



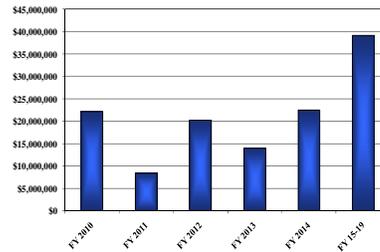


Water

Water operations are considerably more complex than one might imagine. Acquisition of the water is only the first step, whether through renewable sources like the Colorado River, or the City’s own well-sites. This successful operation depends upon large treatment facilities, as well as a network of infrastructure to distribute first to the facilities for treatment, and then ultimately to the users.

Like wastewater projects, water infrastructure is funded primarily through operating revenues from user fees, revenue bonds, and development impact fees. The Capital Improvement Program for fiscal years 2010-2019 includes constructing a waterline on Beardsley Road, from Lake Pleasant Road to 87th Avenue and 91st Avenue from Union Hills to Beardsley Road and replacement of the existing waterlines servicing Edwards and Stone Streets west of 83rd Avenue.

**FY 2010 - 2019
Capital Improvement Plan
Total Water
\$126,150,413**



Water

Name	Pg#	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15-19	Total
91st Av 24-inch Waterline; Union Hills-Greenway	213	\$0	\$0	\$766,000	\$4,167,001	\$4,167,001	\$0	\$9,100,002
99th Avenue & Rose Garden Well Equipping	214	\$1,403,071	\$0	\$0	\$0	\$0	\$0	\$1,403,071
Agua Fria West Booster/PRV - Phase I	215	\$0	\$0	\$0	\$0	\$393,416	\$0	\$393,416
Beardsley Rd & 91st Avenue 24-inch Waterline	216	\$6,234,215	\$0	\$0	\$0	\$0	\$0	\$6,234,215
CAP Water Rights - GRIC	217	\$1,450,942	\$1,380,049	\$1,309,155	\$1,238,261	\$1,167,367	\$3,397,810	\$9,943,584
Condition Assessment of Remote Sites	218	\$0	\$0	\$300,000	\$0	\$0	\$300,000	\$600,000
Cotton Crossing PRV Station- SCADA Upgrades	219	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Data Network for Remote Utility Facilities	220	\$228,664	\$0	\$0	\$0	\$0	\$450,004	\$678,668
Edwards Tract 8-inch Waterline	221	\$1,080,000	\$0	\$0	\$0	\$0	\$0	\$1,080,000
Fire Hydrant Infill	222	\$100,005	\$0	\$50,000	\$0	\$50,000	\$100,000	\$300,005
Greenway Rd 24-inch Waterline; 91st-79th Av	223	\$0	\$0	\$831,017	\$4,514,555	\$4,514,555	\$0	\$9,860,127
Greenway Water Treatment Plant Bromate Mitigation	224	\$0	\$554,456	\$0	\$0	\$0	\$0	\$554,456
Greenway Water Treatment Plant Improvements	225	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Greenway WTP Facility Maintenance	226	\$181,000	\$0	\$0	\$0	\$0	\$0	\$181,000
Happy Valley Rd 16-inch Water; Terramar-LPP	227	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Hatcher Rd - 8-inch Waterline; 75th to 77th Av	228	\$1,035,000	\$0	\$0	\$0	\$0	\$0	\$1,035,000
Integrated Utility Master Plan	229	\$0	\$0	\$360,000	\$450,000	\$0	\$810,000	\$1,620,000
Jomax In-Line Booster Station Upgrades	230	\$0	\$0	\$0	\$0	\$2,100,595	\$0	\$2,100,595
Lake Pleasant WTP Turnout Station	231	\$0	\$0	\$0	\$0	\$0	\$1,178,515	\$1,178,515
Lake Plsnt Pkwy 24-inch Waterline; Dynamite-L303	232	\$33,000	\$1,646,949	\$6,587,796	\$0	\$0	\$0	\$8,267,745
Lake Plsnt Pkwy 24-inch Waterline; Loop 303- LPWTP	233	\$0	\$0	\$0	\$0	\$0	\$10,892,208	\$10,892,208
Lone Mtn Pkwy 36-inch Waterline; El Mirage to L303	234	\$0	\$377,443	\$4,102,558	\$0	\$0	\$0	\$4,480,001
Loop 303 Waterline Crossings	235	\$2,790,324	\$0	\$0	\$0	\$0	\$0	\$2,790,324
Miscellaneous Local Waterline Improvements	236	\$150,000	\$151,500	\$151,500	\$151,500	\$151,500	\$757,500	\$1,513,500
New River Agua Fria Underground Storage Project	237	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
Northern Av - 16-inch Waterline; 107 Av-New River	238	\$0	\$119,526	\$1,300,474	\$0	\$0	\$0	\$1,420,000
Pinnacle Peak 16-inch Waterline; New River to 82nd	239	\$1,868,500	\$0	\$0	\$0	\$0	\$0	\$1,868,500

Water

Name	Pg#	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15-19	Total
Pyramid Peak Water Treatment Plant - Upgrades	240	\$480,603	\$1,361,376	\$803,170	\$0	\$0	\$0	\$2,645,149
SCADA Equipment replacement	241	\$0	\$0	\$495,051	\$495,051	\$495,051	\$2,475,255	\$3,960,408
SCADA Master Plan	242	\$0	\$0	\$0	\$125,000	\$0	\$125,000	\$250,000
Security Master Plan	243	\$75,000	\$0	\$150,000	\$0	\$0	\$150,000	\$375,000
Sports Complex Well Modifications	244	\$298,020	\$0	\$0	\$0	\$0	\$0	\$298,020
Stone Well Site Rehabilitation	245	\$1,450,000	\$0	\$0	\$0	\$0	\$0	\$1,450,000
Strategic Business/Technology Master Plan Update	246	\$60,000	\$0	\$125,000	\$0	\$0	\$125,000	\$310,000
Union Hills -16-inch Waterline; 93rd Ave-Westbrook	247	\$0	\$0	\$0	\$0	\$142,923	\$1,560,047	\$1,702,970
Utility Billing System	248	\$58,650	\$0	\$0	\$0	\$0	\$2,000,000	\$2,058,650
Utility Security Upgrades	249	\$247,526	\$250,000	\$250,000	\$0	\$0	\$0	\$747,526
Water & Wastewater Rate Study	250	\$90,000	\$0	\$90,000	\$0	\$90,000	\$180,000	\$450,000
Water Facility Reconditioning	251	\$750,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000	\$5,250,000
Water/Wastewater/Solid Waste Expansion Fee Update	252	\$56,000	\$0	\$66,000	\$0	\$66,000	\$132,000	\$320,000
Well Head Water Quality Mitigation	253	\$0	\$0	\$0	\$198,020	\$1,980,199	\$0	\$2,178,219
Wells - New Construction	254	\$0	\$742,575	\$940,595	\$742,575	\$940,595	\$4,108,915	\$7,475,255
West Agua Fria Water Lines	255	\$405,285	\$1,235,511	\$0	\$1,051,358	\$1,119,937	\$203,515	\$4,015,606
Western Area CAP Pump Station	256	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000
White Mountain Apache Tribe Water Rights Purchase	257	\$0	\$0	\$0	\$0	\$1,420,955	\$1,725,624	\$3,146,579
Zone 2/3 Booster-Pressure Reducing Valve Station	258	\$791	\$0	\$0	\$290,000	\$3,150,990	\$0	\$3,441,781
Zone 5/6 E - Reservoir, Booster, PRV Site -Phase 1	259	\$0	\$0	\$0	\$0	\$0	\$4,991,060	\$4,991,060
Zone 5/6E Reservoir/Booster/PRV Site	260	\$0	\$0	\$0	\$0	\$0	\$989,258	\$989,258
Total - Water		\$22,126,596	\$8,319,385	\$20,178,316	\$13,923,321	\$22,451,084	\$39,151,711	\$126,150,413

