



City of Tempe

**Water and Wastewater
Development Fees Study**

**INFRASTRUCTURE
IMPROVEMENTS PLAN**

February 2014



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**INFRASTRUCTURE
IMPROVEMENTS PLAN**

Prepared for:
City of Tempe

Prepared by:
ARCADIS U.S., Inc.
12400 Coit Road
Suite 1200
Dallas
Texas 75251
Tel 972 934 3711
Fax 972 934 3662

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Acronym List

ACS	American Community Survey
ADD	Average Day Demand
afy	Acre Feet per Year
ARS	Arizona Revised Statutes
AZ-SMART	Arizona's Socioeconomic Modeling, Analysis, and Reporting Toolbox
COG	Council of Government
EDU	Equivalent Dwelling Unit
GP 2040	Tempe General Plan Year 2040
gpd	Gallons per Day
IIP	Infrastructure Improvement Plan
LUA	Land Use Assumptions
MAG	Maricopa Association of Governments
MDPF	Maximum Day Peaking Factor
MFR	Multifamily Residential
mgd	Million Gallons per Day
MHPF	Maximum Hour Peaking Factor
MMF	Maximum Monthly Flow
MMPF	Maximum Month Peaking Factor
MPO	Metropolitan Planning Organization
POPTAC	Population Technical Advisory Committee
PUMS	Public Use Microdata Sample
PWWF	Peak Wet Weather Flow
SB	Senate Bill
SFR	Single Family Residential
SROG	Sub-Regional Operating Group
TAZ	Traffic Analysis Zone
UrbanSim	Urban Simulator
WRF	Water Reclamation Facility
WWTP	Wastewater Treatment Plant

1. Infrastructure Improvements Plans

1.1 Introduction

The Infrastructure Improvements Plan (IIP) establishes the engineering basis for the capital projects included in the water and wastewater development fee calculations.

Development fees provide Tempe with a mechanism for funding or recouping the cost associated with capital improvements or facility expansions of the municipal water and wastewater systems necessitated by and attributable to the new development, as necessary to accommodate growth in the identified service areas from 2014 through 2023 (the study period). Tempe owns and operates an infrastructure-intensive system comprised of water production facilities, pumping stations, storage facilities, pipelines, and wastewater treatment facilities and that are continuously improved and expanded. The schedule for future growth-related investments in the water and wastewater systems that will serve new development during the 2014-2023 study period is known as the Infrastructure Improvements Plan. The eligible IIP includes capital project descriptions and cost estimates as developed by combined efforts of Tempe staff, other consultants, and Red Oak.

This report includes a description of the basis for establishing which Tempe water and wastewater facilities are eligible to be included in the development fee calculation. First, the facilities required to accommodate growth during the 10-year study period, as defined in the Land Use Assumptions (LUA), are identified. Then the development fee per equivalent dwelling unit (EDU) is calculated using the value of the eligible capital facilities and the projected increase in EDUs from the LUA. The final development fee per EDU is then calculated by subtracting statutory credits for the estimated capital costs to be included in future rates that will be charged to the new EDUs.

1.2 Capacity Criteria

This section of the report discusses the capacity of those facilities that are eligible for inclusion in the calculation of the development fees. The only capacities that are considered for inclusion are existing available capacities and the increases in capacities to serve growth projected to occur during the study period.

Section 1.2.1 describes those growth-related capacities for the water facilities considered for inclusion in the water development fees. The water facilities category is subdivided into water production, water resources, pumping stations, and water storage. Section 1.2.2 describes those growth-related capacities for wastewater

facilities considered for inclusion in the wastewater development fees. The wastewater facilities category is subdivided into wastewater treatment and Sub-Regional Operating Group (SROG) interceptors.

1.2.1 Water Infrastructure Capacity Criteria

The water infrastructure capacity criteria are based on the average day demand (ADD) calculated from the water demand factors in the LUA. The water system maximum day peaking factor (MDPF) is 1.6, and the maximum hour peaking factor (MHPF) is 2.24. These peaking factors were provided by City of Tempe staff based on the current design criteria used.

