ATTACHMENT 9

EAHCP Table 7.2

ACTIVITY	Annual Costs (Years 1-7)							Annual Costs (Years 8-15)								Total Estimate	Table 7.1	Δ: Estimate - Table 7.1	Table 7.1 + 2%	Δ: Estimate - Table 7.1 + 2%
	2013 Actual	2014 Actual	2015 Budgeted	2016 WP	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027					
CPM Stage V (§ 5.1.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Use of SAWS ASR for Springflow Protection Trade Off (§ 5.5.1)																				
Obtaining Leases and Options for Water	$ 459,823	$ 844,663	$ 3,866,740	$ 5,200,100	$ 5,200,100	$ 5,200,100	$ 6,866,800	$ 6,866,800	$ 6,866,800	$ 6,866,800	$ 3,866,740	$ 3,866,740	$ 3,866,740	$ 3,866,740	$ 3,866,740	$ 67,572,426	$ 71,385,000	$ 3,812,574	$ 82,299,371	$ 14,726,945
O&M Costs related to the actual use of the ASR	$ 69,128	$ 149,147	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 2,194,000	$ 28,740,275	$ 32,910,000	$ 4,169,725	$ 37,941,757	$ 9,201,482
Regional Water Conservation Program (§ 5.1.3)	$ 135,849	$ 475,081	$ 1,813,000	$ 1,813,000	$ 1,813,000	$ 1,973,000	$ 1,973,000	$ 1,973,000	$ 1,973,000	$ 1,479,750	$ 986,500	$ 493,250	$ 493,250	$ 493,250	$ 493,250	$ 18,381,180	$ 19,730,000	$ 1,348,820	$ 22,258,637	$ 3,877,457
Voluntary Irrigation Suspension Program Option (§ 5.1.2)	$ -	$ 1,201,938	$ 8,753,500	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 4,172,000	$ 60,019,438	$ 62,580,000	$ 2,560,562	$ 72,148,135	$ 12,128,697
SAN MARCOS SPRINGS - Measures to Reduce the Impacts of Drought and Recreation and Enhance the Viability of the Listed Species																				
Texas wild-rice enhancement and restoration (§ 5.3.1, § 5.4.1)	$ 226,326	$ 175,985	$ 178,500	$ 166,737	$ 125,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 1,872,548	$ 1,850,000	$ (22,548)	$ 2,087,463	$ 214,915
Sediment removal - Sewell Park (§ 5.3.6, § 5.4.4)	$ 151,800	$ 180,000	$ 219,450	$ 193,042	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 1,019,292	$ 850,000	$ (169,292)	$ 907,335	$ (111,957)
Aquatic vegetation restoration (non-native removal and native re-establishment) and maintenance - San Marcos River (§ 5.3.8, § 5.4.3, § 5.4.12)	$ 278,300	$ 176,000	$ 344,402	$ 244,281	$ 75,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 1,617,983	$ 1,375,000	$ (242,983)	$ 1,501,852	$ (116,131)
Management of floating vegetation mats and litter removal (Spring Lake and San Marcos River) (§ 5.3.3, § 5.4.3)	$ 45,027	$ 41,575	$ 51,298	$ 51,298	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 1,069,198	$ 1,200,000	$ 130,802	$ 1,383,473	$ 314,275
Non-native animal species control (§ 5.3.5, § 5.3.9, § 5.4.11, § 5.4.13)	$ 32,957	$ 24,960	$ 24,960	$ 27,959	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 35,000	$ 495,836	$ 525,000	$ 29,164	$ 605,270	$ 109,434
Sessom Creek sand bar removal (§ 5.4.6)	$ 25,000	$ 75,000	$ 3,750	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 103,750	$ 100,000	$ (3,750)	$ 101,500	$ (2,250)
Low Impact Development / BMPs (§ 5.7.3)	$ 300,889	$ 310,135	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 3,211,024	$ 3,600,000	$ 388,976	$ 4,064,683	$ 853,659