Water

Summary of Funding Sources

Description of Fund	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15-19	Total
1000 - General	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
2050 - Water Utility	\$7,620,124	\$3,017,890	\$7,734,210	\$3,927,660	\$5,161,865	\$9,918,757	\$37,380,506
2161 - Water Expansion	\$2,245,003	\$3,733,946	\$10,555,188	\$2,408,933	\$6,558,622	\$21,831,203	\$47,332,895
2169 - Water Resource	\$1,450,942	\$1,380,049	\$1,309,155	\$1,238,261	\$667,367	\$5,483,434	\$11,529,208
2222 - Proposed Water/Sewer Rev Bonds (Wtr)	\$0	\$0	\$0	\$5,999,704	\$9,858,467	\$0	\$15,858,171
2224 - Proposed Water/Sewer Rev Bonds (Wtr)	\$10,146,119	\$0	\$0	\$0	\$0	\$0	\$10,146,119
2400 - Wastewater Utility	\$513,858	\$187,500	\$543,763	\$123,763	\$168,763	\$1,510,070	\$3,047,717
2510 - Wastewater Expansion	\$25,000	\$0	\$30,000	\$225,000	\$30,000	\$396,247	\$706,247
2600 - Residential Sanitation	\$19,550	\$0	\$0	\$0	\$0	\$0	\$19,550
2650 - Sanitation Expansion	\$6,000	\$0	\$6,000	\$0	\$6,000	\$12,000	\$30,000
Total	\$22,126,596	\$8,319,385	\$20,178,316	\$13,923,321	\$22,451,084	\$39,151,711	\$126,150,413

91st Av 24-inch Waterline; Union Hills-Greenway

Project Number : UT00226

Project Location : 91st Avenue

Description:

This project provides for the design and construction of a 24-inch waterline in 91st Avenue from Union Hills to Greenway Road. This line will become a section of a major north/ south transmission pipeline for the City.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Base	\$0	\$0	\$0	\$1,485,149	\$3,564,357	\$0	\$0	\$0	\$0	\$0	\$5,049,506
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$602,644	\$0	\$0	\$0	\$0	\$0	\$602,644
Design	Water Expansion	Base	\$0	\$0	\$766,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$766,000
Construction	Water Utility	Base	\$0	\$0	\$0	\$2,681,852	\$0	\$0	\$0	\$0	\$0	\$0	\$2,681,852
Total Budget			\$0	\$0	\$766,000	\$4,167,001	\$4,167,001	\$0	\$0	\$0	\$0	\$0	\$9,100,002

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$0	\$1,800	\$1,800	\$1,800	\$1,800	\$1,800	\$9,000

99th Avenue & Rose Garden Well Equipping

Project Number : UT00288

Project Location : 99th Avenue and Rose Garden alignment

Description:

In 2006, the City purchased the property at the intersection of 99th Avenue and Rose Garden for a new well site. In 2007, a new well casing was drilled at the site. Currently, the engineering plans and specification for equipping the well site have been completed and final permits are being obtained.

Justification:

The City of Peoria has converted to surface water as the primary water supply. However, it will still be necessary to continue to drill new wells to meet future water demands and to provide redundancy in case of interruptions to the surface water supply systems. These wells will also be used to recover water which is available to the City through the recharge of treated effluent from the Butler Drive and Beardsley Road Water Reclamation Facilities.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Carryover-FY	\$1,389,179	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,389,179
Arts	Water Utility	Carryover-FY	\$13,892	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,892
Total Budget			\$1,403,071	\$0	\$1,403,071								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$137,100	\$20,100	\$20,100	\$318,000

Agua Fria West Booster/PRV - Phase I

Project Number : UT00245

Project Location : North Peoria

Description:

This Booster Station/ PRV Station will move water both east/west and north/south in the City's transmission pipeline system. The Agua Fria West Booster Station will be needed once either the waterline along Lone Mountain Parkway or along Lake Pleasant Parkway to Loop 303 are constructed. The site was purchased in FY09. The FY14 funding will cover the cost of the design concept report and the installation of the PRV at the site.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The booster stations are required to boost large volumes of water for several miles through the City-wide transmission pipelines. This booster station provides a critical link between the growing northern service area and the City's established water system in the south.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Base	\$0	\$0	\$0	\$0	\$393,416	\$0	\$0	\$0	\$0	\$0	\$393,416
		Total Budget	\$0	\$0	\$0	\$0	\$393,416	\$0	\$0	\$0	\$0	\$0	\$393,416

Beardsley Rd & 91st Avenue 24-inch Waterline

Project Number : UT00145

Project Location : Beardsley/Lake Plant Rd - 87th Ave; 91st Ave/Union Hills to Beardsley Road

Description:

This project will construct three miles of 24-inch waterline on Beardsley Road from Lake Pleasant Road to 87th Avenue and on 91st Avenue from Union Hills Drive to Beardsley Road. This project is being combined with the construction of the Westbrook Village Drainage Improvements (EN00003). The project scope and funding of UT00096 is being combined into UT00145.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. The water service in this area is dependent on a centralized surface water treatment plant. This waterline will provide an interconnect between the Lake Pleasant Road transmission line and the future zone 2/3 transmission line. This waterline is recommended by the Water System Master Plan and the construction is being coordinated with the storm drain and roadway improvements to save money and to cause less impacts to the public.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Carryover-FY	\$5,304,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,304,275
Construction	Water Utility	Base	\$529,703	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$529,703
Construction	Water Utility	Carryover-FY	\$400,237	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400,237
Total Budget			\$6,234,215	\$0	\$6,234,215								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$875	\$1,750	\$1,750	\$1,750	\$1,750	\$1,750	\$1,750	\$1,750	\$1,750	\$14,875

CAP Water Rights - GRIC

Project Number :UT00033

Project Location :City of Peoria

Description:

This project provides for the purchase of additional water supplies to address the future shortage of renewable water resources as identified in the Water Resource Master Plan. This water will be used for those areas of the City located outside the SRP member lands.

