

fees, construction management services, legal fees, and administrative costs). These cost estimates should be updated as the projects are further refined in the pre-design and design phases. The number of lots benefitted by each project was approximated to estimate the project cost per lot to help the Agency in prioritizing improvement projects. In addition, the portion each project benefitting projected growth was also estimated. A summary of the capital improvements and estimated project costs presented in Table 8-2. For a more detailed breakdown of how these costs were estimated, including project descriptions, location graphic, project objectives, and design considerations, refer to Appendix I.

TABLE 8-2: 20-YEAR CAPITAL IMPROVEMENTS

Amador Water Agency Capital Improvement Project Summary					
Agency Ranking	Project ID# <sup>1</sup>	Project Name	Project Trigger	Total Estimated Cost (2020 Dollars)	Cost Allocated to AWA <sup>2</sup>
<b>Priority 1A Improvements (2021-2025)</b>					
1	AWA 1A.1 (WTP)	Tanner and Ione Treatment Plant Capacity Study	WTP Planning	\$150,000	\$75,000
2	IONE 1A.1 (WTP)	Ione Clearwell Cover Hypalon Replacement	Poor Conditions	\$300,000	\$300,000
3	TAN 1A.1 (WTP) <sup>5</sup>	Tanner WTP PLC Upgrade	WTP Current Deficiencies	\$250,000	\$250,000
4	TAN 1A.2 (WTP) <sup>5</sup>	Tanner WTP Filter Media Replacement	WTP Current Deficiencies	\$430,000	\$430,000
5	TAN 1A.3 (WTP)	Tanner WTP Clearwell Replacement	Urgent California SWRCB identified Deficiencies	\$9,806,000	\$4,928,000
6	CAWP 1A.1 (B)	Mt. Crossman Pump Station Firm Capacity and Ridgeway Pump Station Generator	Firm Capacity 50+ Users	\$247,000	\$175,000
7	TAN 1A.4 (B)	Ridge Pump Station Generator	Firm Capacity 50+ Users and Generator	\$229,000	\$229,000
8	TAN 1A.5 (P)	Amador City PRV Relocation	Poor Conditions	\$213,000	\$213,000
9	CAWP 1A.2 (WTP) <sup>5</sup>	Buckhorn Membrane Replacement	WTP Current Deficiencies	\$100,000	\$71,000
10	CAWP 1A.3 (S)	Buckhorn WTP Finish Water Pumps Control Upgrade	Operational Adjustments	\$15,000	\$11,000
11	LAMEL 1A.1 (WTP) <sup>5</sup>	LaMel Air Stripper Pilot	WTP Planning	\$25,000	\$23,000
12	LAMEL 1A.2 (B & WTP)	LaMel Booster Station and Water Treatment Upgrades	Firm Capacity 50+ Users and Conditions	\$2,398,000	\$2,235,000
13	CAWP 1A.4 (P)	Tank C Service Area Individual PRV Installation	High Pressures	\$79,000	\$79,000
14	IONE 1A.2 (P)	Tanner to Ione Transmission Line Cathodic Protection	Cathodic Protection	\$1,696,000	\$1,696,000
15	TAN 1A.6 (P)	Tanner Raw Water Transmission Line Cathodic Protection	Cathodic Protection	\$2,384,000	\$2,384,000
16	IONE 1A.3 (T)	Prison and Wildflower Tanks Cathodic Protection Upgrades	Cathodic Protection	\$120,000	\$120,000
17	CAWP 1A.5 (T)	CAWP System Tanks Cathodic Protection Upgrades	Cathodic Protection	\$399,000	\$399,000
18	TAN 1A.7 (T)	Trent Tank Cathodic Protection Upgrades	Cathodic Protection	\$56,000	\$56,000
