

Addendum to Project PMP and work descriptions for BBA work defined in LCA Amendment Number 1.

This document generally defines the scope of work and outlines intended efforts for the Bipartisan Budget Act (BBA) of 2018 funding for the Santa Ana River Mainstem (SARM) Project addressed in LCA Amendment Number 1. The intent is to complete these efforts with 100% BBA funds to the extent they are available and used for such purpose.

The BBA work generally consists of the following environmental work and close out work:

- Environmental work. This is composed of compliance, monitoring and mitigation including noise mitigation, oak tree planting, Arundo mitigation, least Bell's vireo monitoring, cowbird trapping, wildlife corridor monitoring, environmental compliance, and adaptive management during the construction phase. Environmental mitigation work by the Corps using BBA funds will include restoration at compensatory mitigation sites, including initial planting and an establishment period for achievement of success criteria. After the establishment period, the sites will be transferred to the relevant sponsor for long term operation and maintenance. Environmental work by the Corps using BBA funds will also include reseeding and/or replanting of temporary impact areas at the site of feature construction. Contracts will include a one-year warranty period. Subsequent to the warranty period, the relevant sponsor will be responsible for operation and maintenance including weeding and other site maintenance activities for a prescribed period.
- Close-out work. BBA funds will also be used for closeout activities for the project features, including development of final notices of completion, breakdown of the Prado field office, contract research and reconciliation, final crediting, audits, and other necessary documentation and project management to support fiscal completion of the project.

Work efforts below show an estimate of the BBA funds that will be used and how they use will benefit each sponsor. In the event that there are insufficient BBA 2018 funds to complete the BBA 2018 Work, such completion shall be subject to cost-sharing as otherwise provided for in the LCA. The estimates below do not amend or modify the provisions of the LCA.

San Bernardino County

BBA funds will be used to complete environmental compliance, monitoring, and mitigation and close out activities. For San Bernardino County, environmental work includes Phase 2B noise mitigation, oak tree planting, Arundo mitigation, least Bell's vireo monitoring, cowbird trapping, wildlife corridor monitoring, environmental compliance and adaptive management during construction. It also includes close-out activities for Mill Creek, San Timoteo, and 7 Oaks Dam. BBA funds will also be used for Reach 9 efforts for final notices of completion, closeout activities for breakdown of the field office, contract research and reconciliation and other necessary documentation and project management to support fiscal completion of the project. The estimate also includes final crediting and audits by the Corps as part of

the final financial reconciliation for San Bernardino's portion of the project for financial close out actions.

Estimated cost: \$1.6 million.

Riverside County

BBA funds will be used to complete environmental mitigation and monitoring for Reach 9 features and close out activities. For Riverside County, environmental work includes features in Riverside County and includes Phase 2A, 2B, and BNSF noise mitigation, oak tree planting, Arundo mitigation, least Bell's vireo monitoring, cowbird trapping, wildlife corridor monitoring, environmental compliance, and adaptive management efforts during construction. BBA funds will also be used for final notices of completion, closeout activities for breakdown of the field office, contract research and reconciliation and other necessary documentation and project management support fiscal completion of the project for the following features: Oak Street Drain, 7 Oaks Dam, and Reach 9 Phases 2A and 2B. The estimate also includes final crediting and Corps audits as part of the final financial reconciliation for Riverside's portion of the project for financial close out actions.

Estimated cost: \$9.3 million

Orange County

BBA funds have been approved to complete environmental mitigation and monitoring for Reach 9 features. For Orange County, this includes Phase 1, 2B, 3, 4, 5A, 5B, noise mitigation, oak tree planting, arundo mitigation, least Bell's vireo monitoring, cowbird trapping, wildlife corridor monitoring, environmental compliance, and adaptive management efforts during construction.. BBA funds will also be used for final notices of completion, closeout activities for the field office, contract research and reconciliation and other necessary documentation and project management to support fiscal completion of the project for the following features: 7 Oaks Dam, lower Santa Ana River reaches, Marsh, and remaining Reach 9 efforts. The estimate also includes final crediting and audits by the Corps as part of the final financial reconciliation for Orange County's portion of the project for financial close out actions.

