



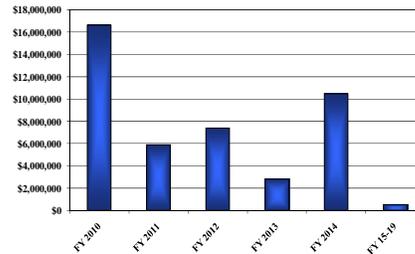


# Wastewater

The measure of success when collecting and treating wastewater is when no one so much as wonders how it is done. It takes a complex network of infrastructure to make this operation seamless. In addition to building and operating large water treatment and reclamation facilities, the City of Peoria ensures that infrastructure is in place from an individual residence or commercial establishment, along roadway alignments, to the treatment facility. Facilities within Peoria also can reuse a portion of flows, providing a new, non-potable water resource opportunity.

Wastewater infrastructure is funded primarily through operating revenues from rate payers, as well as revenue bonds and development impact fees. The Capital Improvement Program for fiscal years 2010-2019 includes improvements for the Beardsley Water Reclamation Facility and the Northern and 95<sup>th</sup> Avenue Trunk Sewer repairs.

**FY 2010 - 2019**  
**Capital Improvement Plan**  
**Total Wastewater**  
**\$43,811,257**



## Wastewater

Name	Pg#	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15-19	Total
<b>77th Ave &amp; Jomax Sewer Interceptor</b>	188	\$36,837	\$0	\$0	\$0	\$0	\$0	<b>\$36,837</b>
<b>99th Av Wastewater Interceptor Upgrades</b>	189	\$78,867	\$0	\$0	\$0	\$0	\$0	<b>\$78,867</b>
<b>Agua Fria Lift Station; Water Campus Land Purchase</b>	190	\$0	\$0	\$0	\$200,000	\$8,000,000	\$0	<b>\$8,200,000</b>
<b>Beardsley Water Reclamation Facility Improvements</b>	191	\$3,925,709	\$0	\$0	\$0	\$0	\$0	<b>\$3,925,709</b>
<b>Beardsley WRF - Monitor Wells &amp; Misc. Upgrades</b>	192	\$33,002	\$0	\$0	\$0	\$0	\$0	<b>\$33,002</b>
<b>Beardsley WRF Solar Power Pilot Project</b>	193	\$500,000	\$0	\$0	\$0	\$0	\$0	<b>\$500,000</b>
<b>Butler Drive Water Reclamation Facility</b>	194	\$3,400,000	\$1,500,000	\$0	\$0	\$0	\$0	<b>\$4,900,000</b>
<b>Butler WRF Recharge Wells</b>	195	\$250,000	\$400,000	\$1,550,001	\$1,525,000	\$1,277,476	\$0	<b>\$5,002,477</b>
<b>Deer Valley- 24-inch Sewer; Lake Plst Rd - 91st Av</b>	196	\$298,020	\$0	\$0	\$0	\$0	\$0	<b>\$298,020</b>
<b>Happy Valley Road 8-inch Sewer; 91st to 85th Av</b>	197	\$595,000	\$0	\$0	\$0	\$0	\$0	<b>\$595,000</b>
<b>Lake Plsnt Pkwy 21/18-inch Sewer; Dynamite-L303</b>	198	\$30,000	\$550,000	\$3,801,783	\$0	\$0	\$0	<b>\$4,381,783</b>
<b>Lift Station Reconditioning</b>	199	\$565,345	\$0	\$0	\$0	\$0	\$0	<b>\$565,345</b>
<b>Loop 303 Wastewater Line Crossings</b>	200	\$1,041,423	\$0	\$0	\$0	\$0	\$0	<b>\$1,041,423</b>
<b>Miscellaneous Local Wastewater Line Improvements</b>	201	\$100,000	\$101,000	\$101,000	\$101,000	\$101,000	\$505,000	<b>\$1,009,000</b>
<b>Northern and 95th Ave Trunk Sewer Repairs- Sect A</b>	202	\$1,689,937	\$0	\$0	\$0	\$0	\$0	<b>\$1,689,937</b>
<b>Northern and 95th Ave Trunk Sewer Repairs- Sect B</b>	203	\$1,989,937	\$0	\$0	\$0	\$0	\$0	<b>\$1,989,937</b>
<b>Northern and 95th Ave Trunk Sewer Repairs- Sect C</b>	204	\$1,867,094	\$0	\$0	\$0	\$0	\$0	<b>\$1,867,094</b>
<b>Trunk Sewer Line Inspection</b>	205	\$250,000	\$260,000	\$0	\$0	\$0	\$0	<b>\$510,000</b>
<b>Trunk Sewer Rehabilitation</b>	206	\$0	\$1,980,199	\$990,100	\$990,100	\$990,100	\$0	<b>\$4,950,499</b>
<b>West Agua Fria Wastewater Lines</b>	207	\$0	\$1,118,651	\$955,250	\$0	\$124,426	\$38,000	<b>\$2,236,327</b>
<b>Total - Wastewater</b>		<b>\$16,651,171</b>	<b>\$5,909,850</b>	<b>\$7,398,134</b>	<b>\$2,816,100</b>	<b>\$10,493,002</b>	<b>\$543,000</b>	<b>\$43,811,257</b>

