

### Existing Inventory

The Utilities Division of the Public Works Department served an estimated 31,996 residential and non-residential water customers as of December 31, 2013. Average daily production in thousands of gallons for calendar year 2013 was 11,373. Annual water produced for 2013 was 12,739 acre-feet or 4.15 billion gallons.

The Utilities Division operates and maintains:

- 17 Production Wells
- 8 Booster Pump Stations
- 18 Storage Tanks (Storage Capacity: 41 million gallons)
- 1 Reverse Osmosis System
- 10 Arsenic Treatment Facilities, and;
- 568 Miles of Water line

### Current Capacity and Condition of Assets and Infrastructure

#### *Production Wells*

The water system inventory includes 17 production wells of varying age, condition, and production capacities. Seventeen wells are in active production status and the city produced an estimated 12,739 acre feet of water in calendar year 2013. Any number of wells at different locations may be under repair at any given time. The significance of wells under repair depends on location and time of year the well breaks down. Well ages generally range from 1969 through 2004 with most wells drilled in the 1980's and 1990's. The conditions of the wells vary from site to site.

#### *Arsenic Treatment Facilities*

In 2003 the U.S. Environmental Protection Agency (EPA) adopted a regulation changing the arsenic standard of 50 micrograms per liter to 10 micrograms per liter of arsenic allowed in drinking water. The EPA action prompted the city to invest in water treatment systems to remove arsenic from the groundwater to meet the Safe Drinking Water Act beginning in 2005. An estimated \$45.4 million was spent between 2005 and 2011 to design, construct, and equip 10 arsenic treatment facilities at various wells through the city. Full production at all sites began in fall of 2010. The estimated annual

operating cost of these arsenic treatment facilities is \$1.5 million.

#### *Water lines*

The water distribution system consists of approximately 568 miles of water line of various sizes ranging from 6 inches to 24 inches in diameter. In calendar year 2013 there were 36 water main breaks, including a major 24 inch line break at the intersection of Northern Boulevard and Unser Boulevard. The cost of emergency repairs was approximately \$718,000, including large sections of asphalt damage that was replaced as a result of the main break. The Utilities operator, OMI, will begin assessment of horizontal assets (i.e. pipe and other underground infrastructure) in the near future to determine the overall condition of water mains.

### Repair and Maintenance Programs/Activities

The Utilities Division annually undertakes three major repair and maintenance programs: well repair, meter replacements, and service line replacements. Beginning in Fiscal Years 2014 and 2015 respectively, meter replacements and well repair were reclassified as repair and maintenance expenses in the budget to accurately reflect the non-capital nature of annual activities related to installation of automatic meter readers "AMRs," and repair of well casings, motors, and pumps. Expenditures for AMR activities over the last three years averaged \$692,311 annually, and 68 percent of outdated meters have been replaced with AMR units since 2006. Expenditures for well repair over the last three years have averaged \$432,499 annually, with work occurring most recently at Wells 2, 6, 8, and 14.

In Fiscal Year 2014, the Utilities Division significantly expanded the water service line replacement program utilizing a \$1 million state capital outlay appropriation and more than \$2 million of utility revenue to contract replacement of 1,450 lines. The FY15 Budget includes an additional \$1 million for service line replacement and the city anticipates receiving another state appropriation in the amount of \$1.4 million for phase 3 of the program. Together these sources will replace approximately 1,200 addition lines. The service line replacement program is a long term project involving

# Capital Improvement Plan

## Utilities-Water



FY15

replacement of approximately 15,000 lines in older established parts of the City. The estimated cost of the project totals \$22.5 million.

### Indicators

Indicator	Calendar Year				
	2009	2010	2011	2012	2013
Annual Water Production (acre-foot, 1 acre foot equals 325,851 gallons.)	12,545	13,563	13,617	14,675	12,739
Annual Water Production (1,000 of gallons)	4,087,779	4,419,667	4,437,020	4,781,312	4,151,110
System Wide Gallons per Capita per Day (1,000 gallons)	137.25	145.64	141.77	159.34	136.21
Single Family Residential Gallons per Capita per Day (1,000 gallons)	78.24	79.14	78.32	79.70	71.9
Non-Revenue Water Ratio Percent	12%	13.3%	12.2%	14.5%	17%
Water Main Breaks per Calendar Year	52	35	43	34	36
Water Service Leaks per Calendar Year	664	954	950	790	786

### Indicator Analysis

Peak Day Demand to Capacity: Maximum water production capacity with all wells operating is approximately 34.5 million gallons per day. The peak day demand of the city in 2013 was 20.2 million gallons or 59 percent (59%) of maximum production. Currently, a number of wells are out of service and/or under repair for various reasons and the city had approximately 28.2 million gallons per day functional production capacity available. The peak day demand of 20.2 million gallons is 72 percent of the current functional production capacity. The peak demand to capacity ratio has decreased since 2012 due to a decline in the peak demand over the last two years. The ratio can be affected by changes in the annual peak day demand brought about by population growth or decline, changes in weather patterns and drought conditions, and water conservation initiatives. The ratio is also affected by fluctuations in system capacity, such as if an active well is out of production. The city is at or near the point at which new wells and replacement wells must be completed in order to sustain a reliable water system for existing residents and to accommodate future growth in the resident population and new businesses. Future well failures depending on the location can potentially trigger a shortage of water and water rationing in the worst case scenario. The city began design of the Redrill Well 13 project in Fiscal Year 2014 and plans to pursue loan financing for construction in 2015 and 2016. The city has also included the Redrill Well 4 or 5 project on its Top 10 Legislative Priority List for the 2015 session.

System Wide Gallons per Capita per Day has decreased fourteen and one half percent (14.5%) from 2012 primarily due to industrial customers using 405 million gallons less in 2013 than in 2012. Commercial irrigation consumption was also down 53 million gallons, or thirteen and six tenths percent (13.6%) from 2012. These data mark a departure from previous years' growth trend in usage presumably driven by prolonged drought conditions, especially for the commercial irrigation customer class.

The Utilities Department continues to pursue important water conservation initiatives including installation of automatic meter reading (AMR) water meters, provide water use evaluations requested by customers, and engage in

educational outreach, namely the annual Children's Water Festival. Water use evaluations requested by residents have increased from 109 in 2008 to 558 in 2013.

Water Main breaks have become more frequent since 2008. Thirty two main breaks occurred in 2008. Thirty six main breaks occurred in 2013. 2009 and 2011 had over forty water main breaks. The overall trend has shown an increase in main breaks as a combination of age, pipe material, and increase in the size of the area served by the water distributions system contribute to the overall increase in main breaks.