Justification:

The water will assist the City to maintain its designation as an Assured Water Supplier by the Arizona Department of Water Resources. The project will fund the acquisition of 7,000 Acre-Feet per year of Gila River Indian Community (GRIC) water resources.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Land	Water Resource	Base	\$1,450,942	\$1,380,049	\$1,309,155	\$1,238,261	\$667,367	\$1,096,473	\$1,025,579	\$954,685	\$321,073	\$0	\$9,443,584
Land	Water Utility	Base	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000
Total Budget			\$1,450,942	\$1,380,049	\$1,309,155	\$1,238,261	\$1,167,367	\$1,096,473	\$1,025,579	\$954,685	\$321,073	\$0	\$9,943,584

Condition Assessment of Remote Sites

Project Number : UT00256

Project Location : Various

Description:

This project will fund the overall condition assessment for all water, wastewater, and reuse infrastructure (excluding plants). This work will be completed in the first year of the integrated master plan and will be used to enhance the accuracy of this master plan.

Justification:

This will provide an overall condition assessment of all utility infrastructures that will be used by the integrated master plan to develop cost and timing details. This information will enhance the accuracy of the master plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Wastewater Utility	Base	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$300,000
Study	Water Utility	Base	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$300,000
Total Budget			\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$600,000

Cotton Crossing PRV Station- SCADA Upgrades

Project Number : UT00290

Project Location : Grand Avenue and Cotton Crossing

Description:

This project will provide funding for the installation of SCADA controls and monitoring devices to the existing Cotton Crossing PRV station. The addition of these controls will allow the City to remotely see how much water is flowing between the pressure zones as well as being able to adjust these flows as system demands dictate. This will also allow the City to operate our water distribution system more effectively and efficiently. The design for the SCADA controls at the site have been completed but they could not be included in the original project due to budgetary issues.

Justification:

This project will upgrade the existing Cotton Crossing Pressure Reducing Valve (PRV) station located between the City’s pressure zones 1 and 2. Due to budget issues, the site was originally constructed without SCADA controls and monitoring. Not having these functions at the site limits the City’s Water System Control Room from knowing how much water is flowing between the pressure zones or from being able to adjust this flow as system demands dictate. This prevents the City from operating our water distribution system in a most efficient manner.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Carryover-FY	\$148,515	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$148,515
Arts	Water Utility	Carryover-FY	\$1,485	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,485
Total Budget			\$150,000	\$0	\$150,000								

Data Network for Remote Utility Facilities

Project Number : UT00215

Project Location : Various locations

Description:

This project will fund upgrades to the data network for the Utilities Department Supervisory Control and Data Acquisition (SCADA) system. The SCADA system links the treatment plants to our unmanned remote sites. In FY09 and FY10, funding will be used to complete a significant upgrade to the radio system. In FY15 and FY16, this project will also fund the replacement of equipment to ensure that current technology is being used.

Justification:

This project will provide centralization of network services associated with the SCADA system to ensure system reliability and efficiency.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Wastewater Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$55,347	\$55,900	\$0	\$0	\$0	\$111,247
Construction	Wastewater Utility	Base	\$148,664	\$0	\$0	\$0	\$0	\$57,154	\$56,601	\$0	\$0	\$0	\$262,419
Equipment	Wastewater Utility	Carryover-FY	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$55,347	\$55,900	\$0	\$0	\$0	\$111,247
Construction	Water Utility	Base	\$0	\$0	\$0	\$0	\$0	\$57,154	\$56,601	\$0	\$0	\$0	\$113,755
Equipment	Water Utility	Carryover-FY	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000
Total Budget			\$228,664	\$0	\$0	\$0	\$0	\$225,002	\$225,002	\$0	\$0	\$0	\$678,668

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$20,000

Edwards Tract 8-inch Waterline

Project Number :UT00260

Project Location :83rd Ave and Edwards

Description:

This project will fund the replacement of the existing waterlines servicing Edwards and Stone Streets, west of 83rd Avenue. Currently homes in this area are serviced by a combination of dead-end and under sized waterlines. This project will install a new eight-inch looped waterline system for the area.

Justification:

This project will improve the reliability of the water delivery service to the area. A new water loop will be installed, bringing this area to current city standards and generating accurate as-built information for the area.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$1,080,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,080,000
Total Budget			\$1,080,000	\$0	\$1,080,000								

Fire Hydrant Infill

Project Number : UT00204

Project Location : City Wide

Description:

This project provides ongoing funding to install fire hydrants in areas of the City where the spacing is found to exceed what is outlined by fire code.

Justification:

There are some locations that fire hydrant spacing exceeds what is outlined by fire code within the City of Peoria. It is important to install fire hydrants in specified locations to ensure the City meets fire guidelines. Identification of locations is ongoing.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Arts	Water Utility	Base	\$0	\$0	\$495	\$0	\$495	\$0	\$495	\$0	\$495	\$0	\$1,980
Arts	Water Utility	Carryover-FY	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Construction	Water Utility	Base	\$49,505	\$0	\$49,505	\$0	\$49,505	\$0	\$49,505	\$0	\$49,505	\$0	\$247,525
Construction	Water Utility	Carryover-FY	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
Total Budget			\$100,005	\$0	\$50,000	\$0	\$50,000	\$0	\$50,000	\$0	\$50,000	\$0	\$300,005

Greenway Rd 24-inch Waterline; 91st-79th Av

Project Number :UT00227

Project Location :Greenway Road

Description:

This project will fund the design and construction of a 24-inch waterline along the Greenway Road alignment from 91st Avenue to 79th Avenue, crossing Loop 101. This line will become a section of a major north-south transmission pipeline for the City.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Base	\$0	\$0	\$0	\$4,514,555	\$4,514,555	\$0	\$0	\$0	\$0	\$0	\$9,029,110
Design	Water Expansion	Base	\$0	\$0	\$831,017	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$831,017
Total Budget			\$0	\$0	\$831,017	\$4,514,555	\$4,514,555	\$0	\$0	\$0	\$0	\$0	\$9,860,127

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$0	\$1,350	\$1,350	\$1,350	\$1,350	\$1,350	\$6,750

Greenway Water Treatment Plant Bromate Mitigation

Project Number : UT00253

Project Location : Greenway Water Treatment Plant

Description:

This project will install enhancements at the Greenway Water Treatment Plant to allow the plant to more efficiently treat Bromate in the source water. This will allow the plant to increase the amount of ozone used to disinfect the water, which in turn will assist in the removal of total organic carbon (TOC). TOC is a driving parameter in meeting the upcoming stage 2 Disinfection By-Product Rule, which goes into effect in 2012.

Justification:

This process enhancement is required for the Greenway WTP to ensure that the City can meet the new water quality requirements as outlined in the upcoming Stage 2 Disinfection By-Product Rule.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$464,456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$464,456
Construction Ad	Water Utility	Base	\$0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
Design	Water Utility	Base	\$0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
Total Budget			\$0	\$554,456	\$0	\$554,456							

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$480,000

Greenway Water Treatment Plant Improvements

Project Number : UT00255

Project Location : Greenway Water Treatment Plant

Description:

This project is for increased chemical storage capacity needed to perform enhanced coagulation and to meet minimum storage capacities as identified in the department Pandemic Response Plan. Additionally, three other plant upgrades to improve reliability include: filter gallery submersible pump, chlorine feed line and a building air conditioner for the finished water pump station motor control center room.