Wastewater

*Summary of Funding Sources*

Description of Fund	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15-19	Total
<b>2161 - Water Expansion</b>	\$125,000	\$200,000	\$0	\$1,525,000	\$638,738	\$0	<b>\$2,488,738</b>
<b>2222 - Proposed Water/Sewer Rev Bonds (Wtr)</b>	\$0	\$0	\$0	\$0	\$4,000,000	\$0	<b>\$4,000,000</b>
<b>2400 - Wastewater Utility</b>	\$5,919,132	\$5,159,850	\$2,536,646	\$1,291,100	\$1,091,100	\$505,000	<b>\$16,502,828</b>
<b>2452 - Water Infrastructure Finance Authority Phase I</b>	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>2454 - Water/Sewer Revenue Bonds 2000 (WW)</b>	\$3,925,709	\$0	\$0	\$0	\$0	\$0	<b>\$3,925,709</b>
<b>2455 -</b>	\$1,673,205	\$0	\$0	\$0	\$0	\$0	<b>\$1,673,205</b>
<b>2456 -</b>	\$4,318,843	\$0	\$0	\$0	\$0	\$0	<b>\$4,318,843</b>
<b>2510 - Wastewater Expansion</b>	\$689,282	\$550,000	\$4,861,488	\$0	\$4,763,164	\$38,000	<b>\$10,901,934</b>
<b>Total</b>	<b>\$16,651,171</b>	<b>\$5,909,850</b>	<b>\$7,398,134</b>	<b>\$2,816,100</b>	<b>\$10,493,002</b>	<b>\$543,000</b>	<b>\$43,811,257</b>

### 77th Ave & Jomax Sewer Interceptor

**Project Number :** UT00214

**Project Location :** Sonoran Mtn Ranch -83rd Ave/Pinnacle Peak

**Description:**

The project will include constructing a) one mile of 12-inch sewer from 75th Av & Dynamite to Jomax Road, b) one-half mile of 18-inch sewer across Jomax to 77th Lane, c) one mile of 18-inch sewer from 77th Lane and Jomax to Happy Valley Road, d) one-half mile of 21-inch sewer across Happy Valley Road to 83rd Av, and e) one mile of 18-inch sewer down 83rd Av from Happy Valley Road to Pinnacle Peak Road. These sewer lines were constructed by the Sonoran Mountain Ranch development and the City will reimburse for the over-sizing of these lines based on their development agreement.

**Justification:**

This project will construct the major collection lines needed to extend sewer service to areas of the City located north of Pinnacle Peak Road. This project will fund the over-sizing of the lines to provide additional capacity for future development.



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	Carryover-FY	\$36,837	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36,837
<b>Total Budget</b>			<b>\$36,837</b>	<b>\$0</b>	<b>\$36,837</b>								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
<b>Total Operating Impacts:</b>	\$9,230	\$9,230	\$9,230	\$9,230	\$9,230	\$9,230	\$9,230	\$13,051	\$13,051	\$13,051	\$103,763

**99th Av Wastewater Interceptor Upgrades**

**Project Number :**UT00107

**Project Location :**99th Avenue

**Description:**

Wastewater for the southern portion of the City of Peoria is conveyed to the City of Tolleeson Wastewater Treatment Plant in a major wastewater interceptor pipeline located along 99th Avenue. This line has been evaluated and needs some repair and maintenance. Peoria funded their portion of the identified repairs.