### **Water Utility Infrastructure and Capital Improvement Plan (ICIP) Development**

The Utilities Division updates its capital improvement plan concurrent with the annual budget process by which current year capital appropriations are requested pursuant to established departmental priorities for maintaining, expanding, and/or improving water infrastructure and assets. Various departmental plans guide development of the ICIP, including those detailed below. Additionally, asset replacement needs, such as equipment and renovations are also included in the Department's ICIP. Beginning in Fiscal Year 2014, the Water ICIP has focused on capital needs and financing for non-growth related improvements in accordance with the recent series of water rate increases first authorized by the Governing Body in January 2013. The current capital program plans for capital investment necessary to maintain the system at its current size and level of service provision. Notwithstanding, growth related projects have been included in the ICIP as deferred items until such a time when new growth necessitates such improvements and funding is identified.

#### *Water Model:*

The Utilities Division utilizes a water system model to evaluate service outcomes, make decisions regarding the reliability of the system, and to determine water availabilities for new development. The model is updated periodically by staff for new information about the water system, including changes in capacity and demand. A prudent water system operation requires redundancy in the event of unforeseen circumstances, such as a facility failure, to ensure uninterrupted service to the customers (both domestic and commercial service), and fire protection.

#### *Electric Optimization Study*

The Utilities Division and the private operator, OMI are currently working with Bohannon Huston Incorporated (BHI) to evaluate the preliminary findings and recommendations of the Electric Optimization Study. The study was commissioned in late 2012 to analyze current operations and electric utility consumption and options for reducing electrical costs. The Utilities Division expects to finalize recommendations in 2015.

#### *Water Master Plan*

The Water Master Plan was originally developed in 1998 and updated in 2011 as the City Limits Ultimate Development Water System Master Plan by BHI. BHI used the existing water system model as the base for the study. Using projections based on current water use by land usage, the study indicated the city will need 56,000+ acre-feet of water to serve the current city limits at full build-out. By way of comparison the city currently has 26,420 acre-feet of pumping permits from the Office of the State Engineer.

#### *Asset Management Plan:*

The purpose of the Asset Management Plan is to document the current state of system assets, and plans for their repair and/or replacement in order to minimize life cycle costs and provide for an acceptable level of service. The Utilities Division is currently finalizing a 5 year project detailing the status and asset management plans of water and wastewater system equipment. The asset management program will provide an evaluation and decision making mechanism for repair and replacement of assets that considers the risk of asset failure, the cost effectiveness of operations, and the condition and age of assets.

**Developer Contributions**

The city’s Impact Fee Plan and Ordinance, adopted in 2005, establishes a standard level of service stated as average and peak day demand for a single family equivalent (SFE) connector service unit. SFE is a standard measure of use attributable to an individual unit of development and is defined as having the average water use characteristics of a customer with a 5/8” water meter. Customers with a 5/8” water meter constitute approximately eighty eight percent (88%) of all accounts.

Standard Level of Service-Water Utility

<b><u>Average Day Demand</u></b>	
Average Day Demand	340 gallons per day (gpd)
<b><u>Peak Day Demand</u></b>	
Peak Day to Ave. Day Ratio	2.20
Peak Day Demand	750 gpd
<b><u>Peak Hour Demand</u></b>	
Peak Hour to Ave. Day Ratio	3.30
Peak Hour Demand	1,120 gpd
<b><u>Storage Requirements</u></b>	800 gallons

Developers are assessed impact fees or provide physical improvements in lieu of impact fees valued at \$3,264 for a 5/8” meter; \$4,896 for a ¾” meter; \$8,160 for a 1” meter; \$16,320 for a 1 ½’ meter; and \$26,112 for a 2” meter. System level infrastructure improvements are accepted by the city in exchange for impact fee credits granted to developers via development agreements. There are a significant number of water impact fee credits outstanding and the city currently accepts credits for twenty five percent (25%) of assessments generated by annual development activity. Seventeen percent (17%) of assessments generated by annual development activity are collected as revenue, while fifty eight percent (58%) represents foregone resources due to the impact fee moratorium. Effective September 22, 2012, impact fees were reduced by 50 percent (50%) for residential construction and by 100 percent (100%) for non-residential construction for two years. The amount of estimated foregone water impact fee resources for Fiscal Year 2014 as a result of the moratorium was \$1,097,030. The city would have received these impact fees in the form of either assessment revenue or credits.

Developer contributions and dedications since Fiscal Year 2010 include:

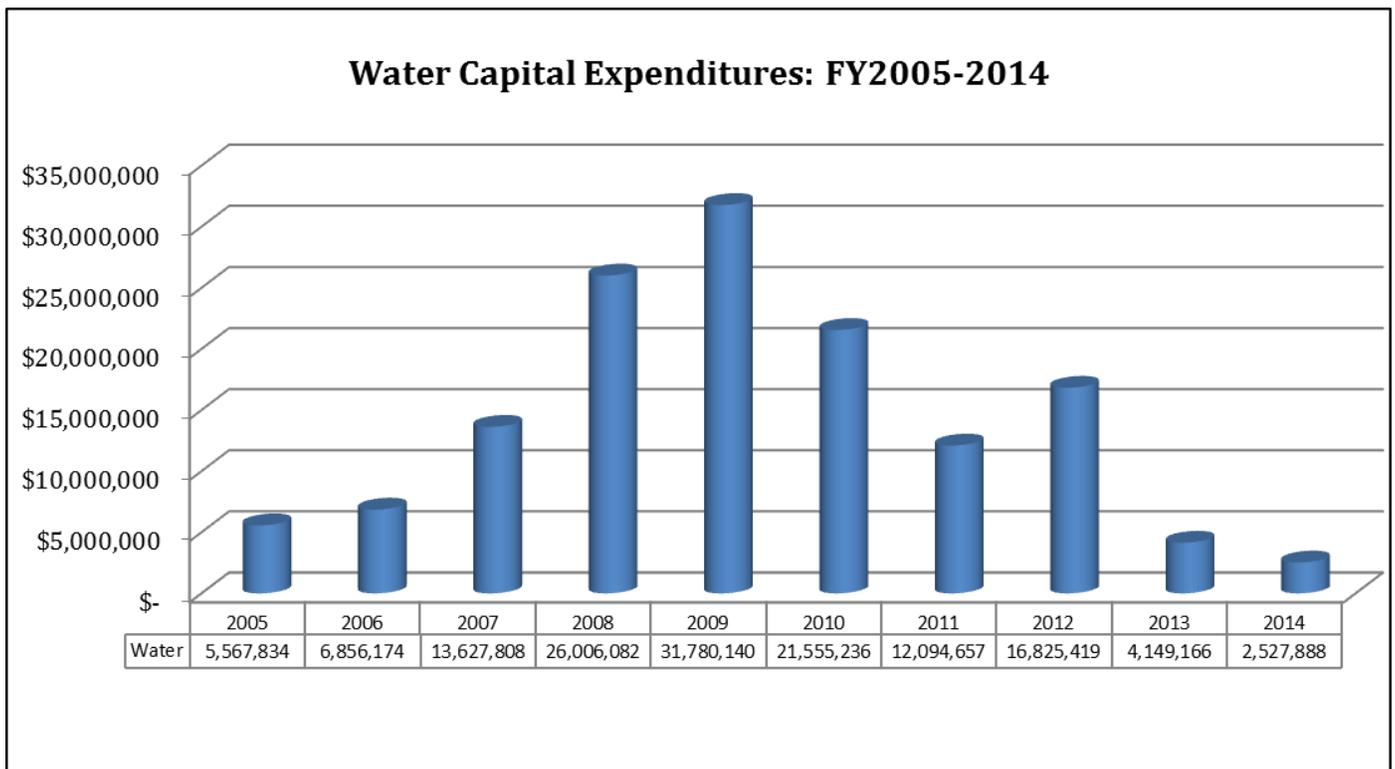
- Northern Meadows (Unit 19): 1.34 miles of water line
- High Range III: 1.29 miles of water line
- Paseo Vulcan Crossing: 0.12 miles of water line
- Diamond Ridge: 1.79 miles of water line
- Cabezon Tract 1A: 0.21 miles of water line
- Cabezon Commons Tract 11: 0.26 miles of water line
- Loma Colorado Realignment: 0.26 miles of water line
- Loma Colorado Water Infrastructure: 0.53 miles of water line
- Joiner Plaza: 0.07 miles of water line
- Cielo Norte I: 1.03 miles of water line
- Cielo Norte II: 0.36 miles of water line
- Plaza @ Enchanted Hills: 0.47 miles of water line
- Gateway Park: 0.072 miles of water line
- Life Spire Senior Living Facility: 0.078 miles of water line
- Loma Colorado Tract 9B: 0.33 miles of water line
- Loma Colorado Prado I&II: 0.31 miles of water line
- Rachel Matthews Corporate Office: 0.036 miles of water line
- UNM/Sandoval County Regional Medical Center: 1.703 miles of water line

