improve street flooding in Dellcrest neighborhood.	12000029,12000030,12000033	Bexar	12100301	121003010106	12000007	Project Planning	0.02	Riverine,	12003327	00000007,00000255,00000282,12003327	No	250000		3	3	6	0	0	5	0.23999999	0			Y	Halff Identification Process
121000174	12	San Antonio	Overbrook Outfall Drainage Project Phase 3	Upsizing the existing 9' RCP and two 12'x9' RCBs to capture 100-year flood event south of Overbrook Drive.	12000029,12000030,12000033	Bexar	12100301	121003010106	12000010	Project Planning	0.06	Riverine, Urban,	12003327	00000007,00000255,00000282,12003327	No	250000		11	11	30	0	0	4	0.38999999	0			Y	Halff Identification Process
121000175	12	San Antonio	CR 326B at Ecleto Creek	Evaluate upgrades to existing bridge with consideration of backwater from San Antonio River	12000030	Karnes	12100303	121003030306	12000016	Project Planning	0.11	Riverine,	00000095	00000095,00000255,00000282,00001006	Yes	100000		0	0	0	0	0	1	1.23739672	21.8530273	40470	40470	Y	HDR Recommended
121000176	12	San Antonio	CR 237 at Marcelinas Creek	Evaluate upgrades to existing bridge with consideration of backwater from San Antonio River	12000030	Karnes	12100303	121003030204	12000027	Project Planning	0.02	Riverine,	00000095	00000095,00000255,00000282,12002974	Yes	100000		0	0	0	0	0	1	0.44689167	0.58981264	40470	40470	Y	HDR Recommended
121000177	12	San Antonio	City of Kenedy Flooding on Escondido Creek Tributary	Evaluate alternatives to mitigate flooding within City of Kenedy commercial area along Escondido Creek tributary	12000026	Karnes	12100303	121003030402	12000021	Project Planning	0.28	Riverine,	00000095	00000095,00000255,00000282,00000519,12002975	Yes	100000		10	0	23	0	0	3	0.09684192	0.05040364	40470	40470	Y	HDR Recommended
121000178	12	San Antonio	Falls City Flooding from San Antonio River	Evaluate alternatives to mitigate flooding from the San Antonio River affecting buildings in the City of Falls City	12000026	Karnes	12100303	121003030204,121003030202,121003030205	12000027,12000030,12000034	Project Planning	0.7	Riverine,	00000095	00000095,00000255,00000282,12002974	Yes	100000		28	16	15	0	0	13	1.02529824	42.8695374	40470	40470	Y	HDR Recommended
121000179	12	San Antonio	San Antonio River Flooding on US 181	Evaluate alternatives to mitigate US 181 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030205	12000034	Project Planning	1	Riverine,	00000095	00000095,00000255,00000282	Yes	100000		9	5	4	0	0	3	0.57059264	163.376434	40470	40470	Y	HDR Recommended
121000180	12	San Antonio	Cibolo Creek Flooding on SH 123	Evaluate alternatives to mitigate SH 123 flooding from Cibolo Creek	12000030	Karnes	12100304	121003040405	12000057	Project Planning	0.58	Riverine,	00000095	00000095,00000255,00000282	Yes	100000		1	0	1	0	0	3	0.84994906	114.098656	40470	40470	Y	HDR Recommended
121000181	12	San Antonio	San Antonio River Flooding on SH 80	Evaluate alternatives to mitigate SH 80 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030206	12000037	Project Planning	0.17	Riverine,	00000095	00000095,00000255,00000282	Yes	100000		0	0	0	0	0	1	0.12061442	14.2274141	40470	40470	Y	HDR Recommended
121000182	12	San Antonio	Localized Residential Flooding in City of Kenedy	Evaluate alternatives to mitigate localized residential flooding in the southern portion of the City of Kenedy	12000026	Karnes	12100303	121003030402	12000021	Project Planning	0.15	Urban,	00000095	00000095,00000255,00000282,00000519,12002975	Yes	100000		3	3	7	0	0	3	0.04176157	0			Y	HDR Recommended
121000183	12	San Antonio	San Antonio River Flooding on SH 72	Evaluate alternatives to mitigate SH 72 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030403,121003030404	12000022,12000023	Project Planning	0.38	Riverine,	00000095	00000095,00000255,00000282,00000519	Yes	100000		0	0	0	0	0	1	0.78123552	46.7500267	40470	40470	Y	HDR Recommended

Table 12. Potential Flood Management Evaluations Identified by RFPG

FME ID	RFPG No.	RFPG Name	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost	Potential Funding Sources	Estimated number of structures at flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)	RFPG Recommendation (Y/N)	Reason for Recommendation
121000184	12	San Antonio	Karnes County FEWS	Flood Early Warning System	12000009	De Witt,Wilson,Goliad,Karnes	12100204,12100303,12100304,12100202,12100406,12110110,12110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Preparedness	751.06	Riverine,	00000095	00000095,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	Yes	100000		336	161	422	0	19	213	58.797905	14495.2178			Y	HDR Recommended

Table 13. Potentially Feasible Flood Mitigation Projects Identified by RFPG

| FMP ID | RFPG No. | RFPG Name | FMP Name | Description | Associated Goals (ID) | Counties | HUC12s | Watersheds | Project Type | Project Area (sq/mi) | Flood Risk Type (Riverine, Coastal, Urban, Playa, Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Project Cost ($) | Potential Funding Sources and Amount | Flood Risk | | | | | | | | | Reduction in Flood Risk | | | | | | | | |

Table 13. Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	RFPG No.	RFPG Name	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Potential Funding Sources and Amount	Flood Risk										FMP ID	Reduction in Flood Risk										Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/ Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
																	Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Habitable structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated active farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)												
123000031	12	San Antonio	Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	During a large storm event, access to and from residences adjacent to Mosspoint Street is compromised	12000033,12000034	Wilson	1210303030204	12000027	Infrastructure	0.05	Riverine,	12003181	00000100,00000255, 00000282, 12003181	N	1389000	-	0.00657182	0	0	0	0	0	0	0	0	0	123000031	0	0	0	0	0	0	0	0	0	0	0	<10	100	0	0.029999999	N	N	N	0	0.02	Y	Halff Identification Process
123000032	12	San Antonio	Woodlawn Lawn Lake Option 2	Detention, Storm drain improvements, Culvert Improvments, Roadway Improvements.	12000029,12000030,12000033	Bexar	1210301020202	12000010	Channel	0.06	Riverine,	12002438	00000007,00000255, 00000282, 12002438, 12003327	N	9196000	-	0.0144271	0	19	19	224	0	0	4	0.140000001	0	123000032	6	13	0	13	84	0	0	24	1	0	0	0	<10	100	707385	0.100000001	N	N	N	0	0.1	Y	Halff Identification Process
123000033	12	San Antonio	LWC at Old Fredericksburg Rd and Balcones Creek	Improve the low water crossing at Old Fredericksburg Rd and Balcones Creek	12000030,12000031	Bexar, Kendall	1210303040102	12000062	LWC upgrade	0.01	Riverine,	00000007,00000017	00000007,00000017, 00000255, 00000282, 00000291	Y	10270000	-	0.00676728	0	0	0	0	0	1	1	0.115999997	0.259117991	123000033	0	0	0	0	0	0	0	1	1	0	0	0	<10	50	0	0.029999999	N	N	N	0	0	Y	Halff Identification Process
123000034	12	San Antonio	Elm Spring	Flooding creates dangerous driving conditions and flood multiple homes. Proposed Storm drain system along Elm spring	12000029,12000030	Bexar	1210301012031	12000066	Storm Drain	0.05	Urban,	12003000	00000007,00000255, 00000282, 12003000	N	2191000	-	0.0150733	0	17	15	65	0	0	0	1	0	123000034	12	5	0	4	12	0	0	4	1	0	0	0	<25	100	438200	0.029999999	N	N	N	0	0.1	Y	Halff Identification Process
123000035	12	San Antonio	De Zavala/ Ripple Creek	Flooded street on De Zavala Rd and backwater on Ripple Creek Rd	12000029,12000030	Bexar	1210303012031	12000066	Storm Drain	0.07	Urban,	12003000	00000007,00000255, 00000282, 12003000	N	1729000	-	0.0155456	0	12	12	24	0	0	1	0.073155999	0	123000035	4	8	0	8	16	0	0	4	1	0	0	0	<25	100	216125	0.029999999	N	N	N	0	0	Y	Halff Identification Process
123000036	12	San Antonio	Blanco Road at Cibolo Creek	Improve Low water crossing at Blanco Rd and Cibolo Creek	12000030,12000031	Bexar, Comal	1210303040104	12000027	LWC upgrade	0.01	Riverine,	00000007,00000014	00000007,00000014, 00000255, 00000282, 00000291	Y	21717000	-	0.116649002	0	0	0	0	0	1	2	0.225932002	0	123000036	0	0	0	0	0	0	1	1	1	0	0	0	<10	100	0	0.029999999	N	N	N	0	0.1	Y	Halff Identification Process
123000037	12	San Antonio	Specht/Obst Road at Cibolo Creek	Improve Low water crossing at West Specht Rd/ Obst Rd and Cibolo Creek	12000030,12000031	Bexar, Comal	1210303040104	12000027	LWC upgrade	0.06	Riverine,	00000007,00000014	00000007,00000014, 00000255, 00000282, 00000291	Y	4494000	-	0.116649002	0	3	2	3	0	1	1	2.171420097	0.355643004	123000037	0	0	0	0	0	0	0	1	1	0	1	0	<2	2	0	0.029999999	N	N	N	0	0.5	Y	Halff Identification Process
123000038	12	San Antonio	Toutant Beauregard at Balcones Creek	Low water crossing Improvements at Toutant Beauregard Rd and Upper Balcones Rd intersection and Balcones Creek	12000030,12000031	Bexar, Kendall	1210303040102	12000062	LWC upgrade	0.06	Riverine,	00000007,00000017	00000007,00000017, 00000255, 00000282, 00000291	Y	3647000	-	0.026812799	0	0	0	0	0	1	2	0.539126992	7.247290134	123000038	0	0	0	0	0	0	0	1	1	0	0	0	<10	10	0	0.029999999	N	N	N	0	0.1	Y	Halff Identification Process
123000039	12	San Antonio	Boerne Stage Road at Balcones Creek	Improvements on Low water crossing at Boerne Stage rd and Balcones	12000030,12000031	Bexar, Kendall	1210303040102	12000062	LWC upgrade	0.03	Riverine,	00000007,00000017	00000007,00000017, 00000255, 00000282, 00000291	Y	5855000	-	0.0117194	0	1	1	0	0	1	2	0.126038	0	123000039	0	0	0	0	0	0	0	1	1	0	0	0	<10	10	0	0.029999999	N	N	N	0	0.1	Y	Halff Identification Process
123000040	12	San Antonio	Blue Ridge Drive Drainage Improvements	Improve neighborhood and street flooding along Blue Ridge Drive by installing new culverts and a flow bypass system.	12000029,12000030	Bexar	1210303012022	12000010	Storm Drain	0.02	Riverine,	12003327	00000007,00000255, 00000282, 12003327	N	21064000	-	0.013752	0	49	47	163	0	0	11	0.457812011	0	123000040	31	18	0	18	54	0	0	16	1	0	0	0	<10	100	1170220	0.029999999	N	N	N	0	0.2	Y	Halff Identification Process
123000041	12	San Antonio	Southwell Road Drainage Improvements	Improve the two Low water crossings along Encino Park Road and Southwell Road intersecting Huebner Creek.	12000029,12000030	Bexar	1210303020405	12000104	LWC upgrade	0.03	Riverine,	12003327	00000007,00000255, 00000282, 12003327	Y	5921000	-	0.00951092	0	15	15	14	0	2	2	0.058062099	0	123000041	4	11	0	11	10	0	2	2	1	0	0	0	<10	100	538273	0.029999999	N	N	N	0	2.3	Y	Halff Identification Process
123000042	12	San Antonio	Ridge Run Street Area Drainage Improvements	Improve drainage east of Ridge Run Drive along Culebra Creek to contain 100 year flood event.	12000029,12000030	Bexar	1210303020404	12000103	Channel	0.03	Riverine,	12003327	00000007,00000255, 00000282, 12003327	N	10443000	-	0.0242971	0	30	30	89	0	0	5	0.303059012	0	123000042	0	30	0	30	89	0	0	5	1	0	0	0	<10	100	348100	0.029999999	N	N	N	0	0.3	Y	Halff Identification Process
123000043	12	San Antonio	Huebner Creek Channelization (LWC #28)	Improve Low water crossing at intersection of Huebner creek and Hollyhock road. Improve drainage upstream and downstream of crossing.	12000030	Bexar	1210303020405	12000104	LWC upgrade	0.02	Riverine,	12003327	00000007,00000255, 00000282, 12003327	Y	8371000	-	0.017345499	0	3	1	7	0	1	1	0.086880602	0	123000043	0	0	0	0	0	0	0	1	1	0	0	0	<10	10	0	0.029999999	N	N	N	0	0.2	Y	Halff Identification Process
123000044	12	San Antonio	Overbrook Drainage Improvement Phase 1 & 2	Improve drainage system south of Overbrook Drive to contain 100-year storm event.	12000029,12000030	Bexar	1210303010202	12000010	Storm Drain	0.16	Riverine, Urban,	12003327	00000007,00000255, 00000282, 12003327	N	30842000	-	0.0677016	0	160	157	620	0	0	12	1.347460032	0	123000044	77	83	0	83	341	0	0	24	1	0	0	0	<10	100	371590	0.029999999	N	N	N	0	0.3	Y	Halff Identification Process
123000053	12	San Antonio	Abbott Road at Tributary A to Salitrillo Creek and at Saltrillo Creek Bridge	This project will provide 50-year conveyance design, removing structures from the existing floodplain. Proposed improvements consist of channel regrading, increasing the road elevation, upgrading culverts, and adding a bridge.	12000031	Bexar	1210303040205	12000071	LWC upgrade	0.02	Riverine,	00000007	00000392,12001595,00000007,00000282,00000255,00000821,12003004	N	5468000	-	0.008215	0	0	0	0	0	2	36	1	0	123000053	0	0	0	0	0	0	1	36	1	0	0	0	Less than the 10 year	50 year	0	0.029999999	N	N	N	557	0.05	Y	HDR Identification Process
123000054	12	San Antonio	Abbott Road at Unnamed Tributary 1 to Saltrillo Creek LWC Improvement	This project will provide 100-year conveyance design, removing structures from the existing floodplain. Proposed improvements consist of channel regrading and culvert upgrades.	12000031	Bexar	1210303040205	12000071	LWC upgrade	0	Riverine,	00000007	00000392,12001595,00000007,00000282,00000255,00000821,12003004	N	740000	-	0.000229	0	0	0	0	0	1	36	1	0	123000054	0	0	0	0	0	0	1	36	1	0	0	0	Less than the 10 year	100 year	0	0.029999999	N	N	N	557	0.3	Y	HDR Identification Process
123000055	12	San Antonio	Bexar Bowling Way at Cibolo Creek Bridge	This project will provide 100-year conveyance design, removing structures from the existing floodplain. Proposed improvements consist of channel regrading, increasing the road elevation, and adding a bridge.	12000031	Bexar	1210303040202	12000069	LWC upgrade	0.01	Riverine,	00000007,00000010	00000007,00002282,00002255,00000821,00000392,00000010,00000291	Y	13252000	-	0.008542	0	0	0	0	0	1	36	1	0	123000055	0	0	0	0	0	0	1	36	1	0	0	0	Less than the 10 year	100 year	0	0.029999999	N	N	N	339	0.01	Y	HDR Identification Process
123000056	12	San Antonio	Damage Center 1: Project 1A, B, C	Detention pond, channel improvements, and additional adverts are required to reduce the downstream flooding, aid in removing the majority of the existing structures from the FEMA floodplain and convey the 100-Yr flow.	12000026,12000027	Wilson	1210303030103	12000033	Detention Pond	1.39	Riverine,	12002925	00000255,00000282,00000100,12002925	Y	4309000	-	0.246099994	0	38	30	100	1	1	36	1	0	123000056	28	10	0	6	58	1	1	26	1	0	0	0	Less than the 50 year	100 year	430900	0.100000001	N	N	N	26434	0.3	Y	HDR Identification Process
123000057	12	San Antonio	Felix Road at Dry Hollow Creek Barrier Arms	The proposed improvements consist of adding flashing lights and an automatic barrier arm on each side of the LWC that will be lowered when the road is overtopped.	12000031	Bexar	1210303040302	12000056	LWC upgrade	0	Riverine,	00000007,00000100	12003004,00000392,12001595,00000007,00000282,00000255	N	164000	-	0.003235	0	0	0	0	0	1	36	1	0	123000057	0	0	0	0	0	0	0	0	0	0	0	0	Less than the 10 year	100 year	0	0	N	N	N	63	0.17	Y	HDR Identification Process
123000058	12	San Antonio	Freudenburg Road at Salitrillo Creek Barrier Arms	The proposed improvements consist of adding flashing lights and an automatic barrier arm on each side of the LWC that will be lowered when the road is overtopped.	12000031	Bexar	1210303040205	12000071	LWC upgrade	0	Riverine,	00000007	00000392,12001595,00000007,00000282,00000255	N	164000	-	0.00434	0	0	0	0	0	3	36	1	0	123000058	0	0	0	0	0	0	0	0	0	0	0	0	Less than the 25 year	100 year	0	0	N	N	N	231	0.3	Y	HDR Identification Process
123000059	12	San Antonio	Gass Road at Culebra Creek Tributary D Bridge	This project will provide 100-year conveyance design, removing structures from the existing floodplain. Proposed improvements consist of channel regrading, increasing the road elevation, and adding a bridge.	12000031	Bexar	1210303020403	12000102	LWC upgrade	0.01	Riverine,	00000007	00000007,00000282,00000255	Y	3898000	-	0.003955	0	0	0	0	0	1	36	1	0	123000059	0	0	0	0	0	0	0	36	0	0	0	0	Less than the 10 year	100 year	0	0.029999999	N	N	N	5740	1.7	Y	HDR Identification Process
123000061	12	San Antonio	Ullrich Road at Cibolo Creek Barrier Arms	The proposed improvements consist of adding flashing lights and an automatic barrier arm on each side of the LWC that will be lowered when the road is overtopped.	12000031	Bexar	1210303040202	12000069	LWC upgrade	0	Riverine,	00000007,00000010	00000291,00000010,00000392,00000821,00000255,00000282,00000007	N	244000	-	0.000623	0	0	0	0	0	2	36	1	0	123000061	0	0	0	0	0	0	0	0	0	0	0	0	Less than the 10 year	100 year	0	0	N	N	N	63	0.05	Y	HDR Identification Process
123000062	12	San Antonio	Wilson 10 - Acquisitions of Flooded Structures	This project proposes to acquire the three frequently flooded properties and remove the structures from the existing conditions floodplain extents through demolition or relocation.	12000025	Wilson	1210303030101	12000029	Property Acquisition	0.01	Riverine,	00000100	00000290,00000282,00000255,00000100	N	591000	-	0.005955	6E-06	3	3	2	0	0	0	0	0	123000062	0	3	0	0	0	0	0	0	0	0	0	0	Less than the 100 year	100 year	197000	0	N	N	N	0	1.4	Y	HDR Identification Process
123000063	12	San Antonio	Athens Street South Drainage Improvements	The Athens Street South drainage improvements intend to reduce the 100-year storm event inundation boundary. Improvements include a storm drain and inlet collection system and full-depth roadway reconstruction with a curb and	12000026	Medina	1210303020501	12000081	Storm Drain	0.1	Urban,	12003377	00000005,00000255,12003377	N	19021000	-	0.061900001	0	82	78	224	0	1	576	2.200000048	0	123000063	11	49	0	46	133	0	0	396	2	0	0	0	Less than the 2 year	100 year	388183.6875	0	N	N	N	156	0.31	Y	HDR Identification Process
123000064	12	San Antonio	Lorenzo Street North Drainage Improvements	The North Lorenzo Street drainage improvements intend to reduce the 100-year storm event inundation boundary. Improvements include a storm drain and inlet collection system and full-depth roadway reconstruction with a curb and	12000026	Medina	1210303020501	12000081	Storm Drain	0.1	Urban,	12003377	00000005,00000255,12003377	Y	11647000	-	0.033300001	0	66	40	115	1	0	396	1.399999976	0	123000064	14	38	0	23	67	0	0	72	1	0	0	0	Less than the 2 year	100 year	306500	0	N	N	N	150	0.42	Y	HDR Identification Process
123000065	12	San Antonio	Naples Street North Drainage Improvements	The North Naples Street drainage improvements intend to reduce the 100-year storm event inundation boundary. Improvements include a storm drain and inlet collection system and full-depth roadway reconstruction with a curb and	12000026	Medina	1210303020501	12000081	Storm Drain	0.13	Urban,	12003377	00000005,00000255,12003377	Y	22704000	-	0.079499997	0	114	84	242	1	1	3050	3.599999905	0	123000065	30	58	0	45	130	0	0	396	2	0	0	0	Less than the 2 year	100 year	391448.2813	0	N	N	N	156	0.36	Y	HDR Identification Process
123000066	12	San Antonio	CR 294 Drainage Improvements at Dry Ecleto Creek	Upgrade CR 294 to include new bridge structure with roadway and channel improvements for 100 year roadway access	12000031	Karnes	1210303030304	12000041	LWC upgrade	0.44	Riverine,	00000095	00000095,00000255,00000282,00001006	N	7178000	-	0.222599998	0.282599986	3	3	2	0	1	36	0.170000002	0.629999995	123000066	0	0	0	0	0	0	1	36	1	0.150000006	0	0	Less than the 2-year	100-year	0	0.050000001	N		N		0.3	Y	HDR Recommended
123000067	12	San Antonio	CR 302 Drainage Improvements at Ecleto Creek	Upgrade existing low water crossing to include roadway elevation, a new bridge structure, and channel improvements	12000031	Karnes	1210303030504,1210303030304	12000019,12000041	LWC upgrade	0.52	Riverine,	00000095	00000095,00000255,00000282,00001006	N	15261000	-	0.358599991	0.37529999	0	0	0	0	1	36	0.529999971	1.769999981	123000067	0	0	0	0	0	0	1	36	1	0.230000004	0	0	Less than the 2-year	100-year	0	0.050000001	N		N		0.7	Y	HDR Recommended
123000068	12	San Antonio	CR 262 Drainage Improvements at Ecleto Creek	Upgrade CR 262 to include roadway elevation, bridge expansion, and channel improvements	12000031	Karnes	1210303030303	12000040	LWC upgrade	0.57	Riverine,	00000095	00000095,00000255,00000282,00001006	N	11242400	-	0.387400001	0.508400023	4	4	2	0	1	72	0.409999996	2.009999943	123000068	0	0	0	0	0	0	0	0	1	0.01	0	0	Less than the 2-year	2-year	0	0.050000001	N		N		0.1	Y	HDR Recommended
123000069	12	San Antonio	Drainage Improvements at CR 337 and CR 326 Near City of Runge	Elevate CR 337 and CR 326 and upgrade low water crossings to include box culverts and channel improvements. Channel improvements along CR 337 to improve level of service	12000026,12000031	Karnes	1210303030306	12000016	Comprehensive	0.23	Riverine,	00000095	00000095,00000255,00000282,00001006,12002757	Y	6773000	-	0.0973	0.111900002	1	0	0	0	2	72	0.460000008	1.950000048	123000069	0	1	0	0	0	0	2	36	1	0.889999986	0	0	Less than the 2-year	10-year	6773000	0.050000001	N		N		0	Y	HDR Recommended

Table 13. Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	RFPG No.	RFPG Name	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Potential Funding Sources and Amount	Flood Risk									FMP ID	Reduction in Flood Risk										Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/ Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	RFPG Recommendation (Y/N)	Reason for Recommendation
																	Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Habitable structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated active farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)											
123000070	12	San Antonio	CR 336 Drainage Improvements at Ecleto Creek Tributary	Upgrade CR 336 low water crossing to include a new bridge structure with roadway and channel improvements	12000031	Karnes	121003030306	12000016	LWC upgrade	0.03	Riverine,	00000095	00000095,00000255,00000282,00001006	N	2859756	-	0.0134	0.0151	0	0	0	0	1	36	0.090000004	0.589999974	123000070	0	0	0	0	0	0	1	36	1	0.079999998	0	0	Less than the 2-year	100-year	0	0.050000001	N		N		0	Y	HDR Recommended
123000071	12	San Antonio	CR 331 Drainage Improvements at Escondido Creek	Upgrade existing low water crossing to include roadway elevation, a new bridge structure, and channel improvements	12000031	Karnes	121003030403	12000022	LWC upgrade	0.08	Riverine,	00000095	00000095,00000255,00000282,00000519	N	4865554	-	0.074900001	0.079899997	0	0	0	0	1	36	0.25	0.02	123000071	0	0	0	0	0	0	0	0	1	0	0	0	Less than the 2-year	2-year	0	0.050000001	N		N		0.4	Y	HDR Recommended
123000072	12	San Antonio	City of Kenedy Drainage Improvements on Escondido Creek	Upgrade 5th Street culvert with additional boxes, roadway elevation, and channel modifications. Additional channel modifications through Kenedy to improve conveyance and reduce flooding of structures.	12000026,12000031	Karnes	121003030402	12000021	Comprehensive	0.34	Riverine,	00000095	00000095,00000255,00000282,00000519,12002975	Y	33317000	-	0.281300008	0.368099988	78	73	140	0	2	792	0.529999971	0.230000004	123000072	22	56	0	54	113	0	2	576	1	0	0	0	25-year	100-year	594946	0.050000001	N		N		0.1	Y	HDR Recommended
123000073	12	San Antonio	CR 127 Drainage Improvements at Hondo Creek	Upgrade existing low water crossing to include roadway elevation, a new bridge structure, and channel improvements	12000031	Karnes	121003030405	12000024	LWC upgrade	0.32	Riverine,	00000095	00000095,00000255,00000282,00000526	N	8992000	-	0.170399994	0.1866	2	2	0	0	1	36	0.270000011	1.450000048	123000073	0	0	0	0	0	0	1	36	1	0.400000006	0	0	Less than the 2-year	100-year	0	0.050000001	N		N		0.2	Y	HDR Recommended
123000074	12	San Antonio	CR 145 Drainage Improvements at Hondo Creek	Upgrade existing low water crossing to include roadway elevation, a new bridge structure, and channel improvements	12000031	Karnes	121003030405	12000024	LWC upgrade	0.08	Riverine,	00000095	00000095,00000255,00000282,00000526	N	3688372	-	0.0748	0.075199999	0	0	0	0	1	36	0.370000005	0	123000074	0	0	0	0	0	0	0	0	1	0	0	0	Less than the 2-year	10-year	0	0.050000001	N		N		0.3	Y	HDR Recommended
123000075	12	San Antonio	CR 354 Drainage Improvements at Lower San Antonio Tributary 147	Elevate roadway and upgrade existing culvert structure with a new bridge structure and channel improvements	12000031	Karnes	121003030206	12000037	LWC upgrade	0.26	Riverine,	00000095	00000095,00000255,00000282	N	6467859	-	0.195299998	0.256599993	0	0	0	0	1	0	0.079999998	9.159999847	123000075	0	0	0	0	0	0	1	36	1	0.439999998	0	0	2-year	100-year	0	0.050000001	N		N		0	Y	HDR Recommended
123000076	12	San Antonio	US 181 Drainage Improvements at Marcelinas Creek Trib	Upgrade US HWY 181 culvert crossing to include additional boxes and channel improvements to mitigate residential flooding south of the highway	12000026,12000031	Karnes	121003030204	12000027	Comprehensive	0.12	Riverine,	00000095	00000095,00000255,00000282,12002974	Y	2465200	-	0.072700001	0.111699998	3	3	2	0	1	36	0	0.519999981	123000076	1	2	0	2	1	0	0	0	0	0.090000004	0	0	Unknown	Reduction in 100-year flooding	1232600	0.050000001	N		N		0.1	Y	HDR Recommended
123000077	12	San Antonio	Nichols Creek Tributary 2 Drainage Improvements	Upgrade Escondido Street crossing with an additional box and upstream channel improvements	12000026,12000031	Karnes	121003030402	12000021	LWC upgrade	0.02	Riverine,	00000095	00000095,00000255,00000282,00000519,12002975	N	1651000	-	0.0091	0.0109	2	0	16	0	1	72	0.090000004	0.01	123000077	2	1	0	0	3	0	0	36	1	0	0	0	Less than the 2-year	2-year	1651000	0.050000001	N		N		1.6	Y	HDR Recommended
123000078	12	San Antonio	Nichols Creek Tributary 4 Drainage Improvements	Channel improvements upstream (east) of Escondido Street; lower existing pond bottom at Kenedy Retreat Apartments to increase capacity	12000026	Karnes	121003030402	12000021	LWC upgrade	0.03	Riverine,	00000095	00000095,00000255,00000282,00000519,12002975	N	1441000	-	0.0128	0.0154	4	0	39	0	1	72	0.039999999	0	123000078	4	0	0	0	0	0	1	72	1	0	0	0	2-year	100-year	0	0.050000001	N		N		1.8	Y	HDR Recommended
123000079	12	San Antonio	CR 325 Drainage Improvements at Ojo De Agua Creek	Upgrade CR 325 crossing with roadway elevation, bridge structure upgrades, and channel improvements	12000031	Karnes	121003030404	12000023	LWC upgrade	0.05	Riverine,	00000095	00000095,00000255,00000282	N	2007000	-	0.0222	0.028999999	0	0	0	0	1	72	0.109999999	0.02	123000079	0	0	0	0	0	0	1	72	1	0	0	0	Less than the 100-year	100-year	0	0.050000001	N		N		0	Y	HDR Recommended
123000080	12	San Antonio	CR 163 Drainage Improvements at Panther Creek	Elevate roadway and upgrade existing culvert structure to include box culverts and channel improvements	12000031	Karnes	121003030402	12000021	LWC upgrade	0.09	Riverine,	00000095	00000095,00000255,00000282,00000519	N	3218400	-	0.076300003	0.091600001	0	0	0	0	1	36	0.270000011	1.269999981	123000080	0	0	0	0	0	0	0	0	1	0	0	0	Less than the 2-year	10-year	0	0.050000001	N		N		0.2	Y	HDR Recommended