**Justification:**

The 99th Avenue interceptor has capacity which is shared between several municipalities including the City of Peoria. Peoria will pay a portion of these line repairs based on our capacity in the line per the IGA with Phoenix, Glendale, and Tolleeson.



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	Carryover-FY	\$78,867	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$78,867
		<b>Total Budget</b>	<b>\$78,867</b>	<b>\$0</b>	<b>\$78,867</b>								

**Agua Fria Lift Station; Water Campus Land Purchase**

**Project Number :** UT00284

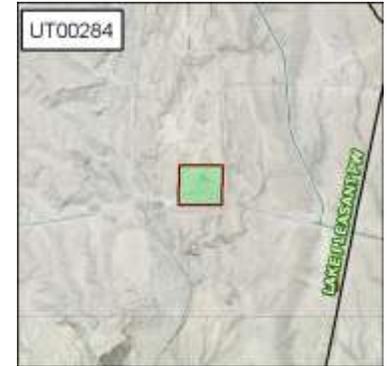
**Project Location :** CAP Canal and Agua Fria River

**Description:**

This project will purchase a site totaling 80 acres in size. A portion of the site will initially be used to house a regional wastewater lift station that will provide sewer service for the portion of the City located north of the Central Arizona Project (CAP) Canal and east of the Agua Fria River. In the future, this site will be used to house a future water campus for the City which will include both water reclamation and water treatment facilities. The FY2013 funding will be used to complete a site study.

**Justification:**

A centrally located water campus will increase efficiency of operations. Early purchase of the land should assure lower costs for the site.



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	Proposed Water/Sewer R	Base	\$0	\$0	\$0	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Land	Wastewater Expansion	Base	\$0	\$0	\$0	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Study	Wastewater Utility	Base	\$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
<b>Total Budget</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$8,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$8,200,000</b>

**Beardsley Water Reclamation Facility Improvements**

**Project Number :** UT00124

**Project Location :** 111th Ave /Beardsley Road

**Description:**

Due to slower growth in the Beardsley service area, the plant capacity will not be increased to six (6) million gallons per day until a later date. In order to maintain reliability and redundancy in the existing facility and to facilitate later expansions, upgrades need to be implemented to modernize existing equipment. These upgrades will be completed in FY09/ FY10 under this project.

**Justification:**

Aging of equipment has created the need to implement improvements to the plant in order to maintain efficiency, reliability, and required levels of redundant capacity. In addition, the planned improvements will facilitate further expansion of the 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/Sewer Revenue Bo	Base	\$1,980,198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,980,198
Construction	Water/Sewer Revenue Bo	Carryover-FY	\$1,945,511	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,945,511
<b>Total Budget</b>			<b>\$3,925,709</b>	<b>\$0</b>	<b>\$3,925,709</b>								

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
<b>Total Operating Impacts:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000

**Beardsley WRF - Monitor Wells & Misc. Upgrades**

**Project Number :**UT00196

**Project Location :**111th Ave/Beardsley Road

**Description:**

In FY 2006, two new five-acre recharge basins were constructed at the Beardsley Road WRF. Shortly after the City started to operate these basins, it was noted that there was seepage of recharge water onto the adjacent (lower) property. The remaining funds of the project have been carried over to allow staff to complete a geotechnical investigation to identify if corrections are needed and to also fund the construction of the corrections. Currently the design is proceeding and the construction is scheduled to be completed before December 2009.

**Justification:**

The City of Peoria recharges the effluent from the Beardsley Road WRF on the facility property to generate groundwater credits. These credits make up a portion of the City’s overall water portfolio. These repairs will ensure the City can continue to receive the necessary recharge credits from the Beardsley WRF.



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	Carryover-FY	\$33,002	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,002
		<b>Total Budget</b>	<b>\$33,002</b>	<b>\$0</b>	<b>\$33,002</b>								

**Beardsley WRF Solar Power Pilot Project**

*Project Number :UT00265*

*Project Location :Beardsley WRF*

**Description:**

This project is for the installation of a 50 KW solar generating facility at the Beardsley WRF operations building. This project will provide supplemental power for the building to ultimately reduce power usage and minimize the carbon footprint of the facility.