- Unser Pavilion: 0.13 miles of water line
- The Village at Rio Rancho: 0.47 miles of water line

**Funding Sources**

Water Utility capital projects are funded through various sources, including:

- Utility Bond and Loan Proceeds
- Utility Net Revenues
- Federal and State Grants
- Water Impact Fees
- Environmental Gross Receipts Tax Revenue
- Water Rights Acquisition Fee



Capital spending for water utility infrastructure topped \$31.8 million in Fiscal Year 2009, however, had declined to eight percent (8%) of its 2009 peak by Fiscal Year 2014. Through Fiscal Year 2011, the capital program was heavily supported by several bond issues pledging the net revenues of the system. These bond issues supported improvements, upgrades, and expansion of the system initially acquired in 1995 from the private sector. The decrease in annual capital investment is due in part to the city having not issued system bonds for capital improvements since 2009. Increase operating costs, due in part to 10 new arsenic treatment facilities coming online in 2010, have severely limited the system’s debt capacity. Effective February 1, 2013, water rates increased by eight and eight tenths percent (8.8%) annually to provide sufficient funds for rising operating and maintenance costs, and to support non-growth related capital projects. On May 22, 2013 the Governing Body amended the increase for Fiscal Year 2014 to seven and eight tenths percent (7.8%) effective July 1, 2013 (O16, Enactment 13-13). In Fiscal Year 2015, the third of five scheduled rate increases took effect July 1, 2014 (O11, Enactment 14-09),

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maintaining the seven and eight tenths percent (7.8%) increase through Fiscal Year 2017. Bolstered by these revenue enhancements, the Utility enterprise anticipates issuing new debt in calendar years 2014 and 2015. Additional fiscal relief is anticipated upon final maturity of debt associated with the initial system acquisition in 2022.

**FY2015-FY2020: ICIP Summary**

Rank Priority	Fund/Project No.	Project Title	Project To Date	2015 Budget	2015 Additional Funding Anticipated	2015 Total	2016	2017	2018	2019	2020	Funding Requested: FY15-FY20	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding
													(A)	(B)	(C)	(D)	(A)+(B)+(C)+(D)
1	WA1244; WA1431; WA1533	Water Rights Acquisitions	\$ 30,973,016	\$ 1,782,904	\$ 2,239,147	\$ 4,022,051	\$ 1,170,149	\$ 1,207,483	\$ 1,246,527	\$ 1,282,398	\$ 1,320,147	\$ 10,248,755	Water Rights Acquisition Fee	Utility Loan Proceeds			
													\$ 10,073,162	\$ 175,593			\$ 10,248,755
2	WA0910; WA1475	New 3 MG Tank @ Enchanted Hills West	\$ 112,440	\$ -	\$ 2,590,095	\$ 2,590,095	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,590,095	Impact Fees-Water	Utility Fund Operating Revenues			
													\$ 44,511	\$ 2,545,584			\$ 2,590,095
3	WA1493	Booster Station and Transmission Line from Tank 8 to Tank 13	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 2,750,000	\$ -	\$ -	\$ -	\$ -	\$ 3,050,000	Utility Fund Operating Revenues	Utility Bond Proceeds			
													\$ 300,000	\$ 2,750,000			\$ 3,050,000
4	WA1492	Redrill Well #13 and Equip for Arsenic Removal	\$ -	\$ 570,000	\$ 260,000	\$ 830,000	\$ 4,700,000	\$ 8,500,000	\$ -	\$ -	\$ -	\$ 14,030,000	Utility Fund Operating Revenues	State Capital Outlay Appropriation	Utility Bond Proceeds		
													\$ 1,400,000	\$ 100,000	\$ 12,530,000		\$ 14,030,000
5	WA1542	Renovate/Paint Water Storage Tanks	\$ -	\$ 411,502	\$ -	\$ 411,502	\$ 423,847	\$ 436,562	\$ 449,659	\$ 463,149	\$ 477,044	\$ 2,661,764	Utility Fund Operating Revenues				
													\$ 2,661,764				\$ 2,661,764
6	N/A	Redrill Well #4 or #5 and Equip for 1,500 gpm with Arsenic Treatment	\$ -	\$ -	\$ 650,000	\$ 650,000	\$ 2,300,000	\$ 8,000,000	\$ -	\$ -	\$ -	\$ 10,950,000	Utility Bond Proceeds				
													\$ 10,950,000				\$ 10,950,000
7	N/A	Redrill and Equip Well #9	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 650,000	\$ 16,981,969	\$ -	\$ -	\$ 17,631,969	To Be Determined				
													\$ 17,631,969				\$ 17,631,969
8	WA1272; WA1347; WA1421; WA1535	SCADA Improvements	\$ 282,691	\$ 100,000	\$ 72,049	\$ 172,049	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 672,049	Utility Fund Operating Revenues				
													\$ 672,049				\$ 672,049