Justification:

This project will increase chemical storage capacity in the event of an emergency pandemic. Plant upgrades are necessary to assure reliability of the treatment plant and remain in regulatory compliance.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Carryover-FY	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
Total Budget			\$150,000	\$0	\$150,000								

Greenway WTP Facility Maintenance

Project Number : UT00287

Project Location : Greenway WTP

Description:

This project will fund the correction of the two issues at the Greenway Water Treatment Plant. The single-ply membrane roofing system installed on the flat building roof areas is deteriorating and has resulted in numerous leaks and water damage. Attempts to repair the roofing have not been successful. This project will fund the removal and replacement of the existing membrane with a more robust system with a 15-to-20 year warranted life span. This project will also address repairs to the pavement at the site. This pavement has numerous large cracks and has started to settle in a few areas. Repairing the settled areas, cracks and resealing the surface will extend the life of the pavement and avoid greater future repair costs.

Justification:

The mission of the Utilities Department is to provide reliable water and wastewater services for our customers. The Greenway Water Treatment Plant is a critical component of treating and supplying drinking water to Peoria residents. This request will maintain equipment for continuous operation that allows work to be performed safely and securely. The plant will operate more effectively and efficiently. Failure to maintain structures and roadways could result in costly treatment process failures (as a result of water damage) and create a hazardous and unsafe work environment.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Chargebacks	Water Utility	Base	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
Construction	Water Utility	Base	\$176,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$176,000
Total Budget			\$181,000	\$0	\$181,000								

Happy Valley Rd 16-inch Water; Terramar-LPP

Project Number :UT00199

Project Location :Happy Valley Road /Lake Plst Blvd-Terramar- LPP

Description:

This project includes the design and construction of sections of a 16-inch waterline along Happy Valley Road from Lake Pleasant Parkway to Terramar Blvd. To coordinate with the roadway construction, the Utilities Department will fund the construction of the sections of 16-inch waterline that would not be built by current or future developments along the roadway. In addition, the City of Peoria is building other sections of 16-inch and 12-inch water lines along Happy Valley Road to be reimbursed by developer.

Justification:

Happy Valley Road will be constructed between Lake Pleasant Parkway and Terramar Blvd. To coordinate with the roadway project, it will be necessary to install a 16-inch waterline along sections of the roadway.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Carryover-FY	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Total Budget			\$1,000,000	\$0	\$1,000,000								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$882	\$1,763	\$1,763	\$1,763	\$1,763	\$1,763	\$1,763	\$1,763	\$1,763	\$1,763	\$16,749

Hatcher Rd - 8-inch Waterline; 75th to 77th Av

Project Number :UT00098

Project Location :Hatcher/75th-77th Ave.

Description:

This project provides for the design and construction of an 8-inch waterline on Hatcher Road from 75th to 77th Avenue. The line is required to supply water and meet fire flows for the Mobile Home and Jordan Industrial Parks as development continues to occur in the area.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. The water service in this area is dependent on a centralized surface water treatment plant.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$1,035,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,035,000
Total Budget			\$1,035,000	\$0	\$1,035,000								

Integrated Utility Master Plan

Project Number : UT00271

Project Location : Citywide

Description:

This project provides consulting services to allow the Utilities Department to update our water, wastewater and reuse master plans. The Integrated Utility Master Plan will identify the amount of potable and reuse water required at build-out and the amount of wastewater generated. Once the system requirements are identified, the production, distribution, collection and treatment facilities necessary to meet these needs can be planned. Due to the magnitude of the work required to update all of these planning documents, the work will be completed over a two-year period of time.

Justification:

Previously, the department had completed four separate master plans: Water Resources, Water Reuse, Water System and Wastewater, updated on a five-year cycle. The plans were updated one at the time requiring a significant amount of staff time which meant the final plans were generated with older planning dates. Completing these efforts as a single task will allow for better utilization of resources as well as unifying planning efforts.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Wastewater Expansion	Base	\$0	\$0	\$0	\$225,000	\$0	\$0	\$0	\$0	\$225,000	\$0	\$450,000
Study	Water Expansion	Base	\$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$225,000	\$0	\$425,000
Study	Water Resource	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360,000	\$0	\$0	\$360,000
Study	Water Utility	Base	\$0	\$0	\$360,000	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$385,000
Total Budget			\$0	\$0	\$360,000	\$450,000	\$0	\$0	\$0	\$360,000	\$450,000	\$0	\$1,620,000

Jomax In-Line Booster Station Upgrades

Project Number : UT00285

Project Location : Jomax Road and Terramar Blvd.



Description:

This project includes upgrading the existing Jomax Booster station from 12 to 18 MGD. It includes replacing the four existing pumps and motors with 200HP units and adding a new emergency generator for the increased load. The project also includes replacing a section of the 16" water-main that connects to the City of Glendale with 24" water-main.

Justification:

This project will provide an additional source of water that will allow delaying construction of the Twin Buttes WTP.

Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$2,100,595	\$0	\$0	\$0	\$0	\$0	\$2,100,595
Total Budget			\$0	\$0	\$0	\$0	\$2,100,595	\$0	\$0	\$0	\$0	\$0	\$2,100,595

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$0	\$76,100	\$76,100	\$76,100	\$76,100	\$76,100	\$380,500

Lake Pleasant WTP Turnout Station

Project Number :UT00282

Project Location :LPP near LPWTP

Description:

This project includes the construction of an underground take out metering station which includes the vault, water meter, and SCADA equipment, and connection to the City of Phoenix transmission main. The budget includes land acquisition of a one-acre site that will allow for addition of a future booster station to serve the northern pressure zones.

Justification:

The City needs to add new water production sources as it continues to grow. By making a connecting to the Lake Pleasant Water Treatment Plant, Peoria can have Phoenix treat a portion of the City's CAP water allotment. This project provides a future source of water that will allow the city to delay the construction of the Twin Buttes WTP.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,178,515	\$1,178,515
Total Budget			\$0	\$1,178,515	\$1,178,515								

Lake Plsnt Pkwy 24-inch Waterline; Dynamite-L303

Project Number : UT00148

Project Location : Lake Plsnt-Dynamite-Loop 303

Description:

This project includes the design and construction of a 24-inch waterline along Lake Pleasant Parkway from Dynamite Road to Loop 303. This waterline will be required to provide service to the Lake Pleasant Parkway Corridor and the northerly areas of the City located east of the Agua Fria River. This waterline will function as a transmission and distribution pipeline. This pipeline was recommended by the Water System Master Plan. The project is being coordinated with the construction of Lake Pleasant Parkway from Dynamite Road to Loop 303.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. Transmission pipelines are required in the northern portions of Peoria where groundwater is not available. The water service in this area is dependent on a centralized surface water treatment plant. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$4,950,495	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,950,495
Design	Water Expansion	Base	\$0	\$1,646,949	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,646,949
Study	Water Expansion	Carryover-FY	\$33,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,000
Construction	Water Utility	Base	\$0	\$0	\$1,637,301	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,637,301
Total Budget			\$33,000	\$1,646,949	\$6,587,796	\$0	\$8,267,745						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$14,000