Table 14. Potentially Feasible Flood Management Strategies Identified by RFPG

Esitimated Total Stategy Cost ($)	Potential Funding Sources and Amount	Flood Risk										FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommendation (Y/N)	Reason for Recommendation
		Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Habitable structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated active farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)							
250000	- 0	0.439664006	0.080706	37	19	53	0	0	21	1	27.72999954	122000001	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
30000	- 0	0.439664006	0.080706	37	19	53	0	0	21	1	27.72999954	122000002	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
30000	- 0	0.079442002	0.014419	6	5	159	0	0	5	0	0.699999988	122000003	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
30000	- 0	0.404747993	0.164841995	42	24	59	0	0	21	0	6.010000229	122000004	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
30000	- 0	0.051291	0.00469	4	3	14	0	0	4	0	1.090000033	122000005	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
25000	- 0	0.322614014	0.052650001	69	50	100	0	5	25	2	9.760000229	122000006	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
5000	- 0	0.322614014	0.052650001	69	50	100	0	5	25	2	9.760000229	122000007	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
5000	- 0	0.322614014	0.052650001	69	50	100	0	5	12	2	9.760000229	122000008	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
5000	- 0	0.322614014	0.052650001	69	50	100	0	5	25	2	9.760000229	122000009	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
129000	- 0	57.54629898	2.096080065	7156	5561	41778	73	78	1237	194	956.4500122	122000010	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
100000	- 0	6.969930172	0.826269984	628	398	1812	5	21	147	12	42.72999954	122000011	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
100000	- 0	0.404747993	0.164841995	42	24	59	0	0	22	0	6.010000229	122000012	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	Halff Identification Process
10000	- 0	120.5579987	17.8220005	336	161	422	0	19	757	59	14495.40039	122000013	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process
35000	- 0	0.252743989	0.026970999	170	133	263	0	5	23	4	1.330000043	122000014	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process

Table 14. Potentially Feasible Flood Management Strategies Identified by RFPG

Esitimated Total Stategy Cost ($)	Potential Funding Sources and Amount	Flood Risk										FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommendation (Y/N)	Reason for Recommendation
		Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed from 100yr (1% annual chance) Flood risk	Number of structures removed from 500yr (0.2% annual chance) Flood risk	Habitable structures removed from 100yr (1% annual chance) Flood risk	Estimated Population removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated active farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)							
5000	- 0	0.702579975	0.098123997	153	101	568	0	0	26	4	62.15999985	122000015	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process
10000	- 0	1.414610028	0.209141999	107	63	161	3	2	31	4	74.56999969	122000016	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process
50000	- 0	0.702579975	0.098123997	153	101	568	0	0	26	4	62.15999985	122000017	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process
50000	- 0	11.1019001	6.285729885	362	255	444	1	25	292	15	2208.25	122000019	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process
100000	- 0	1.414610028	0.209141999	107	63	161	3	2	31	4	74.56999969	122000020	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	Y	HDR Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000001	Study the San Antonio River, Ojo de Agua Creek and its tributaries	Install steam gauges and develop a study to identify solutions to flooding. Implement engineering findings to reduce and mitigate risks.	12000007,12000011,12000013,12000014	Karnes	12100303	121003030306,121003030404	12000016,12000023	1.18	Riverine, Urban,	12002757	00000095,00000255,00000282,00001006,12002757	No	250000	Y	Halff Identification Process
121000002	7820 Rolling Acres Trail	Low water crossing. Road closure gate is deployed at this crossing during large storm events.	12000033	Kendall	12100304	121003040103	12000063	0		12002436	00000017,00000255,00000291,12002436	No	290211	Y	Halff Identification Process
121000003	7900 Fair Oaks Parkway	Analysis needed to confirm no adverse impacts on the solution that was implemented.	12000011,12000013,12000014	Bexar	12100304	121003040103	12000063	0		12002436	00000007,00000255,00000282,12002436	No	60282	Y	Halff Identification Process
121000004	Ammann Road Low Water Crossing	Low water crossing runs over the street due to insufficient culverts that pass under Ammann Road. Replacing the current road with an elevated concrete bridge above the flood stage.	12000033	Kendall	12100304	121003040103	12000063	0		12002436	00000017,00000255,00000291	No	213658	Y	Halff Identification Process
121000005	7420 Rolling Acres Trail Low Water Crossing	Low Water crossing moves toward home on Meadow Creek Trail. Road Closure gate is deployed at this crossing during large storm events.	12000033	Kendall	12100304	121003040103	12000063	0	Riverine,	12002436	00000017,00000255,00000291,12002436	No	733170	Y	Halff Identification Process
121000006	8402 Battle Intense Low Water Crossing	Battle intense is often shut down in large rain events. Debris collects and damages this low water crossing	12000011,12000013,12000014	Bexar	12100304	121003040103	12000063	0	Riverine,	12002436	00000007,00000255,00000282,12002436	No	1E+06	Y	Halff Identification Process
121000007	Battle Intense LWC Flow-activated Sensors	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road.	12000005	Bexar,Comal	12100304	121003040103	12000063	0	Riverine,	12002436	00000007,00000014,00000255,00000282,00000291,12002436	Yes	179792	Y	Halff Identification Process
121000008	Rolling Acres Trail LWC Flow-activated Sensors	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road.	12000005	Kendall	12100304	121003040103	12000063	0.01	Riverine,	12002436	00000017,00000255,00000291,12002436	No	359585	Y	Halff Identification Process
121000012	Damage Center 1 (Stockdale Creek)	Stockdale Creek Stream Restoration with a natural channel design	12000029,12000030	Wilson	12100304	121003040401	12000060	0.02	Riverine,	12003182	00000100,00000255,00000282,12003182	Yes	4E+06	Y	Halff Identification Process
121000013	Karnes County Damage Centers Karnes A	Multiple structures at risk Within San Antonio River at US 181	12000011,12000013,12000014	Karnes	12100303	121003030202	12000030	0	Riverine,	12002974	00000095,00000255,00000282,12002974	No	4E+06	Y	Halff Identification Process
121000015	Master Drainage Plan	A detailed drainage study of the city of Selma	12000011,12000013,12000014	Bexar,Guadalupe,Comal	12100304	121003040201,121003040202	12000066,12000069	5.02	Riverine, Urban,	12003258	00000007,00000010,00000014,00000255,00000282,00000291,00001485,12002512,00002671,12002967,12003258,12003327	Yes	577600	Y	Halff Identification Process
121000016	Antonio Drive Drainage Improvements	Bridge at Los Reyes Creek and Antonio Dr	12000029,12000030,12000033	Bexar	12100302	121003020404	12000103	0	Riverine,	12003002	00000007,00000255,00000282,12003002	No	150000	Y	Halff Identification Process
121000017	French Creek at Guilbeau Road NWWC	A basic trapezoidal channel with side slopes of 3:1, representing an earthen channel	12000029	Bexar	12100302	121003020402	12000078	0.1	Riverine,	12003327	00000007,00000255,00000282,12003327	No	4E+06	Y	Halff Identification Process
121000018	Huebner Creek Flood Control Project Segment 1	The channel will be widened to 50” in front of Raymond Rimkus Park (6440 Evers Road) and then widened more from the park to the bridge.	12000029,12000030,12000033	Bexar	12100302	121003020405	12000104	0.07	Riverine,	12002511	00000007,00000255,00000282,12002511	Yes	2E+07	Y	Halff Identification Process
121000019	DC19: Salado Creek Tributary B	Improvement on IH 10 culvert crossing to reduce peak flood stages upstream of IH 10 channel improvements downstream of IH 10 to prevent peak flood stage increase	12000029	Bexar	12100301	121003010105	12000002	0.06	Riverine,	12003327	00000007,00000255,00000282,12003327	No	5E+06	Y	Halff Identification Process
121000020	LWC#41 Vance Jackson 200ft south of Scenic	Low Water Crossing needs Bridge/Culvert Improvements with possible advanced warning signals. Associated street reconstruction to include curbs, sidewalks, and driveway approaches be incorporated into the project.	12000029,12000033	Bexar	12100301	121003010201	12000008	0.01		12003327	00000007,00000255,00000282,12003327	Yes	283546	Y	Halff Identification Process
121000021	LWC 112.1 Pvt Rd. 300' North of Marbcah Rd.	Project consists of channel improvements and an outfall to Slick Creek to alleviate street flooding. Channel improvements include installing 10x4 MBC along the channel to improve flow at this portion of Slick Creek.	12000029	Bexar	12100302	121003020405	12000104	0.1		12003327	00000007,00000255,00000282,12003327	Yes	100000	Y	Halff Identification Process
121000022	LWC 100, Blakeley Area Drainage Improvement	This option consists of upsizing the Blakeley crossing to (3) 6'x3' RCB and providing a 7' bottom width concrete trap channel with 3:1 side slopes upstream of the crossing.	12000029	Bexar	12100301	121003010105	12000002	0	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	269346	Y	Halff Identification Process
121000024	LWC157 New Sulphur Springs Rd – East of LWC#156 New Sulphur Springs Rd – btwn S. Foster & Gardner	The proposed project will install 4-10' x 9' MBC at the LWC and reconstruct the The proposed project will replace the existing culvert system with a bridge approximately 1500' in length. The proposed bridge will span two streams at this location	12000029 12000029	Bexar Bexar	12100301 12100301	1210030103 121003010302	12000009 12000009	0.01 0.01	Riverine, Riverine,	120033 12003327	00000007,00000255,00000 00000007,00000255,00000282,00000392,12001595,12003327	Yes Yes	340797 2E+06	Y Y	Halff Identification Process Halff Identification Process
121000025	LWC #159.1 Southton Rd	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length.	12000029	Bexar	12100301	121003010204	12000013	0.01	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	963772	Y	Halff Identification Process
121000026	LWC #34 Sleepy Hollow @ Sunburst	This project requires the placement culverts or a bridge to eliminate a low water crossing . Street Reconstruction includes driveway approaches, curbs, and sidewalks as required.	12000029,12000033	Bexar	12100301	121003010201	12000008	0.02	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	938003	Y	Halff Identification Process
121000027	Damage Center 43-Olmos Creek Middle Reach near DeZavala	The depth of flooding for the 100-year event ranges between 0.10 and 3.82 feet, therefore, buyouts do not appear to be a practical solution	12000025	Bexar	12100301	121003010201	12000008	0.26	Riverine,	12003000	00000007,00000255,00000282,12003000	No	9E+06	Y	Halff Identification Process
121000028	Damage Center 4- Apache Creek	Majority of the flooding is caused by the undersized culverts downstream of West Woodlawn, providing addition of box culverts will provide adequate capacity to the existing storm drain system	12000029	Bexar	12100301	121003010202	12000010	0.14	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	9E+06	Y	Halff Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000029	Apache Creek & Elmendorf Lake Dam	The Elmendorf Lake Dam area is prone to flooding and will require an extensive drainage project to mitigate the floodplain. A Preliminary Engineering Report (PER) will need to be provided to assess a feasible solution	12000013	Bexar	12100301	121003010202	12000010	0.61	Riverine,	12003327	00000007,00000255,00000282,12003327	Yes	350000	Y	Halff Identification Process
121000030	Cibolo Creek Tributary 19 Mapping Improvements	Alternative Anylsis and Project recommendation	12000011,12000013,12000014	Comal	12100304	121003040105,121003040104	12000061,12000064	0.82	Riverine,	00002669	00000014,00000255,00000291,00002121,00002669	No	100000	Y	Halff Identification Process
121000031	Indian Creek Mapping Improvements	Alternative Anylsis and Project recommendation	12000011,12000013,12000014	Comal	12100201, 12100304	121003040104,121002010404,121002010401	12000064	13.08	Riverine,	00002669	00000014,00000255,00000291,00002669	Yes	100000	Y	Halff Identification Process
121000032	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030204,121003030202	12000027,12000030	0.91	Riverine, Urban,	12002974	00000095,00000255,00000282,12002974	No	50000	Y	Halff Identification Process
121000033	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021,12000022	Karnes	12100303	121003030401,121003030402,121003030403,121003030205,121003030206	12000020,12000021,12000022,12000034,12000037	2.31	Riverine,	00000095	00000095,00000255,00000282,00000519,12002756	No	100000	Y	HDR Identification Process
121000034	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030402	12000021	3.67	Riverine, Urban,	12002975	00000095,00000255,00000282,00000519,12002975	No	50000	Y	Halff Identification Process
121000035	Mitigate local flooding in identified problem areas	Identify problem flooding areas and implement a program to reduce loaclized flooding	12000011,12000013,12000014	Wilson	12100303	121003030204,121003030105	12000027,12000035	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	5000	Y	Halff Identification Process
121000036	Develop and implement a Stormwater Management Plan for Stockdale Creek	Stockdale Creek, sa tributary of Clinton Branch which flows into Cibolo Creek, does not have sufficient capacity to contain floodwater as it flows through the center of Stockdale. The railroad on the east side of town used to act as a levee, but when it	12000013,12000014	Wilson	12100304	121003040401	12000060	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	No	1E+06	Y	Halff Identification Process
121000037	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021,12000022	Karnes	12100303	121003030204,121003030202	12000027,12000030	0.91	Riverine, Urban,	12002974	00000095,00000255,00000282,12002974	No	100000	Y	HDR Identification Process
121000038	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030401,121003030402,121003030403,121003030205,121003030206	12000020,12000021,12000022,12000034,12000037	2.31	Riverine,	00000095	00000095,00000255,00000282,00000519,12002756	No	50000	Y	Halff Identification Process
121000039	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021,12000022	Karnes	12100303	121003030306,121003030404	12000016,12000023	1.18	Riverine, Urban,	12002757	00000095,00000255,00000282,00001006,12002757	No	100000	Y	HDR Identification Process
121000040	Install early warning systems	Conduct a feasibility study that evaluates the coverage area, property ownership and availability, power requirements, telemetry requirements, technology, cost, and other local considerations. Based on study findings, install an emergency warning systems	12000013,12000014	Wilson	12100303	121003030204,121003030105	12000027,12000035	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	100000	Y	Halff Identification Process
121000041	Drainage Study Marcelinas Creek and its major tributary	Marcelinas Creek has a floodplain that runs through the center of the city. Install stream gauges and identify alternatives to mitigate flooding. Implement study findings.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	No	250727	Y	Halff Identification Process
121000043	Drainage improvements to wastewater treatment plants	A drainage improvement was completed in 2018 with 2016 disaster relief funding. Internal plumbing was buried and the size of the weir box was increased. Funding and improvements are still needed to connect 2 and 3 and cross CR401 to increase discharge ca	12000029,12000030,12000033	Wilson	12100304	121003040401	12000060	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	852326	Y	Halff Identification Process
121000044	New Bridges on 6th and 8th Streets	New construction of waterway bridges on 6th and 8th Streets crossing Stockdale Creek. Lift elevation profile of the two bridges that provide access to critical facilities and services within the city as well as access from the City to the surrounding reg	12000029,12000030	Wilson	12100304	121003040401	12000060	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	651454	Y	Halff Identification Process
121000045	Detention/Retention pond on school property	Install a Detention/Retention pond and reservoir to store excess stormwater on school property along Fordtran Street	12000029,12000030	Wilson	12100304	121003040401	12000060	1.68	Riverine, Urban,	12003182	00000100,00000255,00000282,12003182	Yes	2E+06	Y	Halff Identification Process
121000046	7840 Silver Spur Trail	Runoff collects from the northside of the city and passes this point before passing under Keeneland then to the Cibolo Creek Post Oak Creek low water crossing.	12000033	Kendall	12100304	121003040103	12000063	0		12002436	00000017,00000255,00000291,12002436	No	295351	Y	Halff Identification Process
121000047	8410 Noble Lark Dr	Regrade channel and install erosin control measures, repair the eroded foundation of the culvert headwall	12000029,12000030	Bexar	12100304	121003040103	12000063	0		12002436	00000007,00000255,00000282,12002436	No	165562	Y	Halff Identification Process
121000048	D/O Center A (Old Pearsall road at Medio Creek)	Old Pearsall Rd overtopping at Medio Creek Bridge and backwater conditions created from RailRoad Bridge DS Old pearsall rd	12000011,12000013,12000014	Bexar	12100302	121003020504	12000106	0.04	Riverine	12003327	00000007,00000255,00000282,12003327	No	2E+06	Y	Halff Identification Process
121000049	Damage Center 1 Project2A – Improved crossing at U.S. Highway 181	Creek crossing improvements on HWY 181. Ponding upstream to an elevation that inundates adjacent homes.	12000029,12000030	Wilson	12100303	121003030204	12000027	0	Riverine	12003181	00000100,00000255,00000282,12003181	No	2E+06	Y	Halff Identification Process
121000052	Damage Center 2 (South Tributary to Stockdale Creek)	Detention South Tributary to Stockdale Creek near the eastern city limit	12000029,12000030	Wilson	12100304	121003040401	12000060	0.03	Riverine	12003182	00000100,00000255,00000282,12003182	No	660768	Y	Halff Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000053	Parrigin Road Drainage Improvements	Parrigin Road low water crossing at Helotes Creek Tributary A floods frequently, limiting access for nearby residences	12000011,12000013,12000014	Bexar	12100302	121003020404	12000103	0	Riverine	12003002	00000007,00000255,00000282,12003002	No	295580	Y	Halff Identification Process
121000054	Detailed Study of Unnamed Trib 3 to Helotes Creek	Detailed hydrologic and hydraulic study is needed to determine appropriate drainage improvements.	12000011,12000013,12000014	Bexar	12100302	121003020404	12000103	0.02	Riverine	12003002	00000007,00000255,00000282,12003327	Yes	40000	Y	Halff Identification Process
121000055	Detailed Study of Culebra Creek Trib C	Three low water crossings of Culebra Creek Tributary C, Beverly Hill Drive, Doheny at FM 1560, and FM 1560. A detailed hydrologic and hydraulic study is needed to determine appropriate drainage improvements	12000011,12000013,12000014	Bexar	12100302	121003020403	12000102	0.15	Riverine	12003002	00000007,00000255,00000282,12003002	Yes	65000	Y	Halff Identification Process
121000056	Inventory of residences in floodplain	Identify residential structures that are located in flood zones or high hazard areas and develop plan and implement a program for floodproofing or acquistion.	12000011,12000013,12000014	Karnes	12100303	121003030306,121003030404	12000016,12000023	1.18	Riverine, Urban	12002757	00000095,00000255,00000282,00001006,12002757	No	50000	Y	Halff Identification Process
121000057	French Creek RSWF	An on-channel RSWF provides approximately 150 acre-feet of storag	12000029	Bexar	12100302	121003020402	12000078	0.03	Riverine	12003327	00000007,00000255,00000282,12003327	No	6E+06	Y	Halff Identification Process
121000058	Culebra Creek Tributary A at Tezel Road Enhanced Conveyance	Increasing the flow area by widening the channel and increasing its side slope	12000029	Bexar	12100302	121003020404	12000103	0.18	Riverine	12003327	00000007,00000255,00000282,12003327	No	4E+06	Y	Halff Identification Process
121000059	Helotes Creek at Bandera Road Enhanced Conveyance	Channel modifications were designed as a basic trapezoidal channel with side slopes of 3:1.	12000029	Bexar	12100302	121003020404	12000103	0.18	Riverine	12003327	00000007,00000255,00000282,12003002	No	907127	Y	Halff Identification Process
121000060	Helotes Creek RSWF	An off-channel RSWF provides approximately 3330 acres-ft oof storage.	12000029	Bexar	12100302	121003020404	12000103	0.42	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	5E+06	Y	Halff Identification Process
121000061	Hubner Creek Flood Protection Barier	This project includes proposed Flood Protection Barrier between Ingram Road and Culebra Road	12000029	Bexar	12100302	121003020402,121003020404,121003020405	12000078,12000103,12000104	0.57	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	2E+07	Y	Halff Identification Process
121000062	Damage Center 5-Salado Creek Trib F	Approximately 4,487 feet of channel improvements as well as constructing two inline reservoirs.	12000029	Bexar	12100301	121003010104	12000004	0.96	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	8E+06	Y	Halff Identification Process
121000063	Damage Center 3-Lorence Creek	Approximately 10,000 feet of channel improvement. The proposed drainage improvements reduces the occurrence of structural flooding in several areas along the banks of the creek.	12000029	Bexar	12100301	121003010103	12000005	0.72	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	2E+06	Y	Halff Identification Process
121000064	DC13/14: Walzem Creek	A proposed combination of regional detention and channel improvement to reduce flooding on Walzem Creek.	12000029	Bexar	12100301	121003010105	12000002	0.18	Riverine	12003327	00000007,00000255,00000282,12001486,12002476,12003327	Yes	2E+06	Y	Halff Identification Process
121000065	Damage Center 2- Martinez Creek	The downstream culvert system creates a backwater which will continue to affect properties near the inlet of that structure. Improved channelization and culvert/bridge replacement and voluntary property acquisition	12000029	Bexar	12100301	121003010202	12000010	0.24	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	1E+07	Y	Halff Identification Process
121000068	Normoyle Ditch - Alt 1	Channel improvements are proposed from the Six Mile Creek outfall up to approximately 200 feet upstream of New Laredo Hwy. The project area was limited to the area south of Kelly AFB as the majority of habitable structures area	12000029,12000033	Bexar	12100302	121003020406	12000105	0.37		12003327	00000007,00000255,00000282,00000392,12003327	No	150000	Y	Halff Identification Process
121000069	LWC 42 Dreamland south of RR Xing	The project will consist of proposed Bridge crossing with +/- 6300 LF of total channel grading upstream and downstream and excavating to eliminate a low water crossing. Street reconstruction includes driveway approaches, curbs, and sidewalks as required	12000029,12000033	Bexar	12100301	121003010201	12000008	0.14	Riverine	12003327	00000007,00000255,00000282,00000392,12002439,12003327	Yes	770000	Y	Halff Identification Process
121000070	LWC No 113-116 and Associated Channel Improvements	This project proposes to upgrade LWC 115 & 116 and construct an underground storm system on Military to tie into the existing earthen channel. The underground system will consist of 10' curb inlets, 6'x3' box culverts, 24"-42" (RCP),outfall structures	12000029	Bexar	12100302	121003020405	12000104	0.04		12003327	00000007,00000255,00000282,12003327	Yes	917274	Y	Halff Identification Process
121000071	LWC# 91 Weidner 500 ft N of Schertz	Construct a bridge on Weidner Rd. to pass a 100 yr storm to replace LWC# 91, to include curbs and sidewalks. This project will require channel excavation. This LWC is not within a FEMA floodplain.	12000029,12000033	Bexar	12100301	121003010104	12000004	0.01		12003327	00000007,00000255,00000282,12003327	No	699299	Y	Halff Identification Process
121000072	LWC #15 Copperhill Between Parkstone & Happy Hollow	Low Water Crossing #15 has approximately 128 acres of storm water that is conveyed through this crossing. This project proposes to construct an underground drainage system to assist in the conveyance of runoff crossing through this section	12000029	Bexar	12100301	121003010103	12000005	0		12003327	00000007,00000255,00000282,12003327	Yes	238773	Y	Halff Identification Process
121000073	LWC #13 West Ave. @ Interpark	Since approximately 2006, residents have complained about flooding within a low point on West Ave. Approximately 173 acres drains through this area. This project will construct an underground drainage system with an earthen channel	12000029	Bexar	12100301	121003010102	12000001	0		12003327	00000007,00000255,00000282,12003327	Yes	1E+06	Y	Halff Identification Process
121000074	New Sulphur Springs – East of Lodi Rd	This project will install a cross arm/barricade at the LWC. Construction of a bridge or culvertinstallation	12000029,12000033	Bexar	12100301	121003010302	12000009	0.03	Riverine	12003327	00000007,00000255,00000282,00000392,12003327	Yes	430558	Y	Halff Identification Process
121000075	LWC #71 Danville and Overbrook	This project requires the replacement of existing low water crossing on Danville with an upgraded culvert (2-10'X10' MBC) or bridge to eliminate a low water crossing with some channel modifications upstream and downstream of the crossing	12000029,12000033	Bexar	12100301	121003010202	12000010	0.01	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	3E+06	Y	Halff Identification Process