**Justification:**

This is a pilot study for the use of solar power for utility facilities to try and meet the goal of green building construction.



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		Carryover-FY	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
		<b>Total Budget</b>	<b>\$500,000</b>	<b>\$0</b>	<b>\$500,000</b>								

**Butler Drive Water Reclamation Facility**

**Project Number :** UT00031

**Project Location :** 79th Avenue and Butler

**Description:**

This project funded the construction of the Butler Drive Water Reclamation Facility, offsite pipelines and the Influent Pump Station. The plant started operating in July 2008. Funding in FY 10 and FY 11 is needed to complete the project closeout.

**Justification:**

This plant is intended to supplement the available treatment capacity in the Tolleson Wastewater Treatment Plant and will be required as the Southern portion of the City of Peoria builds out. The facility will treat wastewater for beneficial reuse.



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	Carryover-FY	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
Land	Wastewater Utility	Base	\$3,350,000	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,850,000
<b>Total Budget</b>			<b>\$3,400,000</b>	<b>\$1,500,000</b>	<b>\$0</b>	<b>\$4,900,000</b>							

### Butler WRF Recharge Wells

Project Number :UT00248

Project Location :Southern Peoria

**Description:**

This project will design and construct recharge wells on the Butler WRF Plant site and Community Park 2. The recharge wells will enable the Butler Drive WRF to deliver water directly to the aquifer to address the expected decrease in recharge capacity at the NAUSP recharge facility. The FY09 carryover funds will be used to coordinate the installation of piping with Phase 1 of the Community Park 2.

**Justification:**

This project will address the expected decrease in recharge rate at the NAUSP. Based on historical experience with two other recharge projects, the underground storage facility generally gets permitted at a higher rate than it is operationally capable. In addition, this will help with peaking factors and be able to maximize recharge credits.



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	\$658,911	\$0	\$638,738	\$0	\$0	\$0	\$0	\$0	\$1,297,649
Arts	Wastewater Utility	Carryover-FY	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500
Construction	Wastewater Utility	Base	\$0	\$200,000	\$891,090	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,091,090
Construction	Wastewater Utility	Carryover-FY	\$97,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$97,500
Study	Wastewater Utility	Carryover-FY	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
Construction	Water Expansion	Base	\$0	\$200,000	\$0	\$1,525,000	\$638,738	\$0	\$0	\$0	\$0	\$0	\$2,363,738
Construction	Water Expansion	Carryover-FY	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
<b>Total Budget</b>			<b>\$250,000</b>	<b>\$400,000</b>	<b>\$1,550,001</b>	<b>\$1,525,000</b>	<b>\$1,277,476</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,002,477</b>

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
<b>Total Operating Impacts:</b>	\$0	\$0	\$0	\$0	\$0	\$75,556	\$75,556	\$75,556	\$75,556	\$75,556	\$377,780

**Deer Valley- 24-inch Sewer; Lake Plst Rd - 91st Av**

**Project Number :**UT00103

**Project Location :**Deer Valley Road East of Lake Pleasant Road

**Description:**

This project provides for the design and construction of a 24-inch sanitary sewer line along Deer Valley Road from Lake Pleasant Road to 91st Avenue. This sewer will be required to provide service to the area located generally north of Deer Valley Road and to intercept wastewater flows at 91st Avenue to relieve the flows in the Beardsley Road wastewater interceptor. The FY10 funding is to reimburse the Peoria Unified School District for the portion of the sewer line constructed from 95th to 97th Avenues.

**Justification:**

This sewer will be required to provide service to the Camino a Lago development and to intercept wastewater flows at 91st Avenue to relieve the flows in the Beardsley Road wastewater interceptor.



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	\$298,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$298,020
<b>Total Budget</b>			<b>\$298,020</b>	<b>\$0</b>	<b>\$298,020</b>								

## Happy Valley Road 8-inch Sewer; 91st to 85th Av

**Project Number :** UT00277

**Project Location :** Happy Valley Rd from 91st Av to 85th Av

**Description:**

This project provides for the design, construction, and construction management of a new 8-inch sewer line to be located within Happy Valley Road from 91st to 85th Avenue.