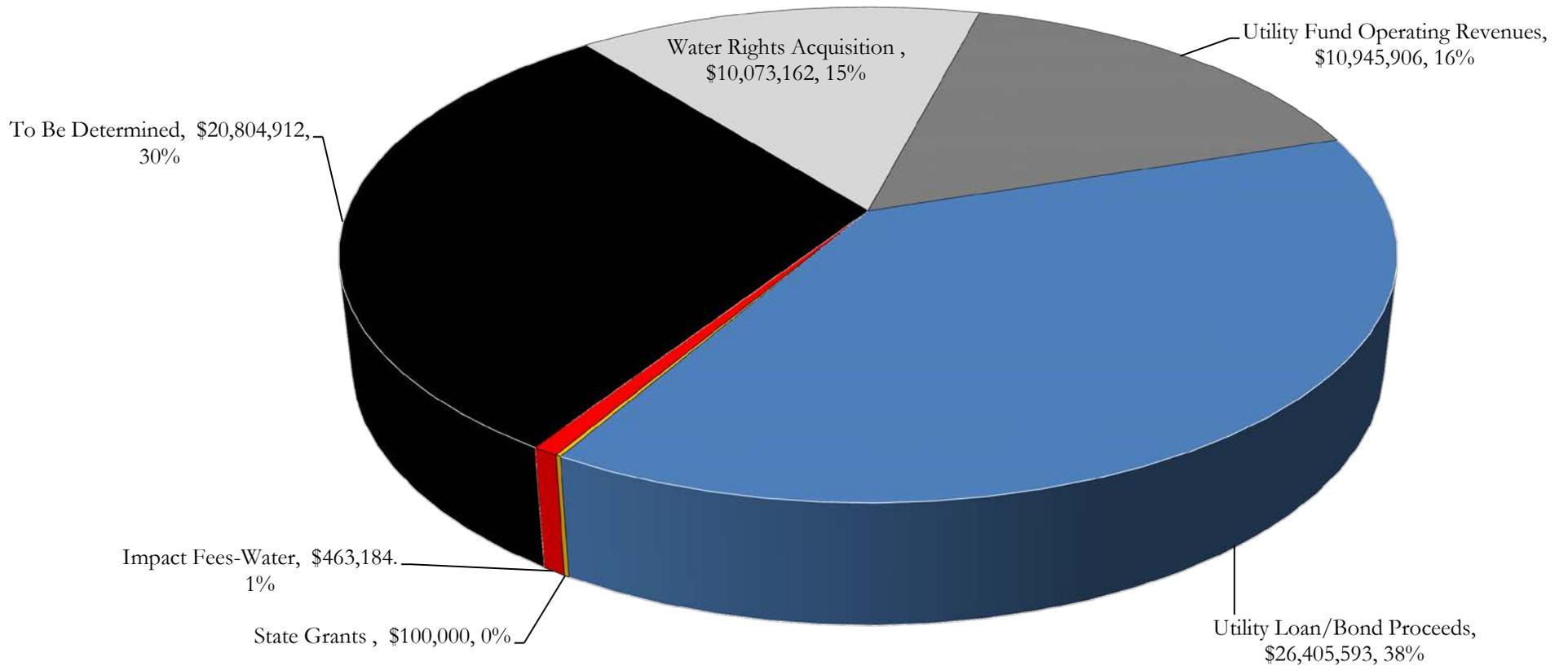
2015-2020 Infrastructure and Capital Improvement Plan  
**Utilities-Water**

**FY2015-FY2020: ICIP Summary**

Rank Priority	Fund/Project No.	Project Title	Project To Date	2015 Budget	2015 Additional Funding Anticipated	2015 Total	2016	2017	2018	2019	2020	Funding Requested: FY15-FY20	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding	
													(A)	(B)	(C)	(D)	(A)+(B)+(C)+(D)	
9	Fund 512	Vehicles and Heavy Equipment	\$ 887,371	\$ 552,896	\$ 26,090	\$ 578,986	\$ 82,000	\$ 232,000	\$ 180,000	\$ 186,000	\$ 410,000	\$1,668,986	Utility Fund Operating Revenues					\$ 1,668,986
10	WA1430; WA1532; WA1543	Well Site Security	\$ -	\$ 295,000	\$ 159,603	\$ 454,603	\$ 129,882	\$ 133,778	\$ 137,792	\$ 141,926	\$ 416,184	\$ 1,414,165	Utility Fund Operating Revenues					\$ 1,414,165
11	Fund 501; WA1427	Major Equipment for Water Production, Treatment, and Distribution	\$ -	\$ 22,257	\$ 13,102	\$ 35,359	\$ 43,000	\$ 43,500	\$ 44,500	\$ 50,000	\$ 67,000	\$ 283,359	Utility Fund Operating Revenues					\$ 283,359
12	N/A	Southern Blvd. Waterline, Finish Well 19 line near Puesta del Sol School	\$ -	\$ -	\$ 400,000	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000	To Be Determined					\$ 400,000
13	WA1065; WA1068; WA1245	Waterline Extension from Paseo Gateway to Enchanted Hills including 4MGPaseo Gateway Water Tank.	\$ 575,801	\$ -	\$ 200,000	\$ 200,000	\$ 2,317,936	\$ 673,680	\$ -	\$ -	\$ -	\$ 3,191,616	Impact Fees-Water	To Be Determined				\$ 418,673
													\$ 2,772,943					\$ 3,191,616

**TOTALS**    \$ 32,831,318    \$ 3,734,559    \$ 6,910,086    \$ 10,644,645    \$ 14,016,814    \$ 19,977,004    \$ 19,140,447    \$ 2,223,473    \$ 2,790,374    \$ 68,792,758

\$ 68,792,758



	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
State Grants		\$ 100,000					\$ 100,000
Impact Fees-Water	\$ 244,511	\$ 218,673					\$ 463,184
To Be Determined	\$ 400,000	\$ 2,099,263	\$ 1,323,680	\$ 16,981,969			\$ 20,804,912
Water Rights Acquisition	\$ 3,846,458	\$ 1,170,149	\$ 1,207,483	\$ 1,246,527	\$ 1,282,398	\$ 1,320,147	\$ 10,073,162
Utility Fund Operating Revenues	\$ 5,328,083	\$ 1,348,729	\$ 945,841	\$ 911,951	\$ 941,075	\$ 1,470,227	\$ 10,945,906
Utility Loan/Bond Proceeds	\$ 825,593	\$ 9,080,000	\$ 16,500,000				\$ 26,405,593
<b>TOTAL</b>	<b>\$ 10,644,645</b>	<b>\$ 14,016,814</b>	<b>\$ 19,977,004</b>	<b>\$ 19,140,447</b>	<b>\$ 2,223,473</b>	<b>\$ 2,790,374</b>	<b>\$ 68,792,758</b>