Estimated cost: \$24.7 million

Summary of LCA A1 estimates

SARM - LCA/BBA Estimate of Investment Savings at 25% minimum Cost Share Requirement										1-Dec-20	
Feature/Activity	San B	Riverside	Orange	Total	San B	Riverside	Orange	25% Cost Share			Total Savings
								San B	Riverside	Orange	
Reach 9 Phase 2A Environ	0.0%	100.0%	0.0%	\$30,000	\$0	\$30,000	\$0	\$0	\$7,500	\$0	\$7,500
Reach 9 Phase 2B Environ	0.6%	38.0%	61.5%	\$30,000	\$165	\$11,400	\$18,435	\$41	\$2,850	\$4,609	\$7,500
Reach 9 Phase 3 Environ	0.0%	0.0%	100.0%	\$350,000	\$0	\$0	\$350,000	\$0	\$0	\$87,500	\$87,500
Reach 9 Phase 4 Environ	0.0%	0.0%	100.0%	\$110,000	\$0	\$0	\$110,000	\$0	\$0	\$27,500	\$27,500
Reach 9 Phase 5A Environ	0.0%	0.0%	100.0%	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$25,000	\$25,000
Reach 9 Phase 5B Environ	0.0%	0.0%	100.0%	\$500,000	\$0	\$0	\$500,000	\$0	\$0	\$125,000	\$125,000
Reach 9 BNSF Environ	0.0%	95.0%	5.0%	\$5,500,000	\$0	\$5,225,000	\$275,000	\$0	\$1,306,250	\$68,750	\$1,375,000
Reach 9 Environ (Misc)	0.1%	19.6%	80.3%	\$12,000,000	\$12,000	\$2,352,000	\$9,636,000	\$3,000	\$588,000	\$2,409,000	\$3,000,000
Reach 9 Environmental				\$18,620,000	\$12,165	\$7,618,400	\$10,989,435	\$3,041	\$1,904,600	\$2,747,359	\$4,655,000
Reach 9 Close out	0.1%	19.6%	80.3%	\$200,000	\$200	\$39,200	\$160,600	\$50	\$9,800	\$40,150	\$50,000
LSAR Close Out	0.0%	0.0%	100.0%	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$25,000	\$25,000
Seven Oaks Close Out	7.0%	5.3%	87.7%	\$200,000	\$14,060	\$10,540	\$175,400	\$3,515	\$2,635	\$43,850	\$50,000
Mill Creek Close Out	100.0%	0.0%	0.0%	\$100,000	\$100,000	\$0	\$0	\$25,000	\$0	\$0	\$25,000
Oak Street Close Out	0.0%	100.0%	0.0%	\$100,000	\$0	\$100,000	\$0	\$0	\$25,000	\$0	\$25,000
San Timoteo Close Out	100.0%	0.0%	0.0%	\$100,000	\$100,000	\$0	\$0	\$25,000	\$0	\$0	\$25,000
Santiago Creek Close Out	0.0%	0.0%	100.0%	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$25,000	\$25,000
Environ Close out/Site restore	9.2%	10.0%	80.8%	\$500,000	\$46,000	\$50,000	\$404,000	\$11,500	\$12,500	\$101,000	\$125,000
Cultural Resources Close out	9.2%	10.0%	80.8%	\$100,000	\$9,200	\$10,000	\$80,800	\$2,300	\$2,500	\$20,200	\$25,000
Environ Adaptive Mgt/Monitoring	9.2%	10.0%	80.8%	\$2,400,000	\$220,800	\$240,000	\$1,939,200	\$55,200	\$60,000	\$484,800	\$600,000
Final Audits	9.2%	10.0%	80.8%	\$200,000	\$18,400	\$20,000	\$161,600	\$4,600	\$5,000	\$40,400	\$50,000
Real estate Close out	9.2%	10.0%	80.8%	\$300,000	\$27,600	\$30,000	\$242,400	\$6,900	\$7,500	\$60,600	\$75,000
Eng Rpts	9.2%	10.0%	80.8%	\$2,000,000	\$184,000	\$200,000	\$1,616,000	\$46,000	\$50,000	\$404,000	\$500,000
SARM Proj Mgt	9.2%	10.0%	80.8%	\$3,900,000	\$358,800	\$390,000	\$3,151,200	\$89,700	\$97,500	\$787,800	\$975,000
SARM Project Mgt Facility Services	9.2%	10.0%	80.8%	\$3,000,000	\$276,000	\$300,000	\$2,424,000	\$69,000	\$75,000	\$606,000	\$750,000
Close Out Action/Site Breakdown	9.2%	10.0%	80.8%	\$1,000,000	\$92,000	\$100,000	\$808,000	\$23,000	\$25,000	\$202,000	\$250,000
GSA	9.2%	10.0%	80.8%	\$200,000	\$18,400	\$20,000	\$161,600	\$4,600	\$5,000	\$40,400	\$50,000
CADD	9.2%	10.0%	80.8%	\$200,000	\$18,400	\$20,000	\$161,600	\$4,600	\$5,000	\$40,400	\$50,000
GIS	9.2%	10.0%	80.8%	\$200,000	\$18,400	\$20,000	\$161,600	\$4,600	\$5,000	\$40,400	\$50,000
Contingency	9.2%	10.0%	80.8%	\$896,000	\$82,432	\$89,600	\$723,968	\$20,608	\$22,400	\$180,992	\$224,000
Close-out/Proj Operations				\$15,796,000	\$1,584,692	\$1,639,340	\$12,571,968	\$396,173	\$409,835	\$3,142,992	\$3,949,000
Santiago Creek	0.0%	0.0%	100.0%	\$1,155,000	\$0	\$0	\$1,155,000	\$0	\$0	\$288,750	\$288,750
Grand Totals				\$35,571,000	\$1,596,857	\$9,257,740	\$24,716,403	\$399,214	\$2,314,435	\$6,179,101	\$8,892,750
Notes:											
This estimated cost shared savings is based on the 25% minimum Non-Fed cost share requirement from the original LCA Article II para F.											