Recreation control in key areas (enforcement) (§ 5.3.2, §5.4.2)	$ 65,781	$ 55,790	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 56,000	$ 849,571	$ 784,000	$ (65,571)	$ 912,431	$ 62,860
Restoration of riparian zone with native vegetation (§ 5.7.1)	$ 99,803	$ 203,000	$ 55,000	$ 55,743	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 633,546	$ 380,000	$ (253,546)	$ 425,868	$ (207,678)
Bank stabilization / Permenant access points (§ 5.3.7)	$ 468,639	$ 660,635	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 1,389,274	$ 760,000	$ (629,274)	$ 825,868	$ (563,406)
Bio-monitoring (§ 6.3.1)	$ 199,994	$ 208,495	$ 208,514	$ 208,514	$ 208,514	$ 208,514	$ 208,514	$ 212,684	$ 216,938	$ 221,277	$ 225,702	$ 230,216	$ 234,821	$ 239,517	$ 244,307	$ 3,276,522	$ 3,000,000	$ (276,522)	$ 3,458,683	$ 182,162
Water Quality Monitoring and Protection (§ 5.7.2, 5.7.6)	$ 85,969	$ 202,144	$ 252,265	$ 252,265	$ 252,265	$ 252,265	$ 252,265	$ 257,310	$ 262,457	$ 267,706	$ 273,060	$ 278,521	$ 284,091	$ 289,773	$ 295,569	$ 3,757,924	$ 1,500,000	$ (2,257,924)	$ 1,729,342	$ (2,028,583)
Household hazardous waste program (§ 5.7.5)	$ 14,363	$ 27,176	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 431,539	$ 450,000	$ 18,461	$ 518,803	$ 87,264
Other Measures																$ -	$ -	$ -	$ -	$ -
Management of public recreational use (§ 5.3.2.1)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Prohibition of hazardous materials route (§ 5.3.4)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Diversion of Surface Water (§ 5.4.5)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Diving Classes in Spring Lake (§ 5.4.7)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Creation of Scientific Areas (§ 5.6)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Research Programs in Spring Lake (§ 5.4.8)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Boating in Spring Lake and Sewell Park (§ 5.3.10)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Septic system registration and permitting program (§ 5.7.3)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Management of golf course grounds (§ 5.4.9)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL	**$ 1,994,848**	**$ 2,340,895**	**$ 1,644,139**	**$ 1,505,839**	**$ 1,126,779**	**$ 1,076,779**	**$ 1,076,779**	**$ 1,085,995**	**$ 1,095,394**	**$ 1,104,982**	**$ 1,114,762**	**$ 1,124,737**	**$ 1,134,912**	**$ 1,145,290**	**$ 1,155,876**	$ 19,728,007	**$ 16,374,000**	**$ (3,354,007)**	**$ 18,522,572**	**$ (1,205,435)**
COMAL SPRINGS - Measures to Reduce the Impacts of Drought and Recreation Enhance the Viability of the Listed Species																				
Old Channel ERPA - Includes aquatic vegetation restoration and maintenance; limited channel modifications as necessary to enhance fountain darter habitat, and removal of the sediment island (§ 5.2.2.1)	$ 349,240	$ 124,988	$ 225,000	$ 125,000	$ 125,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 1,949,228	$ 2,000,000	$ 50,772	$ 2,237,463	$ 288,235
Flow-split management - old and new channels (§ 5.2.1)	$ 127,938	$ 156,882	$ 5,000	$ 43,500	$ -	$ -	$ 30,000	$ -	$ -	$ 30,000	$ -	$ -	$ 30,000	$ -	$ -	$ 423,320	$ 270,000	$ (153,320)	$ 289,521	$ (133,799)