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FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000076	LWC#72 Spencer Lane, east of Balcones Rd.	During a rain storm event, storm water runoff from the East Woodlawn Ditch overtops the road. This project proposes the construction of a culvert crossing to include an associated energy dissipation system, headwall, and outfall structures.	12000029	Bexar	12100301	121003010202	12000010	0	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	487970	Y	Halff Identification Process
121000077	Mahncke Park Outfall	To convey the 100-yr ultimate development and relieve the current backwater conditions. This project proposes drainage improvement to watershed SA4.To reduce clogging and increase effciency.	12000029	Bexar	12100301	121003010201	12000008	0.08	Riverine	12003327	00000007,00000255,00000282,12003327	No	2E+06	Y	Halff Identification Process
121000079	Damage Center 40-San Antonio River DS Reach near Roosevelt	Three lots have 100-year flood depths greater than 2 feet and were therefore not considered for flood-proofing. Due to its location between parks,it appears reasonable to be buyout the flooed properties and continue the park	12000025	Bexar	12100301	121003010203	12000011	0.31	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	250000	Y	Halff Identification Process
121000081	Damage Center 38-Olmos Creek Lower Reach Near Montview	Flooding occurs on the left overbank and begins just upstream of Montview. A total of 10 lots are impacted by the 100-year storm event and the depth of flooding ranges between 0.10 and 0.15 feet.Flood depths are less than 0.5 feet; therefore	12000029	Bexar	12100301	121003010201	12000008	0.05	Riverine	12003327	00000007,00000255,00000282,00000392,12003327	No	250000	Y	Halff Identification Process
121000082	Damage Center 3- Zarzamora Creek	The proposed earthen channel would begin upstream of the pedestrian bridge and end approximately 780 feet downstream of Ingram Road	12000029	Bexar	12100301	121003010202	12000010	0.55	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	3E+07	Y	Halff Identification Process
121000083	Damage Center 6- Martinez Creek	Voluntary Property Acquisition is the only option that would be recommended under current regulatory and funding scenarios	12000025	Bexar	12100301	121003010202	12000010	0.66	Riverine	12003327	00000007,00000255,00000282,12003327	No	4E+07	Y	Halff Identification Process
121000084	Damage Center 7- Zarzamora Creek	Based on the value of the homes within this damage center, VPAs appear to be a practical option that may be well received	12000025	Bexar	12100301	121003010202	12000010	0.51	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	1E+07	Y	Halff Identification Process
121000085	Damage Center 9- Alazan Creek	severe flooding upstream of South Colorado Street, where the majority of the buildings flood during the 10&50 yr. Channel improvments	12000029	Bexar	12100301	121003010202	12000010	0.36	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	2E+07	Y	Halff Identification Process
121000086	Damage Center 14- Airport Trib	There are four bridges within this Damage Center, of which all overtop during the 1% AC storm event. Voluntary Acquisition of 79 residential propoerties that are compromised	12000025	Bexar	12100301	121003010104,121003010201	12000004,12000008	0.35	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	250000	Y	Halff Identification Process
121000087	Damage Center 19- San Pedro Creek	A lateral detention project is recommended to reduce the Camaron Street spill which will also provide some minor relief to the storm sewer surcharges at West Elmira Street, Cadwallader Street, Marshall Street, and Hill Street	12000029	Bexar	12100301	121003010202	12000010	0.11	Riverine	12003327	00000007,00000255,00000282,12003327	No	9E+06	Y	Halff Identification Process
121000088	Damage Center 20-Matinez Creek	Lateral detention is a viable alternative for this project and could be used in conjunction with VPA, and reduced channelization, to meet the desired outcomes of multi-use functionality and flood reduction.	12000029	Bexar	12100301	121003010202	12000010	0.26	Riverine	12003327	00000007,00000255,00000282,12003327	No	2E+07	Y	Halff Identification Process
121000089	Damage Center 23-New Braunfels, Austin Hwy, Broadway Drain	Reduce regional flooding and remove secure safe passage during 100 yr event. Utilizes a combined regional and local trunkline of 4'x4' and new outfall near Patterson Avenue.	12000029	Bexar	12100301	121003010201	12000008	0.88	Riverine	12003327	00000007,00000255,00000282,12002437,12002475,12003327	No	2E+07	Y	Halff Identification Process
121000090	Damage Center 32-Six Mile Creek	the proposed pond would have a direct impact on the flow in Normoyle Ditch, it is recommended that the required drainage structures be r.eanalyzed	12000013,12000014	Bexar	12100301	121003010203	12000011	0.56	Riverine	12003327	00000007,00000255,00000282,00000392,12003327	Yes	9E+06	Y	Halff Identification Process
121000091	Damage Center 34-State Hospital Creek	the channelization project will have to be constructed to remove all structures from the 1% annual chance storm event floodplain	12000029	Bexar	12100301	121003010203	12000011	0.26	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	2E+06	Y	Halff Identification Process
121000092	LWC at Ammann Rd and Post Oak Creek	Improve the low water crossing at Ammann Road and Post Oak Creek	12000029	Kendall	12100304	121003040103	12000063	0.09	Riverine	00000017	00000017,00000255,00000291	No	100000	Y	Halff Identification Process
121000094	Damage Center 31-Rockwood Creek	Limits of the effective DFIRM model are incorrect based on the DFIRM hydrology if the hydrology is re-evaluated to take into account the limiting factor of the storm drain system, the actual flow to Rockwood Crk is less than the DFIRM flow	12000029	Bexar	12100301	121003010203	12000011	0.15	Riverine	12003327	00000007,00000255,00000282,12003327	Yes	150000	Y	Halff Identification Process
121000095	FM 1863 at Cibolo Creek LWC	Replace low water crossings at two locations(US &DS) where FM1863 crossing Cibolo Creek with bridges.	12000030	Bexar, Comal	12100304	121003040201	12000066	0.06	Riverine	00000007	00000007,00000014,00000255,00000282,00000291,00002669	Yes	150000	Y	Halff Identification Process
121000096	Install pipe gates to close off streets	Install automated systems at low-water crossings with high rate of vehicular access resulting in frequency of accidents and loss of life.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	3.18	Riverine, Urban,	12003181	00000100,00000255,00000282,12003181	Yes	250000	Y	Halff Identification Process
121000097	LWC# 101 Rittiman Creek @ Gibbs Sprawl	This proposed planning study adds culverts at the railroad crossing, upgrades the earthen channel in the park from the westerly property line to Rittiman road, and installation of larger box culverts at the Gibbs Sprawl LWC which requires Gibbs Sprawl	12000029	Bexar	12100301	121003010106	12000007	0.12	Riverine	12003327	00000007,00000255,00000282,00000392,12003327	Yes	4E+06	Y	Halff Identification Process
121000098	Maintain Drainage System	Improve storm water drainage within residential and commercial areas by removing brush and debris,opening and widening waterways, restricting building in the flood zone, and widening bridges. Status or project was 90% complete in 2012 plan awaiting purch	12000029,12000030,12000033	Wilson	12100304	121003040401	12000060	1.68	Riverine, Urban	12003182	00000100,00000255,00000282,12003182	Yes	2E+06	Y	Halff Identification Process
121000099	Upper Martinez Creek Improvements	Improvements to already channelized section of Martinez Creek (Cibolo Watershed) from Montgomery Dr to Walzem Rd and bridge improvements at Gibbs Sprawl Road	12000029	Bexar	12100304	121003040205	12000071	0.02	Riverine	12003327	00000007,00000255,00000282,00000392,12003327	No	2E+06	Y	Halff Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000100	Recommend for Wilson Roadways - Project 4 - Mariana Rd & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	0	Riverine	00000100	00000100,00000255,00000282	Yes	100000	Y	HDR Identification Process
121000101	Recommend for Wilson Roadways - Project 5 - CR 108 & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	0	Riverine	00000100	00000100,00000255,00000282,00000290	Yes	100000	Y	HDR Identification Process
121000102	Erosion at CR 401 and Cibolo Creek	Phase I: Engineering study of design solutions to erosion of CR 401 at Cibolo Creek.Phase II: Implementation of stabilization project to address stream incision and erosion CR 401 at Cibolo Creek.	12000034	Wilson	12100304	121003040401	12000060	0	Riverine	00000100	00000100,00000255,00000282	Yes	100000	Y	HDR Identification Process
121000103	Erosion on CR 202 East and Marcelina Creek	Phase I: Engineering study of design solutions to erosion of CR 202 at Marcelina Creek. Phase II: Implementation of stabilization project to address stream incision and erosion CR 202 at Marcelina Creek.	12000030	Wilson	12100303	121003030204	12000027	0	Riverine	00000100	00000100,00000255,00000282	Yes	100000	Y	HDR Identification Process
121000105	Flat Creek Study	Update details on both current and expected ultimate watershed build-oit conditions, Identify at-risk infrastructure and detail oppurtunities for flood reduction, and provide mitigation plans with regard to risk due to delevopment.	12000014	Medina	12100302	121003020501,121003020502	12000081,12000107	5.8	Riverine	12003377	00000005,00000255,12003377	Yes	500000	Y	HDR Identification Process
121000106	Goliad Damage Center A	Vegetated swales along Bungalow Ave and N San Patricio St	12000032,12000012	Goliad	12100303	121003030604	12000049	0.01	Riverine	00000090	00000090,00000264,00000282,12002986	No	50000	Y	HDR Identification Process
121000107	Goliad Damage Center B	Construct dam north of W. Ward St	12000026,12000012	Goliad	12100303	121003030604	12000049	0.02	Urban	00000090	00000090,00000264,00000282	No	100000	Y	HDR Identification Process
121000108	Kempf Creek Watershed Study	H&H Study. Alternatives analysis for regional flood conveyance systems. Project identification and recommendations.	12000014	Medina	12100302	121003020501	12000081	4.87	Riverine,	12003377	00000005,00000255	Yes	150000	Y	HDR Identification Process
121000109	Lower Basin Predictive Flood Model	Lower Basin Predictive Flood Model	12000012	De Witt,Wilson,Bexar,Guadalupe,Refugio,Calhoun,Goliad,Victoria,Karnes	12100202, 12100301, 12100303, 12100304, 12110110			1481.11	Riverine, Coastal, Urban	00000282	00000005,00000255	Yes	1E+06	Y	HDR Identification Process
121000110	Culvert improvement on Hatch St in Tivoli	The bridge on Hatch Street in Tivoli was replaced with a culvert which drains slow and causes the water to breach the levee. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	0	Urban	Tivoli Community	00000084,00000260,00000291,00000758,12001057,00001608	No	150000	Y	HDR Identification Process
121000111	Culvert Improvement on Highway 239 in Tivoli	Culverts on Highway 239 in Tivoli are too small causing water to get in houses. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	0	Riverine, Urban	Tivoli Community	00000084,00000260,00000291,00000758,12001057,00001608	No	150000	Y	HDR Identification Process
121000112	Miller Creek on the Smoky Creek Ranch Drainage Improvements	Miller Creek on the Smoky Creek Ranch drains Tivoli and the surrounding area which is washing out property where Indian artifacts were found. Study to find alternatives to determine solutions for this drainage issue.	12000030	Refugio	12100404	121004040000	12000073	0.01	Riverine, Coastal	Tivoli Community	00000084,00000260,00000291,00000714,00000758,00001608	No	150000	Y	HDR Identification Process
121000113	New Drainage Analysis to Update/Revise Flood Maps	This action proposes performing a new drainage analysis for the community to update/revise Flood Maps to better identify areas subject to this Hazard; last study completed in September 1977.	12000014	Medina	12100302	121003020501,121003020503	12000081,12000108	0.63	Riverine	12002954	00000005,00000255,12002954	Yes	100000	Y	HDR Identification Process
121000114	Low Water Crossing Upgrades	Prioritize low water crossings within Karnes County and upgrade with higher level of flood protection, warnings, and signage	12000014,12000007	Atascosa,De Witt,Wilson,Goliad,Karnes	12100202, 12100303, 12100304, 12110110		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	749.22	Riverine, Urban	00000095	00000095,00000096,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	No	305000	Y	HDR Identification Process
121000116	Recommend for Wilson Roadways-Project 3-CR 122 & Mariana Creek	Upgrade crossing so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	0	Riverine	00000100	00000100,00000255,00000282	Yes	100000	Y	HDR Identification Process
121000118	La Vernia Issue # 5 (Hwy 87 crossing and CR 342)	Study to assess city acquiring drainage easements in the area upstream of the Highway 87 crossings, as well as the area between the crossings at Highway 87 and the crossing at CR 342 for the purpose of constructing a channel.	12000016	Wilson	12100304	121003040302	12000056	0.03	Riverine	12003180	00000100,00000255,00000282,00000392,12003180	No	150000	Y	HDR Identification Process
121000119	La Vernia Issue # 2 and # 3 (City Park/ La Vernia ISD)	Study to assess 6'-wide concrete-bottom channel/sidewalk with earthen sides (graded 5:1) be constructed through this area to better define the flow path. Gauge boards on San Antonio Road. Aquire 25'-wide drainage easements.	12000013,12000032	Wilson	12100304	121003040302	12000056	0.07	Riverine	12003180	00000100,00000255,00000282,00000392,12003180	Yes	150000	Y	HDR Identification Process
121000120	Escondidio Creek WS SCS Site 1, 2, 4 Dam	Rehabilitation of Escondido Creek 1,2, and 4 to ensure passage of the PMF.	12000030	Karnes	12100303	121003030402	12000021	0.13	Riverine	00000282	00000095,00000255,00000282,00000519	No	300000	Y	HDR Identification Process
121000121	Wilson County LWC Study	Study to evaluate the LWC in Wilson County and recommend alternatives both short term and long term alternatives. Some short term alternatives could include Low Water Signage, Turn Around Don't Drown, automatic gates. 195 LWC in Wilson County.	12000030	Atascosa,Wilson,Bexar, Guadalupe,Karnes	12100202, 12100301, 12100303, 12100304, 12110110		12000006,12000012,12000027,12000028,12000029,12000030,12000031,12000032,12000033,12000034,12000035,12000036,12000038,12000039,12000040,12000041,12000052,12000053,12000054,12000056,12000057,12000059,12000060,12000065,12000070,12000072	805.06	Riverine, Urban	00000100	00000007,00000010,00000095,00000096,00000100,00000255,00000264,00000282,00000290,00000291,00000392,12000592,00001006,12001595,12002442,12002925,00002973,12003180,12003181,12003182	Yes	300000	Y	HDR Identification Process
121000123	City of Floresville Flood Study	City wide study	12000013	Wilson	12100303	121003030102,121003030103	12000028,12000033	7.7	Riverine, Urban	12002925	00000100,00000255,00000282,12000592,12002925	No	100000	Y	HDR Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000124	Highway 16 Bridge Upgrade	Closes the road down which is the main access for citizens. Study to upgrade crossing.	12000030	Bandera	12100302	121003020203,121003020204	12000088,12000089	0.05	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000125	Bandera State Highway 173 Study	Prevents access to citizens from the city. Study to upgrade crossing.	12000030	Bandera	12100302	121003020204	12000089	0.01	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000126	Bandera English Crossing Study	This low water crossing can sometimes remain flooded for months. Study to upgrade road.	12000030	Bandera	12100302	121003020302	12000097	0.07	Riverine	00000011	00000011,00000255,00000339	Yes	100000	Y	HDR Identification Process
121000127	Bandera FM 2107 Study	FM 2107 is the only path for residents to access community lifelines.FM 2107 is the only path for residents to access community lifelines. Study to upgrade road.	12000030	Bandera	12100302	121003020103	12000082	0.14	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000128	Bandera Patterson Street Study	Impairs travel for citizens to reach community lifeline services. Study to upgrade road.	12000030	Bandera	12100302	121003020201	12000087	0.01	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000129	Bandera Lower Mason Creek and Bandera Creek at State Highway 16	Lower Mason Creek and Bandera Creek contribute to flooding at SH 16. Study to upgrade road.	12000030	Bandera	12100302	121003020204	12000089	0.01	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000130	Bandera WWTP Study	Wastewater treatment plant is in 100 yr floodplain. Study to find solutions.	12000028	Bandera	12100302	121003020203	12000088	0.03	Riverine	00000011	00000011,00000255,00000339,12003414	Yes	150000	Y	HDR Identification Process
121000131	Bandera 470 and Indian Creek Study	Blocks public access to lifelines in Bandera. Study to upgrade road.	12000030	Bandera	12100302	121003020203	12000088	0.02	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000132	Bandera 470 and Medina River Study	Blocks people of Tarpley from EMS and other lifelines in the city of Bandera. Study to upgrade road.	12000030	Bandera	12100302	121003020203	12000088	0.01	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000133	Natural capital inventory	Development of a dataset identifying lands under conservation easement. Project includes courthouse and deed records research to identify lands that are protected or have future development restrictions.	12000014	Atascosa,De Witt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201, 12100202, 12100301, 12100303, 12100304, 12110110, 12100302			4409.74	Riverine, Coastal, Urban	00000282	00000011,00000255,00000339	No	300000	Y	HDR Identification Process
121000134	Evaluation and prioritization of new gauge locations	Study to identify stream gage locations in the San Antonio River Basin and cost effective/resilient monitoring technologies.	12000014	Atascosa,De Witt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,A	12100201, 12100202, 12100301, 12100303,			4409.74	Riverine, Coastal, Urban	00000282	00000011,00000255,00000339	Yes	50000	Y	HDR Identification Process
121000135	Future conditions data refinement study	Future conditions data refinement study,study future landuse and apply to future models	12000013	Atascosa,De Witt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhou	12100201, 12100202, 12100301, 12100303, 12100304			4409.74	Riverine, Coastal, Urban	00000282	00000011,00000255,00000339	No	500000	Y	HDR Identification Process
121000136	Port of San Antonio Floodproofing	Port SA, site specific, study flood mitigation for critial structures	12000028	Bexar	12100302	121003020406	12000105	0.03		00000282	00000007,00000255,00000282,12003327	Yes	250000	Y	HDR Identification Process
121000137	River Authority WWTP Resilience	Study of all River Authority WWTP Resilience, finding alternatives for floodproofing	12000028	Atascosa,De Witt,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall,Kerr,Aransas,Refugio,Calhoun,Goliad,Victoria,Karnes	12100201, 12100202, 12100301, 12100303, 12100304, 12110110, 12100302			4409.74	Riverine, Coastal, Urban	00000282	00000007,00000255,00000282,12003327	Yes	600000	Y	HDR Identification Process
121000138	Bandera Substation In Floodplain Study	Electrical sub-station is in 100 yr floodplain. Study to find solutions.	12000028	Bexar	12100302	121003020405	12000104	0	Riverine	00000011	00000011,00000255,00000339	Yes	150000	Y	HDR Identification Process
121000139	Garcia Creek Channel Stabilization	Preliminary Engineering to identify stabilization methods and sizing.	12000030	Medina	12100302	121003020501	12000081	0.02	Riverine	12003377	00000005,00000255,12003377	No	50000	Y	HDR Identification Process
121000140	Country Village Channel Improvements	Preliminary Engineering including an H&H study to size the channel improvements	12000030	Medina	12100302	121003020501	12000081	0.11		12003377	00000005,00000255,12003377	No	50000	Y	HDR Identification Process
121000141	Lucas Creek at Cinco De Mayo Dr Bridge and Channel (DC-MRD)	Regional detention, channel improvements, and bridge/culvert upgrades, property acquisition	12000031	Bexar	12100302	121003020502,121003020503	12000107,12000108	0.97	Riverine	00000005	00000007,00000255,00000282,00000392	Yes	150000	Y	HDR Identification Process
121000142	Cagnon Rd at Polecat Creek (DC-MRN)	Replace the existing crossing with an approximately 320-foot long bridge.	12000031	Bexar	12100302	121003020503	12000108	0.04	Riverine	00000005	00000007,00000255,00000282,00000392	Yes	150000	Y	HDR Identification Process
121000143	Trumbo Rd at Palo Blanco Creek (DC-MRP)	Upgrades to Trumbo Rd and Loop 1604 crossings at Palo Blanco Creek with channel work.	12000031	Bexar	12100302	121003020509	12000094	0.25	Riverine	00000005	00000007,00000255,00000282,00000290,00000392	Yes	100000	Y	HDR Identification Process
121000144	Wet-Proof Wastewater System	This action proposes “wet-proofing” city sewer lines to the Wastewater Treatment Plant	12000028	Medina	12100302	121003020501,121003020503	12000081,12000108	0.63	Riverine	12002954	00000005,00000255,12002954	Yes	50000	Y	HDR Identification Process
121000146	Additional flood proof at wastewater treatment plant	Study to evaluate removing the WWTP from flood and erosion risk	12000028	Wilson	12100304	121003040302	12000056	0.02	Riverine	12003180	00000100,00000255,00000282,00000392,12003180	Yes	150000	Y	HDR Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000147	Recommend for Wilson Roadways - Project 7 - CR 119 & Mariana Creek	Study: Upgrade bridge so that it provides a safe evacuation route during large storm events.	12000030	Wilson	12100303	121003030104	12000032	0	Riverine	00000011	00000100,00000255,00000282	Yes	100000	Y	HDR Identification Process
121000148	Property acquisition and demolition and/or relocations	Property acquisition and demolition and/or relocations	12000022	Wilson	12100303	121003030102,121003030103	12000028,12000033	7.7	Riverine, Urban	12002925	00000100,00000255,00000282,12000592,12002925	No	2E+06	Y	HDR Identification Process
121000149	Damage Center 2: Project 1 Channelization	The channelization project would add 8 feet to the left bank of the channel, and the depth would be kept at its existing elevation. The project would remove two structures adjacent to the stream from the floodplain.	12000026	Wilson	12100303	121003030103	12000033	0	Riverine	12002925	00000100,00000255,00000282,12002925	No	100000	Y	HDR Identification Process
121000151	Repetitive loss properties	Offer relocation/mitigation incentives to current flood hazard area property owners; initiate a community program to acquire repetitive loss structures identified by FEMA.	12000024	Wilson	12100304	121003040304,121003040302	12000053,12000056	1.72	Riverine, Urban	12003180	00000100,00000255,00000282,00000392,12001595,12003180	Yes	150000	Y	HDR Identification Process
121000152	Nichols Creek Stabilization	Restoration of Nichols Creek to improve stream function including conveyance of flow and sediment.	12000026	Karnes	12100303	121003030402	12000021	0.02	Riverine	00000282	00000095,00000255,00000282,00000519,12002975	No	1E+06	Y	HDR Identification Process
121000153	Master Drainage Plan for Bexar County Unincorporated Areas	Engineering master plan to assess flood damage centers for Bexar County unincorporated areas.	12000024	Atascosa,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall	12100301,12100303,12100304,12110110,12100302			1253.25	Riverine, Urban	00000007	00000095,00000255,00000282,00000519,12002975	No	150000	Y	HDR Identification Process
121000154	Master Drainage Plan for Bexar County HALT Low Water	Engineering master plan to assess existing HALT sites for drainage improvements.	12000024	Atascosa,Wilson,Medina,Bexar,Guadalupe,Bandera,Comal,Kendall	12100301,12100303,12100304,12110110,12100302			1253.25	Riverine, Urban	00000007	00000095,00000255,00000282,00000519,12002975	No	150000	Y	HDR Identification Process
121000155	Culebra Creek RSWF	Engineering study to evaluate the Culebra Creek RSWF under the revised Green & Ampt hydrology.	12000030	Bexar	12100302	121003020402,121003020403,121003020404,121003020405	12000078,12000102,12000103,12000104	0.36	Riverine	00000007	00000007,00000255,00000282,00000392,12001484,12003327	Yes	50000	Y	HDR Identification Process
121000157	Rockwood Creek (SA-39)	Engineering study to assess the removal of properties and residential structures from the 100-Yr flood plain along Rockwood Creek upstream of the San Antonio River and River Side Golf Course.	12000026	Bexar	12100301	121003010203	12000011	0.13	Riverine	00000007	00000007,00000255,00000282,12003327	Yes	100000	Y	HDR Identification Process
121000158	Live Oak at Salitrillo Creek (CB-9)	Engineering study to assess removal of residential structures from the Salitrillo Creek 100-Yr flood plain upstream of Martinez Creek Dam No. 5.	12000027	Bexar	12100304	121003040205	12000071	0.78	Riverine	00000007	00000007,00000255,00000282,12002512,12002967	Yes	250000	Y	HDR Identification Process
121000160	Update flood information and policies	Study to compile information on residential property in flood zones, establish a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process based on the 100-year flood event	12000030	Atascosa,De Witt,Wilson,Goliad,Karnes	12100202,12100303,12100304,12110110		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	749.22	Riverine, Urban	00000095	00000095,00000096,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	Yes	100000	Y	HDR Identification Process
121000161	Holistic Watershed based master planning consistent with Nature Based Solutions	This Flood Management Evaluation (FME) will fill the knowledge gap in the region on the benefits of NFMS for floodplains, flood peak attenuation, ecosystem services, groundwater recharge, and recreational value	12000013	Wilson,Bexar	12100301,12100303,12100304,12110110,12100302		12000001,12000002,12000003,12000004,12000005,12000006,12000007,12000008,12000009,12000010,12000011,12000012,12000013,12000029,12000055,12000056,12000063,12000064,12000066,12000069,12000071,12000076,12000078,12000094,12000104,12000105	505.2	Riverine, Urban	00000282	00000084,00000260,00000291,00000714,00000758,00001608	Yes	2E+06	Y	HDR Identification Process
121000162	29010 Tivoli Way	Utilize existing stormwater infrastructure by regrading the roadway to slope towards existing inlets and open channels on the north and south side of Windermere Dr on the east side of Fair Oaks Parkway. New curb installed along the west side of Fair Oak	12000029,12000030	Bexar	12100304	121003040103	12000063	0		12002436	00000007,00000255,00000282,12002436	No	103952	Y	Halff Identification Process
121000164	Abbott Road and Graytown Road at Martinez Creek Study	A 2D hydraulic study flood study is needed to evaluate alternatives to remove these roads from overtopping. Priority should be placed on this study due to two deaths in 2021.	12000030,12000027	Bexar	12100304	121003040205	12000071	0.1	Riverine	00000007	00000282,00000392,12001595,00000255,00000007,12003004,00000821	Yes	300000	Y	HDR Identification Process
121000165	Cibolo Creek Spill Study	A 2D hydraulic study flood study is needed to evaluate spill flow from the creek. The spill starts 2,500ft upstream of the Bexar Bowling Way Crossing to 2,000ft north of Ullrich Road Crossing.	12000027	Bexar	12100304	121003040202,121003040206	12000069,12000072	1.22	Riverine	00000010	00000007,00000282,00000255,00000821,00000392,00000010,00000291	Yes	250000	Y	HDR Identification Process
121000166	FM1346 Crossing Upgrade Study	A hydraulic study is needed to evaluate alternatives to removing the FM1346 crossing from overtopping. Improvements to this road are important due to limited detour routes available.	12000030	Bexar	12100304	121003040301,121003040302	12000055,1200056	0.13	Riverine	00000007	12003004,00000007,00000392,12001595,00000255,00000282	No	150000	Y	HDR Identification Process
121000167	Live Oak Slough Creek Improvements Study	The residents living along this slough are experiencing run-off water damage to their land causing the Live Oak Slough Creek to widened, and leaving them with less land usage.	12000027	Bexar	12100302	121003020505	12000109	0.02	Riverine	12003318	12003318,00000255,00000282,00000007	No	250000	Y	HDR Identification Process