Lake Plsnt Pkwy 24-inch Waterline; Loop 303- LPWTP

Project Number : UT00269

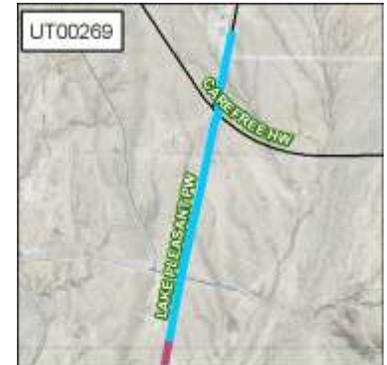
Project Location : Lake Pleasant Pkwy/Loop 303 to LPWTP

Description:

This project includes the design and construction of a 24-inch waterline along Lake Pleasant Parkway from Loop 303 to the Lake Pleasant Water Treatment Plant. This pipeline was recommended by the Water System Master Plan and timing will be coordinated with the Lake Pleasant Parkway construction. The 24-inch waterline will serve the northern-most zones within the City and tie into the Lake Pleasant Water Treatment Plant. It will be constructed along the Lake Pleasant Parkway alignment and within the roadway right of way.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. Transmission pipelines are required in the northern portions of Peoria where groundwater is not available. The water service in this area is dependent on a centralized surface water treatment plant. This is a modification to the approved Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,713,766	\$8,713,766
Design	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,178,442	\$0	\$2,178,442
Total Budget			\$0	\$2,178,442	\$8,713,766	\$10,892,208							

Lone Mtn Pkwy 36-inch Waterline; El Mirage to L303

Project Number : UT00233

Project Location : Lone Mountain Pkwy/El Mirage Rd. to Loop 303

Description:

This project includes the design and construction of a 36-inch waterline along Lone Mountain Parkway from Loop 303 to El Mirage Road. It will tie into an existing 36-inch waterline that is being installed by ADOT at Loop 303 and Lone Mountain Parkway (UT00249).

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. The water service in this area will be dependent on a centralized surface water treatment plant. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$2,108,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,108,911
Design	Water Utility	Base	\$0	\$377,443	\$1,993,647	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,371,090
Total Budget			\$0	\$377,443	\$4,102,558	\$0	\$4,480,001						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$8,190

Loop 303 Waterline Crossings

Project Number : UT00249

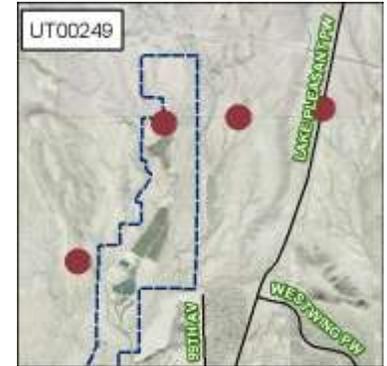
Project Location : Loop 303- Happy Valley Rd to Lake Pleasant Pkwy

Description:

This project will repay ADOT for the construction of waterline segments to cross the Loop 303 at several major interchanges. The project is timed to coordinate with the design and construction of Loop 303. The waterline segment locations are as follows: 16-inch and 36-inch waterline at Lake Pleasant Parkway, 54-inch casing for future 24-inch or 36-inch waterline at 96th Avenue, 30-inch casing for future 16-inch waterline at Station 1700, 16-inch and 36-inch waterline at Lone Mountain Parkway.

Justification:

These waterline crossings will provide for future water distribution and connections as development occurs along the Loop 303 corridor. Coordinating the construction of these segments with the Loop 303 construction will save the City much larger expenses in the future.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Carryover-FY	\$940,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$940,324
Construction	Water Utility	Carryover-FY	\$1,850,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850,000
Total Budget			\$2,790,324	\$0	\$2,790,324								

Miscellaneous Local Waterline Improvements

Project Number : UT00203

Project Location : Various Locations

Description:

This project provides funding to upgrade the City's existing water distribution system to ensure its continued operation. These funds will also be used to construct water extensions in coordination with new street improvement projects. Selection of projects is done through coordination with Utility Operations and City Engineering.

Justification:

The existing City water distribution system needs continued upgrading to ensure its uninterrupted operation. Waterline extensions also need to be constructed to clear new roadway improvements.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Arts	Water Utility	Base	\$0	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$13,500
Construction	Water Utility	Base	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,500,000
Total Budget			\$150,000	\$151,500	\$1,513,500								

New River Agua Fria Underground Storage Project

Project Number : UT00149

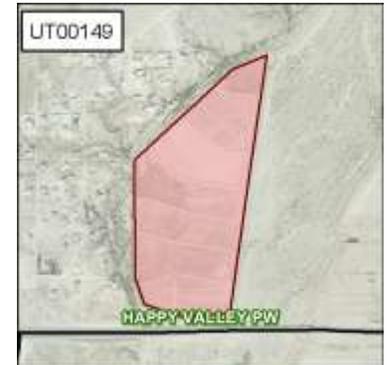
Project Location : NAUSP

Description:

This project is funding the construction of recharge basin number seven at the New River Agua Fria Underground Storage Project (NAUSP). The facility is being constructed by Salt River Project (SRP) and Peoria has purchased capacity to recharge the effluent from the Butler Drive Water Reclamation Facility.

Justification:

This first phase of this facility has been constructed by SRP. This is the site where the Butler Drive Water Reclamation Facility effluent is recharged.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Carryover-FY	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
Total Budget			\$300,000	\$0	\$300,000								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$680,000

Northern Av - 16-inch Waterline; 107 Av-New River

Project Number :UT00138

Project Location :Northern/107 Ave - New River

Description:

This project includes the design and construction of a 16-inch waterline along Northern Avenue from 107th Avenue to New River. This waterline will be required to provide service to the southern areas of the City located east of the Agua Fria River. This pipeline was recommended by the Water System Master Plan.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. The water service in this area is dependent on a centralized surface water treatment plant. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$0	\$1,300,474	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,300,474
Design	Water Utility	Base	\$0	\$119,526	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$119,526
Total Budget			\$0	\$119,526	\$1,300,474	\$0	\$1,420,000						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$2	\$0	\$0	\$540	\$540	\$540	\$540	\$540	\$540	\$540	\$3,782

Pinnacle Peak 16-inch Waterline; New River to 82nd

Project Number :UT00278

Project Location :Pinnacle Peak Road/ New River to 82nd Avenue

Description:

The City will construct 4,500 linear feet of 16-inch waterline along Pinnacle Peak Road from 74th to 82nd Avenues. This waterline will cross the New River and will provide a full loop to the water distribution system in the area to ensure overall system reliability and redundancy. The plans for this waterline have already been completed and the City was waiting for funding to proceed with the scope of work.