Landa Lake and Comal River - aquatic vegetation restoration and maintenance (§ 5.2.2 except § 5.2.2.1)	$ 130,659	$ 119,997	$ 275,000	$ 100,000	$ 100,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 1,225,656	$ 1,245,000	$ 19,344	$ 1,373,283	$ 147,627
Non-native animal species control (§ 5.2.5, § 5.2.9)	$ 89,965	$ 132,451	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 1,197,416	$ 1,245,000	$ 47,584	$ 1,418,206	$ 220,790
Decaying vegetation removal program (§ 5.2.4)	$ 168,692	$ 15,000	$ 105,000	$ 20,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 473,692	$ 960,000	$ 486,308	$ 994,401	$ 520,709
Riparian improvements and sediment removal specific to the Comal Springs riffle beetle (§ 5.2.8)	$ 110,050	$ 69,872	$ 50,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 529,922	$ 525,000	$ (4,922)	$ 584,345	$ 54,423
Gill parasite control and non-native snail removal program icluding optimization research(§ 5.2.6)	$ 174,910	$ 125,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 1,274,910	$ 1,325,000	$ 50,090	$ 1,499,006	$ 224,096
Restoration of riparian zone with native vegetation (§ 5.7.1)	$ 250,905	$ 50,062	$ 430,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 1,930,967	$ 1,600,000	$ (330,967)	$ 1,829,342	$ (101,625)
Prohibition of hazardous materials route (§ 5.2.7)	$ -	$ -	$ 3,000	$ 3,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,000	$ 10,000	$ 4,000	$ 10,000	$ 4,000
BMPs for stormwater control (§ 5.7.6)	$ 169,340	$ 18,200	$ 100,000	$ 150,000	$ -	$ -	$ 50,000	$ -	$ -	$ 50,000	$ -	$ -	$ 50,000	$ -	$ -	$ 587,540	$ 400,000	$ (187,540)	$ 432,535	$ (155,005)
Incentive program for low impact development (§ 5.7.6)	$ -	$ -	$ -	$ -	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 1,100,000	$ 1,500,000	$ 400,000	$ 1,729,342	$ 629,342
Bio-monitoring (§ 6.3.1)	$ 199,994	$ 208,495	$ 208,514	$ 208,514	$ 208,514	$ 208,514	$ 208,514	$ 212,684	$ 216,938	$ 221,277	$ 225,702	$ 230,216	$ 234,821	$ 239,517	$ 244,307	$ 3,276,522	$ 3,000,000	$ (276,522)	$ 3,458,683	$ 182,162
Water Quality Monitoring (§ 5.7.4)	$ 85,969	$ 202,144	$ 252,265	$ 252,265	$ 252,265	$ 252,265	$ 252,265	$ 257,310	$ 262,457	$ 267,706	$ 273,060	$ 278,521	$ 284,091	$ 289,773	$ 295,569	$ 3,757,924	$ 1,500,000	$ (2,257,924)	$ 1,729,342	$ (2,028,583)
Household hazardous waste program (§ 5.7.5)	$ 41,449	$ 28,552	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 30,000	$ 460,001	$ 450,000	$ (10,001)	$ 518,803	$ 58,802
Other Measures																$ -	$ -	$ -	$ -	$ -
Creation of state scientifc areas (§ 5.6)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Management of public recreational use (§ 5.2.3)	$ -	$ 1,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,000	$ -	$ (1,000)	$ -	$ (1,000)
Golf Course Mgmt Plan	$ -	$ -	$ 1,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,000	$ -	$ (1,000)	$ -	$ (1,000)
Education	$ 3,349	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,349	$ -	$ (3,349)	$ -	$ (3,349)
Litter Control and Floating Vegetation	$ 37,964	$ 30,172	$ 40,000	$ 30,000	$ 30,600	$ 31,212	$ 31,836	$ 32,473	$ 33,122	$ 33,785	$ 34,461	$ 35,150	$ 35,853	$ 36,570	$ 37,301	$ 510,499	$ 1,150,000	$ 639,501	$ -	$ (510,499)