1.2.1.1 Water Resources

The City of Tempe has several sources of water supply that can be used to provide sufficient potable water to its customers. Water resources projects are typically measured in acre feet per year and designed to meet the ADD. The 2013 and 2023 ADDs are presented in the LUA. The projected study period increase in ADD for water resources projects is 3,278 afy:

$$\begin{aligned}\text{ADD increase} &= \text{2023 ADD} - \text{2013 ADD} \\ \text{ADD increase} &= 65,550 \text{ afy} - 62,272 \text{ afy} = 3,278 \text{ afy}\end{aligned}$$

1.2.1.2 Water Production

Water production facilities include wells and water treatment plants. These facilities are designed to meet the maximum day demand (MDD). Using the system ADD, MDPF and the number of EDUs from the LUA, the estimated 2013 MDD for Tempe's water system is 88.9 mgd:

$$\begin{aligned}\text{MDD} &= \text{ADD} * \text{MDPF} * \text{No. of EDUs} \\ \text{2013 MDD} &= 568 \text{ gpd} * 1.6 * 97,862 \text{ EDUs} / 1,000,000 \\ \text{2013 MDD} &= 88.9 \text{ mgd}\end{aligned}$$

Similarly, the estimated 2023 MDD for the water system is 93.6 mgd:

$$\begin{aligned}\text{2023 MDD} &= 568 \text{ gpd} * 1.6 * 103,027 \text{ EDUs} / 1,000,000 \\ \text{2023 MDD} &= 93.6 \text{ mgd}\end{aligned}$$

The projected study period increase in MDD for water production facilities is 4.7 mgd:

$$\begin{aligned} \text{MDD increase} &= 2023 \text{ MDD} - 2013 \text{ MDD} \\ \text{MDD increase} &= 93.6 \text{ mgd} - 88.9 \text{ mgd} = 4.7 \text{ mgd} \end{aligned}$$

1.2.1.3 *Water Pumping*

Water pumping requirements are based on design maximum hour demand (MHD). Using the water system ADD, MHPF and the number of EDUs from the LUA, the estimated 2013 MHD for the Tempe system is 124.5 mgd:

$$\begin{aligned} \text{MHD} &= \text{ADD} * \text{MHPF} * \text{No. of EDUs} \\ 2013 \text{ MHD} &= 568 \text{ gpd} * 2.24 * 97,862 \text{ EDUs} / 1,000,000 \\ 2013 \text{ MHD} &= 124.5 \text{ mgd} \end{aligned}$$

The estimated 2023 MHD for Tempe is 131.1 mgd:

$$\begin{aligned} 2023 \text{ MHD} &= 568 \text{ gpd} * 2.24 * 103,027 \text{ EDUs} / 1,000,000 \\ 2023 \text{ MHD} &= 131.1 \text{ mgd} \end{aligned}$$

The expected increase in MHD due to growth during the study period is 6.6 mgd:

$$\begin{aligned} \text{MHD increase} &= 2023 \text{ MHD} - 2013 \text{ MHD} \\ \text{MHD increase} &= 131.1 \text{ mgd} - 124.5 \text{ mgd} = 6.6 \text{ mgd} \end{aligned}$$

Table 1-1 summarizes the change in demand for water infrastructure during the study period.

Table 1-1 Water Infrastructure Capacity Criteria

Infrastructure Component	Capacity Required		
	2013	2023	Change
Water Resources (afy)	62,272	65,550	3,278
Water Production (mgd)	88.9	93.6	4.7
Water Pumping (mgd)	124.5	131.1	6.6

1.2.2 Wastewater Infrastructure Capacity Criteria

Reserved average daily wastewater flow projections are estimated based on reserved water demands. It is assumed that the ratio of actual average daily water demand to current reserved water demand is the same as the ratio of actual average daily wastewater flow to current reserved average daily wastewater flow. The ratio of actual average daily water demand to current reserved water demand is 1.24. Actual wastewater average daily flow (ADF) is assumed to be 18.5 mgd. Therefore, the current reserved ADF for wastewater is 22.9 mgd.

$$\begin{aligned} \text{Current reserved water ADD} / \text{Actual water ADD} &= \text{Reserved to actual demand} \\ &\text{ratio} \\ 55.6 \text{ mgd} / 45.0 \text{ mgd} &= 1.24 \end{aligned}$$

$$\begin{aligned} \text{Actual wastewater ADF} * \text{Reserved to actual demand ratio} &= \text{Current reserved} \\ &\text{wastewater ADF} \\ 18.5 \text{ mgd} * 1.24 &= 22.9 \text{ mgd} \end{aligned}$$

Using the current reserved ADF and the number of EDUs, we calculate that one wastewater EDU is equivalent to 254 gpd.