Justification:

The portion of Peoria’s water distribution system located north of Pinnacle Peak Road and east of the New River is not fully looped into the rest of the system. The City has identified that this area is more susceptible to systems outages or reductions in available fire flows if any of the existing local distribution lines were out of service.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Carryover-FY	\$1,868,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,868,500
Total Budget			\$1,868,500	\$0	\$1,868,500								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$675	\$675	\$675	\$675	\$675	\$675	\$675	\$675	\$675	\$6,075

Pyramid Peak Water Treatment Plant - Upgrades

Project Number : UT00037

Project Location : 67th Ave/Jomax Rd

Description:

This is the Peoria portion of the upgrades to the City of Glendale Pyramid Peak Water Treatment Plant. The facility treats potable water supplied by the Central Arizona Project Canal. In FY10/11 Glendale will be changing the plant from a chlorine gas disinfection system to onsite generation of chlorine via Sodium Hypochlorite. In FY 11/12, Glendale will be upgrading portions of the original plant equipment. Peoria is responsible to reimburse 23% of the cost of plant expansion/upgrades per an existing IGA with the City of Glendale.

Justification:

The Pyramid Peak WTP provides approximately 11 million gallons per day of potable water to Peoria's water distribution system. Per our water purchase agreement with Glendale, Peoria is responsible to fund 23% of any plant upgrades.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Arts	Water Expansion	Base	\$0	\$9,901	\$7,952	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,853
Construction	Water Expansion	Base	\$480,603	\$990,100	\$795,218	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,265,921
Construction	Water Utility	Base	\$0	\$361,375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$361,375
Total Budget			\$480,603	\$1,361,376	\$803,170	\$0	\$2,645,149						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$8,050	\$44,020	\$44,020	\$44,020	\$44,020	\$44,020	\$44,020	\$44,020	\$316,190

SCADA Equipment replacement

Project Number :UT00266

Project Location :Citywide

Description:

This project will fund the replacement and upgrade of Supervisory Control and Data Acquisition (SCADA) equipment at remote utility sites within the City. As the equipment ages and becomes obsolete, new equipment needs to be installed to maintain the same level of service.

Justification:

As current technology ages, new technology will be required to ensure reliable levels of service for the City's water distribution and sewer collection systems.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Wastewater Utility	Base	\$0	\$0	\$123,763	\$123,763	\$123,763	\$123,763	\$123,763	\$123,763	\$123,763	\$123,763	\$990,104
Construction	Water Utility	Base	\$0	\$0	\$371,288	\$371,288	\$371,288	\$371,288	\$371,288	\$371,288	\$371,288	\$371,288	\$2,970,304
Total Budget			\$0	\$0	\$495,051	\$3,960,408							

SCADA Master Plan

Project Number :UT00251

Project Location :Various

Description:

This project will fund the update to the Utilities Department SCADA Master Plan every five years.

Justification:

The City has made a considerable investment in its utility SCADA system. The Master Plan helps to define the direction that the City needs to take with the system to ensure it remains technologically sound.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Water Expansion	Base	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000	\$0	\$250,000
		Total Budget	\$0	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000	\$0	\$250,000

Security Master Plan

Project Number :UT00257

Project Location :City Wide

Description:

This project will conduct an assessment of the security of utility treatment plants and remote facilities. Potential threats will be identified and appropriate security upgrades will be designed and prioritized. A plan for implementation of these upgrades will include technological, procedural, and physical barrier solutions.

Justification:

In order to maintain service to city residents it is essential that operations of all facilities remain uninterrupted. Security breaches can lead to disruptions in the operation of the water distribution and sewer collection and treatment systems. A plan that addresses security issues based on sensitivity of our facilities will help us maintain adequate service levels.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Wastewater Utility	Base	\$0	\$0	\$37,500	\$0	\$0	\$0	\$0	\$37,500	\$0	\$0	\$75,000
Study	Wastewater Utility	Carryover-FY	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
Study	Water Utility	Base	\$0	\$0	\$112,500	\$0	\$0	\$0	\$0	\$112,500	\$0	\$0	\$225,000
Total Budget			\$75,000	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	\$0	\$0	\$375,000

Sports Complex Well Modifications

Project Number : UT00297

Project Location : Sports Complex

Description:

This project is broken into two phases. Phase I is installation of an online arsenic detection system. This system will allow staff to continuously monitor the arsenic levels at the well to ensure federal limits are never exceeded. Phase II will install new equipment to allow the well site to provide non-potable irrigation water to the Sports Complex facility.

Justification:

The well has intermittent water quality issues that may prevent the connection to the potable water system. The secondary use will be for irrigation of the sports complex fields.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	General	Base	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
Construction	Water Utility	Base	\$198,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$198,020
Total Budget			\$298,020	\$0	\$298,020								

Stone Well Site Rehabilitation

Project Number : UT00289

Project Location : Stone Street and 83rd Avenue

Description:

The Stone Street well/reservoir/booster site will undergo a significant upgrade consisting of the replacement of many original functional systems to meet current Peoria standards. The project will also include installing SCADA controls and monitoring devices that allow the City to operate the site more efficiently. The plans for the upgrades have already been completed and only need to be submitted to obtain final permits. The City has already discussed the scope of work with one of our existing Job Order Contractors and has obtained a preliminary construction cost estimate.

Justification:

The City of Peoria has an ongoing program to update and modernize existing remote water facilities to ensure that they remain operationally efficient and reliable. The City’s Stone Street well/reservoir/booster site was original constructed before 1970. Due to its age, the site is in need of significant upgrades to remain reliable and efficient. Also, the site does not have any SCADA controls and monitoring, which limits the ability of the City’s Water System Control Room to operate the site in an efficient manner.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Carryover-FY	\$1,435,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,435,650
Arts	Water Utility	Carryover-FY	\$14,350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,350
Total Budget			\$1,450,000	\$0	\$1,450,000								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$20,100	\$180,900

Strategic Business/Technology Master Plan Update

Project Number :UT00232

Project Location :City Wide

Description:

In November 2004, the City of Peoria Utilities Department completed a Strategic Business and Technology Plan. This plan identifies 37 projects that are associated directly with business processes of the department. The business processes range from customer service to security to water quality, etc. This project provides consulting services to update the Strategic Business Master Plan for the Utilities Department every five years.

Justification:

This plan will ensure that the Utilities Department is planning for future business and technology advancements.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Water Expansion	Base	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000	\$0	\$0	\$250,000
Study	Water Expansion	Carryover-FY	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60,000
Total Budget			\$60,000	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000	\$0	\$0	\$310,000

Union Hills -16-inch Waterline; 93rd Ave-Westbrook

Project Number :UT00099

Project Location :Union Hills/93rd Ave-Westbrook Parkway

Description:

This project provides for the design and construction of a 16-inch waterline on Union Hills Drive from 93rd Avenue to Westbrook Parkway. This project will fill in a gap in the existing distribution system to enhance the fire protection and overall system reliability of the water system in this area.