Table 15. Flood Management Evaluations Recommended by RFPG

FME ID	FME Name	Description	Associated Goals	Counties	HUC8s	HUC12s^	Watershed Names	FME Study Area (sqmi)	Flood Risk Type	Sponsor	Entities Oversight	Emergency Need	Etimated Study Cost	RFPG Recommendation	Reason for Recommendation
121000168	North Benton City Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020505	12000109	0.01	Riverine	12003318	12003318,00000255,00000282,00000007	No	150000	Y	HDR Identification Process
121000169	Quintana Road Drainage Improvements Study	Study to improve the drainage around Quintana Road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020505	12000109	0.04	Riverine	12003318	12003318,00000255,00000282,00000007	No	250000	Y	HDR Identification Process
121000170	South Benton City Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020506	12000091	0.01	Riverine	12003318	12003318,00000255,00000282,00000007	Yes	150000	Y	HDR Identification Process
121000171	S Evans Rd Road Improvements Study	Study to improve the road and remove it from being flooded during heavy rains.	12000030	Bexar	12100302	121003020506	12000091	0.02	Riverine	12003318	00000255,00000282,00000007	Yes	150000	Y	HDR Identification Process
121000172	Trainer Hale at Cibolo Creek	Improvements on Low water crossing at Trainer Hale Rd and Cibolo Creek	12000030	Bexar, Guadalupe	12100304	121003040206	12000072	0.26	Riverine	00000007,00000010	00000007,00000010,00000255,00000282,00000291,00000392,00000821,12001595,00002973	Yes	150000	Y	Halff Identification Process
121000173	Delcrest Channel Improvements PER	Improvements to strom drains and upstream drainage system to improve street flooding in Dellcrest neighborhood.	12000029,12000030,12000033	Bexar	12100301	121003010106	12000007	0.02	Riverine	12003327	00000007,00000255,00000282,12003327	No	250000	Y	Halff Identification Process
121000174	Overbrook Outfall Drainage Project Phase 3	Upsizing the existing 9' RCP and two 12'x9' RCBs to capture 100-year flood event south of Overbrook Drive.	12000029,12000030,12000033	Bexar	12100301	121003010106	12000010	0.06	Riverine, Urban	12003327	00000007,00000255,00000282,12003327	No	250000	Y	Halff Identification Process
121000175	CR 326B at Ecleto Creek	Evaluate upgrades to existing bridge with consideration of backwater from San Antonio River	12000030	Karnes	12100303	121003030306	12000016	0.11	Riverine	00000095	00000095,00000255,00000282,00001006	Yes	100000	Y	HDR Recommended
121000176	CR 237 at Marcelinas Creek	Evaluate upgrades to existing bridge with consideration of backwater from San Antonio River	12000030	Karnes	12100303	121003030204	12000027	0.02	Riverine	00000095	00000095,00000255,00000282,12002974	Yes	100000	Y	HDR Recommended
121000177	City of Kenedy Flooding on Escondido Creek Tributary	Evaluate alternatives to mitigate flooding within City of Kenedy commercial area along Escondido Creek tributary	12000026	Karnes	12100303	121003030402	12000021	0.28	Riverine	00000095	00000095,00000255,00000282,00000519,12002975	Yes	100000	Y	HDR Recommended
121000178	Falls City Flooding from San Antonio River	Evaluate alternatives to mitigate flooding from the San Antonio River affecting buildings in the City of Falls City	12000026	Karnes	12100303	121003030204,121003030202,121003030205	12000027,12000030,12000034	0.7	Riverine	00000095	00000095,00000255,00000282,12002974	Yes	100000	Y	HDR Recommended
121000179	San Antonio River Flooding on US 181	Evaluate alternatives to mitigate US 181 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030205	12000034	1	Riverine	00000095	00000095,00000255,00000282	Yes	100000	Y	HDR Recommended
121000180	Cibolo Creek Flooding on SH 123	Evaluate alternatives to mitigate SH 123 flooding from Cibolo Creek	12000030	Karnes	12100304	121003040405	12000057	0.58	Riverine	00000095	00000095,00000255,00000282	Yes	100000	Y	HDR Recommended
121000181	San Antonio River Flooding on SH 80	Evaluate alternatives to mitigate SH 80 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030206	12000037	0.17	Riverine	00000095	00000095,00000255,00000282	Yes	100000	Y	HDR Recommended
121000182	Localized Residential Flooding in City of Kenedy	Evaluate alternatives to mitigate localized residential flooding in the southern portion of the City of Kenedy	12000026	Karnes	12100303	121003030402	12000021	0.15	Urban	00000095	00000095,00000255,00000282,00000519,12002975	Yes	100000	Y	HDR Recommended
121000183	San Antonio River Flooding on SH 72	Evaluate alternatives to mitigate SH 72 flooding from the San Antonio River and tributaries	12000030	Karnes	12100303	121003030403,121003030404	12000022,12000023	0.38	Riverine	00000095	00000095,00000255,00000282,00000519	Yes	100000	Y	HDR Recommended
121000184	Karnes County FEWS	Flood Early Warning System	12000009	De Witt,Wilson,Goliad,Karnes	12100204, 12100303, 12100304, 12100202, 12100406, 12110110, 12110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	751.06	Riverine	00000095	00000095,00000099,00000100,00000255,00000260,00000264,00000282,00000290,00000291,00000519,00000526,00001006,12002756,12002757,12002974,12002975	Yes	100000	Y	HDR Recommended

Table 16. Potentially Feasible Flood Mitigation Projects Recommended by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 8s	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Potential Funding Sources and Amount	Cost/ Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	Social Vulnrability Index (SVI)	RFPG Recommendation (Y/N)	Reason for Recommendation
123000001	PROJECT 1A - ADLER ROAD AT CURREY CREEK AND UNNAMED TRIBUTARY A	Improve low water crossings along Adler Road, channel regrading, curbs, sidewalks, street reconstruction	12000029, 12000030	Kendall	12100304	121003040102	12000062	LWC upgrade	0	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	1611124	- 0	4497	0	Y	N	N	0	2.5	0.26	Y	Halff Identification Process
123000002	PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY	Inline detention facility with culvert improvements	12000029, 12000030	Kendall	12100304	121003040102	12000062	Detention Pond	0.03	Riverine,	12002855	00000017,00000255,00000291	N	7013126	- 0	19577	0	Y	N	N	0	0.54	0.10	Y	Halff Identification Process
123000003	PROJECT 3 - CURREY CREEK REGIONAL DETENTION FACILITY	Inline detention facility with additional stormdrain imporvements	12000029, 12000030	Kendall	12100304	121003040102	12000062	Detention Pond	0.04	Riverine,	12002855	00000017,00000255,00000291,12002855	N	8908566	- 0	24868	0	Y	N	N	0	2.79	0.26	Y	Halff Identification Process
123000004	PROJECT 4 - SCHOOL STREET AT CIBOLO CREEK AND FREDERICK CREEK	Elevated bridge, channel grading, street reconstruction, curb, sidewalks, and driveways	12000034	Kendall	12100304	121003040101	12000058	LWC upgrade	0	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	5022915	- 0	0	0	Y	N	N	0	0.4	0.40	Y	Halff Identification Process
123000005	PROJECT 5D - OLD SAN ANTONIO STREET AT MENGER CREEK	Elevated bridge, channel grading, street reconstruction, curb, sidewalks, and driveways	12000029, 12000030	Kendall	12100304	121003040102	12000062	Infrastructure	0	Riverine,	12002855	00000017,00000255,00000291,12002855	N	3506563	- 0	0	0	Y	N	N	0	0.5	0.39	Y	Halff Identification Process
123000006	PROJECT 6 - JOHNS ROAD NEAR CIBOLO CROSSING SUBDIVISION	Storm drain, channel, increase capacity of existing detention	12000029, 12000030	Kendall	12100304	121003040101	12000058	Storm Drain	0.01	Riverine,	12002855	00000017,00000255,00000291,12002855	N	1421580	- 0	3968	0	Y	N	N	0	0.86	0.38	Y	Halff Identification Process
123000007	PROJECT 7 - SCHWEPPE AND HICKMAN STREET	Storm drain, and channel improvments	12000029, 12000030	Kendall	12100304	121003040102	12000062	Storm Drain	0.01	Riverine, Urban,	12002855	00000017,00000255,00000291,12002855	N	1990212	- 0	5556	0	Y	N	N	0	0.82	0.42	Y	Halff Identification Process
123000008	PROJECT 8 - JOHNS AND LOHMANN STREET	Storm drain and channel improvements	12000029, 12000030	Kendall	12100304	121003040101	12000058	Storm Drain	0	Riverine,	12002855	00000017,00000255,00000291,12002855	N	1705896	- 0	4762	0	Y	N	N	0	5.46	0.40	Y	Halff Identification Process
123000009	PROJECT 9 - UNNAMED TRIBUTARY A-SUBDIVISION FLOOD PROTECTION & MOBILITY PROJECT	Low water crossing improvemnts, channel improvements	12000029, 12000030	Kendall	12100304	121003040102	12000062	LWC upgrade	0.01	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	4833371	- 0	13492	0	Y	N	N	0	0.48	0.42	Y	Halff Identification Process
123000010	PROJECT 10 - E. BLANCO ROAD AT UNNAMED TRIBUTARY A	Improve low water crossings along Blanco Road, channel regrading, curbs, sidewalks, street reconstruction	12000034	Kendall	12100304	121003040102	12000062	LWC upgrade	0	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	1516352	- 0	4233	0	Y	N	N	0	4.1	0.42	Y	Halff Identification Process
123000011	PROJECT 11 - RIVER ROAD AT UNNAMED TRIBUTARY A	Improve low water crossings along River Road, channel regrading, curbs, sidewalks, street reconstruction	12000034	Kendall	12100304	121003040102	12000062	LWC upgrade	0	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	1326808	- 0	3704	0	Y	N	N	0	3.1	0.42	Y	Halff Identification Process
123000012	PROJECT 13 - HERFF AND ESSER ROAD IMPROVEMENTS AT CURREY AND CIBOLO CREEK	Bridge at Currey Creek and Esser Road, Bridge at Cibolo Creek and River Road, Channel grading, Roadway reconstruction	12000029, 12000030	Kendall	12100304	121003040102	12000062	Storm Drain	0.02	Riverine,	12002855	00000017,00000255,00000291,12002855	Y	14500113	- 0	40476	0	Y	N	N	0	1.7	0.35	Y	Halff Identification Process
123000013	PROJECT 12 - PLANT CHANNEL IMPROVEMENT	Channel improvements	12000029, 12000030	Kendall	12100304	121003040102	12000062	Channel	0	Riverine,	12002855	00000017,00000255,00000291,12002855	N	1232036	- 0	3439	0	Y	N	N	0	0.4	0.42	Y	Halff Identification Process
123000014	PROJECT 14 - EAST BOERNE REGIONAL LID	Proposed inline extended detention facility that provides water quality benefits to the urbanized tributary of Cibolo Creek and properties downstream of Scenic Loop Road	12000029, 12000030	Kendall	12100304	121003040102	12000062	Natural	0	Riverine,	12002855	00000017,00000255,00000291,12002855	N	663404	- 0	1852	0	Y	N	N	0	0.6	0.35	Y	Halff Identification Process
123000015	PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS	Channel regrading, curbs, sidewalks, street reconstruction. This project is dependent on projects 1A, 3, 12, and 13 being completed and Project 16 being implimented at the same time as this project to achieve the project benefits.	12000029, 12000030	Kendall	12100304	121003040102	12000062	Channel	0.01	Riverine, Urban,	12002855	00000017,00000255,00000291,12002855	Y	663404	- 0	1852	0	Y	N	N	0	1.33	0.10	Y	Halff Identification Process
123000016	PROJECT 16 - SOUTH CURREY CREEK CHANNEL IMPROVEMENTS	Low water crossing improvemnts, channel improvements. This project is dependent on projects 1A, 3, 12, and 13 being completed and Project 15 being implimented at the same time as this project to achieve the project benefits.	12000029, 12000030	Kendall	12100304	121003040102	12000062	LWC upgrade	0.01	Riverine,	12002855	00000017,00000255,00000291,12002855	N	1421580	- 0	3968	0	Y	N	N	0	1.33	0.42	Y	Halff Identification Process
123000017	Lewis Creek Alternative 1 Phase 1 & 2	Channel improvement, roadway improvement	12000029, 12000030, 12000033	Comal	12100304	121003040105	12000061	Channel	0.1	Riverine,	00000014	00000014,00000255,00000291,00002121,00002669	Y	6021778	- 0	151896	0	Y	N	N	0	0.11	0.10	Y	Halff Identification Process
123000018	Seeling Drainage Improvements	Install box culverts, grass lined channel construction	12000029, 12000030	Bexar	12100301	121003010202	12000010	Storm Drain	0.26	Riverine,	12003327	00000007,00000255,00000282,12003327	N	28367456	- 0	0	0	Y	N	N	0	0.62	0.44	Y	Halff Identification Process
123000019	Lewis Creek Tributary 2 Alternative 1 & 2	Channel widening/lowering, culvert improvement, roadway improvement	12000029, 12000030, 12000033	Comal	12100304	121003040105	12000061	Detention Pond	0.22	Riverine,	00000014	00000014,00000255,00000291,00002669	N	2939381	- 0	70242	0	Y	N	N	0	0.19	0.12	Y	Halff Identification Process
123000020	Lewis Creek Main	High water detection system. System includes warning signs, with flashers and automatic arm barricade.	12000005, 12000006	Comal	12100304	121003040105	12000061	Preparedness	0.1	Riverine,	00000014	00000014,00000255,00000291,00002121,00002669	Y	165184	- 0	4167	0	Y	N	N	0	0	0.10	Y	Halff Identification Process
123000021	Rock Creek - Alt 1	Reducing the height of the drop structure at the Olmos Creek outfall, Bridge replacements will be required for both the railroad crossing and West Ave.	12000029, 12000030	Bexar	12100301	121003010201	12000008	Infrastructure	0.52	Riverine,	12003327	00000007,00000255,00000282,00000392,12002439,12003327	Y	17640716	- 0	0	0	Y	N	N	0	0.1	0.65	Y	Halff Identification Process
123000022	Judson and Lookout LWC Improvement	Upgrade the low water crossings and the connecting/downstream channel	12000029, 12000030	Bexar	12100301	121003010104	12000004	LWC upgrade	0.03	Riverine,	12003327	00000007,00000255,00000282,12003327	Y	6301204	- 0	5665140	0	Y	N	N	0	0.9	0.44	Y	Halff Identification Process

Table 16. Potentially Feasible Flood Mitigation Projects Recommended by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 8s	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Potential Funding Sources and Amount	Cost/ Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	Benefit-Cost Ratio	Social Vulnrability Index (SVI)	RFPG Recommendation (Y/N)	Reason for Recommendation
123000023	Symphony Lane Voluntary Property Acquisition	Purchase 32 properties located west of the San Antonio River Symphony Reach, and along Pyron Ave and Symphony Lane.	12000025	Bexar	12100301	121003010203	12000011	Property Acquisition	0.42	Riverine,	12003327	00000007,00000255,00000282,12003327	Y	33019314	- 0	0	0	Y	N	N	0	0.4	0.98	Y	Halff Identification Process
123000024	Holbrook Road Improvements	Offset a portion of the roadway south of Woodburn Rd	12000033	Bexar	12100301	121003010105	12000002	Infrastructure	0.05	Riverine,	12003327	00000007,00000255,00000282,12003327	N	14608120	- 0	0	0	Y	N	N	0	0.01	0.55	Y	Halff Identification Process
123000025	Barbara Drive Drainage Improvements	Upsizing the boxes underneath Dellwood Drive and Oblate Drive. The improvements will also include reconstruction of the street and curb for the portion of Dellwood Drive and Oblate Drive within the project boundary	12000029, 12000030	Bexar	12100301	121003010201	12000008	Storm Drain	0.29	Riverine,	12003327	00000007,00000255,00000282,12003327	Y	27826948	- 0	682837	0	Y	N	N	0	0.04	0.64	Y	Halff Identification Process
123000026	Thames Drainage Channel Replacement - Alt 1	Replace the existing culverts at Blanco Rd., San Pedro Ave, Thames Dr, Private Dr and Dorsets.	12000029, 12000030	Bexar	12100301	121003010201	12000008	Storm Drain	0.19	Riverine,	12003327	00000007,00000255,00000282,00000392,12002439,12003327	N	28990748	- 0	0	0	Y	N	N	0	0.03	0.74	Y	Halff Identification Process
123000027	Shady Lane Dr.Voluntary Property Acquisition	This project consist primarily of property buy-outs within the floodplain to mitigate structural flooding to those properties.	12000025	Bexar	12100302	121003020401	12000076	Property Acquisition	0	Riverine,	12003327	00000007,00000255,00000282,12003327	N	1306982	- 0	0	0	Y	N	N	0	0.2	0.27	Y	Halff Identification Process
123000028	Concepcion Creek Improvements Project	Ph1. 54-ac detention, property acquisition and 10,000ft of storm drain systems and road reconstruction. Ph2. 1.36mi of Concepcion Creek channel improvements. Ph3. 2,300ft of (3)10x8 MBC systems	12000027 12000027	Bexar	12100301	121003010202,121003010203	12000010,12000011	Infrastructure	0.96	Riverine,	12003327	00000007,00000255,00000282,00000392,12003327	Y	204221504	None - 0	87461	0	N	N	N	0	0.1	0.92	Y	HDR Identification Process

Table 17: Potentially Feasible Flood Management Strategies Recommended by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watersheds	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal,	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Esitimated Total Stategy Cost ($)	Potential Funding Sources and Amount	Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommendation (Y/N)	Reason for Recommendation
122000001	Study the San Antonio River and its tributes	When the San Antonio River floods, the city is cutoff from the rest of the county (hospital and EMS) with islands lasting over a week. Install stream gauges and develop a study to identify solutions to flooding. SARA completed a study but County official	12000007	Karnes	12100303	121003030204,121003030202	12000027,12000030	Regulatory and Guidance	0.91	Riverine, Urban,	12002974	00000095 , 00000255 , 00000282 , 12002974	N	250000	0	0	N	N	N	N	Y	Halff Identification Process
122000002	San Antonio River drainage ownership study	Develop ownership and access understanding parcels fronting the San Antonio River and major tributaries to have better agreements and access to areas that need flood control mitigation and erosion control	12000001	Karnes	12100303	121003030204,121003030202	12000027,12000030	Education and Outreach	0.91	Riverine, Urban,	12002974	00000095 , 00000255 , 00000282 , 12002974	N	30000	0	0	N	N	N	N	Y	Halff Identification Process
122000003	San Antonio River drainage ownership mapping	Develop ownership and access understanding parcels fronting the San Antonio River and major tributaries to have better agreements and access to areas that need flood control mitigation and erosion control	12000001	Karnes	12100303	121003030401,121003030402,121003030403,121003030205,121003030206	12000020,12000021,12000022,12000034,12000037	Education and Outreach	2.31	Riverine,	12002756	00000095 , 00000255 , 00000282 , 00000519 , 12002756	N	30000	0	0	N	N	N	N	Y	Halff Identification Process
122000004	San Antonio River drainage ownership mapping	Develop ownership and access understanding parcels fronting the San Antonio River and major tributaries to have better agreements and access to areas that need flood control mitigation and erosion control	12000001	Karnes	12100303	121003030402	12000021	Education and Outreach	3.67	Riverine, Urban,	12002975	00000095 , 00000255 , 00000282 , 00000519 , 12002975	N	30000	0	0	N	N	N	N	Y	Halff Identification Process
122000005	San Antonio River drainage ownership mapping	Develop ownership and access understanding parcels fronting the San Antonio River and major tributaries to have better agreements and access to areas that need flood control mitigation and erosion control	12000001	Karnes	12100303	121003030306,121003030404	12000016,12000023	Education and Outreach	1.18	Riverine, Urban,	12002757	00000095 , 00000255 , 00000282 , 00001006 , 12002757	N	30000	0	0	N	N	N	N	Y	Halff Identification Process
122000006	Strengthen floodplain management ordinances	Adopt higher floodplain standards for new development	12000021, 12000022	Wilson	12100303	121003030204,121003030105	12000027,12000035	Regulatory and Guidance	3.18	Riverine, Urban,	12003181	00000100 , 00000255 , 00000282 , 12003181	Y	25000	0	0	N	N	N	N	Y	Halff Identification Process
122000007	Education Signage	Install educational signage such as "Turn around don't drown" at high risk low water crossings.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	Education and Outreach	3.18	Riverine, Urban,	12003181	00000100 , 00000255 , 00000282 , 12003181	Y	5000	0	0	N	N	N	N	Y	Halff Identification Process
122000008	Digital signage for communication	Coordinate with school district to use sign on US 181 for emergency info and safety directions during hazard events.	12000005	Wilson	12100303	121003030204,121003030105	12000027,12000035	Education and Outreach	3.18	Riverine, Urban,	12003181	00000100 , 00000255 , 00000282 , 12003181	Y	5000	0	0	N	N	N	N	Y	Halff Identification Process
122000009	Early warning system education	Alert the population through education material, media and other methods about enrolling in the early warning system	12000001	Wilson	12100303	121003030204,121003030105	12000027,12000035	Education and Outreach	3.18	Riverine, Urban,	12003181	00000100 , 00000255 , 00000282 , 12003181	Y	5000	0	0	N	N	N	N	Y	Halff Identification Process
122000010	Development of a Streamscaping Program for Flood Risk Management in Texas	Increase the number of public outreach and education activities to improve awareness of flood hazards and benefits of flood planning in the Flood Planning Region. Promote nature-based solution training	12000014	Wilson,Bexar, Goliad,Karnes	12100301,12100303,12100304,12110110,12100302		12000001,12000002,12000003,12000004,12000005,12000006,12000007,12000008,12000009,12000010,12000011,12000012,12000013,12000029,12000055,12000056,12000063,12000064,12000066,12000069,12000071,12000076,12000078,12000094,12000104,12000105	Education and Outreach	505.2	Riverine, Urban,	00000282	00000100 , 00000255 , 00000282 , 12003181	N	129000	0	0	N	N	N	N	Y	Halff Identification Process
122000011	Automatic low water crossings and gauges	Add automatic low water crossings and gauges at various locations, providing real time flood information to the region. This would include development of a plan to identify locations, followed by installation.	12000005	Bexar,Bandera,Comal,Kendall,Kerr	12100304,12100201,12100302		12000058,12000062,12000063,12000095,12000096	Flood Measurement and Warning	660.51	Riverine, Urban,	00000017	00000022 , 00000255 , 00000282 , 00000291 , 00000297 , 00000339 , 00000936 , 12000937 , 12001324 , 12002226 ,	Y	100000	0	0	N	N	N	N	Y	Halff Identification Process
122000012	Update flood information and policies	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies, and review permitting process bas	12000021, 12000022	Karnes	12100303	121003030402	12000021	Regulatory and Guidance	3.67	Riverine, Urban,	12002975	00000095 , 00000255 , 00000282 , 00000519 , 12002975	N	100000	0	0	N	N	N	N	Y	Halff Identification Process
122000013	Shelter requirement for RV parks	Adopt and implement an ordinance to require RV Parks to provide shelter facilities.	12000005	Atascosa,De Witt,Wilson,Goliad,Karnes	12100303,12100304,12100202,12100406,12110110,12110111		12000014,12000016,12000019,12000020,12000021,12000022,12000023,12000024,12000025,12000026,12000027,12000030,12000034,12000037,12000040,12000041,12000042,12000043,12000045,12000052,12000057,12000070	Regulatory and Guidance	749.22	Riverine, Urban,	00000095	00000099 , 00000100 , 00000255 , 00000260 , 00000264 , 00000282 , 00000290 , 00000291 , 00000519 , 00000526 ,	N	10000	0	0	N	N	N	N	Y	HDR Identification Process
122000014	Public Education & Outreach	Create a program to educate the public about specific mitigation actions for flooding hazards	12000001, 12000012	Medina	12100302	121003020501,121003020503	12000081,12000108	Education and Outreach	0.63	Riverine,	12002954	00000005 , 00000255 , 12002954	N	35000	0	0	N	N	N	N	Y	HDR Identification Process
122000015	Public education and outreach	Implement public education and outreach programs to educate citizens about mitigation against (flood) hazards; seek partnership with county neighboring communities and San Antonio River Authority.	12000001	Wilson	12100304	121003040304,121003040302	12000053,12000056	Education and Outreach	1.72	Riverine, Urban,	12003180	00000100 , 00000255 , 00000282 , 00000392 , 12001595 , 12003180	N	5000	0	0	N	N	N	N	Y	HDR Identification Process
122000016	Citizen flood education outreach	Educate citizens about mitigation strategies prior to any flood conditions, including dangers of debris flooding roads and how to best floodproof homes and businesses.	12000001	Wilson	12100303	121003030102,121003030103	12000028,12000033	Education and Outreach	7.7	Riverine, Urban,	12002925	00000100 , 00000255 , 00000282 , 12000592 , 12002925	N	10000	0	0	N	N	N	N	Y	HDR Identification Process
122000017	Updating floodplain ordinances and development code	Updating floodplain ordinances and development code	12000011	Wilson	12100304	121003040304,121003040302	12000053,12000056	Regulatory and Guidance	1.72	Riverine, Urban,	12003180	00000100 , 00000255 , 00000282 , 00000392 , 12001595 , 12003180	N	50000	0	0	N	N	N	N	Y	HDR Identification Process
122000019	Conservation Easement Program	Develop a Conservation Easement Program.	12000021	Medina,Bexar	12110107,12110109,12100302	121101070108,121101090101,121003020307,121003020501,121003020304,121003020305,121003020502,121003020503	12000075,12000081,12000099,12000100,12000107,12000108	Regulatory and Guidance	69.34	Riverine,	00000005	00000005 , 00000255 , 00000290 , 00000299 , 12002954 , 12003377	N	50000	0	0	N	N	N	N	Y	HDR Identification Process
122000020	City of Floresville Floodplain Ordinance and Development Code Update	Create a floodplain ordinance and update development code	12000011	Wilson	12100303	121003030102,121003030103	12000028,12000033	Regulatory and Guidance	7.7	Riverine, Urban,	12002925	00000100 , 00000255 , 00000282 , 12000592 , 12002925	Y	100000	0	0	N	N	N	N	Y	HDR Identification Process