$$\begin{aligned} \text{Current reserved wastewater ADF} / \text{2013 EDUs} &= \text{Wastewater ADF per EDU} \\ 22.9 \text{ mgd} / 89,995 \text{ EDUs} &= 254 \text{ gpd per EDU} \end{aligned}$$

Assuming the ADF per EDU is constant throughout the study period, the projected average daily wastewater flow for 2023 is 24.1 mgd.

$$\begin{aligned} \text{2023 projected EDUs} * \text{Wastewater ADF per EDU} &= \text{2023 projected wastewater} \\ &\text{ADF} \\ 94,745 \text{ EDUs} * 254 \text{ gpd} &= 24.1 \text{ mgd} \end{aligned}$$

The wastewater treatment facilities are designed based on the maximum monthly flow (MMF), which is estimated using a maximum month peaking factor (MMPF) of 1.1. This capacity criterion is also applied to the SROG interceptors.

$$\begin{aligned} \text{MMF} &= \text{ADF} * \text{MMPF} * \text{No. of EDUs} \\ \text{2013 MMF} &= 254 \text{ gpd} * 1.1 * 89,995 \text{ EDUs} / 1,000,000 \\ \text{2013 MMF} &= 25.1 \text{ mgd} \end{aligned}$$

The estimated 2023 MMF for Tempe is 26.5 mgd:

$$\begin{aligned} \text{2023 MMF} &= 254 \text{ gpd} * 1.1 * 94,745 \text{ EDUs} / 1,000,000 \\ \text{2023 MMF} &= 26.5 \text{ mgd} \end{aligned}$$

The expected increase in MMF due to growth during the study period is 1.4 mgd:

$$\begin{aligned} \text{MMF increase} &= \text{2023 MMF} - \text{2013 MMF} \\ \text{MMF increase} &= 26.5 \text{ mgd} - 25.1 \text{ mgd} = 1.4 \text{ mgd} \end{aligned}$$

Table 1-2 summarizes the change in demand for wastewater infrastructure during the study period.

Table 1-2 Wastewater Infrastructure Capacity Criteria

Infrastructure Component	Capacity Required		
	2013	2023	Change
Wastewater Treatment (mgd)	25.1	26.5	1.4
SROG Interceptor (mgd)	25.1	26.5	1.4

1.3 Eligible Facilities

This section establishes the Tempe water and wastewater facilities that are eligible for inclusion in the calculation of the development fee. Projects and facilities included in the IIP can serve to rehabilitate and renew the system, enhance the system to improve efficiency and meet regulatory requirements, increase the system capacity, or achieve a combination of these objectives. Only those projects that provide or impact capacity available for growth projected to occur during the study period (2014 to 2023) can be included in the development fee calculation. Additionally, if the cost of a project cannot be sufficiently delineated or if alternate mechanisms for cost recovery are in place, the project is not included in the development fee calculation.

Although eligible for inclusion in the development fee calculation, financing costs associated with existing infrastructure with available capacity to serve new development are not included in Tempe’s IIP. Based on discussions with Tempe staff, Tempe prefers to use cash generated from development fee revenues to fund growth related IIP, to the extent that development fee collections provide that cash. Therefore, Tempe excluded financing costs from the development fee calculation.

1.3.1 Water Facilities

The water development fee includes growth-related costs for existing water infrastructure and for new projects to be constructed. As with the capacity criteria, the allocation of existing facilities and future IIP is determined for each type of infrastructure in the water development fee calculation. For each of these infrastructure types, there are multiple facilities and each facility is likely to have some available capacity for future growth, which is the capacity in excess of the capacity reserved for existing customers. Planned expansion projects in the IIP may include construction of a new facility within the service area even though other facilities within that service area may have available capacity. Because new water facilities are constructed and put into service even when available capacity exists at older facilities, the assumption that growth will utilize all existing available capacity before utilizing future IIP capacity is not realistic. Existing available and future CIP capacity are considered together as total available capacity during the study period, and the amount of that available capacity that would be utilized by study period growth is determined using the capacity criteria from Section 1.2. This approach results in a lower eligible percentage than if only future capacity was considered, which, when applied to the total value of existing and future infrastructure, generates a comparable eligible IIP value.

1.3.1.1 Water Resources

The water development fee includes growth-related costs for existing water supplies and for new water resources projects to be completed. Tempe staff provided the available water supply information, as well as the amount of water supply to be added during the study period through IIP projects.