Justification:

Major water transmission pipelines and booster stations are required to convey and deliver surface water. The transmission pipelines are City-wide facilities and will carry large volumes of water for several miles. The water service in this area is dependent on a centralized surface water treatment plant. This waterline has been identified in the Water System Master Plan.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$0	\$0	\$0	\$0	\$1,560,047	\$0	\$0	\$0	\$0	\$1,560,047
Design	Water Utility	Base	\$0	\$0	\$0	\$0	\$142,923	\$0	\$0	\$0	\$0	\$0	\$142,923
Total Budget			\$0	\$0	\$0	\$0	\$142,923	\$1,560,047	\$0	\$0	\$0	\$0	\$1,702,970

Utility Billing System

Project Number : UT00160

Project Location : City of Peoria

Description:

This project is to replace the existing utility billing system with a new Customer Information System (CIS) for utility billing and revenue recovery. This system will interface with the IVR, M-Care (meter reading), Hansen, PeopleSoft, E-government and other utility revenue systems (or their future replacements). The system needs to be updated to allow it to handle new billing accounts as the city grows.

Justification:

After seven years of service, the current utility billing system is expected to reach the end of its operational lifecycle and should be scheduled for replacement. Over this period, staff anticipates that the current system’s functionality and performance will likely degrade. It is also possible that after seven years, our current vendor may not provide support for older versions of its products. A planned future system replacement will utilize the most current technology and is expected to enhance functionality for staff and customers, while providing a stable, supportable platform for this critical system that will grow and accommodate the City’s system requirements for another period of service.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Equipment	Residential Sanitation	Carryover-FY	\$19,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,550
Equipment	Wastewater Utility	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000
Equipment	Wastewater Utility	Carryover-FY	\$19,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,550
Equipment	Water Utility	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$1,500,000
Equipment	Water Utility	Carryover-FY	\$19,550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,550
Total Budget			\$58,650	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$0	\$0	\$0	\$2,058,650

Utility Security Upgrades

Project Number : UT00262

Project Location : Various

Description:

This project will implement security enhancements to all the utility facilities. These counter measures include technological, procedural, and physical barrier solutions.

Justification:

In order to maintain service to city residents, it is essential that operations of all facilities remain uninterrupted. Security breaches can lead to disruptions in the operation of the water distribution and sewer collection and treatment systems. Implementation of security grades will help maintain system operability.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Arts	Wastewater Utility	Base	\$0	\$1,856	\$1,856	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,712
Construction	Wastewater Utility	Base	\$185,644	\$185,644	\$185,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$556,932
Arts	Water Utility	Base	\$0	\$618	\$618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,236
Construction	Water Utility	Base	\$61,882	\$61,882	\$61,882	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$185,646
Total Budget			\$247,526	\$250,000	\$250,000	\$0	\$747,526						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$2,000	\$2,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$25,000

Water & Wastewater Rate Study

Project Number :UT00298

Project Location :Citywide

Description:

This project will provide funds to update the water and wastewater rates for the City. This is a task that needs to be done every two years to ensure the rates cover the cost of utilities operations and capital requirements. Work will be coordinated with various City departments.

Justification:

The rates are updated every two (2) years to ensure that the fees cover the operations and CIP program of the Utilities Department.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Wastewater Utility	Base	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$225,000
Study	Water Utility	Base	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$45,000	\$0	\$225,000
Total Budget			\$90,000	\$0	\$450,000								

Water Facility Reconditioning

Project Number : UT00206

Project Location : City Wide

Description:

This project provides funding to upgrade and recondition existing water distribution and production facilities. Utilities staff prioritizes projects to be included in this program based on operational needs and facility conditions.

Justification:

This program provides funding to upgrade existing distribution and production sites to address reliability issues as the facilities age. The funding also allows for upgrades to sites as new technologies become available. These upgrades allow the system to continue to operate with reliability and efficiency.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$4,500,000
Construction	Water Utility	Carryover-FY	\$750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000
Total Budget			\$750,000	\$500,000	\$5,250,000								

Water/Wastewater/Solid Waste Expansion Fee Update

Project Number :UT00070

Project Location :City of Peoria

Description:

This project will provide funds to update the water, wastewater, and solid waste expansion fees. This is a task that needs to be done every two years to ensure the fees cover the cost of the CIP program. Work will be coordinated with various City departments.

Justification:

The expansion fees are updated every two (2) years to ensure that the fees cover the CIP program.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Study	Sanitation Expansion	Base	\$6,000	\$0	\$6,000	\$0	\$6,000	\$0	\$6,000	\$0	\$6,000	\$0	\$30,000
Study	Wastewater Expansion	Base	\$25,000	\$0	\$30,000	\$0	\$30,000	\$0	\$30,000	\$0	\$30,000	\$0	\$145,000
Study	Water Expansion	Base	\$25,000	\$0	\$30,000	\$0	\$30,000	\$0	\$30,000	\$0	\$30,000	\$0	\$145,000
Total Budget			\$56,000	\$0	\$66,000	\$0	\$66,000	\$0	\$66,000	\$0	\$66,000	\$0	\$320,000

Well Head Water Quality Mitigation

Project Number : UT00272

Project Location : Citywide

Description:

This project will provide funds for design and construction of water treatment equipment which addresses unique water quality issues related to individual well sites. Utilities Department staff will determine which site is best suited for this equipment installation based on water system needs.

Justification:

Regulatory agencies require water providers to maintain water constituents such as arsenic, nitrate, and others within permitted levels. Some new regulations have reduced the maximum allowable concentrations. The City of Peoria has taken some wells out of service and needs to implement mitigation measures in order to meet these new regulations for some of our existing sites.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$0	\$0	\$0	\$1,980,199	\$0	\$0	\$0	\$0	\$0	\$1,980,199
Design	Water Utility	Base	\$0	\$0	\$0	\$198,020	\$0	\$0	\$0	\$0	\$0	\$0	\$198,020
Total Budget			\$0	\$0	\$0	\$198,020	\$1,980,199	\$0	\$0	\$0	\$0	\$0	\$2,178,219

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$35,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$385,000

Wells - New Construction

Project Number : UT00117

Project Location : Various Locations

Description:

The City has converted to surface water as the primary water supply, but it will still be necessary to continue to drill new wells to meet future City water demands. These wells will be used to recover water which is available to the City through the Butler Water Reclamation Facility and the Beardsley Water Reclamation Facility recharge process.