<b>WATER</b>			
<b>PROJECTS UNDER CONSIDERATION</b>			
<b>Rank</b>	<b>Project Name</b>	<b>Fiscal Year(s)</b>	<b>Project Estimate</b>
14	Lincoln Avenue Waterline Improvements	2015	\$ 285,000
15	Equip Well Site S-27, including Arsenic Treatment, Water Quality Treatment, and new Transmission Main	2017-2018	\$ 15,680,000
16	Re-Drill Well 9 and Equip for 2,400 ac-ft./yr, 4MG Tank and Transmission Line from Main St. to Northern Blvd.	2019-2020	\$ 17,631,969
17	New 4MG Tank 17B	2018-2019	\$ 2,229,579
18	Land Purchases for Future Utilities	2015-2020	\$ 2,693,805
19	Equip Well #18 to Monitor Static Water Level	2019	\$ 125,000
20	Drill Well S-25 and Equip for 3,000 gpm	2019-2020	\$ 16,940,000
21	New 4MG Tank 6C	2019-2020	\$ 3,361,867
22	Enclose #8 Well House	2018-2019	\$ 500,000
23	Upgrade Enchanted Hills East Booster Station	2020	\$ 1,694,055
24	Redrill Well #1	2020	\$ 250,000
25	Drill New Well (Hydrogeology Design)	2020	\$ 250,000
	<b>TOTAL</b>		<b>\$ 61,641,275</b>

**1. PROJECT INFORMATION**

Project Title	Water Rights Acquisitions	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	1
Project Category	Utilities-Water	CIP Year	Recurring Capital Need	Project No.:	WA1244; WA1431; WA1533
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Water Rights Acquisition to satisfy Office of the State Engineer (OSE) 1979 and 2003 permit requirements and to accommodate future growth.

**3. PROJECT JUSTIFICATION**

The City's acquisition liability is approximately 16,000 acre feet within the next 50 years under two (2) OSE permits authorizing diversion (pumping) of up to 24,000 acre feet per year. The 2003 OSE permit requires acquisition of 728 acre feet of water rights every five (5) year period through 2063, beginning at a time when the City reaches 12,000 acre feet of annual consumption (reached in December 2007). The 1979 permit requirement will vary according to water model results of how the City's water consumption affects the Rio Grande River. To date, the City has acquired and applied approximately 4,450.9967 acre feet toward both permit requirements. As such, the City has satisfied its obligation under the 2003 permit for the first three periods, 2008-2012, 2013-2017, and 2018-2022.

**4. PROJECT HISTORY AND STATUS**

Acquisition of water rights since Fiscal Year 2009 has been funded through a combination of Utility Operating Transfers (\$3.2M), Utility Bond Proceeds (\$10.6M), Water Rights Acquisition Fees (\$3M), and two (2) New Mexico Finance Authority Loans (\$13.7M). A total of \$30.5M has been spent to acquire 2,119.02 acre feet since Fiscal Year 2009. This is the equivalent of the planned annual water usage of 8,476 single family households, assuming desert southwest water conservation norms (1/4 acre foot per year). On January 9, 2013, the Governing Body voted to increase the Water Rights Acquisition Fee to \$6 (O35, 12-34), and subsequently authorized submission of a loan application to the New Mexico Finance Authority (R9, 12-008) in the amount of \$4.86M for bulk purchase of an additional 400 acre feet of water rights toward the City's 2023-2027 obligation. The bulk purchase deal fell through in March 2013 and the planned loan will not be pursued at this time. Water rights acquisition fee revenue will accumulate for future water rights purchases and opportunities for bulk purchases are always being sought by the City.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction									\$ -
Construction Management									\$ -
Water Rights Acquisition	Recent City project	\$ 30,973,016	\$ 4,022,051	\$ 1,170,149	\$ 1,207,483	\$ 1,246,527	\$ 1,282,398	\$ 1,320,147	\$ 41,221,772
<b>TOTAL</b>		<b>\$ 30,973,016</b>	<b>\$ 4,022,051</b>	<b>\$ 1,170,149</b>	<b>\$ 1,207,483</b>	<b>\$ 1,246,527</b>	<b>\$ 1,282,398</b>	<b>\$ 1,320,147</b>	<b>\$ 41,221,772</b>

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	542-Water Rights Acquisition Fund	\$ 3,191,257							\$ 3,191,257
Utility Bond Proceeds	572 (07) and 573 (08) Utility Bond Construction Funds	\$ 10,602,133							\$ 10,602,133
Water Rights Acquisition Fee	542-Water Rights Acquisition Fund	\$ 2,473,612	\$ 3,846,458	\$ 1,170,149	\$ 1,207,483	\$ 1,246,527	\$ 1,282,398	\$ 1,320,147	\$ 12,546,775
Enterprise Fund Loan Proceeds	542-Water Rights Acquisition Fund	\$ 14,706,014	\$ 175,593						\$ 14,881,607
<b>TOTAL</b>		<b>\$ 30,973,016</b>	<b>\$ 4,022,051</b>	<b>\$ 1,170,149</b>	<b>\$ 1,207,483</b>	<b>\$ 1,246,527</b>	<b>\$ 1,282,398</b>	<b>\$ 1,320,147</b>	<b>\$ 41,221,772</b>

**1. PROJECT INFORMATION**

Project Title	Enchanted Hills West Tank-3MG	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	2
Project Category	Utilities-Water	CIP Year	FY2014	Project No.:	WA0910; WA1475
Estimated Useful Life	Greater than 25 Years	District Location	Council District 3	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Revise the 2010 construction plans and specifications, and construct a 3 Million Gallon (MG) welded steel water reservoir tank at the Enchanted Hills 12W site.

**3. PROJECT JUSTIFICATION**

The present 2 Million Gallon storage tank has a water leak and has been sealed temporarily. The city needs to revise the plans and specifications for the new 3 Million Gallon water tank and bid, as soon as possible, in order to drain and properly repair the present water tank.