Tempe currently has 88,518 afy of water supply available for its customers. Of the 88,518 afy of existing capacity in 2013, 62,272 afy is needed to meet the ADD of existing customers. Therefore, 26,246 afy is available to serve new development. The IIP includes 4,181 afy of water resources projects so the total available water resources during the study period is 30,427 afy:

$$\begin{aligned} \text{Total Available Water Resources} &= \text{Existing Available Water Resources} + \text{Future} \\ &\quad \text{IIP Water Resources} \\ \text{Total Available Water Resources} &= 26,246 \text{ afy} + 4,181 \text{ afy} = 30,427 \text{ afy} \end{aligned}$$

From Section 1.2.1.1, approximately 3,278 afy is required to serve growth during the study period. This represents 10.8% of the total available water resources:

$$\text{Study period growth allocation} = \frac{\text{Study period water resources demand}}{\text{Total available water resources}}$$
$$\text{Study period growth allocation} = 3,278 \text{ afy} / 30,427 \text{ afy} = 10.8\%$$

1.3.1.2 Water Production

Tempe staff provided the capacities of the existing water production facilities and the future IIP projects. The 2013 and 2023 water production capacities for the Tempe water system are 116.7 mgd and 123.4 mgd, respectively.

Of the 116.7 mgd of existing capacity in 2013, 88.9 mgd is needed to meet the MDD of existing customers. Therefore, 27.8 mgd is available to serve new development. The IIP includes 6.8 mgd of well capacity so the total available capacity during the study period is 34.6 mgd:

$$\text{Total available capacity} = \text{Existing available capacity} + \text{Future IIP capacity}$$
$$\text{Total available capacity} = 27.8 \text{ mgd} + 6.8 \text{ mgd} = 34.6 \text{ mgd}$$

From Section 1.2.1.2, approximately 4.7 mgd is required to serve growth during the study period. This represents 13.6% of the total available capacity:

$$\text{Study period growth allocation} = \frac{\text{Study period demand}}{\text{Total available capacity}}$$
$$\text{Study period growth allocation} = 4.7 \text{ mgd} / 34.6 \text{ mgd} = 13.6\%$$

1.3.1.3 Water Pumping

Tempe staff provided the capacities of the existing high service and booster pump stations. The 2013 pump station capacity for the Tempe water system is 110.0 mgd. No pump station expansions are planned during the study period.

Of the 110.0 mgd of existing capacity in 2013, 124.5 mgd is needed to meet the MDD of existing customers, which indicates that there is not currently sufficient capacity to serve the existing demand. However, Tempe's well pumps also provide pumping capacity for the system. If the existing pumping capacity is applied to the current pumping demand, the remaining demand requirement is 107.8 mgd:

$$\text{Pump station capacity requirement} = \text{Water pumping demand} - \text{Well pumping capacity}$$

Pump station capacity requirement = 124.5 mgd – 16.7 mgd = 107.8 mgd

As a result, 2.2 mgd is available to serve new development. The IIP includes 6.8 mgd of well capacity so the total available capacity during the study period is 9.0 mgd:

Total available capacity = Existing available capacity + Future IIP capacity
Total available capacity = 2.2 mgd + 6.8 mgd = 9.0 mgd

From Section 1.2.1.3, approximately 6.6 mgd is required to serve growth during the study period. This represents 73.9% of the total available capacity:

Study period growth allocation = Study period demand / Total available capacity
Study period growth allocation = 6.6 mgd / 9.0 mgd = 73.9%

Table 1-3 below summarizes the values of the eligible water facilities included in the development fee calculation.

Table 1-3 Summary of Eligible Water Costs

	Existing Capacity			New IIP Capacity			Total Capacity		
	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
Water Resources	3.4	0.1	0.0	4.8	0.5	0.0	8.2	0.6	0.0
Water Production	178.3	5.8	0.0	14.2	1.9	0.0	192.5	7.7	0.0
Water Pumping	22.8	0.3	0.0	0.0	0.0	0.0	22.8	0.3	0.0
Total	204.5	6.2	0.0	19.0	2.4	0.0	223.5	8.6	0.0

1.3.2 Wastewater Facilities

The wastewater development fee includes growth-related costs associated with the SROG 91st Avenue Wastewater Treatment Plan (WWTP), the Kyrene Water Reclamation Facility (WRF) and the SROG Interceptor which delivers flow to the plant. The 91st Avenue WWTP has a rated capacity of 230 mgd, 32.5 mgd of which is

allocated to the City of Tempe. Because Tempe's projected maximum monthly flow in 2023 is 26.5 mgd, no additional capacity will be required for the 91st Ave WWTP during the study period. However, improvements to the plant with respect to odor control, solids handling, and side stream management will improve the value of the existing plant capacity available for future customers, and have thus been included. In addition to the 32.5 mgd of capacity at the 91st Avenue WWTP, Tempe has 4.0 mgd capacity at Kyrene WRF.