Justification:

Surface water may be interrupted during periods of extreme drought or in the event of a failure in the canal delivery system. In addition, the CAP or SRP canal system will need to be shut down during dry-ups for maintenance and repairs



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$612,575	\$940,595	\$612,575	\$940,595	\$612,575	\$940,595	\$612,575	\$940,595	\$612,575	\$6,825,255
Design	Water Expansion	Base	\$0	\$130,000	\$0	\$130,000	\$0	\$130,000	\$0	\$130,000	\$0	\$130,000	\$650,000
Total Budget			\$0	\$742,575	\$940,595	\$742,575	\$940,595	\$742,575	\$940,595	\$742,575	\$940,595	\$742,575	\$7,475,255

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$20,100	\$20,100	\$20,100	\$40,200	\$40,200	\$60,300	\$60,300	\$80,400	\$80,400	\$100,500	\$522,600

West Agua Fria Water Lines

Project Number :UT00170

Project Location :Vistancia Development

Description:

This project provides for additional transmission capacity in the water system throughout the Vistancia Development. The Vistancia Utilities Master Plan identifies sizes of water transmission mains that are needed to supply the Vistancia water system. The City is funding the over-sizing of selected transmission mains to provide water distribution capacity for new development in surrounding areas.

Justification:

This project provides for additional transmission capacity in the water system in the Vistancia area. These lines are part of the Water System Master Plan and will be used to convey water from water treatment plants and connect to local distribution lines.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Arts	Water Expansion	Base	\$0	\$3,410	\$0	\$10,409	\$11,088	\$2,015	\$0	\$0	\$0	\$0	\$26,922
Construction	Water Expansion	Base	\$405,285	\$341,011	\$0	\$1,040,949	\$1,108,849	\$201,500	\$0	\$0	\$0	\$0	\$3,097,594
Construction	Water Utility	Base	\$0	\$891,090	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$891,090
Total Budget			\$405,285	\$1,235,511	\$0	\$1,051,358	\$1,119,937	\$203,515	\$0	\$0	\$0	\$0	\$4,015,606

Western Area CAP Pump Station

Project Number : UT00274

Project Location : 163rd Ave and Jomax

Description:

The project will provide funding for design and construction to upgrade the CAP Pump Station which provides raw water to the Quintero Water Treatment Facility. Potential solutions include the modification of pump capacity and intake canal structure and/or the construction of raw water storage capacity for the Quintero Water Treatment Facility.

Justification:

The new design will address the existing operational needs of the Quintero Development. It will also increase system reliability and reduce maintenance costs.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Utility	Base	\$0	\$0	\$900,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900,000
Design	Water Utility	Base	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
Total Budget			\$0	\$0	\$1,000,000	\$0	\$1,000,000						

White Mountain Apache Tribe Water Rights Purchase

Project Number : UT00234

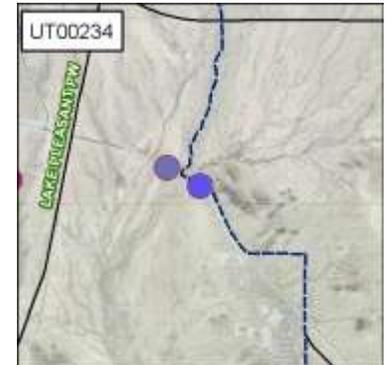
Project Location : Northern Peoria

Description:

This project provides for the purchase of additional water supplies to address the future shortage of renewable water resources as identified in the Water Resource Master Plan. This project will purchase additional CAP water rights from the White Mountain Apache Tribe.

Justification:

The water will assist the City to maintain its designation as an Assured Water Supplier by the Arizona Department of Water Resources. In FY 13, there is a one time payment to purchase of 345 acre-feet per year of Municipal and Industrial (M&I) water from the WMAT. Also starting in FY 13, the City will start to make payments to purchase an additional 935 acre-feet per year of Non-Indian Agricultural water. In total these purchases are expected to cost the City \$2,850,000.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Other	Water Resource	Base	\$0	\$0	\$0	\$0	\$0	\$431,406	\$431,406	\$431,406	\$431,406	\$0	\$1,725,624
Other	Water Utility	Base	\$0	\$0	\$0	\$0	\$1,420,955	\$0	\$0	\$0	\$0	\$0	\$1,420,955
Total Budget			\$0	\$0	\$0	\$0	\$1,420,955	\$431,406	\$431,406	\$431,406	\$431,406	\$0	\$3,146,579

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$0	\$150,000	\$205,000	\$205,000	\$205,000	\$205,000	\$970,000

Zone 2/3 Booster-Pressure Reducing Valve Station

Project Number : UT00136

Project Location : Greenway and 91st Ave

Description:

This project includes land acquisition, design and construction of the Zone 2/3 Booster-Pressure Reducing Station. The site is located adjacent to the existing Desert Harbor Well site, at Greenway Road and 91st Avenue. This project will coincide with the completion of a 24-inch waterline on 91st Avenue (UT00226) and across Greenway Road (UT00227). This station and the transmission lines will allow the City to efficiently move large volumes of water in our system to meet the demands of growth.

Justification:

This Booster-Pressure Reducing Station and related transmission lines will allow the City to provide water to meet the demands in Zone 3. It will also enhance the capability to move water from Zone 3 to Zone 2.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Proposed Water/Sewer R	Base	\$0	\$0	\$0	\$0	\$1,386,139	\$0	\$0	\$0	\$0	\$0	\$1,386,139
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$1,764,851	\$0	\$0	\$0	\$0	\$0	\$1,764,851
Design	Water Expansion	Base	\$0	\$0	\$0	\$290,000	\$0	\$0	\$0	\$0	\$0	\$0	\$290,000
Study	Water Expansion	Carryover-FY	\$791	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$791
Total Budget			\$791	\$0	\$0	\$290,000	\$3,150,990	\$0	\$0	\$0	\$0	\$0	\$3,441,781

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Total Operating Impacts:	\$0	\$0	\$0	\$0	\$0	\$76,100	\$76,100	\$76,100	\$76,100	\$76,100	\$380,500

Zone 5/6 E - Reservoir, Booster, PRV Site -Phase 1

Project Number :UT00268

Project Location :Lake Pleasant Parkway and Loop 303

Description:

This project will serve the Zone 5E, with construction of a PRV, 4 MGD booster pump station and 1 million gallon reservoir.

Justification:

The project cost estimate includes purchase of land and construction of Phase 1 components. As the area develops near Loop 303, this facility will be necessary to provide water service. It will need to be timed accordingly.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,992,848	\$3,992,848
Design	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$998,212	\$0	\$998,212
Total Budget			\$0	\$998,212	\$3,992,848	\$4,991,060							

Zone 5/6E Reservoir/Booster/PRV Site

Project Number :UT00286

Project Location :Loop 303 and Lake Pleasant Pkwy

Description:

This project includes land purchase and construction of an above-ground PRV station at the pressure zone 5E/6E boundary near Loop 303 on Lake Pleasant Parkway. The PRV would be in line with the 24" water-main that connects to the LPWTP to the north. It would allow service to zone 5E south of Loop 303. The site will be used for a future reservoir booster station to serve zone 6E.

Justification:

Construction of this project and the associated projects will provide an additional water source and delay construction of the Twin Buttes WTP.



Category	Funding Source	Carryover / Base	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
Construction	Water Expansion	Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$989,258	\$989,258
Total Budget			\$0	\$989,258	\$989,258								