**4. PROJECT HISTORY AND STATUS**

In 2010, Bohannon-Huston completed the plans and specification for a new Enchanted Hills Tank 12 West located adjacent to the existing 2 Million Gallon Enchanted Hill 12 storage tank. The new 3 Million Gallon water tank will be the second water storage tank at this site. The plans have been reviewed by the Public Works Department, who made that determination that a few changes needed to be added to the design, including details for the tank bulkhead door, addition of conduit up the tank staircase, addition of an antenna, and possible changes to site piping. A task order was issued for the construction plan revisions in September 2013 and design was finalized in June 2014. Construction is anticipated in Summer 2015.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Recent City project	\$ 112,440	\$ 25,498						\$ 137,938
Construction	Cost Consultant		\$ 2,364,597						\$ 2,364,597
Construction Management	Cost Consultant		\$ 200,000						\$ 200,000
<b>TOTAL</b>		<b>\$ 112,440</b>	<b>\$ 2,590,095</b>	<b>\$ -</b>	<b>\$ 2,702,535</b>				

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Impact Fees-Water	545 Water Impact Fees Fund	\$ 97,214	\$ 44,511						\$ 141,725
Utility Fund Operating Revenues	540-CIF Water Operations	\$ 15,226	\$ 2,545,584						\$ 2,560,810
									\$ -
									\$ -
<b>TOTAL</b>		<b>\$ 112,440</b>	<b>\$ 2,590,095</b>	<b>\$ -</b>	<b>\$ 2,702,535</b>				

### 1. PROJECT INFORMATION

Project Title	Booster Station and Transmission Line from Tank 8 to Tank 13	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	3
Project Category	Utilities-Water	CIP Year	FY2015	Project No.:	WA1493
Estimated Useful Life	Greater than 25 Years	District Location	Council District 2	Project Request Status	Revised Project Request

### 2. PROJECT DESCRIPTION AND SCOPE

The project consists of installing a new 4 Million Gallon Per Day (MGD) booster station and 18" transmission line between Tank 8 to Tank 13. This includes all necessary appurtenances, including but not limited to air relief valves and pits.

### 3. PROJECT JUSTIFICATION

The booster station at Tank 8 and the transmission line will provide a source of water to Tank 13 and the communities in upper Zone 8 should Well #9 and Well #13 fail. This provides redundancy to the communities in upper Zone 8. Well 13 is currently not operational and needs to be redrilled. There is an urgent need for the booster station in the immediate term since it can be completed much sooner than the redrilling of Well 13.

### 4. PROJECT HISTORY AND STATUS

The need for a booster station at Tank 8 and transmission line to Tank 13 has been known for some time. This is a revised project request. As such, it has risen in priority rank within the Water facility category from No. 14 to No. 3 due to its upgraded importance with the increasing size of communities in the area that would benefit from this project.



### 5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Design and Specifications	Cost Consultant		\$ 300,000						\$ 300,000
Construction	Cost Consultant			\$ 2,750,000					\$ 2,750,000
Construction Management									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 300,000	\$ 2,750,000	\$ -	\$ -	\$ -	\$ -	\$ 3,050,000

### 6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	540-CIF Water Operations		\$ 300,000						\$ 300,000
Utility Bond Proceeds				\$ 2,750,000					\$ 2,750,000
									\$ -
<b>TOTAL</b>		\$ -	\$ 300,000	\$ 2,750,000	\$ -	\$ -	\$ -	\$ -	\$ 3,050,000

**1. PROJECT INFORMATION**

Project Title	Redrill Well #13 and Equip	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	4
Project Category	Utilities-Water	CIP Year	FY2015	Project No.:	WA1492
Estimated Useful Life	Greater than 25 Years	District Location	Council District 1	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Redrill Well 13 to an approximate depth of 2,400 feet and equip the well site to produce 750 gallons per minute (gpm) or more with Arsenic Treatment.

**3. PROJECT JUSTIFICATION**

Well 13 redrill is necessary to replace production capacity lost from the failure of Well 13 in 2013. Well replacement is necessary to ensure adequate water resources to existing and future residents. Well 13 is critical to the citywide water distribution and supply system as it is located at a high elevation and feeds down into the water distribution system to populated areas of the city.

**4. PROJECT HISTORY AND STATUS**

Well 13 was drilled in 1987 and operated until approximately 2013 when the casing developed a hole and sand pumping caused the city to discontinue use of the well. The city will receive a state capital outlay appropriation in Fiscal Year 2015 to "plan, design, construct, and equip" Well 13. Staff is exploring a \$12.5 million loan to finance construction.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant	\$ -	\$ 830,000						\$ 830,000
Construction	Cost Consultant			\$ 4,700,000	\$ 8,500,000				\$ 13,200,000
Construction Management	Cost Consultant								\$ -
Equipment/Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 830,000	\$ 4,700,000	\$ 8,500,000	\$ -	\$ -	\$ -	\$ 14,030,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	540-CIF Water Operations	\$ -	\$ 830,000	\$ 570,000					\$ 1,400,000
State Capital Outlay Appropriation				\$ 100,000					\$ 100,000
Utility Bond Proceeds			\$ 4,030,000	\$ 8,500,000					\$ 12,530,000
									\$ -
<b>TOTAL</b>		\$ -	\$ 830,000	\$ 4,700,000	\$ 8,500,000	\$ -	\$ -	\$ -	\$ 14,030,000

**1. PROJECT INFORMATION**

Project Title	Renovate/Repaint Water Storage Tanks	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	5
Project Category	Utilities-Water	CIP Year	Recurring Capital Need	Project No.:	WA1542
Estimated Useful Life	10 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

The project involves renovation/repainting of existing water storage tanks at varying locations. The following 5 year schedule was established in Fiscal Year 2015. 2015: Tank 3, 2016, Tank 6A, 2017: Tank 8A, 2018: Tank 12, 2019: Tank 9, and 2020: Tank 13. Renovating existing tanks extends the useful life of the tanks.

**3. PROJECT JUSTIFICATION**

Asset preservation is required in order to ensure the city receives the maximum use over the lifetime of the steel reservoirs. Storage tanks are located throughout the city and will benefit multiple council districts.

**4. PROJECT HISTORY AND STATUS**

The city operates and maintains 18 steel reservoirs. This project is ongoing and will occur annually contingent upon availability of funding.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Other		\$ 411,502	\$ 423,847	\$ 436,562	\$ 449,659	\$ 463,149	\$ 477,044	\$ 2,661,764
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 411,502	\$ 423,847	\$ 436,562	\$ 449,659	\$ 463,149	\$ 477,044	\$ 2,661,764

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	540-CIF Water Operations		\$ 411,502	\$ 423,847	\$ 436,562	\$ 449,659	\$ 463,149	\$ 477,044	\$ 2,661,764
									\$ -
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ 411,502	\$ 423,847	\$ 436,562	\$ 449,659	\$ 463,149	\$ 477,044	\$ 2,661,764

**1. PROJECT INFORMATION**

Project Title	Redrill Well #4 or #5 and Equip for 1,500 gpm with Arsenic Treatment	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	6
Project Category	Utilities-Water	CIP Year	FY2015	Project No.:	TBD
Estimated Useful Life	Greater than 25 Years	District Location	Council District 1	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Redrill Well 4 or Well 5 to an approximate depth of 1,000 feet and equip the well site to produce 1,500 gallons per minute (gpm) with Arsenic Treatment.

**3. PROJECT JUSTIFICATION**

Well 4 or 5 redrill is necessary to replace production capacity (approximately 3.5 million gallons per day) lost from the failure of wells 4 and 5. Well replacement is necessary to ensure adequate water resources and redundancy to existing and future residents in the Corrales Heights and 16 East neighborhoods.