1.3.2.1 Wastewater Treatment

Of the 36.5 mgd of existing capacity in 2013, 25.1 mgd is needed to meet the MMF of existing customers. As a result, 11.4 mgd is available to serve new development. From Section 3.2.1.3, approximately 1.4 mgd is required to serve growth during the study period. This represents 11.7% of the total available capacity:

$$\text{Study period growth allocation} = \frac{\text{Study period demand}}{\text{Total available capacity}}$$
$$\text{Study period growth allocation} = 1.4 \text{ mgd} / 11.4 \text{ mgd} = 11.7\%$$

1.3.2.2 SROG Interceptors

The SROG interceptors are capacity-limited, and Tempe has already exceeded its 15 mgd allocation for conveying wastewater into the 91st Avenue WWTP. As such, the SROG Interceptor Capacity Improvements Project has been included in this analysis as it will increase the conveyance capacity available to Tempe by 12 mgd to 27 mgd. However, because 10.1 mgd of added capacity is required to serve existing customers, only 1.9 mgd is available. This represents 71.6% of the total available capacity or 11.1% of the added capacity.

$$\text{Study period growth allocation} = \frac{\text{Study period demand}}{\text{Total available capacity}}$$
$$\text{Study period growth allocation} = 1.4 \text{ mgd} / 1.9 \text{ mgd} = 71.6\%$$

$$\text{Study period growth allocation} = \frac{\text{Study period demand}}{\text{Total added capacity}}$$
$$\text{Study period growth allocation} = 1.4 \text{ mgd} / 12.0 \text{ mgd} = 11.1\%$$

Table 1-4 summarizes the values of the eligible wastewater facilities included in the development fee calculation.

Table 1-4 Summary of Eligible Wastewater Costs

	Existing Capacity			New IIP Capacity			Total Capacity		
	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs	Value of Capacity	Value of Eligible Capacity	Eligible Financing Costs
	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)	(\$ mil)
Wastewater Treatment	152.0	5.5	0.0	2.5	0.3	0.0	154.5	5.8	0.0
SROG Interceptor	67.1	0.0	0.0	4.5	0.5	0.0	71.7	0.5	0.0
Total	219.1	5.5	0.0	7.0	0.8	0.0	226.2	6.3	0.0



Appendix A

Infrastructure Improvements Plan
Eligible Assets and CIP Projects

City of Tempe, AZ
Water and Wastewater Development Fee Study
Asset Summary - Replacement Cost New Less Depreciation