**Justification:**

The proposed development known as Sunrise Mountain located at the NEC corner of 91st Avenue and Happy Valley Road is in the design stage and is currently being coordinated with the Happy Valley Road project. The developer is required to extend a sanitary sewer line along Happy Valley Road between 91st Avenue and 85th Avenue. It was determined that a collaborative effort between the City's project and the developer's project is in the best interest of both parties. As a result, the developer will reimburse the City to design, construct, and provide post-design services for the sanitary sewer.



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	Carryover-FY	\$595,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$595,000
<b>Total Budget</b>			<b>\$595,000</b>	<b>\$0</b>	<b>\$595,000</b>								

**Lake Plsnt Pkwy 21/18-inch Sewer; Dynamite-L303**

**Project Number :**UT00151

**Project Location :**Lake Plsnt Pkwy/Dynamite to Loop 303

**Description:**

This project includes the design and construction of two sections (21&18-inch) of sanitary sewer lines along Lake Pleasant Parkway from Dynamite to Loop 303. This sewer will be required to provide service to the Lake Pleasant Parkway Corridor in the northern areas of the City located east of the Agua Fria River. The project is being coordinated with the construction of Lake Pleasant Parkway from Dynamite Road to Loop 303.

**Justification:**

Major collection pipelines and lift stations are required to convey and deliver wastewater to the appropriate treatment facility. These sewer lines are City-wide facilities and will carry large volumes of wastewater for several miles. This sewer line has been identified in the Wastewater 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	Wastewater Expansion	Base	\$0	\$0	\$3,247,327	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,247,327
Design	Wastewater Expansion	Base	\$0	\$550,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550,000
Study	Wastewater Expansion	Carryover-FY	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
Construction	Wastewater Utility	Base	\$0	\$0	\$554,456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$554,456
<b>Total Budget</b>			<b>\$30,000</b>	<b>\$550,000</b>	<b>\$3,801,783</b>	<b>\$0</b>	<b>\$4,381,783</b>						

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Total
<b>Total Operating Impacts:</b>	\$0	\$0	\$0	\$2,025	\$2,025	\$2,025	\$2,025	\$2,025	\$2,025	\$2,025	\$14,175

## *Lift Station Reconditioning*

**Project Number :** UT00116

**Project Location :** Various Locations

**Description:**

The City owns and operates sanitary sewer lift stations located at various locations. These stations deliver raw sewage to our Water Reclamation facilities. This project provides funds to upgrade the lift station equipment in order to maintain reliability and provide needed capacity. The FY09/ FY10 funds will be used to add an emergency generator, upgrade equipment and site improvements at the 101st Avenue/ Northern lift station site.

**Justification:**

Lift Station equipment continually performs under harsh conditions for extended periods of time. Upgrades to equipment and technology assure reliable operation and minimize the possibility of events with an environmental impact.



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	\$120,792	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120,792
Construction	Wastewater Utility	Carryover-FY	\$444,553	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$444,553
<b>Total Budget</b>			<b>\$565,345</b>	<b>\$0</b>	<b>\$565,345</b>								

### Loop 303 Wastewater Line Crossings

**Project Number :** UT00254

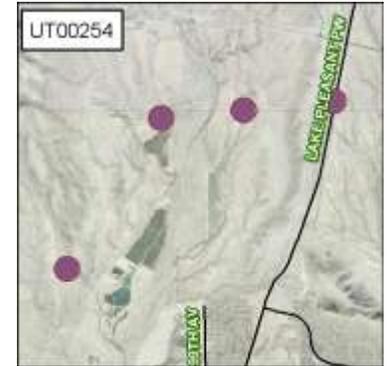
**Project Location :** Loop 303- Happy Valley Rd to Lake Pleasant Pkwy

**Description:**

This project will reimburse ADOT for the construction of wastewater/reclaimed line 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 wastewater/reclaimed line segment locations are as follows: 18-inch sewer at Lake Pleasant Parkway; 12-inch sewer at 96th Avenue; 12-inch sewer at Station 1700; and 12-inch reclaimed water @ Lone Mountain Parkway.