Table 19. FMS, FMP, FME Funding Survey

Funding Survey												
						Estimated costs in plan			Estimated percent (share) of total FMS, FMP, or FME estimated cost			
									Sponsor Funding			
RFPG #	Sponsor Entity Name	FMS or FMP or FME	FMS FMP FME - Name	Regional plan's unique FMS/FMP/FME identification number	Target year of full implementation	Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)	Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
12	City of Fair Oaks Ranch	FME	29010 Tivoli Way	121000162	2030	$ 103,952.03	$415,808	$519,760	taxes, grants, loans	20%	80%	100%
12	City of Fair Oaks Ranch	FME	7420 Rolling Acres Trail Low Water Crossing	121000005	2030	$ 733,169.93	$451,830	$1,185,000	taxes, grants, loans	25%	75%	100%
12	City of Fair Oaks Ranch	FME	7820 Rolling Acres Trail	121000002	2030	$ 290,210.57	$514,083	$804,293	taxes, grants, loans	25%	75%	100%
12	City of Fair Oaks Ranch	FME	7840 Silver Spur Trail	121000046	2030	$ 295,351.39	$514,083	$809,434	taxes, grants, loans	25%	75%	100%
12	City of Fair Oaks Ranch	FME	7900 Fair Oaks Parkway	121000003	2030	$ 60,281.65	$0	$60,282	taxes, grants, loans	25%	75%	100%
12	City of Fair Oaks Ranch	FME	8402 Battle Intense Low Water Crossing	121000006	2030	$ 1,105,087.04	$2,512,733	$3,617,820	taxes, grants, loans	25%	75%	100%
12	City of Fair Oaks Ranch	FME	8410 Noble Lark Dr	121000047	2030	$ 165,561.98	$163,787	$329,349	taxes, grants, loans	25%	75%	100%
12	City of La Vernia	FME	Additional flood proof at wastewater treatment plant	121000146	2030	$ 150,000.00	$0	$150,000	Fees, loans, grants	25%	75%	100%
12	City of Fair Oaks Ranch	FME	Ammann Road Low Water Crossing	121000004	2030	$ 213,657.50	$1,042,344	$1,256,001	taxes, grants, loans	25%	75%	100%
12	City of Helotes	FME	Antonio Drive Drainage Improvements	121000016	2030	$ 150,000.00	$3,316,811	$3,466,811	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Apache Creek & Elmendorf Lake Dam	121000029	2030	$ 350,000.00	$0	$350,000	general revenue	100%	0%	100%
12	Kendall County	FMS	Automatic low water crossings and gauges	122000011	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	Bandera County	FME	Bandera 470 and Indian Creek Study	121000131	2030	$ 50,000.00	$0	$50,000	Grants	50%	50%	100%
12	Bandera County	FME	Bandera 470 and Medina River Study	121000132	2030	$ 50,000.00	$0	$50,000	Grants	50%	50%	100%
12	Bandera County	FME	Bandera English Crossing Study	121000126	2030	$ 100,000.00	$0	$100,000	Grants	25%	75%	100%
12	Bandera County	FME	Bandera FM 2107 Study	121000127	2030	$ 300,000.00	$0	$300,000	Grants	25%	75%	100%
12	Bandera County	FME	Bandera Lower Mason Creek and Bandera Creek at State Highway 16	121000129	2030	$ 50,000.00	$0	$50,000	Grants	50%	50%	100%
12	Bandera County	FME	Bandera Patterson Street Study	121000128	2030	$ 50,000.00	$0	$50,000	Grants	50%	50%	100%
12	Bandera County	FME	Bandera State Highway 173 Study	121000125	2030	$ 150,000.00	$0	$150,000	Grants	25%	75%	100%
12	Bexar County	FME	Bandera Substation In Floodplain Study	121000138	2030	$ 150,000.00	$0	$150,000	Adjacent counties, grants	25%	75%	100%
12	Bandera County	FME	Bandera WWTP Study	121000130	2030	$ 150,000.00	$0	$150,000	Grants	25%	75%	100%
12	City of San Antonio	FMP	Barbara Drive Drainage Improvements	123000025	2030	$ 3,706,395.59	$24,120,553	$27,826,948	taxes, grants, loans	10%	90%	100%
12	City of Fair Oaks Ranch	FME	Battle Intense LWC Flow-activated Sensors	121000007	2030	$ 179,792.25	$0	$179,792	taxes, grants, loans	25%	75%	100%
12	Bexar County	FME	Bexar County Line LWC Engineering Study	121000163	2030	$ 600,000.00	$0	$600,000	Adjacent counties, grants	25%	75%	100%
12	Bexar County	FME	Bexar County LWC Engineering Study	121000159	2030	$ 300,000.00	$0	$300,000	Adjacent counties, grants	25%	75%	100%
12	City of Poth	FME	Build Detention Pond	121000042	2030	$ 203,952.03	$0	$203,952	taxes, grants, loans	25%	75%	100%
12	Medina County	FME	Cagnon Rd at Polecat Creek (DC-MRN)	121000142	2030	$ 150,000.00	$0	$150,000	taxes, grants, loans	25%	75%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

RFPG #	Sponsor Entity Name	FMS or FMP or FME	FMS FMP FME - Name	Regional plan's unique FMS/FMP/FME identification number	Target year of full implementation	Estimated costs in plan			Estimated percent (share) of total FMS, FMP, or FME estimated cost			
									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Bulverde	FME	Cibolo Creek Tributary 19 Mapping Improvements	121000030	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Floresville	FMS	Citizen flood education outreach	122000016	2030	$ 10,000.00	$0	$10,000	grants and loans	0%	100%	100%
12	City of Floresville	FME	City of Floresville Flood Study	121000123	2030	$ 100,000.00	$0	$100,000	grants and loans	0%	100%	100%
12	City of Floresville	FMS	City of Floresville Floodplain Ordinance and Development Code Update	122000020	2030	$ 100,000.00	$0	$100,000	grants and loans	0%	100%	100%
12	City of San Antonio	FMP	Concepcion Creek Improvements Project	123000028	2030	$ 240,222,000.00	$0	$240,222,000	taxes, grants, loans	10%	90%	100%
12	Medina County	FMS	Conservation Easement Program	122000019	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	25%	75%	100%
12	City of Castroville	FME	Country Village Channel Improvements	121000140	2030	$ 50,000.00	$0	$50,000	bonds, **grants, drainage fees**	50%	50%	100%
12	Bexar County	FME	Culebra Creek RSWF	121000155	2030	$ 50,000.00	$0	$50,000	Adjacent counties, grants	25%	75%	100%
12	City of San Antonio	FME	Culebra Creek Tributary A at Tezel Road Enhanced Conveyance	121000058	2030	$ 3,729,219.95	$5,440,594	$9,169,814	taxes, grants, loans	25%	75%	100%
12	Tivoli Community	FME	Culvert improvement on Hatch St in Tivoli	121000110	2030	$ 150,000.00	$0	$150,000	grants, loans	25%	75%	100%
12	Tivoli Community	FME	Culvert Improvement on Highway 239 in Tivoli	121000111	2030	$ 150,000.00	$0	$150,000	grants, loans	25%	75%	100%
12	City of San Antonio	FME	D/O Center A (Old Pearsall road at Medio Creek)	121000048	2030	$ 1,959,013.75	$18,571,346	$20,530,359	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	D/O Center M(HWY 1604 East of Somerset Community)	121000011	2030	$ 360,290.02	$4,196,285	$4,556,575	taxes, grants, loans	25%	75%	100%
12	City of Poth	FME	Damage Center 1 Project1 – Detention in East Branch Poth Creek	121000010	2030	$ 1,689,053.42	$0	$1,689,053	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Damage Center 1 (Stockdale Creek)	121000012	2030	$ 3,569,335.10	$0	$3,569,335	taxes, grants, loans	25%	75%	100%
12	City of Poth	FME	Damage Center 1 Project2A – Improved crossing at U.S. Highway 181	121000049	2030	$ 1,928,034.73	$0	$1,928,035	taxes, grants, loans	25%	75%	100%
12	City of Floresville	FME	Damage Center 1: Project 1A, 1B, 1C	121000150	2030	$ 150,000.00	$0	$150,000	grants and loans	0%	100%	100%
12	City of San Antonio	FME	Damage Center 14- Airport Trib	121000086	2030	$ 11,145,381.94	$17,611,050	$28,756,432	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 19- San Pedro Creek	121000087	2030	$ 8,615,588.04	$3,237,314	$11,852,902	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Damage Center 2 (South Tributary to Stockdale Creek)	121000052	2030	$ 660,768.06	$0	$660,768	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 2- Martinez Creek	121000065	2030	$ 12,459,064.42	$12,653,145	$25,112,209	taxes, grants, loans	10%	90%	100%
12	City of Poth	FME	Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	121000051	2030	$ 198,959.44	$0	$198,959	taxes, grants, loans	25%	75%	100%
12	City of Floresville	FME	Damage Center 2: Project 1 Channelization	121000149	2030	$ 100,000.00	$0	$100,000	grants and loans	0%	100%	100%
12	City of San Antonio	FME	Damage Center 20-Matinez Creek	121000088	2030	$ 22,251,473.14	$44,314,311	$66,565,784	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 23-New Braunfels, Austin Hwy, Broadway Drain	121000089	2030	$ 23,560,933.03	$32,054,647	$55,615,580	taxes, grants, loans	10%	90%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

RFPG #	Sponsor Entity Name	FMS or FMP or FME	FMS FMP FME - Name	Regional plan's unique FMS/FMP/FME identification number	Target year of full implementation	Estimated costs in plan			Estimated percent (share) of total FMS, FMP, or FME estimated cost			
									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Poth	FME	Damage Center 2-Project 1 Culvert Improvements at Menchaca	121000050	2030	$ 276,876.68	$0	$276,877	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 3- Zarzamora Creek	121000082	2030	$ 32,730,102.67	$11,684,208	$44,414,311	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 31-Rockwood Creek	121000094	2030	$ 150,000.00	$0	$150,000	general revenue	100%	0%	100%
12	City of San Antonio	FME	Damage Center 32-Six Mile Creek	121000090	2030	$ 9,392,588.96	$10,735,318	$20,127,907	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 34-State Hospital Creek	121000091	2030	$ 2,005,668.31	$4,036,230	$6,041,898	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 38-Olmos Creek Lower Reach Near Montview	121000081	2030	$ 623,497.37	$0	$623,497	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 39-Olmos Creek and Olmos Creek East Channel	121000080	2030	$ 601,642.59	$0	$601,643	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 3-Lorence Creek	121000063	2030	$ 2,473,246.63	$6,619,756	$9,093,003	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 4- Apache Creek	121000028	2030	$ 8,787,565.29	$6,289,908	$15,077,473	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 40-San Antonio River DS Reach near Roosevelt	121000079	2030	$ 12,536,092.87	$0	$12,536,093	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 43-Olmos Creek Middle Reach near DeZavala	121000027	2030	$ 8,878,636.15	$0	$8,878,636	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 44-San Antonio River Near Center Road	121000078	2030	$ 7,618,556.51	$0	$7,618,557	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 5-Salado Creek Trib F	121000062	2030	$ 7,617,754.05	$19,227,279	$26,845,034	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 6- Martinez Creek	121000083	2030	$ 40,552,311.96	$0	$40,552,312	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	Damage Center 7- Zarzamora Creek	121000084	2030	$ 14,775,611.60	$0	$14,775,612	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Damage Center 9- Alazan Creek	121000085	2030	$ 19,406,183.49	$46,217,795	$65,623,978	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FME	DC13/14: Walzem Creek	121000064	2030	$ 2,034,307.84	$5,000,898	$7,035,206	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	DC19: Salado Creek Tributary B	121000019	2030	$ 5,336,253.40	$14,454,210	$19,790,464	taxes, grants, loans	25%	75%	100%
12	City of Helotes	FME	Detailed Study of Culebra Creek Trib C	121000055	2030	$ 65,000.00	$0	$65,000	taxes, grants, loans	25%	75%	100%
12	City of Helotes	FME	Detailed Study of Unnamed Trib 3 to Helotes Creek	121000054	2030	$ 40,000.00	$0	$40,000	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Detention/Retention pond on school property	121000045	2030	$ 1,604,360.85	$0	$1,604,361	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Develop and implement a Stormwater Management Plan for Stockdale Creek	121000036	2030	$ 1,203,488.68	$0	$1,203,489	taxes, grants, loans	25%	75%	100%
12	Greater Edwards Aquifer Alliance	FMS	Development of a Streamscaping Program for Flood Risk Management in Texas	122000010	2030	$ 129,000.00	$0	$129,000	taxes, grants, loans	25%	75%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

RFPG #	Sponsor Entity Name	FMS or FMP or FME	FMS FMP FME - Name	Regional plan's unique FMS/FMP/FME identification number	Target year of full implementation	Estimated costs in plan			Estimated percent (share) of total FMS, FMP, or FME estimated cost			
						Non-construction costs	Construction-related costs	Total estimated cost	Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
									ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Poth	FMS	Digital signage for communication	122000008	2030	$ 5,000.00	$0	$5,000	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Drainage improvements to wastewater treatment plants	121000043	2030	$ 852,325.78	$0	$852,326	taxes, grants, loans	25%	75%	100%
12	City of Poth	FME	Drainage Study Marcelinas Creek and its major tributary	121000041	2030	$ 250,726.81	$0	$250,727	taxes, grants, loans	20%	80%	100%
12	Karnes County	FME	Early warning flood systems	121000115	2030	$ 150,000.00	$0	$150,000	taxes, grants, loans	25%	75%	100%
12	City of Poth	FMS	Early warning system education	122000009	2030	$ 5,000.00	$0	$5,000	taxes, grants, loans	20%	80%	100%
12	City of Poth	FMS	Education Signage	122000007	2030	$ 5,000.00	$0	$5,000	taxes, grants, loans	20%	80%	100%
12	Wilson County	FME	Erosion at CR 401 and Cibolo Creek	121000102	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	50%	50%	100%
12	Wilson County	FME	Erosion on CR 202 East and Marcelina Creek	121000103	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	50%	50%	100%
12	San Antonio River Authority	FME	Evaluation and prioritization of new gauge locations	121000134	2030	$ 50,000.00	$0	$50,000	inner local agreement loans and grants, bond	25%	75%	100%
12	City of Castroville	FME	Flat Creek Study	121000105	2030	$ 500,000.00	$0	$500,000	bonds, **grants, drainage fees**	50%	50%	100%
12	City of Bulverde	FME	FM 1863 at Cibolo Creek LWC	121000095	2030	$ 1,841,453.22	$3,335,823	$5,177,276	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	French Creek at Guilbeau Road NWWC	121000017	2030	$ 3,823,238.44	$6,004,761	$9,827,999	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	French Creek RSWF	121000057	2030	$ 5,975,658.72	$13,141,428	$19,117,087	taxes, grants, loans	25%	75%	100%
12	San Antonio River Authority	FME	Future conditions data refinement study	121000135	2030	$ 500,000.00	$0	$500,000	inner local agreement loans and grants, bond	25%	75%	100%
12	City of Castroville	FME	Garcia Creek Channel Stabilization	121000139	2030	$ 50,000.00	$0	$50,000	bonds, **grants, drainage fees**	50%	50%	100%
12	Bexar County	FME	Gass Road at Culebra Creek Tributary D	121000156	2030	$ 100,000.00	$0	$100,000	Adjacent counties, grants	25%	75%	100%
12	Goliad County	FME	Goliad Damage Center A	121000106	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	0%	100%	100%
12	Goliad County	FME	Goliad Damage Center B	121000107	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	0%	100%	100%
12	City of San Antonio	FME	Helotes Creek at Bandera Road Enhanced Conveyance	121000059	2030	$ 907,127.20	$1,704,354	$2,611,481	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Helotes Creek RSWF	121000060	2030	$ 5,173,548.25	$3,805,097	$8,978,646	taxes, grants, loans	25%	75%	100%
12	Bandera County	FME	Highway 16 Bridge Upgrade	121000124	2030	$ 150,000.00	$0	$150,000	Grants	25%	75%	100%
12	City of San Antonio	FMP	Holbrook Road Improvements	123000024	2030	$ 11,119,519.69	$3,488,601	$14,608,120	taxes, grants, loans	25%	75%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

RFPG #	Sponsor Entity Name	FMS or FMP or FME	FMS FMP FME - Name	Regional plan's unique FMS/FMP/FME identification number	Target year of full implementation	Estimated costs in plan			Estimated percent (share) of total FMS, FMP, or FME estimated cost			
									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	San Antonio River Authority	FME	Holistic Watershed based master planning consistent with Nature Based Solutions	121000161	2030	$ 2,247,403.14	$0	$2,247,403	inner local agreement loans and grants, bond	25%	75%	100%
12	City of Leon Valley	FME	Huebner Creek Flood Control Project Segment 1	121000018	2030	$ 22,471,309.73	$0	$22,471,310	taxes, grants, loans	25%	75%	100%
12	Karnes County	FME	Improve bridge at CR 337	121000104	2030	$ 500,000.00	$0	$500,000	taxes, grants, loans	25%	75%	100%
12	City of Bulverde	FME	Indian Creek Mapping Improvements	121000031	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Poth	FME	Install early warning systems	121000040	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	20%	80%	100%
12	City of Poth	FME	Install pipe gates to close off streets	121000096	2030	$ 250,000.00	$0	$250,000	taxes, grants, loans	20%	80%	100%
12	City of Falls City	FME	Inventory of residences in floodplain	121000032	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	20%	80%	100%
12	City of Karnes City	FME	Inventory of residences in floodplain	121000038	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	20%	80%	100%
12	City of Kenedy	FME	Inventory of residences in floodplain	121000034	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	20%	80%	100%
12	City of Runge	FME	Inventory of residences in floodplain	121000056	2030	$ 50,000.00	$0	$50,000	taxes, grants, loans	20%	80%	100%
12	City of La Vernia	FME	La Vernia Issue # 2 and # 3 (City Park/ La Vernia ISD)	121000119	2030	$ 150,000.00	$0	$150,000	Fees, loans, grants	25%	75%	100%
12	City of La Vernia	FME	La Vernia Issue # 5 (Hwy 87 crossing and CR 342)	121000118	2030	$ 150,000.00	$0	$150,000	Fees, loans, grants	25%	75%	100%
12	City of San Antonio	FMP	Judson and Lookout LWC Improvement	123000022	2030	$ 2,895,982.82	$3,405,221	$6,301,204	taxes, grants, loans	25%	75%	100%
12	City of Falls City	FME	Karnes County Damage Centers Karnes A	121000013	2030	$ 4,243,043.10	$0	$4,243,043	taxes, grants, loans	25%	75%	100%
12	City of Falls City	FME	Karnes County Damage Centers Karnes B	121000014	2030	$ 4,243,043.10	$0	$4,243,043	taxes, grants, loans	25%	75%	100%
12	San Antonio River Authority	FME	Escondidio Creek WS SCS Site 1, 2, 4 Dam	121000120	2030	$ 300,000.00	$0	$300,000	inner local agreement, grant	0%	100%	100%
12	Karnes County	FME	Karnes Damage Center H	121000145	2030	$ 150,000.00	$0	$150,000	taxes, grants, loans	25%	75%	100%
12	City of Kenedy	FME	Karnes Hwy at Escondido Creek	121000009	2030	$ 417,398.18	$0	$417,398	taxes, grants, loans	25%	75%	100%
12	City of Castroville	FME	Kempf Creek Watershed Study	121000108	2030	$ 150,000.00	$0	$150,000	bonds, **grants, drainage fees**	50%	50%	100%
12	City of San Antonio	FME	Hubner Creek Flood Protection Barier	121000061	2030	$ 22,480,288.41	$13,200,844	$35,681,133	taxes, grants, loans	10%	90%	100%
12	City of Bulverde	FMP	Lewis Creek Alternative 1 Phase 1 & 2	123000017	2030	$ 645,318.33	$5,376,460	$6,021,778	taxes, grants, loans	20%	80%	100%
12	City of Bulverde	FMP	Lewis Creek Main	123000020	2030	$ -	$165,184	$165,184	taxes, grants, loans	20%	80%	100%
12	City of Bulverde	FMP	Lewis Creek Tributary 2 Alternative 1 & 2	123000019	2030	$ 314,950.58	$2,624,430	$2,939,381	taxes, grants, loans	20%	80%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

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									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	Bexar County	FME	Live Oak at Salitrillo Creek (CB-9)	121000158	2030	$ 100,000.00	$0	$100,000	Adjacent counties, grants	25%	75%	100%
12	Karnes County	FME	Low Water Crossing Upgrades	121000114	2030	$ 305,000.00	$0	$305,000	taxes, grants, loans	25%	75%	100%
12	San Antonio River Authority	FME	Lower Basin Predictive Flood Model	121000109	2030	$ 1,000,000.00	$0	$1,000,000	inner local agreement loans and grants, bond	25%	75%	100%
12	Medina County	FME	Lucas Creek at Cinco De Mayo Dr Bridge and Channel (DC-MRD)	121000141	2030	$ 150,000.00	$0	$150,000	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC #13 West Ave. @ Interpark	121000073	2030	$ 1,374,679.98	$4,385,273	$5,759,953	taxes, grants, loans	100%	0%	100%
12	City of San Antonio	FME	LWC #15 Copperhill Between Parkstone & Happy Hollow	121000072	2030	$ 238,773.32	$233,215	$471,988	general revenue	100%	0%	100%
12	City of San Antonio	FME	LWC #159.1 Southton Rd	121000025	2030	$ 963,772.04	$5,138,907	$6,102,679	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC #34 Sleepy Hollow @ Sunburst	121000026	2030	$ 938,002.72	$4,483,086	$5,421,088	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC #71 Danville and Overbrook	121000075	2030	$ 2,890,500.00	$0	$2,890,500	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC 100, Blakeley Area Drainage Improvement	121000022	2030	$ 269,346.07	$403,432	$672,778	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC 112.1 Pvt Rd. 300' North of Marbcah Rd.	121000021	2030	$ 100,000.00	$0	$100,000	general revenue	100%	0%	100%
12	Kendall County	FME	LWC at Ammann Rd and Post Oak Creek	121000092	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	Kendall County	FME	LWC at Old Fredericksburg Rd and Balcones Creek	121000093	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC No 113-116 and Associated Channel Improvements	121000070	2030	$ 917,273.93	$2,748,766	$3,666,040	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC# 101 Rittiman Creek @ Gibbs Sprawl	121000097	2030	$ 3,994,964.80	$6,978,475	$10,973,440	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC# 91 Weidner 500 ft N of Schertz	121000071	2030	$ 699,298.91	$2,419,306	$3,118,605	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC#156 New Sulphur Springs Rd – btwn S. Foster & Gardner	121000024	2030	$ 2,290,161.37	$20,555,629	$22,845,791	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC#41 Vance Jackson 200ft south of Scenic	121000020	2030	$ 283,546.00	$729,754	$1,013,300	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC 42 Dreamland south of RR Xing	121000069	2030	$ 770,000.00	$10,700,000	$11,470,000	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC#72 Spencer Lane, east of Balcones Rd.	121000076	2030	$ 487,969.59	$1,401,362	$1,889,332	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	LWC157 New Sulphur Springs Rd – East of Beck Rd	121000023	2030	$ 340,796.64	$601,951	$942,748	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	Mahncke Park Outfall	121000077	2030	$ 1,526,935.61	$9,265,737	$10,792,673	taxes, grants, loans	25%	75%	100%
12	City of Stockdale	FME	Maintain Drainage System	121000098	2030	$ 2,073,414.46	$0	$2,073,414	taxes, grants, loans	25%	75%	100%

Table 19. FMS, FMP, FME Funding Survey

Funding Survey

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									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Selma	FME	Master Drainage plan	121000015	2030	$ 577,600.00	$0	$577,600	taxes, grants, loans	25%	75%	100%
12	Bexar County	FME	Master Drainage Plan for Bexar County HALT Low Water	121000154	2030	$ 150,000.00	$0	$150,000	Adjacent counties, grants	25%	75%	100%
12	Bexar County	FME	Master Drainage Plan for Bexar County Unincorporated Areas	121000153	2030	$ 150,000.00	$0	$150,000	Adjacent counties, grants	25%	75%	100%
12	Tivoli Community	FME	Miller Creek on the Smoky Creek Ranch Drainage Improvements	121000112	2030	$ 150,000.00	$0	$150,000	grants, loans	25%	75%	100%
12	City of Poth	FME	Mitigate local flooding in identified problem areas	121000035	2030	$ 5,000.00	$0	$5,000	taxes, grants, loans	20%	80%	100%
12	San Antonio River Authority	FME	Natural capital inventory	121000133	2030	$ 300,000.00	$0	$300,000	inner local agreement loans and grants, bond	25%	75%	100%
12	City of Stockdale	FME	New Bridges on 6th and 8th Streets	121000044	2030	$ 651,453.62	$0	$651,454	taxes, grants, loans	25%	75%	100%
12	City of La Coste	FME	New Drainage Analysis to Update/Revise Flood Maps	121000113	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FME	New Sulphur Springs – East of Lodi Rd	121000074	2030	$ 430,557.79	$1,887,226	$2,317,784	taxes, grants, loans	25%	75%	100%
12	San Antonio River Authority	FME	Nichols Creek Stabilization	121000152	2030	$ 1,000,000.00	$0	$1,000,000	inner local agreement loans and grants, bond	25%	75%	100%
12	City of San Antonio	FME	Normoyle Ditch - Alt 1	121000068	2030	$ 150,000.00	$0	$150,000	general revenue	100%	0%	100%
12	City of Castroville	FME	North Lorenzo, Athens Street, Naples Street Storm Drainage Improvements	121000117	2030	$ 300,000.00	$0	$300,000	bonds, **grants, drainage fees**	50%	50%	100%
12	City of Helotes	FME	Parrigin Road Drainage Improvements	121000053	2030	$ 295,579.52	$975,648	$1,271,228	taxes, grants, loans	25%	75%	100%
12	San Antonio River Authority	FME	Port of San Antonio Floodproofing	121000136	2030	$ 250,000.00	$0	$250,000	inner local agreement, grant	0%	100%	100%
12	City of Boerne	FMP	PROJECT 10 - E. BLANCO ROAD AT UNNAMED TRIBUTARY A	123000010	2025	$ 505,635.99	$1,010,716	$1,516,352	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 11 - RIVER ROAD AT UNNAMED TRIBUTARY A	123000011	2035	$ 477,595.80	$849,212	$1,326,808	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 12 - PLANT CHANNEL IMPROVEMENT	123000013	2030	$ 438,073.99	$793,962	$1,232,036	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 13 - HERFF AND ESSER ROAD IMPROVEMENTS AT CURREY AND CIBOLO CREEK	123000012	2035	$ 4,836,253.84	$9,663,859	$14,500,113	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 14 - EAST BOERNE REGIONAL LID	123000014	2030	$ 275,976.00	$387,428	$663,404	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS	123000015	2030	$ 278,321.61	$385,082	$663,404	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 16 - SOUTH CURREY CREEK CHANNEL IMPROVEMENTS	123000016	2030	$ 507,030.08	$914,550	$1,421,580	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 1A - ADLER ROAD AT CURREY CREEK AND UNNAMED TRIBUTARY A	123000001	In Design (2025)	$ 296,597.35	$1,314,526	$1,611,124	general revenue	25%	75%	100%