TOTAL	**$ 1,940,424**	**$ 1,282,815**	**$ 1,874,779**	**$ 1,237,279**	**$ 1,136,379**	**$ 1,061,991**	**$ 1,142,615**	**$ 1,072,468**	**$ 1,082,517**	**$ 1,172,767**	**$ 1,103,223**	**$ 1,113,887**	**$ 1,204,765**	**$ 1,135,860**	**$ 1,147,177**	$ 18,708,946	**$ 17,180,000**	**$ (1,528,946)**	**$ 18,104,272**	**$ (604,674)**
BOTH SYSTEMS - MODELING AND RESEARCH																				
Development of Mechanistic Ecological Model (§ 6.6.3)	$ 70,006	$ 287,219	$ 380,350	$ 180,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 917,575	$ 1,150,000	$ 232,425	$ 1,240,543	$ 322,968
Applied Environmental Research at the FAB (§ 6.3.4)	$ 261,500	$ 770,427	$ 450,000	$ 450,000	$ 450,000	$ 450,000	$ 450,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,281,927	$ 4,750,000	$ 1,468,073	$ 4,971,428	$ 1,689,501
Science Review Panel (NAS)	$ -	$ 303,944	$ 230,000	$ 230,000	$ 250,000	$ 289,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,303,444	$ 550,000	$ (753,444)	$ 592,428	$ (711,016)
Improve Groundwater Model	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL	**$ 331,506**	**$ 1,361,590**	**$ 1,060,350**	**$ 860,000**	**$ 700,000**	**$ 739,500**	**$ 450,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	$ 5,502,946	$ 6,450,000	$ 947,054	$ 6,804,399	$ 1,301,453
Refugia	$ -	$ -	$ 1,678,597	$ 8,342,324	$ 1,053,668	$ 990,067	$ 1,019,769	$ 1,050,363	$ 1,081,873	$ 1,114,330	$ 1,147,759	$ 1,182,192	$ 1,217,658	$ 1,254,188	$ 1,291,813	$ 22,424,601	$ 25,178,955	$ 2,754,354	$ 29,028,678	$ 6,604,077
Program Management	$ 650,930	$ 961,661	$ 910,000	$ 910,000	$ 910,000	$ 928,200	$ 946,764	$ 965,699	$ 985,013	$ 1,004,714	$ 1,024,808	$ 1,045,304	$ 1,066,210	$ 1,087,534	$ 1,109,285	$ 14,506,122	$ 11,250,000	$ (3,256,122)	$ 12,970,063	$ (1,536,059)
Annual Cost Estimate	**$ 5,582,508**	**$ 16,169,352**	**$ 19,213,605**	**$ 26,234,542**	**$ 18,305,926**	**$ 18,335,637**	**$ 19,841,727**	**$ 19,380,324**	**$ 19,450,598**	**$ 19,109,343**	**$ 15,609,791**	**$ 15,192,110**	**$ 15,349,535**	**$ 15,348,863**	**$ 15,430,141**	**$ 258,554,003**				
Table 7.1	**$ 20,416,847**	**$ 19,331,097**	**$ 18,362,597**	**$ 18,292,597**	**$ 18,162,597**	**$ 17,912,597**	**$ 17,967,597**	**$ 17,337,597**	**$ 17,337,597**	**$ 16,924,347**	**$ 16,351,097**	**$ 15,857,847**	**$ 15,937,847**	**$ 15,857,847**	**$ 15,857,847**		**$ 261,907,955**			
Δ: Estimate -Table 7.1	**$ 14,834,339**	**$ 3,161,745**	**$ (851,008)**	**$ (7,941,945)**	**$ (143,329)**	**$ (423,040)**	**$ (1,874,130)**	**$ (2,042,727)**	**$ (2,113,001)**	**$ (2,184,996)**	**$ 741,306**	**$ 665,737**	**$ 588,312**	**$ 508,984**	**$ 427,706**			**$ 3,353,952**		
Table 7.1 + 2%	**$ 20,416,847**	**$ 19,717,719**	**$ 19,104,446**	**$ 19,412,250**	**$ 19,659,779**	**$ 19,776,954**	**$ 20,234,433**	**$ 19,915,449**	**$ 20,313,758**	**$ 20,226,161**	**$ 19,931,896**	**$ 19,717,240**	**$ 20,213,044**	**$ 20,513,816**	**$ 20,924,092**				**$ 300,077,885**	
Δ: Annual Cost Estimate -Table 7.1 + 2%	**$ 14,834,339**	**$ 3,548,367**	**$ (109,159)**	**$ (6,822,292)**	**$ 1,353,853**	**$ 1,441,317**	**$ 392,705**	**$ 535,125**	**$ 863,161**	**$ 1,116,818**	**$ 4,322,105**	**$ 4,525,129**	**$ 4,863,509**	**$ 5,164,953**	**$ 5,493,951**					**$ 41,523,882**