**4. PROJECT HISTORY AND STATUS**

Well 4 was drilled in 1969 and operated with good quality water until approximately 2005 when the casing developed a hole and sand pumping caused the City to discontinue use of the well. Well 5 was drilled in 1969 and was used until the 1990's when well failure occurred.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Other		\$ 650,000						\$ 650,000
Construction	Other			\$ 2,300,000	\$ 8,000,000				\$ 10,300,000
Construction Management	Other								\$ -
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ 650,000	\$ 2,300,000	\$ 8,000,000	\$ -	\$ -	\$ -	\$ 10,950,000

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Bond Proceeds			\$ 650,000	\$ 2,300,000	\$ 8,000,000				\$ 10,950,000
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ 650,000	\$ 2,300,000	\$ 8,000,000	\$ -	\$ -	\$ -	\$ 10,950,000

**1. PROJECT INFORMATION**

Project Title	Re-Drill Well 9 and Equip for 2,400 ac-ft./yr, 4MG Tank and Transmission Line from Main St. to Northern Blvd.	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	7
Project Category	Utilities-Water	CIP Year	FY2015	Project No.:	TBD
Estimated Useful Life	Greater than 25 Years	District Location	Council District 1	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Redrill Well 9 and equip the well site to potentially produce 2,000 gallons per minute (gpm) with Arsenic Treatment, 4 million gallon water storage tank, land acquisition, and approximately 19,000 linear feet of water line to City Center Tank.

**3. PROJECT JUSTIFICATION**

Redrill Well 9 to replace the existing well due to poor well design. Well 9 was not drilled straight (dog leg) and the pumps often have electrical issues or mechanical issues due to the well design. Well replacement is necessary to ensure adequate water resources to existing and future residents. Well 9 is critical to the citywide water distribution and supply system as it is located at a high elevation and feeds down into the water distribution system to populated areas of the city.

**4. PROJECT HISTORY AND STATUS**

Well 9 was drilled in 1987. Well 9 was not drilled straight (dog leg) and pumps often have electrical or mechanical issues due to the poor well design. One pump and motor broke off circa 2012, and is currently located at the bottom of the well. The pump and motor typically do not last more than two or three years due to the poor design of the well. Often, the dog leg will pull the electric cord out of the motor during the installation of a new pump and motor.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW	Other			\$ 150,000					\$ 150,000
Design and Specifications	Other			\$ 500,000	\$ 1,900,000				\$ 2,400,000
Construction	Other					\$ 15,081,969			\$ 15,081,969
Construction Management									\$ -
Equipment/ Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ 650,000	\$ 16,981,969	\$ -	\$ -	\$ 17,631,969

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
To Be Determined		\$ -	\$ -	\$ -	\$ 650,000	\$ 16,981,969	\$ -	\$ -	\$ 17,631,969
									\$ -
									\$ -
									\$ -
<b>TOTAL</b>		\$ -	\$ -	\$ -	\$ 650,000	\$ 16,981,969	\$ -	\$ -	\$ 17,631,969

**1. PROJECT INFORMATION**

Project Title	SCADA Improvements	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	8
Project Category	Utilities-Water	CIP Year	Recurring Capital Need	Project No.:	WA1272; WA1347; WA1421; WA1535
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

SCADA improvements will be constructed to improve well automation. This project involves camera and DVR installations for Wells #2,4,7,8,19,21, and 22. Communications nodes will be installed at 7 locations for existing SCADA installations. Additional 144 single mode fiber-optic cable will also be installed with conduit.

**3. PROJECT JUSTIFICATION**

The improvements made to the SCADA and well security systems are an important step in controlling the operations of existing wells for more efficient delivery of water to customers.

**4. PROJECT HISTORY AND STATUS**

This project is a revised project request. As such, the project has risen to No. 8 in priority rank within the Water facility category and \$672,049 in expenditures are planned through Fiscal Year 2020.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Quotes	\$ 282,691	\$ 172,049	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 954,740
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
<b>TOTAL</b>		<b>\$ 282,691</b>	<b>\$ 172,049</b>	<b>\$ 100,000</b>	<b>\$ 954,740</b>				

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	540-CIF Water Operations	\$ 258,475	\$ 172,049	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 930,524
Impact Fees-Water	545 Water Impact Fees Fund	\$ 24,216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,216
									\$ -
<b>TOTAL</b>		<b>\$ 282,691</b>	<b>\$ 172,049</b>	<b>\$ 100,000</b>	<b>\$ 954,740</b>				

**1. PROJECT INFORMATION**

Project Title	Vehicles and Heavy Equipment	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	9
Project Category	Utilities-Water	CIP Year	Recurring Capital Need	Fund/Project No.:	512-0000-505-7015
Estimated Useful Life	10 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

**2. PROJECT DESCRIPTION AND SCOPE**

Vehicles and heavy equipment will be purchased for use in water utility operations. Vehicle and equipment acquisitions planned for Fiscal Year 2015 include an extended backhoe & trailer, a street sweeper, a compressor, and four (4) replacement trucks for the Utility Customer Service, Water Production, Transmission and Distribution, and SCADA divisions. Also, one (1) new truck addition to the fleet will be purchased for the Water Production division. Vehicles and equipment on order in FY14 total \$26,090 for a Utility Customer Service truck replacement. This item has been included in the FY15 capital expenditure plan as a roll over item.

**3. PROJECT JUSTIFICATION**

Vehicles and heavy equipment must be purchased on an annual basis to replace existing aging equipment. Replacement vehicles and heavy equipment purchases are necessary when the repair costs exceed the cost benefit of purchasing new equipment. A detailed vehicle acquisition schedule has been developed by the Utility Department and the annual cost has been incorporated into the Utility Enterprise's 5 Year Financial Plan.

**4. PROJECT HISTORY AND STATUS**

Heavy equipment and new vehicles are needed to repair water main breaks, service line leaks along with other routine maintenance needs.