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									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Boerne	FMP	PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY	123000002	2030	$ 2,359,462.12	$4,653,664	$7,013,126	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 3 - CURREY CREEK REGIONAL DETENTION FACILITY	123000003	2030	$ 2,969,774.70	$5,938,791	$8,908,566	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 4 - SCHOOL STREET AT CIBOLO CREEK AND FREDERICK CREEK	123000004	2025	$ 1,688,854.66	$3,334,060	$5,022,915	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 5D - OLD SAN ANTONIO STREET AT MENGER CREEK	123000005	In Design (2025)	$ 812,921.20	$2,693,642	$3,506,563	general revenue	20%	80%	100%
12	City of Boerne	FMP	PROJECT 6 - JOHNS ROAD NEAR CIBOLO CROSSING SUBDIVISION	123000006	2025	$ 484,512.26	$937,067	$1,421,580	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 7 - SCHWEPPE AND HICKMAN STREET	123000007	2025	$ 681,292.06	$1,308,919	$1,990,212	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 8 - JOHNS AND LOHMANN STREET	123000008	2030	$ 609,952.45	$1,095,943	$1,705,896	taxes, grants, loans	20%	80%	100%
12	City of Boerne	FMP	PROJECT 9 - UNNAMED TRIBUTARY A-SUBDIVISION FLOOD PROTECTION & MOBILITY PROJECT	123000009	2035	$ 1,612,886.39	$3,220,484	$4,833,371	taxes, grants, loans	20%	80%	100%
12	City of Floresville	FME	Property acquisition and demolition and/or relocations	121000148	2030	$ 1,500,000.00	$0	$1,500,000	grants and loans	0%	100%	100%
12	City of La Coste	FMS	Public Education & Outreach	122000014	2030	$ 35,000.00	$0	$35,000	grants	0%	100%	100%
12	City of La Vernia	FMS	Public education and outreach	122000015	2030	$ 5,000.00	$0	$5,000	Fees, loans, grants	50%	50%	100%
12	Wilson County	FME	Recommend for Wilson Roadways-Project 3-CR 122 & Mariana Creek	121000116	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	25%	75%	100%
12	Wilson County	FME	Recommend for Wilson Roadways - Project 4 - Mariana Rd & Mariana Creek	121000100	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	25%	75%	100%
12	Wilson County	FME	Recommend for Wilson Roadways - Project 5 - CR 108 & Mariana Creek	121000101	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	50%	50%	100%
12	Wilson County	FME	Recommend for Wilson Roadways - Project 7 - CR 119 & Mariana Creek	121000147	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	25%	75%	100%
12	City of La Vernia	FME	Repetitive loss properties	121000151	2030	$ 150,000.00	$0	$150,000	Fees, loans, grants	25%	75%	100%
12	San Antonio River Authority	FME	River Authority WWTP Resilience	121000137	2030	$ 600,000.00	$0	$600,000	utility revenue, grant	25%	75%	100%
12	City of San Antonio	FMP	Rock Creek - Alt 1	123000021	2030	$ 5,938,555.98	$11,702,161	$17,640,717	taxes, grants, loans	25%	75%	100%
12	Bexar County	FME	Rockwood Creek (SA-39)	121000157	2030	$ 100,000.00	$0	$100,000	Adjacent counties, grants	25%	75%	100%
12	City of Fair Oaks Ranch	FME	Rolling Acres Trail LWC Flow-activated Sensors	121000008	2030	$ 359,584.50	$0	$359,585	taxes, grants, loans	25%	75%	100%
12	City of Karnes City	FMS	San Antonio River drainage ownership mapping	122000003	2030	$ 30,000.00	$0	$30,000	taxes, grants, loans	20%	80%	100%
12	City of Kenedy	FMS	San Antonio River drainage ownership mapping	122000004	2030	$ 30,000.00	$0	$30,000	taxes, grants, loans	20%	80%	100%
12	City of Runge	FMS	San Antonio River drainage ownership mapping	122000005	2030	$ 30,000.00	$0	$30,000	taxes, grants, loans	20%	80%	100%

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									Sponsor Funding		Other Funding Needed (including state, federal and/ or other funding)	TOTAL (auto) sum must = 100%
						Non-construction costs	Construction-related costs	Total estimated cost	ANTICIPATED SOURCE of Sponsor funding (e.g., taxes; general revenue; dedicated revenue incl. fees)	FUNDING TO BE FINANCED BY SPONSOR (incl. those local, county, or regional mechanisms available but not yet fully utilized)		
12	City of Falls City	FMS	San Antonio River drainage ownership study	122000002	2030	$ 30,000.00	$0	$30,000	taxes, grants, loans	20%	80%	100%
12	City of San Antonio	FMP	Seeling Drainage Improvements	123000018	2030	$ 9,862,734.96	$18,504,720	$28,367,455	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FMP	Shady Lane Dr.Voluntary Property Acquisition	123000027	2030	$ 1,306,981.79	$0	$1,306,982	taxes, grants, loans	25%	75%	100%
12	Karnes County	FMS	Shelter requirement for RV parks	122000013	2030	$ 10,000.00	$0	$10,000	taxes, grants, loans	25%	75%	100%
12	City of Poth	FMS	Strengthen floodplain management ordinances	122000006	2030	$ 25,000.00	$0	$25,000	taxes, grants, loans	20%	80%	100%
12	City of Falls City	FMS	Study the San Antonio River and its tributes	122000001	2030	$ 250,000.00	$0	$250,000	taxes, grants, loans	25%	75%	100%
12	City of Runge	FME	Study the San Antonio River, Ojo de Agua Creek and its tributaries	121000001	2030	$ 250,000.00	$0	$250,000	taxes, grants, loans	25%	75%	100%
12	City of San Antonio	FMP	Symphony Lane Voluntary Property Acquisition	123000023	2030	$ 33,019,314.45	$0	$33,019,314	taxes, grants, loans	10%	90%	100%
12	City of San Antonio	FMP	Thames Drainage Channel Replacement - Alt 1	123000026	2030	$ 8,818,036.90	$20,172,711	$28,990,748	taxes, grants, loans	10%	90%	100%
12	Medina County	FME	Trumbo Rd at Palo Blanco Creek (DC-MRP)	121000143	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Falls City	FME	Update flood information and policies	121000037	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Karnes City	FME	Update flood information and policies	121000033	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Kenedy	FMS	Update flood information and policies	122000012	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of Runge	FME	Update flood information and policies	121000039	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	Karnes County	FME	Update flood information and policies	121000160	2030	$ 100,000.00	$0	$100,000	taxes, grants, loans	25%	75%	100%
12	City of La Vernia	FMS	Updating floodplain ordinances and development code	122000017	2030	$ 50,000.00	$0	$50,000	Fees, loans, grants	50%	50%	100%
12	City of San Antonio	FME	Upper Martinez Creek Improvements	121000099	2030	$ 1,673,872.15	$2,426,984	$4,100,856	taxes, grants, loans	25%	75%	100%
12	City of La Coste	FME	Wet-Proof Wastewater System	121000144	2030	$ 50,000.00	$0	$50,000	grants	0%	100%	100%
12	Wilson County	FME	Wilson 10 - Acquisitions of Flooded Structures	121000122	2030	$ 100,000.00	$0	$100,000	taxes, fees, loans, grants	25%	75%	100%
12	Wilson County	FME	Wilson County LWC Study	121000121	2030	$ 300,000.00	$0	$300,000	taxes, fees, loans, grants	25%	75%	100%
12	City of Balcones Heights	FME	Woodlawn Lawn Lake Option 1(Phase 1-3)	121000067	2030	$ 2,529,303.16	$8,743,469	$11,272,772	taxes, grants, loans	25%	75%	100%
12	City of Balcones Heights	FME	Woodlawn Lawn Lake Option 2	121000066	2030	$ 1,166,858.91	$5,121,688	$6,288,547	taxes, grants, loans	25%	75%	100%

Regional Flood Plan FMP Project Details Scoring Summary Table

Project	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Severity Ranking: Community Need (% Population)	Flood Risk Reduction	Flood Damage Reduction	Reduction in critical facilities flood risk	Life and Safety Ranking (Injury/Loss of life)	Water Supply Yield Ranking	Social Vulnerability Ranking	Nature-Based Solutions Ranking	Multiple Benefit Ranking	Operations and Maintenance Ranking	Administrative, Regulatory and Other Obstacle Ranking	Environmental Benefit Ranking	Environmental Impact Ranking	Mobility Ranking	Total Score
Project 1 - PROJECT 1A - ADLER ROAD AT CURREY CREEK AND UNNAMED TRIBUTARY A	8	1	0	2	0	10	0	4	1	1	1	6	6	10	10	60
Project 2 - PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY	2	1	10	2	0	2	4	4	1	10	1	6	6	10	10	69
Project 3 - PROJECT 3 - CURREY CREEK REGIONAL DETENTION FACILITY	2	1	4	6	0	2	4	1	1	10	1	6	6	10	10	64
Project 4 - PROJECT 4 - SCHOOL STREET AT CIBOLO CREEK AND FREDERICK CREEK	10	1	0	2	0	10	0	4	1	1	1	6	6	10	10	62
Project 5 - PROJECT 5D - OLD SAN ANTONIO STREET AT MENGER CREEK	10	1	0	2	0	10	0	4	1	1	1	6	6	10	10	62
Project 6 - PROJECT 6 - JOHNS ROAD NEAR CIBOLO CROSSING SUBDIVISION	2	1	4	6	0	2	0	4	1	4	1	6	6	10	10	57
Project 7 - PROJECT 7 - SCHWEPPE AND HICKMAN STREET	2	1	4	8	0	2	0	4	1	4	1	6	6	10	10	59
Project 8 - PROJECT 8 - JOHNS AND LOHMANN STREET	2	1	0	10	0	2	0	4	1	1	1	6	6	10	10	54
Project 9 - PROJECT 9 - UNNAMED TRIBUTARY A- SUBDIVISION FLOOD PROTECTION & MOBILITY PROJECT	2	1	7	4	0	2	0	4	1	10	1	6	6	10	10	64
Project 10 - PROJECT 10 - E. BLANCO ROAD AT UNNAMED TRIBUTARY A	8	1	0	2	0	10	0	1	1	1	1	6	6	10	10	57
Project 11 - PROJECT 11 - RIVER ROAD AT UNNAMED TRIBUTARY A	10	1	0	2	0	10	0	4	1	1	1	6	6	10	10	62
Project 12 - PROJECT 13 - HERFF AND ESSER ROAD IMPROVEMENTS AT CURREY AND CIBOLO CREEK	4	1	0	2	0	4	0	4	1	10	1	6	6	10	10	59
Project 13 - PROJECT 12 - PLANT CHANNEL IMPROVEMENT	4	1	0	10	0	4	0	4	1	1	1	6	6	10	10	58
Project 14 - PROJECT 14 - EAST BOERNE REGIONAL LID	2	1	0	2	0	2	4	4	1	4	1	6	6	10	10	53
Project 15 - PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS	8	1	4	8	0	10	0	4	1	1	1	6	6	10	10	70
Project 16 - PROJECT 16 - SOUTH CURREY CREEK CHANNEL IMPROVEMENTS	8	1	4	8	0	10	0	1	1	4	1	6	6	10	10	70
Project 17 - Lewis Creek Alternative 1 Phase 1 & 2	8	1	7	4	0	10	0	4	1	4	1	10	6	10	7	73
Project 18 - Seeling Drainage Improvements	8	1	10	6	0	10	0	7	1	4	1	6	6	10	4	74
Project 19 - Lewis Creek Tributary 2 Alternative 1 & 2	8	1	4	4	0	10	0	1	1	4	1	10	6	10	7	67
Project 20 - Lewis Creek Main	8	1	7	4	0	10	0	1	1	4	1	6	6	10	7	66
Project 21 - Rock Creek - Alt 1	8	1	0	10	0	10	0	4	1	4	1	6	0	10	4	59
Project 22 - Judson and Lookout LWC Improvement	8	1	0	2	0	10	0	7	1	4	1	2	0	10	7	53
Project 23 - Symphony Lane Voluntary Property Acquisition	8	1	0	10	0	10	0	4	1	1	1	6	0	10	0	52
Project 24 - Holbrook Road Improvements	8	1	0	2	0	10	0	10	1	4	1	6	0	10	0	53
Project 25 - Barbara Drive Drainage Improvements	8	1	7	6	0	10	0	7	1	4	1	6	0	10	7	68
Project 26 - Thames Drainage Channel Replacement - Alt 1	8	1	4	10	0	10	0	10	1	4	1	6	0	10	7	72
Project 27 - Shady Lane Dr.Voluntary Property Acquisition	8	1	0	10	0	10	0	4	1	1	1	6	0	10	0	52
Project 28 - Concepcion Creek Improvements Project	4	1	7	4	7	4	0	10	1	7	1	2	6	10	4	68

Regional Flood Plan FMP Project Details Scoring Summary Table

Project	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Severity Ranking: Community Need (% Population)	Flood Risk Reduction	Flood Damage Reduction	Reduction in critical facilities flood risk	Life and Safety Ranking (Injury/Loss of life)	Water Supply Yield Ranking	Social Vulnerability Ranking	Nature-Based Solutions Ranking	Multiple Benefit Ranking	Operations and Maintenance Ranking	Administrative, Regulatory and Other Obstacle Ranking	Environmental Benefit Ranking	Environmental Impact Ranking	Mobility Ranking	Total Score
Project 29 - Damage Center 1 Project1 – Detention in East Branch Poth Creek	4	1	1	4	0	6	0	4	1	4	1	10	6	10	10	62
Project 30 - Damage Center 2-Project 1 Culvert Improvements at Menchaca	8	1	0	2	0	10	0	4	1	4	1	10	3	10	10	64
Project 31 - Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	2	1	0	2	0	2	0	4	1	7	1	10	3	10	10	53
Project 32 - Woodlawn Lawn Lake Option 2	4	1	7	8	0	6	0	7	1	4	1	10	6	10	10	75
Project 33 - LWC at Old Fredericksburg Rd and Balcones Creek	10	1	0	2	0	10	0	1	1	4	1	2	3	10	0	45
Project 34 - Elm Spring	2	1	4	10	0	4	0	1	1	4	1	6	3	10	10	57
Project 35 - De Zavala/ Ripple Creek	6	1	7	2	0	10	0	1	1	4	1	10	3	10	10	66
Project 36 - Blanco Road at Cibolo Creek	10	1	0	2	0	10	0	1	1	4	1	2	3	10	10	55
Project 37 - Specht/Obst Road at Cibolo Creek	10	1	0	2	0	10	0	1	1	4	1	2	3	10	0	45
Project 38 - Toutant Beauregard at Balcones Creek	10	1	0	2	0	10	0	1	1	4	1	2	3	10	10	55
Project 39 - Boerne Stage Road at Balcones Creek	10	1	0	2	0	10	0	1	1	4	1	2	3	10	10	55
Project 40 - Blue Ridge Drive Drainage Improvements	4	1	4	4	0	8	0	10	1	4	1	6	3	10	10	66
Project 41 - Southwell Road Drainage Improvements	10	1	7	10	0	10	0	7	1	4	1	2	3	10	0	66
Project 42 - Ridge Run Street Area Drainage Improvements	4	1	10	10	0	4	0	7	1	4	1	2	3	10	0	57
Project 43 - Huebner Creek Channelization (LWC #28)	10	1	0	2	0	10	0	7	1	4	1	2	3	10	10	61
Project 44 - Overbrook Drainage Improvement Phase 1 & 2	4	1	7	2	0	6	0	10	1	4	1	6	3	10	10	65
Project 45 - Abbott Road at Tributary A to Salitrillo Creek and at Salitrillo Creek Bridge	8	1	0	2	0	10	0	4	1	1	1	6	3	10	7	54
Project 46 - Abbott Road at Unnamed Tributary 1 to Salitrillo Creek LWC Improvement	8	1	0	2	0	10	0	4	1	1	1	6	0	10	7	51
Project 47 - Bexar Bowling Way at Cibolo Creek Bridge	10	1	0	2	0	10	0	4	1	1	1	2	3	10	7	52
Project 48 - Damage Center 1: Project 1A, B, C	2	1	4	4	10	2	0	10	1	7	1	2	6	10	7	67
Project 49 - Felix Road at Dry Hollow Creek Barrier Arms	8	1	0	2	0	8	0	4	1	1	1	6	0	10	0	42
Project 50 - Freudenburg Road at Salitrillo Creek Barrier Arms	8	1	0	2	0	10	0	4	1	1	1	6	0	10	0	44
Project 51 - Gass Road at Culebra Creek Tributary D Bridge	8	1	0	2	0	10	0	1	1	1	1	6	3	10	7	51
Project 52 - Ullrich Road at Cibolo Creek Barrier Arms	10	1	0	2	0	10	0	1	1	1	1	6	0	10	0	43
Project 53 - Wilson 10 - Acquisitions of Flooded Structures	6	1	10	10	0	6	0	7	1	1	1	2	0	10	0	55
Project 54 - Athens Street South Drainage Improvements	6	1	7	6	0	4	0	4	1	1	1	6	0	10	7	54
Project 55 - Lorenzo Street North Drainage Improvements	6	1	7	4	0	2	0	4	1	1	1	6	0	10	7	50
Project 56 - Naples Street North Drainage Improvements	6	1	7	6	0	2	0	4	1	1	1	6	0	10	7	52

Regional Flood Plan FMP Project Details Scoring Summary Table

Project	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Severity Ranking: Community Need (% Population)	Flood Risk Reduction	Flood Damage Reduction	Reduction in critical facilities flood risk	Life and Safety Ranking (Injury/Loss of life)	Water Supply Yield Ranking	Social Vulnerability Ranking	Nature-Based Solutions Ranking	Multiple Benefit Ranking	Operations and Maintenance Ranking	Administrative, Regulatory and Other Obstacle Ranking	Environmental Benefit Ranking	Environmental Impact Ranking	Mobility Ranking	Total Score
Project 57 - CR 294 Drainage Improvements at Dry Ecleto Creek	10	1	0	2	0	10	0	1	1	1	7	6	6	6	4	55
Project 58 - CR 302 Drainage Improvements at Ecleto Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61
Project 59 - CR 262 Drainage Improvements at Ecleto Creek	10	1	0	2	0	10	0	1	1	1	7	6	6	6	4	55
Project 60 - Drainage Improvements at CR 337 and CR 326 Near City of Runge	10	1	10	10	0	10	0	7	1	1	7	6	6	6	4	79
Project 61 - CR 336 Drainage Improvements at Ecleto Creek Tributary	8	1	0	2	0	10	0	7	1	1	7	6	6	6	4	59
Project 62 - CR 331 Drainage Improvements at Escondido Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61
Project 63 - City of Kenedy Drainage Improvements on Escondido Creek	10	1	7	6	0	10	0	7	1	1	7	6	6	6	4	72
Project 64 - CR 127 Drainage Improvements at Hondo Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61
Project 65 - CR 145 Drainage Improvements at Hondo Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61
Project 66 - CR 354 Drainage Improvements at Lower San Antonio Tributary 147	8	1	0	2	0	4	0	10	1	1	7	6	6	6	4	56
Project 67 - US 181 Drainage Improvements at Marcelinas Creek Trib	10	1	7	4	0	6	0	1	1	0	7	6	6	6	4	59
Project 68 - Nichols Creek Tributary 2 Drainage Improvements	8	1	7	6	0	10	0	7	1	1	7	6	6	6	4	70
Project 69 - Nichols Creek Tributary 4 Drainage Improvements	8	1	0	2	0	10	0	7	1	1	7	6	6	6	4	59
Project 70 - CR 325 Drainage Improvements at Ojo De Agua Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61
Project 71 - CR 163 Drainage Improvements at Panther Creek	10	1	0	2	0	10	0	7	1	1	7	6	6	6	4	61

No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
12	123000001	PROJECT 1A - ADLER ROAD AT CURREY CREEK AND UNNAMED TRIBUTARY A	Yes		No		Yes	Model	120000000002, 120000000005	Unnamed Tributary A_Project1, Currey Creek_Project1	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000002	PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY	Yes		No		Yes	Model	120000000003	Unnamed Tributary A_Project2	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000003	PROJECT 3 - CURREY CREEK REGIONAL DETENTION FACILITY	Yes		No		Yes	Model	120000000006	Currey Creek_Project3	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000004	PROJECT 4 - SCHOOL STREET AT CIBOLO CREEK AND FREDERICK CREEK	Yes		No		Yes	Model	120000000011, 120000000012	Cibolo_RAS, Frederick Creek	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000005	PROJECT 5D - OLD SAN ANTONIO STREET AT MENGER CREEK	Yes		No		Yes	Model	120000000014	Menger Creek_Boerne_S_MainStem	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000006	PROJECT 6 - JOHNS ROAD NEAR CIBOLO CROSSING SUBDIVISION	Yes		No		Yes	Model	120000000013	Johns Cibolo Crossing	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000007	PROJECT 7 - SCHWEPPE AND HICKMAN STREET	Yes		No		Yes	Model	120000000015	Hickman and Schweppe	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000008	PROJECT 8 - JOHNS AND LOHMANN STREET	Yes		No		Yes	Model	120000000016	Johns and Lohmann	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000009	PROJECT 9 - UNNAMED TRIBUTARY A- SUBDIVISION FLOOD PROTECTION & MOBILITY PROJECT	Yes		No		Yes	Model	120000000004	Unnamed Tributary A_Project9_11	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000010	PROJECT 10 - E. BLANCO ROAD AT UNNAMED TRIBUTARY A	Yes		No		Yes	Model	120000000004	Unnamed Tributary A_Project9_11	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000011	PROJECT 11 - RIVER ROAD AT UNNAMED TRIBUTARY A	Yes		No		Yes	Model	120000000004	Unnamed Tributary A_Project9_11	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000012	PROJECT 13 - HERFF AND ESSER ROAD IMPROVEMENTS AT CURREY AND CIBOLO CREEK	Yes		No		Yes	Model	120000000008, 120000000011	Currey Creek_Project13, Cibolo_RAS	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000013	PROJECT 12 - PLANT CHANNEL IMPROVEMENT	Yes		No		Yes	Model	120000000007	Currey Creek_Project12	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000014	PROJECT 14 - EAST BOERNE REGIONAL LID	Yes		No		Yes	Model	120000000017	SARA_CiboloCreek	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000015	PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS	Yes		No		Yes	Model	120000000009	Currey Creek_Project15	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000016	PROJECT 16 - SOUTH CURREY CREEK CHANNEL IMPROVEMENTS	Yes		No		Yes	Model	120000000010	Currey Creek_Project16	Yes	Boerne Master Drainage Plan, Boerne, TX	Halff	
12	123000017	Lewis Creek Alternative 1 Phase 1 & 2	Yes		No		Yes	Model	120000000018	LewisCk and Trib 2	Yes	Lewis Creek Watershed Phase 2 Alternatives Analysis Drainage Report, Bulverde, TX	Halff	
12	123000018	Seeling Drainage Improvements	Yes		No		Yes	Model	120000000024	Seeling_Working_V2019.1	Yes	Seeling Phase IV Preliminary Engineering Report, San Antonio, TX	Halff	
12	123000019	Lewis Creek Tributary 2 Alternative 1 & 2	Yes		No		Yes	Model	120000000018	LewisCk and Trib 2	Yes	Lewis Creek Watershed Phase 2 Alternatives Analysis Drainage Report, Bulverde, TX	Halff	
12	123000020	Lewis Creek Main	Yes		No		Yes	Model	120000000018	LewisCk and Trib 2	Yes	Lewis Creek Watershed Phase 2 Alternatives Analysis Drainage Report, Bulverde, TX	Halff	
12	123000021	Rock Creek - Alt 1	Yes		No		Yes	Model	120000000021	Rock Creek	Yes	Judson and Lookout LWC Improvement, San Antonio, TX	Pape-Dawson	
12	123000022	Judson and Lookout LWC Improvement	Yes		No		Yes	Model	120000000022	LookoutJudsonLWCImp	Yes	Rock Creek - Alt 1	HDR	
12	123000023	Symphony Lane Voluntary Property Acquisition	Not Applicable		No		Not Applicable				No	Symphony Lane Neighborhood Flood Relief Study, San Antonio, TX	KBR	Acquisition
12	123000024	Holbrook Road Improvements	Yes		No		Yes	Model	120000000023	SaladCreekDetailedModel_Lift	Yes	Holbrook Road Preliminary Engineering Report, San Antonio, TX	Halff	
12	123000025	Barbara Drive Drainage Improvements	Yes		No		Yes	Model	120000000019	Barbara Drive	Yes	Barbara Drive Preliminary Engineering Report	CEC	
12	123000026	Thames Drainage Channel Replacement - Alt 1	Yes		No		Yes	Model	120000000020	TribAtoAirtportTrib	Yes	Thames Drainage Channel Replacement - Alt 1, San Antonio, TX	HDR	
12	123000027	Shady Lane Dr.Voluntary Property Acquisition	Not Applicable		No		Not Applicable				No	Shady Lane Dr.Voluntary Property Acquisition	City of San Antonio	Acquisition
12	1.23E+08	Woodlawn Lawn Lake Option 2	Yes		No		Yes	Model	120000000025	PCM_Ph4_100YR_V2	Yes	Upper Woodlawn Lake Watershed, Balcones Heights, TX	AECOM	
12	1.23E+08	Boerne Stage Road at Balcones Creek	Yes		No		Yes	Model	120000000026	Balcones_Creek_BoerneStage	Yes	Boerne Stage Road at Balcones Creek	Halff	