Line No.	Description	Alloc. Code	RCNLD as of 6/30/13					
			Water	Wastewater	W / S	Reclaimed	Irrigation	Total
1	Treatment Plant	TP	\$ 164,636,492	\$ 37,136,019	\$ -	\$ -	\$ -	\$ 201,772,510
2	Distribution Line (1)	DL	297,405,104	0	6,413,200	0	0	303,818,304
3	Distribution Line - Contributed (1)	DLX	34,055,629	0	0	0	0	34,055,629
4	Transmission Line (1)	TL	2,796,388	0	380,900	0	0	3,177,287
5	Transmission Line - Contributed (1)	TLX	0	0	0	0	0	-
6	Wells	W	13,643,355	0	0	0	0	13,643,355
7	Source of Supply	S	2,859,740	0	573,613	0	0	3,433,353
8	Storage Tanks	ST	12,048,849	0	0	0	0	12,048,849
9	Pump and Booster Stations - Water	P	22,808,630	0	18,514	0	0	22,827,144
10	General Plant, Buildings, Improvements	G	68,746,684	21,998	33,111,145	0	0	101,879,827
11	Equipment, Vehicles, etc	E	15,391,697	5,713,072	10,881,266	584,874	52,378	32,623,287
12	Meters	M	5,837,739	103,194	22,724	0	0	5,963,657
13	Administrative	A	0	0	9,130,273	0	0	9,130,273
14	Water Reclamation Facilities	RP	0	0	29,918,335	54,971,335	0	84,889,670
15	Water Reclamation Facilities - Land	RL	0	0	3,191,924	0	0	3,191,924
16	Water Reclamation Effluent Lines	RE	1,200,689	0	0	0	0	1,200,689
17	Water Reclamation Infrastructure	RI	0	2,433,411	0	16,858,293	0	19,291,705
18	Land (3)	L	1,616,852	13,061	1,871,540	0	0	3,501,453
19	Pump, Booster and Lift Stations - WW	PS	0	2,167,594	0	0	0	2,167,594
20	Collection System	CS	0	203,729,188	5,031,518	0	0	208,760,707
21	Collection System - Contributed	CSX	0	6,615,944	0	0	0	6,615,944
22								
23	Total		643,047,847	257,933,480	100,544,952	72,414,502	52,378	1,073,993,160
24			71%	29%				
25								
26	Direct Allocation		643,047,847	257,933,480				900,981,328
27	Indirect Allocation (5)		97,155,717	75,856,115				173,011,832
28	Total Water / Wastewater		740,203,565	333,789,596				1,073,993,160
29			-	-				-
30	Developer Contributions (6)		\$ 34,055,629	\$ 6,615,944				40,671,573
31			\$ -	\$ -				-
32	Assets Less Developer Contributions		\$ 706,147,935	\$ 327,173,652				\$ 1,033,321,587

(1) Per City staff, water lines less than or equal to 12" in diameter are distribution and greater than 12" are transmission.

(2) Per City staff, Water Reclamation Facilities are 100% Wastewater, Effluent Lines are 100% Water and Water Reclamation Infrastructure is 50% Water, 50% Wastewater.

(3) Land assets are not indexed to the Engineering News Record Construction Cost Index for purposes of the replacement cost new calculation.

(4) Remaining Water / Wastewater assets allocated to water and Wastewater based on pro-rated percent of directly allocated water and Wastewater assets.

City of Tempe, AZ
Water and Wastewater Development Fee Study
IIP-eligible CIP Projects

Project Number	Facility Type	Project Name	Cost	Additional Capacity	Units	Completed Within Study Period?
1	Water Production	Chlorine Generation Cells Replacement at Water Treatment Plants	\$ 2,760,000	Enhancement		Yes
2	Water Production	Filter Rehabilitation at Water Treatment Plants	\$ 950,000	Enhancement		Yes
3	Water Production	JGMWTP Water Aqueduct Repair and Security	\$ 1,100,000	Enhancement		Yes
4	Water Production	JGMWTP Water Quality Upgrades	\$ 2,071,440	Enhancement		Yes
5	Water Resource	Ken McDonald Golf Course Recharge Project (1700 Acre-Ft Addition)	\$ 2,600,000		1700 acre-ft	Yes
6	Water Production	New Production Wells (9 MGD Addition)	\$ 6,076,763		9 MGD	Yes
7	Water Production	South Tempe Water Treatment Plant Improvements	\$ 331,232	Enhancement		Yes
8	Water Production	STWTP Main Power Building	\$ 938,000	Enhancement		Yes
9	Water Resources	WMAT Quantification Settlement Agreement CAP Water Lease (2481 Acre-Ft Addition)	\$ 4,770,168		2481 acre-ft	Yes
10	SROG Interceptor	SROG Interceptor Capacity Improvements	\$ 3,393,212		9 MGD	Yes
11	SROG Interceptor	Metering Station Improvements	\$ 1,154,499	Enhancement		Yes
12	Wastewater Treatment	SRO Biofilter at Airport	\$ 14,766	Enhancement		Yes
13	Wastewater Treatment	SRO/SAI Interceptor Odor Control	\$ 35,326	Enhancement		Yes
14	Wastewater Treatment	SRO/SAI Interceptor Odor Control Implement	\$ 683,913	Enhancement		Yes
15	Wastewater Treatment	Resolution of Digestion System Engineering Issues	\$ 353,261	Enhancement		Yes
16	Wastewater Treatment	Outfitting of Additional Solar Sludge Drying Beds	\$ 706,522	Enhancement		Yes
17	Wastewater Treatment	Improvements to Centrate Treatment Facility	\$ 706,522	Enhancement		Yes