19	IONE 1A.4 (WTP)	Ione WTP Fencing	Security	\$151,000	\$151,000
20	TAN 1A.8 (P)	Hayden Alley, Broadway, Borgh, Eureka, and Tucker Hill Pipeline Replacements	Poor Conditions	\$1,838,000	\$1,532,000
21	CAWP 1A.6 (P)	Lynn Way Service Line Replacement	Poor Conditions	\$63,000	\$63,000
22	CAWP 1A.7 (P)	Robin Lane Pipe Replacement	Poor Conditions	\$892,000	\$892,000
23	CAWP 1A.8 (P)	Upsize Madrone Tank Fill Line and McKenzie PRV	Operational and Peaking Storage	\$369,000	\$262,000
24	IONE 1A.5 (P)	Arroyo Seco and Amador Street Pipeline Replacements	Poor Conditions	\$598,000	\$598,000
25	CAM 1A.1 (P)	Camanche Service Lateral Replacement	Poor Conditions	\$2,328,000	\$2,328,000
26	TAN 1A.9 (B)	Amador City High Service Individual Boosters	Low Pressures	\$223,000	\$223,000
27	IONE 1A.6 (P)	Oak Ridge Pressure Zone Creation	Low Pressures	\$422,000	\$422,000
28	CAWP 1A.9 (P)	CAWP Transmission Main Improvements and Tank D Replacement	Low Pressures	\$7,073,000	\$5,022,000
<b>Total Priority 1A Improvements (rounded)</b>				<b>\$32,854,000</b>	<b>\$25,167,000</b>
<b>Priority 1B Improvements (2025-2030)</b>					
1	IONE 1B.1 (P)	New WTP Transmission Line	Address Existing WTP Commitments, Existing Capacity	\$10,720,000	\$5,120,000
2	IONE 1B.2 (WTP)	Ione Treatment Improvements	Address Existing WTP Commitments, Existing Capacity	\$46,519,000	\$26,829,000
3	TAN 1B.1 (WTP)	Tanner WTP Improvements	WTP Current Deficiencies	\$8,047,000	\$8,047,000
4	CAWP 1B.1 (B)	Replacement of the McKenzie PS; Pine Needle, Meadowbrook and Guili Firm Capacity Upgrades; Toma Ln PS Improvements	Firm Capacity Less than 50 Users and Conditions	\$984,000	\$699,000
5	CAWP 1B.2 (T)	Replace Ranch House Tank	Physical Conditions	\$1,502,000	\$1,066,000
6	CAWP 1B.3 (T)	Replace Jackson Pines Tank	Physical Conditions	\$970,000	\$689,000
<b>Total Priority 1B Improvements (rounded)</b>				<b>\$68,742,000</b>	<b>\$42,450,000</b>
<b>Priority 2A Improvements (2030-2035)</b>					
1	TAN 2A.1 (WTP)	Tanner Treatment Expansion	Address Existing WTP Commitments and Growth	\$24,149,000	\$12,136,000
2	CAWP 2A.1 (T)	New Mt. Crossman Tank, PRVs and Tank Abandonment, and Old Rabb Tank Discharge Line Interties	Emergency and Fire Storage	\$7,094,000	\$5,037,000
3	IONE 2A.1 (WTP)	Ione Treatment Relocation	Physical Conditions, WTP Consolidation	\$25,920,000	\$25,920,000
4	CAWP 2A.2 (P)	Buckhorn Ridge Road and Highway 88 Water line and Tie to Alpine Storage	Emergency and Fire Storage	\$5,034,000	\$3,574,000
5	IONE 2A.2 (T)	Additional Storage at the Prison Tank	Emergency and Fire Storage	\$12,185,000	\$3,534,000
6	CAWP 2A.3 (WTP)	Buckhorn Automated Clean in Place	WTP Operations	\$1,315,000	\$934,000
7	CAM 2A.1 (T)	Construct a New 1.5 MG Storage Tank at Camanche Tank 9	Emergency and Fire Storage	\$4,099,000	\$820,000
8	TAN 2A.2 (T)	Trent Tank Replacement	Physical Conditions	\$2,503,000	\$2,503,000
<b>Total Priority 2A Improvements (rounded)</b>				<b>\$82,299,000</b>	<b>\$54,458,000</b>