No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
12	1.23E+08	LWC at Old Fredericksburg Rd and Balcones Creek	Yes		No		Yes	Model	120000000027	Balcones_Creek_OldFredericksburg	Yes	LWC at Old Fredericksburg Rd and Balcones Creek	Halff	
12	1.23E+08	Toutant Beauregard at Balcones Creek	Yes		No		Yes	Model	120000000028	Balcones_Creek_Toutant	Yes	Toutant Beauregard at Balcones Creek	Halff	
12	1.23E+08	Overbrook Drainage Improvement Phase 1 & 2	Yes		No		Yes	Model	120000000025	PCM_Ph4_100YR_V2	Yes	Overbrook Drainage Improvement Phase 1 & 2	Halff	
12	1.23E+08	Blanco Road at Cibolo Creek	Yes		No		Yes	Model	120000000030	BlancoRoad_Upper Cibolo Creek	Yes	Blanco Road at Cibolo Creek	Halff	
12	1.23E+08	Elm Spring	Yes		No		Yes	Study	120000000031	ElmCreek	Yes	City of Shavano Park PER, Shavano Park, TX	KFW	
12	1.23E+08	De Zavala/ Ripple Creek	Yes		No		Yes	Study	120000000031	ElmCreek	Yes	City of Shavano Park PER, Shavano Park, TX	KFW	
12	1.23E+08	Blue Ridge Drive Drainage Improvements	Yes		No		Yes	Study	120000000033	ApacheCreek_Alts	Yes	Blue Ridge Drive PER, San Antonio, TX	Halff	
12	1.23E+08	Damage Center 1 Project1 Detention in East Branch Poth Creek	Yes		No		Yes	Model	120000000034	East_Branch_Poth_Creek	Yes	Wilson and Karnes Watershed Master Plan, Poth, TX	URS	
12	1.23E+08	Huebner Creek Channelization (LWC #28)	Yes		No		Yes	Model	120000000035	Huebner Creek	Yes	Huebner Creek Channelization (LWC #28), San Antonio, TX	Halff	
12	1.23E+08	Damage Center 2-Project 1 Culvert Improvements at Menchaca	Yes		No		Yes	Model	120000000036	Poth Creek_Menchaca	Yes	Wilson and Karnes Watershed Master Plan, Poth, TX	URS	
12	1.23E+08	Damage Center 2- Project 2 Road connection from Mosspoint to Sunshine	Not Applicable		No		Not Applicable				No	Wilson and Karnes Watershed Master Plan, Poth, TX	URS	Alternative Route not in floodplain
12	1.23E+08	Ridge Run Street Area Drainage Improvements	Yes		No		Yes	Study	120000000037	TributaryAofCulebraCreek	Yes	Ridge Run Street Area Drainage Improvements, San Antonio, TX	HDR	
12	1.23E+08	Southwell Road Drainage Improvements	Yes		No		Yes	Study	120000000032	Huebner Creek Trib A	Yes	Southwell Road PER, San Antonio, TX	Halff	
12	1.23E+08	Specht/Obst Road at Cibolo Creek	Yes		No		Yes	Model	120000000029	Specht/Obst LWC	Yes	Specht/Obst Road at Cibolo Creek	Halff	
12	1.23E+08	Concepcion Creek Improvements Project	Yes		No		Yes	Model	120000000001	Concepcion	Yes	Concepcion PER - City of San Antonio	HDR	
12	1.23E+08	Abbott Road at Tributary A to Salitrillo Creek and at Salitrillo Creek Bridge	Yes		No		Yes	Model	120000000038	Abbott Road at Tributary A to Salitrillo Creek and at Salitrillo Creek Bridge	Yes	Abbott Road at Tributary A to Salitrillo Creek and at Salitrillo Creek Bridge - Bexar County	HDR	
12	1.23E+08	Abbott Road at Unnamed Tributary 1 to Salitrillo Creek LWC Improvement	Yes		No		Yes	Model	120000000039	Abbott Road at Unnamed Tributary 1 to Salitrillo Creek LWC Improvement	Yes	Abbott Road at Unnamed Tributary 1 to Salitrillo Creek LWC Improvement - Bexar County	HDR	
12	1.23E+08	Bexar Bowling Way at Cibolo Creek Bridge	Yes		No		Yes	Model	120000000040	Bexar Bowling Way at Cibolo Creek Bridge, Ullrich Road at Cibolo Creek Barrier Arms	Yes	Bexar Bowling Way at Cibolo Creek Bridge - Bexar County	HDR	
12	1.23E+08	Damage Center 1: Project 1A, B, C	Yes		No		Yes	Model	120000000044	Damage Center 1: Project 1A, B, C	Yes	Damage Center 1: Project 1A, B, C - City of Floresville	HDR	
12	1.23E+08	Felix Road at Dry Hollow Creek Barrier Arms	Not Applicable		No		Not Applicable						HDR	Barrier Arms
12	1.23E+08	Freudenburg Road at Salitrillo Creek Barrier Arms	Not Applicable		No		Not Applicable						HDR	Barrier Arms
12	1.23E+08	Gass Road at Culebra Creek Tributary D Bridge	Yes		No		Yes	Model	120000000043	Gass Road at Culebra Creek Tributary D Bridge	Yes	Gass Road at Culebra Creek Tributary D Bridge	HDR	
12	1.23E+08	Ullrich Road at Cibolo Creek Barrier Arms	Not Applicable		No		Not Applicable						HDR	Barrier Arms
12	1.23E+08	Wilson 10 - Acquisitions of Flooded Structures	Not Applicable		No		Not Applicable						HDR	Acquisition
12	1.23E+08	Athens Street South Drainage Improvements	Yes		No		Yes	Model	120000000046	Castorville - Athens	Yes	Castroville Drainage Master Plan - City of Castroville	Kfriese	
12	1.23E+08	Lorenzo Street North Drainage Improvements	Yes		No		Yes	Model	120000000047	Castorville - Lorenzo	Yes	Castroville Drainage Master Plan - City of Castroville	Kfriese	
12	1.23E+08	Naples Street North Drainage Improvements	Yes		No		Yes	Model	120000000048	Castorville - Naples	Yes	Castroville Drainage Master Plan - City of Castroville	Kfriese	
12	1.23E+08	CR 294 Drainage Improvements at Dry Ecleto Creek	Yes		No		Yes	Model	120000000049	CR 294 Drainage Improvements at Dry Ecleto Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 302 Drainage Improvements at Ecleto Creek	Yes		No		Yes	Model	120000000050	CR 302 Drainage Improvements at Ecleto Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 262 Drainage Improvements at Ecleto Creek	Yes		No		Yes	Model	120000000051	CR 262 Drainage Improvements at Ecleto Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	Drainage Improvements at CR 337 and CR 326 Near City of Runge	Yes		No		Yes	Model	120000000052	Drainage Improvements at CR 337 and CR 326 Near City of Runge	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	

No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
12	1.23E+08	CR 336 Drainage Improvements at Ecleto Creek Tributary	Yes		No		Yes	Model	120000000053	CR 336 Drainage Improvements at Ecleto Creek Tributary	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 331 Drainage Improvements at Escondido Creek	Yes		No		Yes	Model	120000000054	CR 331 Drainage Improvements at Escondido Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	City of Kenedy Drainage Improvements on Escondido Creek	Yes		No		Yes	Model	120000000055	City of Kenedy Drainage Improvements on Escondido Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 127 Drainage Improvements at Hondo Creek	Yes		No		Yes	Model	120000000056	CR 127 Drainage Improvements at Hondo Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 145 Drainage Improvements at Hondo Creek	Yes		No		Yes	Model	120000000057	CR 145 Drainage Improvements at Hondo Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 354 Drainage Improvements at Lower San Antonio Tributary 147	Yes		No		Yes	Model	120000000058	CR 354 Drainage Improvements at Lower San Antonio Tributary 147	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	US 181 Drainage Improvements at Marcelinas Creek Trib	Yes		No		Yes	Model	120000000059	US 181 Drainage Improvements at Marcelinas Creek Trib	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	Nichols Creek Tributary 2 Drainage Improvements	Yes		No		Yes	Model	120000000060	Nichols Creek Tributary 2 Drainage Improvements	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	Nichols Creek Tributary 4 Drainage Improvements	Yes		No		Yes	Model	120000000061	Nichols Creek Tributary 4 Drainage Improvements	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 325 Drainage Improvements at Ojo De Agua Creek	Yes		No		Yes	Model	120000000062	CR 325 Drainage Improvements at Ojo De Agua Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	
12	1.23E+08	CR 163 Drainage Improvements at Panther Creek	Yes		No		Yes	Model	120000000063	CR 163 Drainage Improvements at Panther Creek	Yes	TWDB FIF Karnes County Flood Protection Planning Study - Karnes County	Doucet	

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Appendix B. Maps

Map 1. Existing Flood Infrastructure (2.1 Task 1 – Planning Area Description)

Map 2. Proposed or Ongoing Flood Mitigation Projects (2.1 Task 1 – Planning Area Description)

Map 3. Nonfunctional or Deficient Infrastructure (2.1 Task 1 – Planning Area Description)

Map 4. Existing Condition Flood Hazard (2.2.A.1 Existing Condition Flood Hazard Analysis)

Map 5. Existing Condition Flood Hazard - Gaps in Inundation Boundary Mapping including Identification of Known Flood-Prone Areas (2.2.A.1 Existing Condition Flood Hazard Analysis)

Map 6. Existing Condition Flood Exposure (2.2.A.2 Existing Condition Flood Exposure Analysis)

Map 7. Existing Condition Flood Vulnerability including Critical Infrastructure (2.2A.3 Existing Condition Vulnerability Analysis)

Map 8. Future Condition Flood Hazard (2.2.B.1 Future Condition Flood Hazard Analysis)

Map 9. Future Condition Flood Hazard - Gaps in Inundation Boundary Mapping including Identification of Known Flood-Prone Areas (2.2.B.1 Future Condition Flood Hazard Analysis)

Map 10. Extent of Increase of Flood Hazard Compared to Existing Condition (2.2.B.1 Future Condition Flood Hazard Analysis)

Map 11. Future Condition Flood Exposure (2.2.B.2 Future Condition Flood Exposure Analysis)

Map 12. Future Condition Flood Vulnerability including Critical Infrastructure (2.2.B.3 Future Condition Vulnerability Analysis)

Map 13. Floodplain Management (2.3.A Task 3A – Evaluation and Recommendations on Floodplain Management Practices)

Map 14. Greatest Gaps in Flood Risk Information (2.4.A Task 4A – Flood Mitigation Needs Analysis)

Map 15. Greatest Flood Risk (2.4.A Task 4A – Flood Mitigation Needs Analysis)

Map 16. Extent of Potential Flood Management Evaluations and Existing Mapping Needs (2.4.B Task 4B– Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigation Projects)

Map 17. Extent of Potential Flood Mitigation Projects (2.4.B Task 4B)

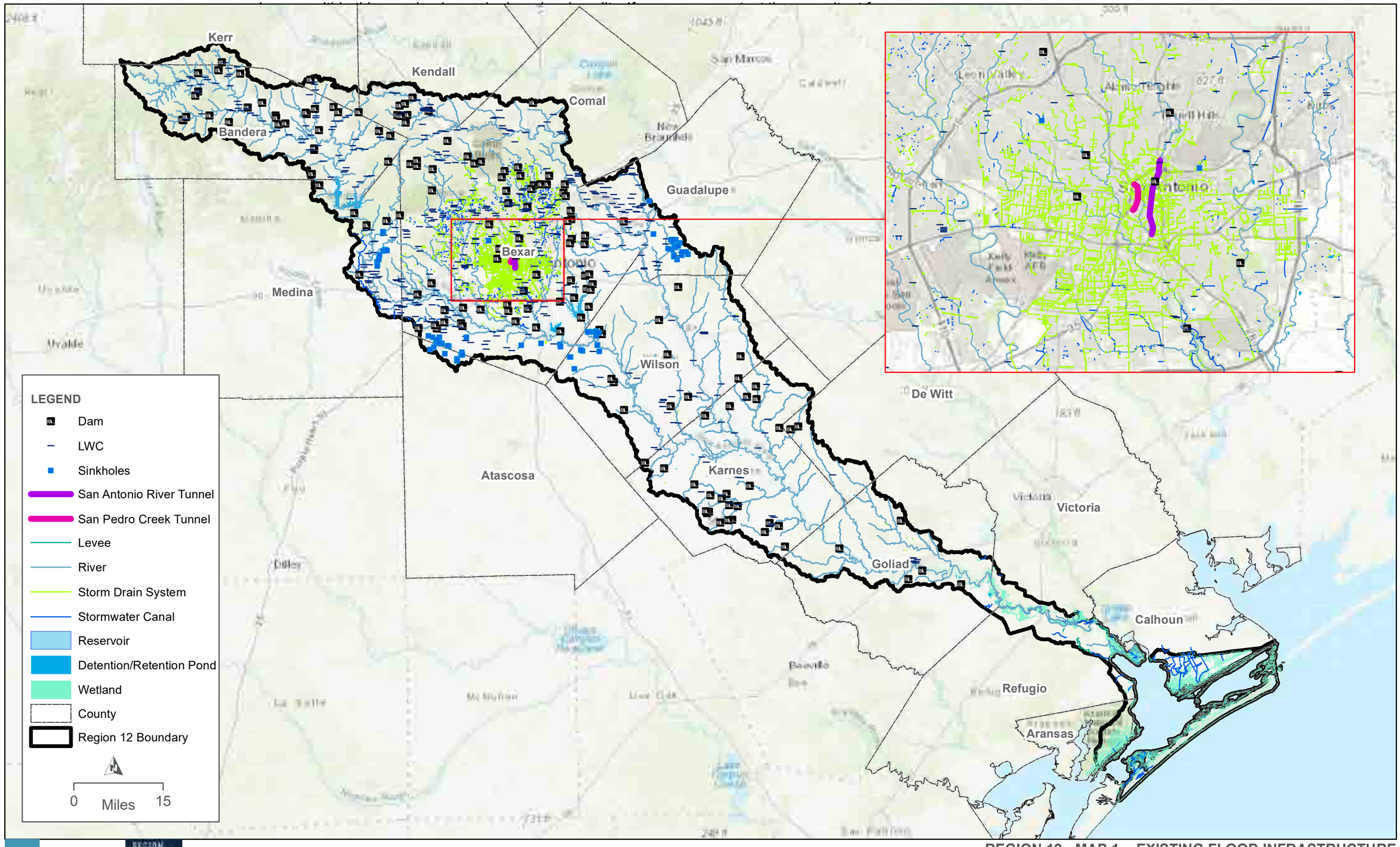
Map 18. Extent of Potential Flood Management Strategies (2.4.B Task 4B)

Map 19. Recommended Flood Management Evaluations (2.5.A Flood Management Evaluations)

Map 20. Recommended Flood Mitigation Projects (2.5.B Flood Mitigation Projects)

Map 21. Recommended Flood Management Strategies (2.5.C Flood Management Strategies)

Map 22. Model Coverage (2.4.C Task 4C – Prepare and Submit Technical Memorandum)



REGION 12 - MAP 1 - EXISTING FLOOD INFRASTRUCTURE

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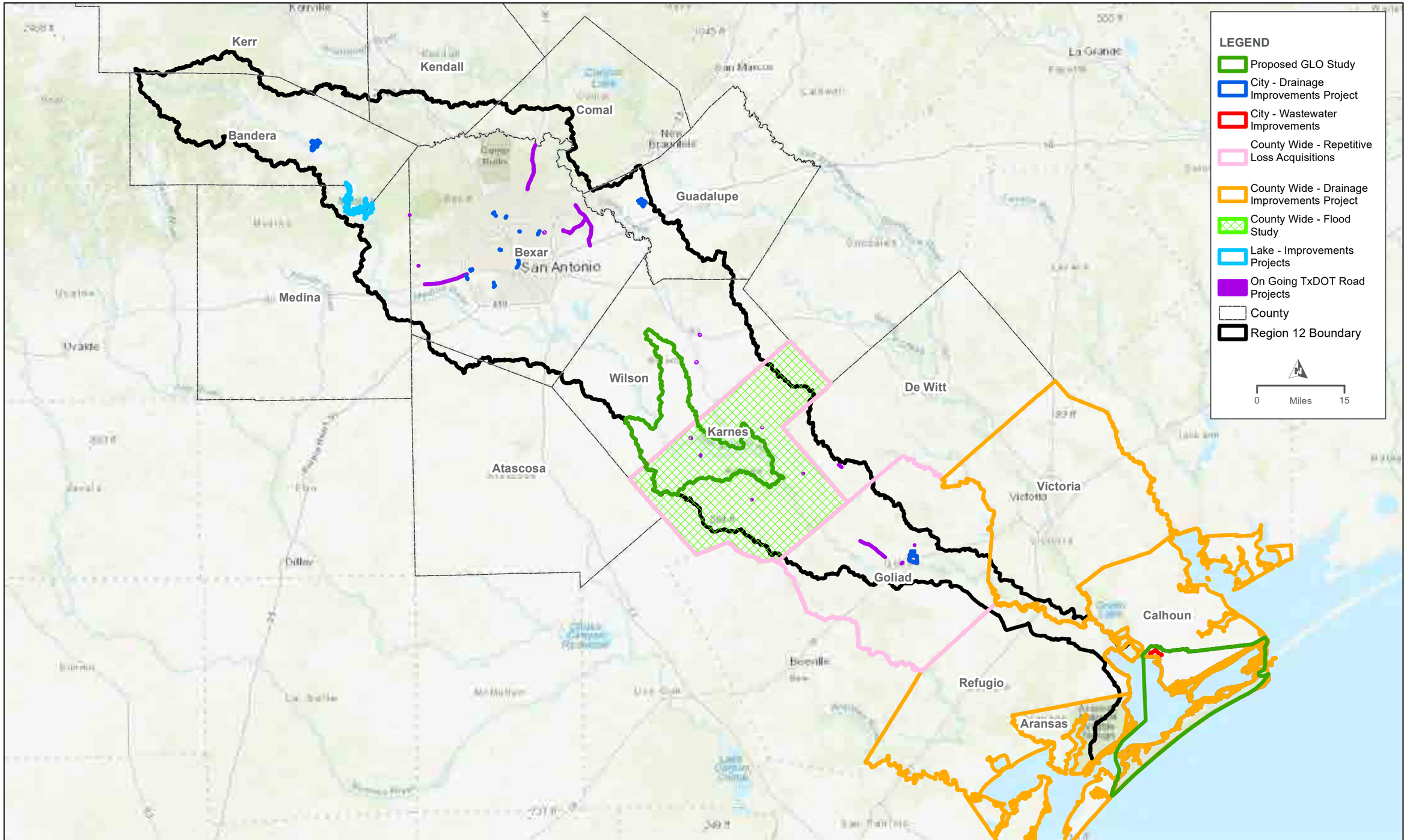

REGION 12 - MAP 2 - PROPOSED OR ONGOING FLOOD MITIGATION PROJECTS

FINAL

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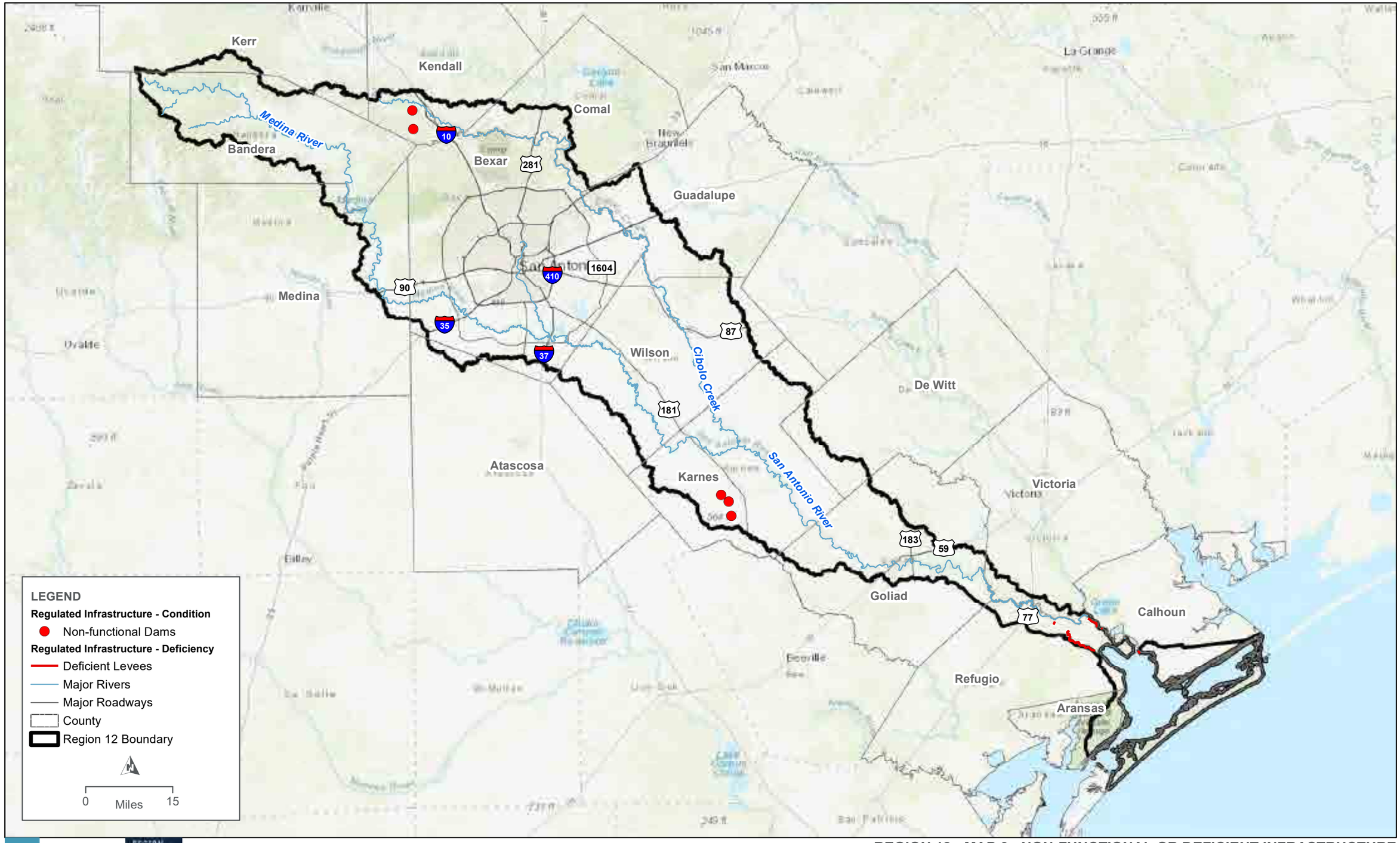
Kerr
Kendall
Comal
Bexar
Bandera
Medina River
Guadalupe
Medina
Uvalde
Wilson
Cibolo Creek
De Witt
Atascosa
Karnes
San Antonio River
Victoria
Goliad
Calhoun
Refugio
Aransas
La Grange
New Braunfels
San Marcos
Seguin
Floresville
Beeville
Bay City
Edna
Hallettsville
Yoakum
Cuero
Gonzales
Luling
Lockhart
Seguin
Boerne
Kerrville
Fredericksburg
Pleasanton
Jourdanton
Devine
Hondo
Castroville
Stockdale
Falls City
Karnes City
Kenedy
Sinton
Portland
Rockport
Fulton
Port Lavaca
Seadrift
Palacios
Matagorda
Bay City
Wharton
Columbus
Schulenburg
Flatonia
Shiner
Gonzales
Luling
Lockhart
Seguin
New Braunfels
San Marcos
Buda
Kyle
Austin
Round Rock
Georgetown
Taylor
Elgin
Bastrop
La Grange
Giddings
Brenham
Hempstead
Waller
Prairie View
Katy
Sugar Land
Pearland
Alvin
Angleton
Freeport
Lake Jackson
Clute
Richwood
Oyster Creek
Surfside Beach
Quintana
Jones Creek
Brazoria
Danbury
Sweeny
Old Ocean
Bay City
Matagorda
Palacios
Port O'Connor
Port Lavaca
Seadrift
Rockport
Fulton
Aransas Pass
Ingleside
Portland
Gregory
Taft
Sinton
Odem
Edroy
Banquete
Driscoll
Agua Dulce
Bishop
Kingsville
Riviera
Armstrong
Ricardo
Petronila
Premont
Orange Grove
Alice
Falfurrias
George West
Three Rivers
Tilden
Pleasanton
Jourdanton
Poteet
Devine
Hondo
Castroville
Lytle
Natalia
Dilley
Moore
Pearsall
Frio Town
Derby
Uvalde
Sabinal
Utopia
Vanderpool
Concan
Leakey
Camp Wood
Rocksprings
Barksdale
Brackettville
Del Rio
Comstock
Langtry
Sanderson
Dryden
Marathon
Alpine
Fort Davis
Marfa
Presidio
Terlingua
Study Butte
Big Bend National Park
Lajitas
Redford
Candelaria
Valentine
Van Horn
Sierra Blanca
Fort Hancock
Salt Flat
Dell City
Kent
Pecos
Balmorhea
Toyah
Barstow
Grandfalls
Monahans
Wickett
Pyote
Mentone
Kermit
Wink
Jal
Hobbs
Eunice
Monument
Tatum
Lovington
Seminole
Andrews
Denver City
Plains
Seagraves
Morton
Levelland
Whitharral
Sundown
Brownfield
Meadow
Wilson
Post
Ralls
Crosbyton
Lorenzo
Idalou
Lubbock
Wolfforth
Slaton
Abernathy
Shallowater
New Deal
Ransom Canyon
Buffalo Springs Lake
Canyon Lake
Lake Dunlap
Lake McQueeney
Lake Placid
Lake Wood
Lake Gonzales
Lake Nixon
Lake Texana
Lake Corpus Christi
Lake Texana
Lake Calhoun
Lake Austin
Lake Travis
Lake Buchanan
Inks Lake
Lake LBJ
Lake Marble Falls
Lake Granite Shoals
Lake Victor
Lake Bastrop
Lake Somerville
Lake Fayette
Lake Jackson
Lake Brazos
Lake Waco
Lake Limestone
Lake Mexia
Lake Navarro Mills
Lake Whitney
Lake Aquilla
Lake Waxahachie
Lake Bardwell
Lake Ennis
Lake Joe Pool
Lake Arlington
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Lake Ray Roberts
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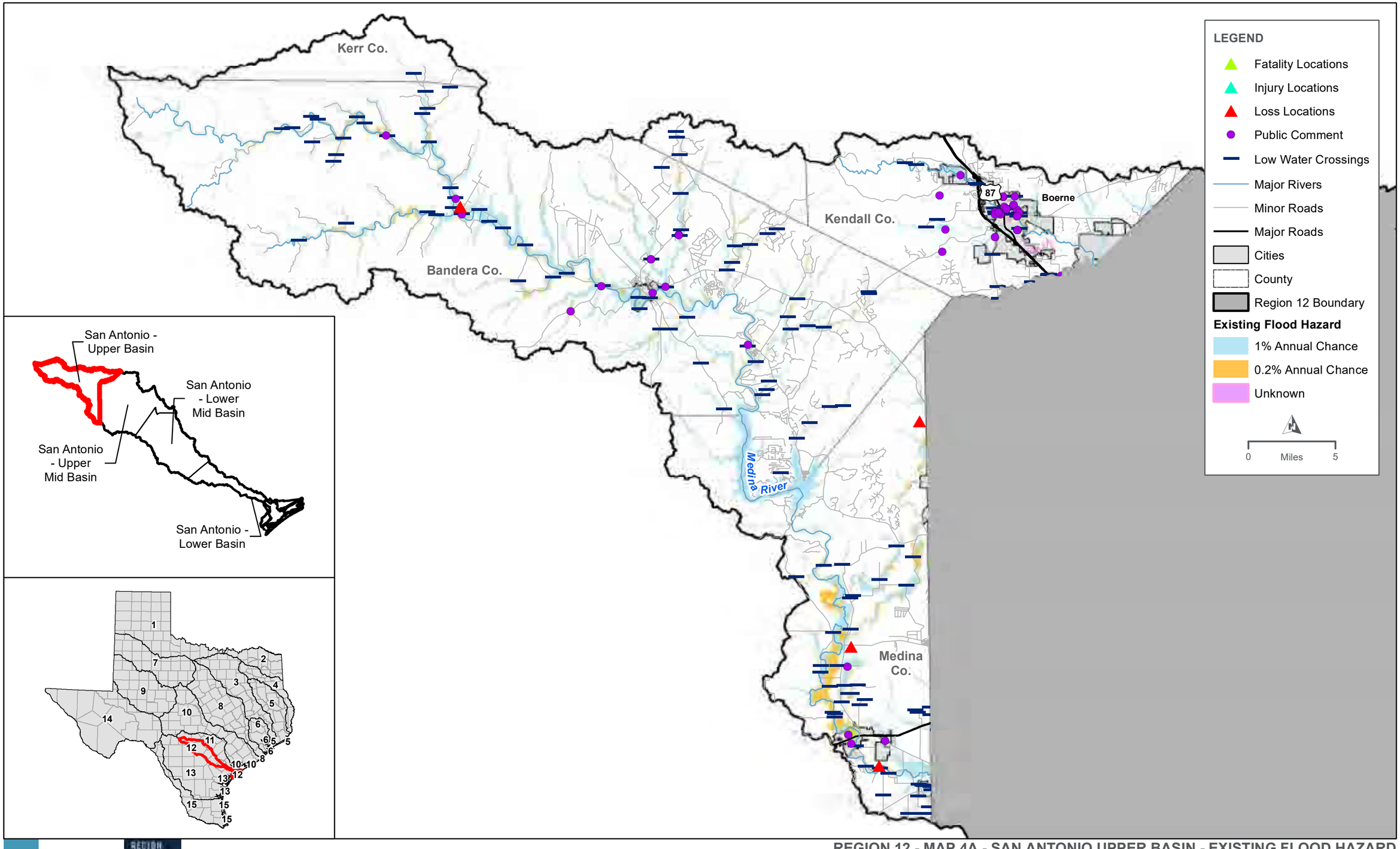
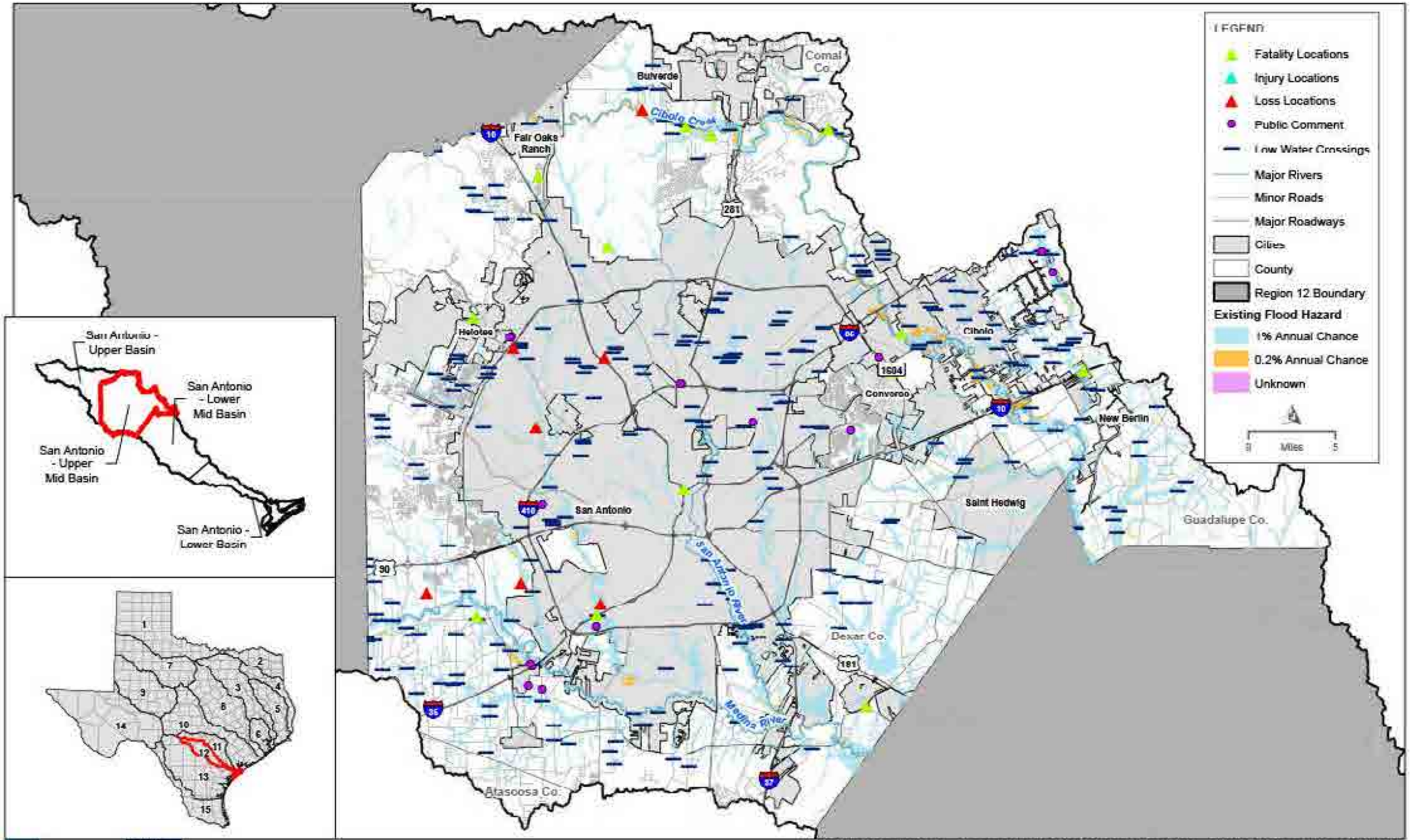
Lake Kemp
Lake Diversion
Lake Kickapoo
Lake Arrowhead
Lake Wichita