**5. CAPITAL COSTS**

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction									\$ -
Construction Management									\$ -
Equipment/Vehicle	Other	\$ 887,371	\$ 578,986	\$ 82,000	\$ 232,000	\$ 180,000	\$ 186,000	\$ 410,000	\$ 2,556,357
Other									\$ -
<b>TOTAL</b>		<b>\$ 887,371</b>	<b>\$ 578,986</b>	<b>\$ 82,000</b>	<b>\$ 232,000</b>	<b>\$ 180,000</b>	<b>\$ 186,000</b>	<b>\$ 410,000</b>	<b>\$ 2,556,357</b>

**6. PROPOSED SOURCES OF FUNDING**

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
Utility Funds Operating Revenues	512 Ut Eq Repl Fund	\$ 887,371	\$ 578,986	\$ 82,000	\$ 232,000	\$ 180,000	\$ 186,000	\$ 410,000	\$ 2,556,357
									\$ -
									\$ -
									\$ -
<b>TOTAL</b>		<b>\$ 887,371</b>	<b>\$ 578,986</b>	<b>\$ 82,000</b>	<b>\$ 232,000</b>	<b>\$ 180,000</b>	<b>\$ 186,000</b>	<b>\$ 410,000</b>	<b>\$ 2,556,357</b>

Utilities Department  
FY15 ICIP Fleet Vehicle and Heavy Equipment Detail

Rank	Vehicle #	Vehicle Type	Assignment	Year	Mileage	2015	2016	2017	2018	2019	2020
1	CS137	Ford Ranger	Utility Customer Service	2005	91,900	26,000					
2	UT16	Chevy 1500	Water Production	1997	161,490	25,000					
3	UT30	John Deere 3100 Backhoe	Transmission and Distribution	1993	4931 Hrs	82,800					
4	UT30	Lowboy Trailer	Transmission and Distribution	1986	N/A	20,200					
5	UT114	Gardner-Denver Compressor	Transmission and Distribution	Unknown	N/A	17,550					
6	UT127	Ford F-550	Transmission and Distribution	2004	123,497	65,000					
7	UT141	Ford Panel Van	SCADA	2005	103,489	35,000					
8	New	Ford XLE 4x4	Water Production	N/A	N/A	26,000					
9	New	Ford XLE 4x4	Wastewater	N/A	N/A	26,000					
10	New	Vactor	Wastewater	N/A	N/A	409,520					
11	New	Street Sweeper	Transmission and Distribution	N/A	N/A	255,346					
12	UT124	Chevy 1500	Wastewater	2004	120,125		26,000				
13	UT156	Ford Ranger	Water Production	2007	106,096		26,000				
14	EN20	Ford F-250 Truck	Engineering	2007	122,794		30,000				
15	CS152	Ford Ranger	Utility Customer Service	2006	90,309		26,000				
16	UT118	Ford F-250 Truck	Wastewater	2002	101,774		30,000				
17	UT102	Kenworth Truck Tractor	Wastewater	1989	61,208		50,000				
18	UT124	Chevrolet 1500	Wastewater	2004	120,125		28,000				
19	35A	12CY Dump Truck	Transmission and Distribution	1997	39,117			120,000			
20	UT142	Ford F150	Transmission and Distribution	2005	170,690			26,000			
21	UT145	Chevy Colorado	Water Production	2006	173,522			26,000			
22	UT26	Ford F-250 Truck	Transmission and Distribution	1997	180,257			30,000			
23	UT27	Ford F-250 Truck	Transmission and Distribution	1997	206,859			30,000			
24	UT118	Ford F-150 Truck	Wastewater	2002	101,774				25,000		
25	UT16	Chevy 1500	Water Production	1997	161,490				25,000		
26	UT36	Chevy 1500	SCADA	2008	180,357				25,000		
27	UT145	Chevy Colorado	Water Production	2006	144,113				25,000		
28	UT124	Chevy 1500	Water Production	2004	120,125				25,000		
29	UT146	Ford F350	SCADA	2006	97,199				50,000		
30	UT145	Chevrolet Colorado	Water Production	2006	173,522				30,000		
31	UT147	Ford F-350	Water Production	2006	83,921					45,000	
32	UT163	Dodge Dakota	Transmission and Distribution	2006	95,327					25,000	
33	UT142	Ford F-150 Truck	Transmission and Distribution	2005	170,690					26,000	
34	UT157A	Chevy S10	Wastewater	1995	96,139					26,000	
35	UT35	John Deere Backhoe	Transmission and Distribution	1996	3,844					90,000	
36	UT135-1	Ford F-350	Wastewater	2005	89,633						45,000
37	CS23	Ford Ranger	Utility Customer Service	2008	68,900						30,000
38	CS29	Ford Ranger	Utility Customer Service	2008	66,545						30,000
39	UT134	GAP-VAX	Transmission and Distribution	2004	16,099						350,000
					<b>Total</b>	<b>988,416</b>	<b>216,000</b>	<b>232,000</b>	<b>205,000</b>	<b>212,000</b>	<b>455,000</b>
									<b>FY15-20</b>		<b>2,308,416</b>
					Water	552,896	82,000	232,000	180,000	186,000	410,000
					Wastewater	435,520	134,000	-	25,000	26,000	45,000
					<b>Total</b>	<b>988,416</b>	<b>216,000</b>	<b>232,000</b>	<b>205,000</b>	<b>212,000</b>	<b>455,000</b>

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**Storage, Transmission, and Distribution Projects**

*Enchanted Hills West-Tank 12W (WA1475)*

Design updates to the 2010 construction plans for the project were completed in June 2014. Construction will commence in September 2014 to be completed Spring 2015 utilizing utility operating fund sources. The present 2 million gallon tank has a leak and has been sealed temporarily. The new 3 million gallon tank will add capacity at the Enchanted Hills site, and will temporarily replace the existing tank until a time when it can be renovated.

**Other Major Water Projects**

*Water Rights Acquisition (UT0922, WA0833, WA1145, WA1244, WA1348, and WA1431)*

The city's water rights acquisition liability is approximately 16,000 acre feet within the next 50 years under two Office of State Engineer (OSE) permits authorizing diversion of up to 24,000 acre feet per year. The 2003 OSE permit requires acquisition of 728 acre feet of water rights every five (5) year period through 2063, beginning at a time when the city reaches 12,000 acre feet of annual consumption (reached in December 2007). The 1979 permit requirement will vary according to water model results of how the city's water consumption affects the Rio Grande River. To date, the city has acquired and applied approximately 4,451 acre feet toward both permit requirements. As such, the City has satisfied its obligation under the 2003 permit for the first three periods, 2008-2012, 2013-2017, and 2018-2022.

Acquisition of water rights has been funded through a combination of utility operating revenues, utility bond proceeds, water rights acquisition fees, and two water rights loans entered into in January and December of 2011. The balance of capital funds available for purchase of additional water rights is \$2,239,147, while estimated recurring revenue from the water rights acquisition fee available through Fiscal Year 2020 is \$8 million.

*Vehicle and Heavy Equipment Replacement (512-0000-505-7015)*

Vehicle and heavy equipment acquisition is funded by utility operating fund transfers. In Fiscal Year 2014 a total of \$585,536 has been expended for a 14' Dump Truck, Hydro Excavator, Backhoe Loader, and customer service and transmission and distribution vehicles. The FY15 Budget includes an amount of \$552,896 for Water vehicles and heavy equipment and \$435,620 for Wastewater vehicles and heavy equipment. The Utility Five Year Financial Plan also includes \$1.32 million in Utility Operating Fund transfers for vehicle and equipment acquisition from Fiscal Year 2016 through Fiscal Year 2020.

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