**Justification:**

As development occurs along the Loop 303 corridor, each of these sewer sections constructed will become part of the City's regional sewer system. 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	Wastewater Expansion	Carryover-FY	\$291,423	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$291,423
Construction	Wastewater Utility	Carryover-FY	\$750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000
<b>Total Budget</b>			<b>\$1,041,423</b>	<b>\$0</b>	<b>\$1,041,423</b>								

**Miscellaneous Local Wastewater Line Improvements**

**Project Number :** UT00191

**Project Location :** Various Locations

**Description:**

This project provides funding to upgrade the City's existing wastewater collection system to ensure its continued operation. These funds are also to be used to construct sewer extensions in coordination with new street improvement projects. The selection of these projects is done through coordination with Utility Operations and City Engineering.

**Justification:**

The existing City wastewater collection system needs continued upgrading to ensure its uninterrupted operation. Sewer stubs 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	Wastewater Utility	Base	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$9,000
Construction	Wastewater Utility	Base	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000
<b>Total Budget</b>			<b>\$100,000</b>	<b>\$101,000</b>	<b>\$1,009,000</b>								

## Northern and 95th Ave Trunk Sewer Repairs- Sect A

**Project Number :** UT00292

**Project Location :** Northern Avenue and 95th Avenue

**Description:**

The project will fund the construction needed for the rehabilitation of the trunk sewer lines. The project is being divided into three sections to allow the City to prioritize the repairs based on the severity of the deterioration identified. Section A will repair approximately 4,500 linear feet of 36-inch sewer line on Northern Avenue between 91st and 99th Avenues. The repairs will consist of installing a cured-in-place-pipe (CIPP) liner, and will require installing bypass pumps to divert all of the sewer flows in the line while the repairs are being made.

**Justification:**

The City of Peoria has completed an evaluation of the trunk sewer lines on Northern Avenue (99th to 83rd Avenue) and 95th Avenue (Northern to Peoria Avenue). The evaluation has identified extensive deterioration in both lines, ranging from damaged PVC lining to severely corroded sections of unlined sewer pipe. Due to the deterioration, the City has had to make two emergency repairs to the Northern Avenue sewer over the past 2.5 years. These repairs were made to replace sections of the sewer line where the crown had been completely disintegrated. The most recent repair was completed after the pipe had collapsed due to the missing cross section.



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		Carryover-FY	\$1,673,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,673,205
Arts	Wastewater Utility	Carryover-FY	\$16,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,732
<b>Total Budget</b>			<b>\$1,689,937</b>	<b>\$0</b>	<b>\$1,689,937</b>								

**Northern and 95th Ave Trunk Sewer Repairs- Sect B**

**Project Number :** UT00293

**Project Location :** Northern Ave and 95th Ave

**Description:**

The project will fund the construction needed for the rehabilitation of the trunk sewer lines. The project is being divided into three sections to allow the City to prioritize the repairs based on the severity of the deterioration identified. Section B will cover repairs of approximately 5,200 linear feet of 24-inch sewer line on Northern Avenue between 83rd and 91st Avenues. The repairs will consist of installing a cure-in-place-pipe (CIPP) liner, and will require installing bypass pumps to divert all of the sewer flows in the line while the repairs are being made.

**Justification:**

The City of Peoria has completed an evaluation of the trunk sewer lines on Northern Avenue (99th to 83rd Avenue) and 95th Avenue (Northern to Peoria Avenue). The evaluation has identified extensive deterioration in both lines, ranging from damaged PVC lining to severely corroded sections of unlined sewer pipe. Due to the deterioration, the City has had to make two emergency repairs to the Northern Avenue sewer over the past 2.5 years. These repairs were made to replace sections of the sewer line where the crown had been completely disintegrated. The most recent repair was completed after the pipe had collapsed due to the missing cross section.