REGION 12 - MAP 4A - SAN ANTONIO UPPER BASIN - EXISTING FLOOD HAZARD

FINAL

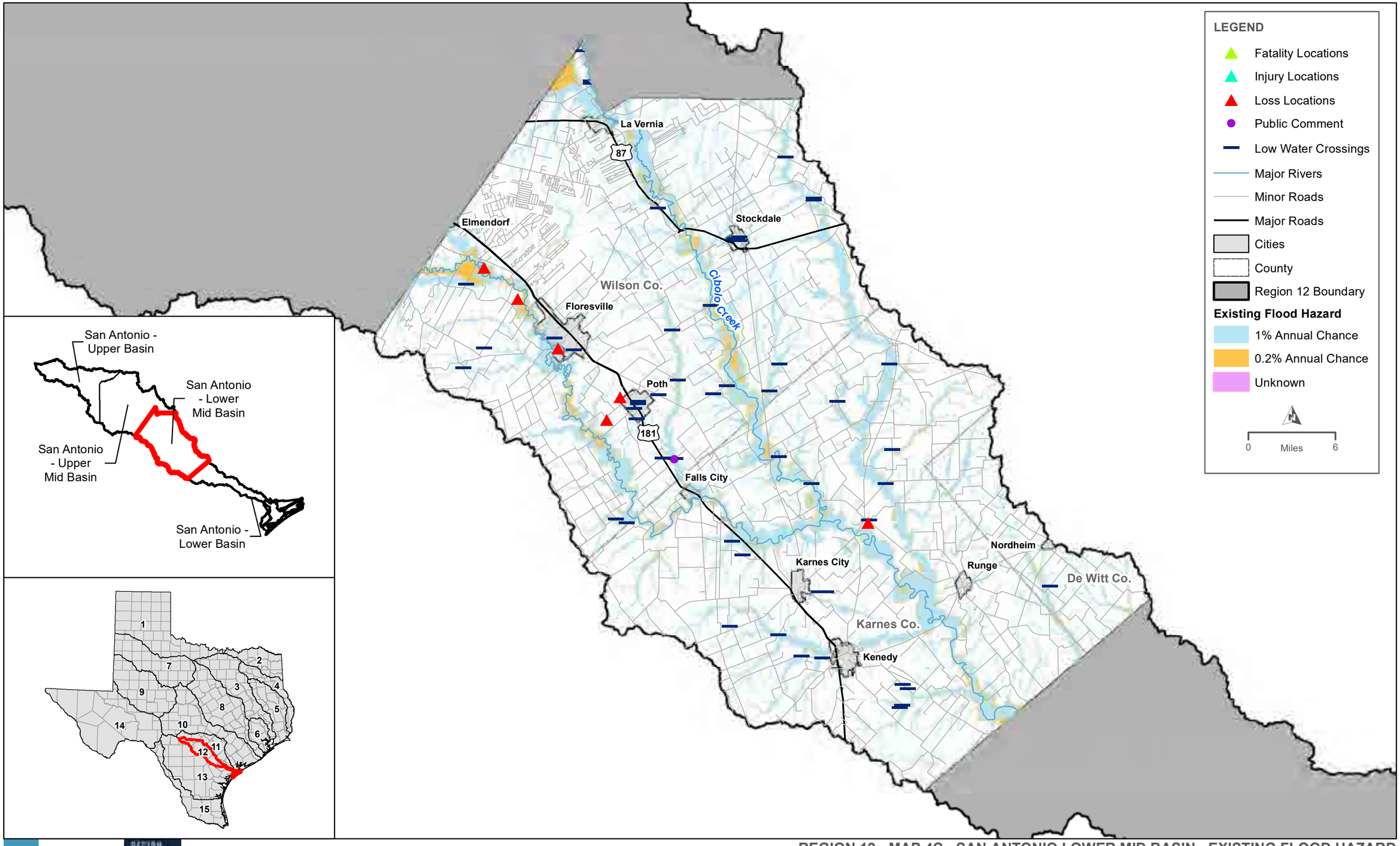
FIGURE 1



REGION 12 - MAP 4D - SAN ANTONIO UPPER MID BASIN - EXISTING FLOOD HAZARD

FINAL

FIGURE 2



REGION 12 - MAP 4C - SAN ANTONIO LOWER MID BASIN - EXISTING FLOOD HAZARD

FINAL

FIGURE 3

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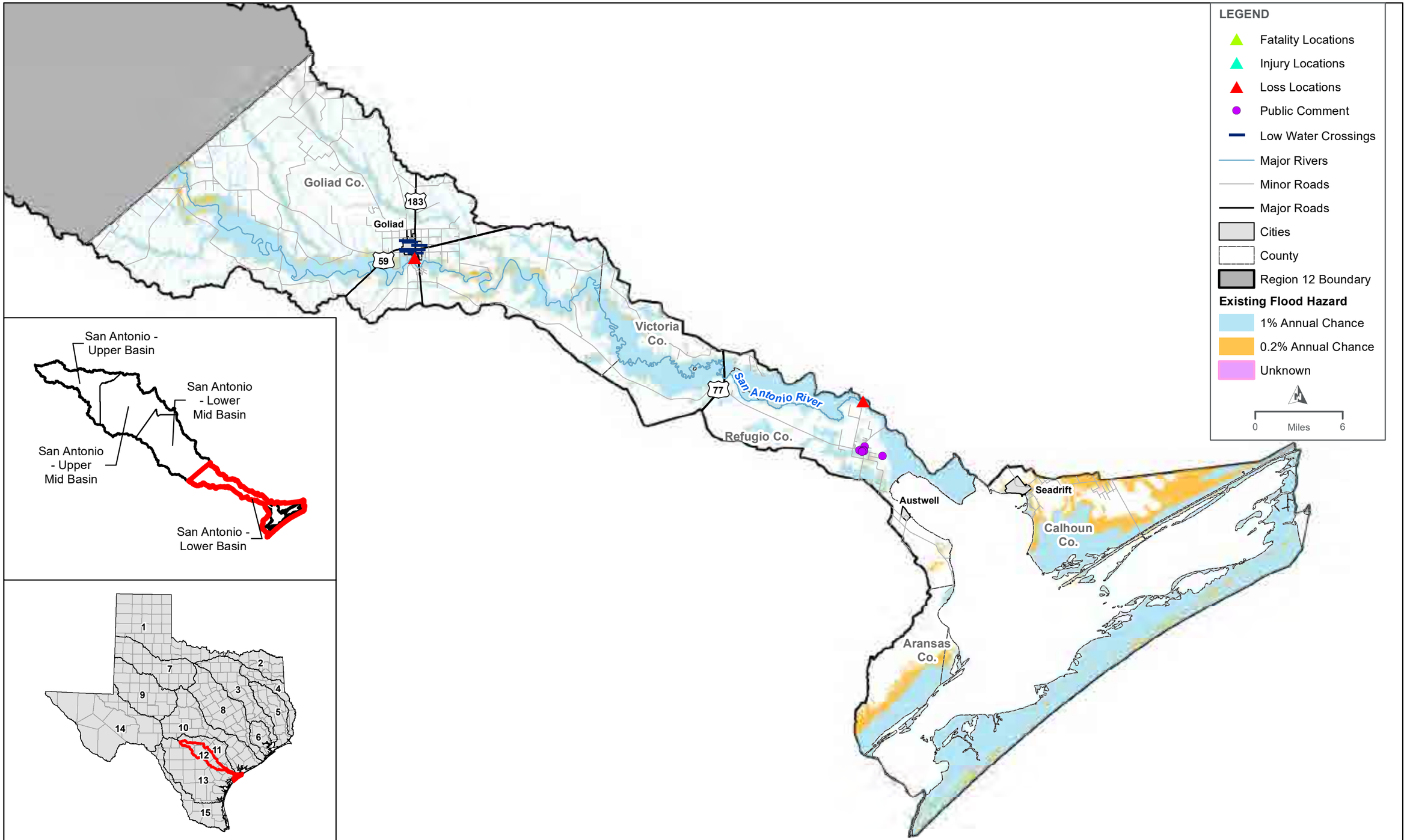


REGION 12 - MAP 4D - SAN ANTONIO LOWER BASIN - EXISTING FLOOD HAZARD

FINAL

FIGURE 4

Kerr Co.

Bandera Co.

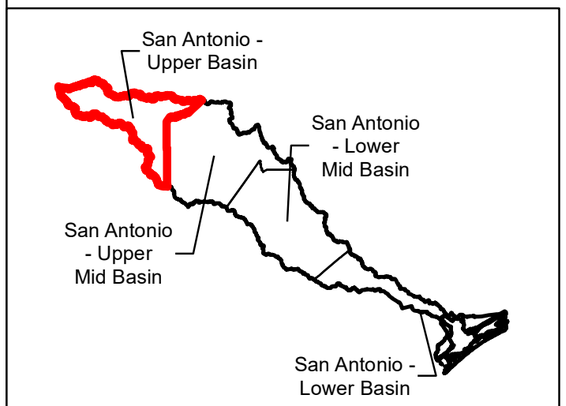
Kendall Co.

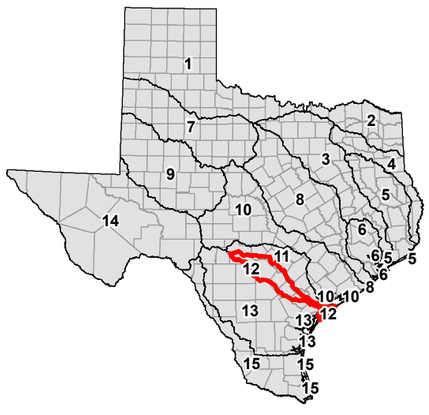
Medina Co.

Boerne

87

Medina River





LEGEND

- Fatality Locations
- Injury Locations
- Loss Locations
- Public Comment
- Low Water Crossings
- Major Rivers
- Minor Roads
- Major Roads
- Cities
- County
- Region 12 Boundary

Existing Flood Type

- Local
- Coastal
- Riverine

0 Miles 5

REGION 12 - MAP 4E - SAN ANTONIO UPPER BASIN - EXISTING FLOOD HAZARD TYPE

FINAL

FIGURE 1

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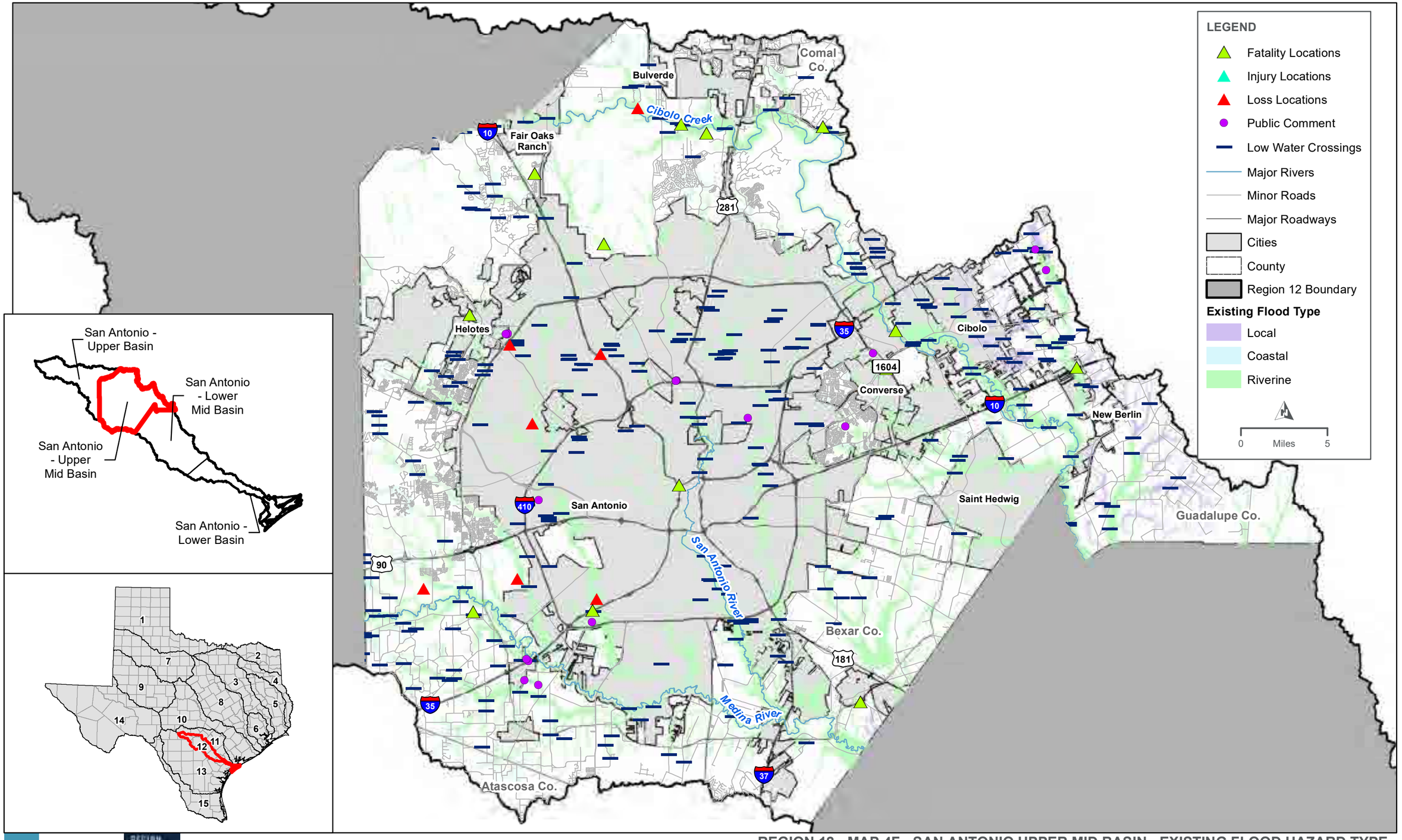

REGION 12 - MAP 4F - SAN ANTONIO UPPER MID BASIN - EXISTING FLOOD HAZARD TYPE

FINAL

FIGURE 2

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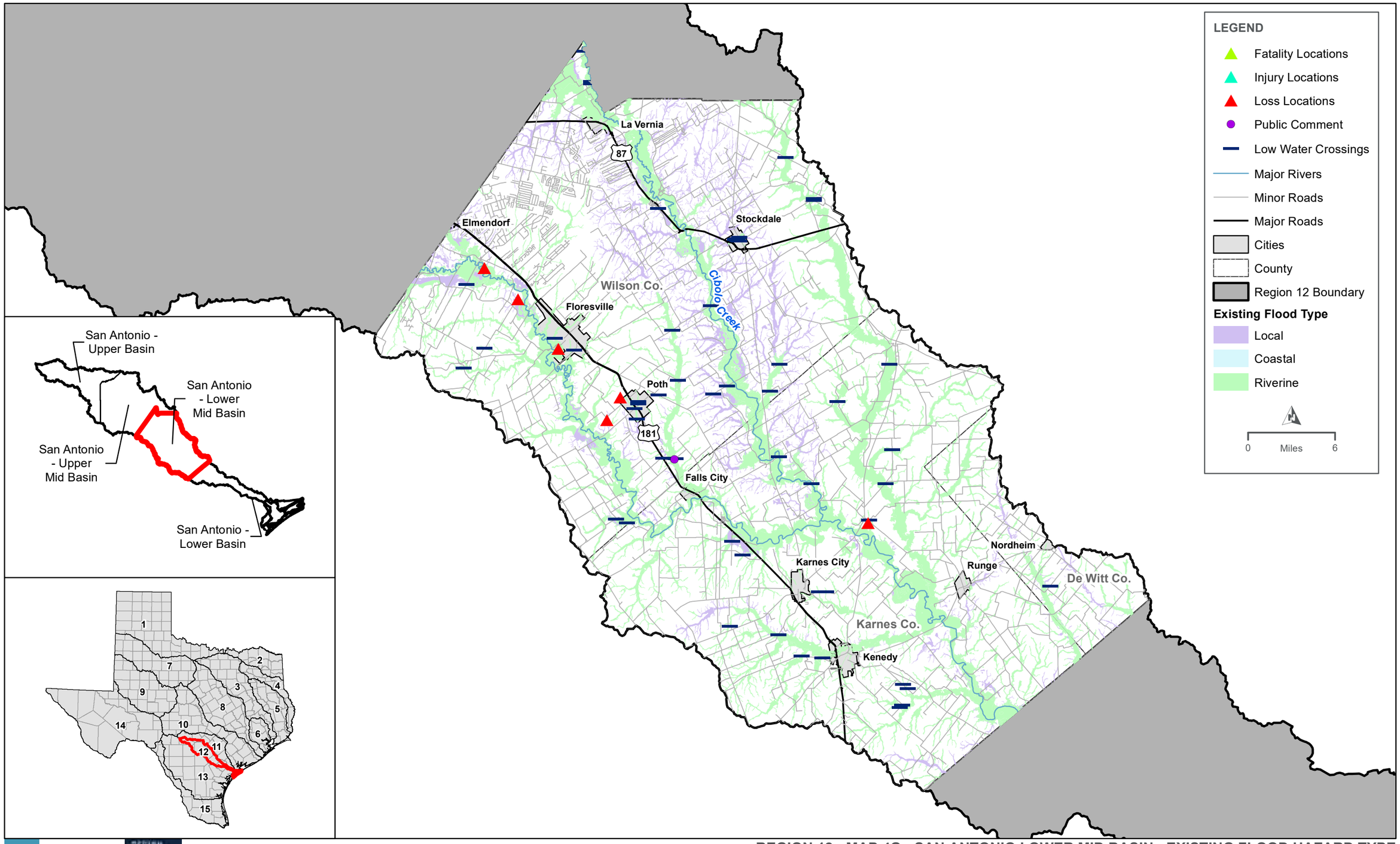

REGION 12 - MAP 4G - SAN ANTONIO LOWER MID BASIN - EXISTING FLOOD HAZARD TYPE

FINAL

FIGURE 3

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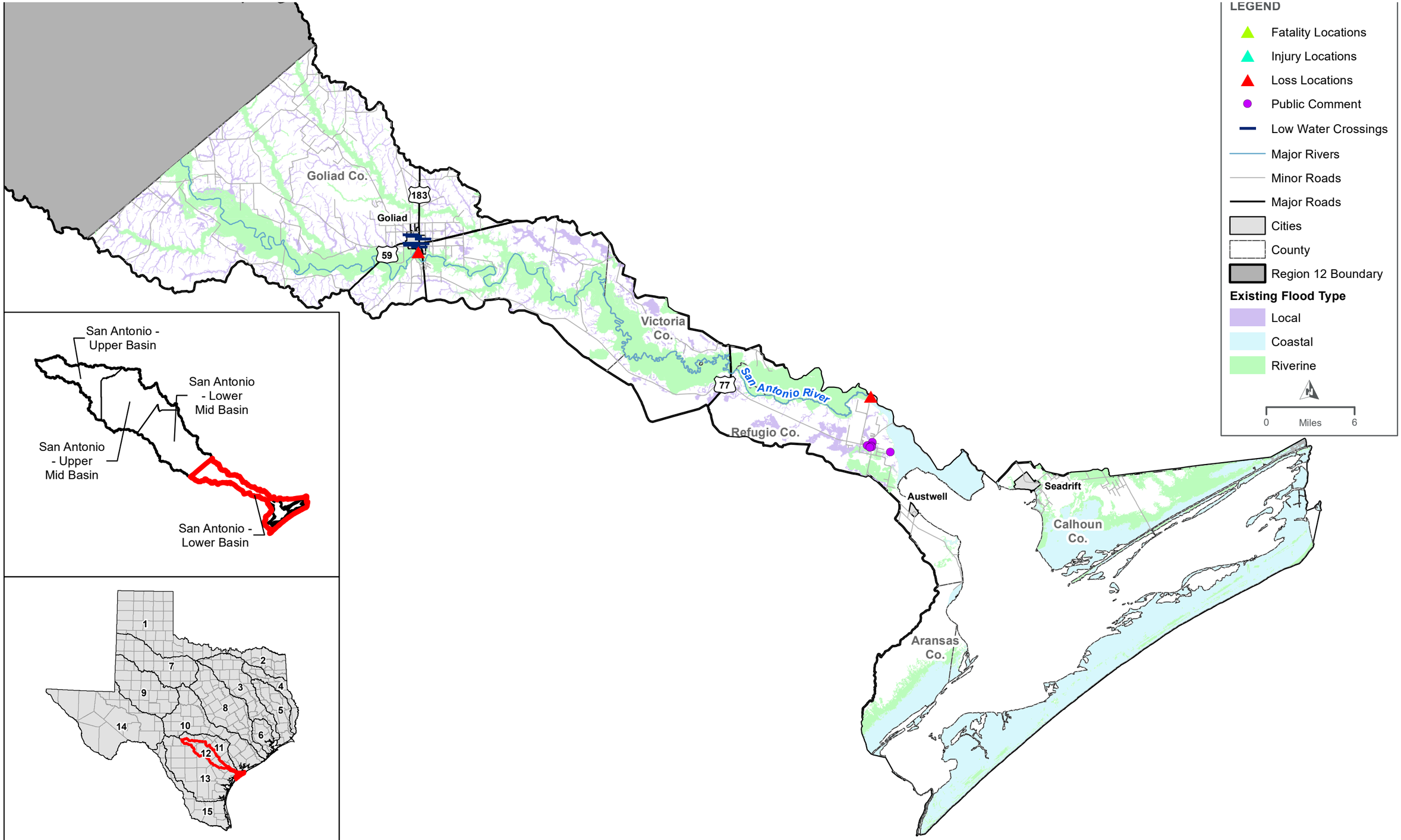

REGION 12 - MAP 4H - SAN ANTONIO LOWER BASIN - EXISTING FLOOD HAZARD TYPE

FINAL

FIGURE 4