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		Carryover-FY	\$1,970,235	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,970,235
Arts	Wastewater Utility	Carryover-FY	\$19,702	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,702
<b>Total Budget</b>			<b>\$1,989,937</b>	<b>\$0</b>	<b>\$1,989,937</b>								

## Northern and 95th Ave Trunk Sewer Repairs- Sect C

**Project Number :** UT00294

**Project Location :** Northern Ave and 95th Ave

**Description:**

The project will fund the construction needed for the rehabilitation of the trunk sewer lines. The project is being broken up into sections to allow the City to prioritize the repairs based on the severity of the deterioration identified. Section C will cover the repair of approximately 3,200 linear feet of 36-inch sewer line on 95th Avenue between Northern and Peoria Avenues. The repairs will consist of installing a cure-in-place-pipe (CIPP) liner, and will require installing bypass pumps to divert all of the sewer flows in the line while the repairs are being made.

**Justification:**

The City of Peoria has completed an evaluation of the trunk sewer lines on Northern Avenue (99th to 83rd Avenue) and 95th Avenue (Northern to Peoria Avenue). The evaluation has identified extensive deterioration in both lines, ranging from damaged PVC lining to severely corroded sections of unlined sewer pipe. Due to the deterioration, the City has had to make two emergency repairs to the Northern Avenue sewer over the past 2.5 years. These repairs were made to replace sections of the sewer line where the crown had been completely disintegrated. The most recent repair was completed after the pipe had collapsed due to the missing cross section.



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		Carryover-FY	\$1,848,608	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,848,608
Arts	Wastewater Utility	Carryover-FY	\$18,486	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,486
<b>Total Budget</b>			<b>\$1,867,094</b>	<b>\$0</b>	<b>\$1,867,094</b>								

### Trunk Sewer Line Inspection

**Project Number :** UT00295

**Project Location :** Citywide

**Description:**

This project will fund a detailed inspection of all sewer lines 15 inches and larger within the City's sewer collection system. The project will be completed in two phases. Phase I will be completed in FY10 and will inspect all sewers south of Beardsley Road. Phase II will be completed in FY11 and will inspect all sewers north of Beardsley Road including Vistancia.

**Justification:**

As the city sewer collection system ages, this inspection will give staff a baseline of the overall condition which can be used to identify and develop a capital repair and rehabilitation 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	Wastewater Utility	Base	\$250,000	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$510,000
<b>Total Budget</b>			<b>\$250,000</b>	<b>\$260,000</b>	<b>\$0</b>	<b>\$510,000</b>							

**Trunk Sewer Rehabilitation**

**Project Number :**UT00296

**Project Location :**Citywide

**Description:**

This project will fund the repair and rehabilitation of the city's 15-inch and larger sewer lines in the collection system. These lines are classified as Trunk sewers and they collect the wastewater from several individual subdivisions. This project will provide funding to correct deficiencies identified through the sewer inspection CIP project, UT00295.

**Justification:**

As the city sewer collection system ages, it will become necessary to perform capital repair and maintenance to ensure continuous and reliable 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	Wastewater Utility	Base	\$0	\$1,980,199	\$990,100	\$990,100	\$990,100	\$0	\$0	\$0	\$0	\$0	\$4,950,499
<b>Total Budget</b>			<b>\$0</b>	<b>\$1,980,199</b>	<b>\$990,100</b>	<b>\$990,100</b>	<b>\$990,100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,950,499</b>

**West Agua Fria Wastewater Lines**

**Project Number :** UT00171

**Project Location :** Vistancia Development

**Description:**

This project provides for additional wastewater collection capacity throughout the Vistancia Development. The Vistancia Utilities Master Plan identified sizes of wastewater trunk sewers that are needed to support the Vistancia wastewater system. The City is funding the over-sizing of selected wastewater trunk sewers to provide collection system capacity for new development in surrounding areas.

**Justification:**

This project provides for additional collection capacity in the wastewater system in the Vistancia area. These lines are part of the Wastewater Master Plan and will be used to convey wastewater to the wastewater reclamation 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	Wastewater Expansion	Base	\$0	\$0	\$955,250	\$0	\$124,426	\$38,000	\$0	\$0	\$0	\$0	\$1,117,676
Construction	Wastewater Utility	Base	\$0	\$1,118,651	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,118,651
<b>Total Budget</b>			<b>\$0</b>	<b>\$1,118,651</b>	<b>\$955,250</b>	<b>\$0</b>	<b>\$124,426</b>	<b>\$38,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,236,327</b>

