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Meeting Date: May 17, 2017

Staff Contact: David Price, Planning & Engineering Division Manager

**TITLE: C-17-8 – 2018-2027 Decade Plan for Capital Improvements**

**ACTION: Recommend Approval**

**SUMMARY:**

This Water Authority uses asset management principals to schedule renewal of its water and wastewater infrastructure. Those assets with the highest risk are targeted for renewal first. Risk of an asset failure is estimated by multiplying its “probability of failure” by its “consequence of failure.” The Water Authority is employing different evaluation techniques to evaluate the current condition of its different infrastructure assets such as videoing the inside of sewer pipelines and water reservoirs. Based on these condition assessments, more accurate estimates of the probability of failure and useful life of the asset can be determined.

Based on the 2011 Asset Management Study, the Water Authority needs to increase the rate of asset renewal to maintain the level of service accustomed by its rate payers. Proactive renewal of assets is more cost effective (i.e., lower life-cycle cost) than allowing assets to run to failure, which require asset replacement rather than rehabilitation. This is the basis for the capital spending ramp up which the board has approved.

**FISCAL IMPACT:**

Budgeted in Capital Budget and Ten Year Financial Plan.

# ***FY2018 - 2027 Decade Plan Update***



Albuquerque Bernalillo County  
Water Utility Authority

# FY2018-2027 Decade Plan

- Identifies capital projects for next 10 years
- Developed every 2 years
- Direct Link to Water Authority's Financial Plan to proposed capital needs
- Incorporates data and analysis from Asset Management Plan



# ***FY18 – 27 Decade Plan Infrastructure Renewal Budgets***

<b>Asset Renewal Category</b>	<b>FY 18 (\$-million)</b>	<b>FY 19 (\$-million)</b>	<b>FY 18 – 27 (\$-million)</b>
100 Sanitary Sewers	4.8	7.0	141
200 Potable Water Pipelines	8.6	7.6	140
300 Southside Water Reclamation Plant	18.0	19.4	183
400 Soil Amendment Facility	0.1	0.1	1.0
500 Lift & Vacuum Stations	4.1	3.1	32
600 Odor Control Facilities	0.8	0.8	3.5
700 Drinking Water Plant: Groundwater	6.0	4.7	71
800 Drinking Water Plant: Treatment	1.5	4.9	26
900 Non-Potable Water Systems	0.1	0.1	0.7
1000 Compliance Division	0.6	0.2	2.4
1100 Shared Renewal	1.5	1.1	12
1200 Franchise Agreement Compliance	2.0	2.0	20
1300 Vehicles & Heavy Equipment	4.0	4.2	19



# *Southside Water Reclamation Plant Primary Clarifier Renewal*

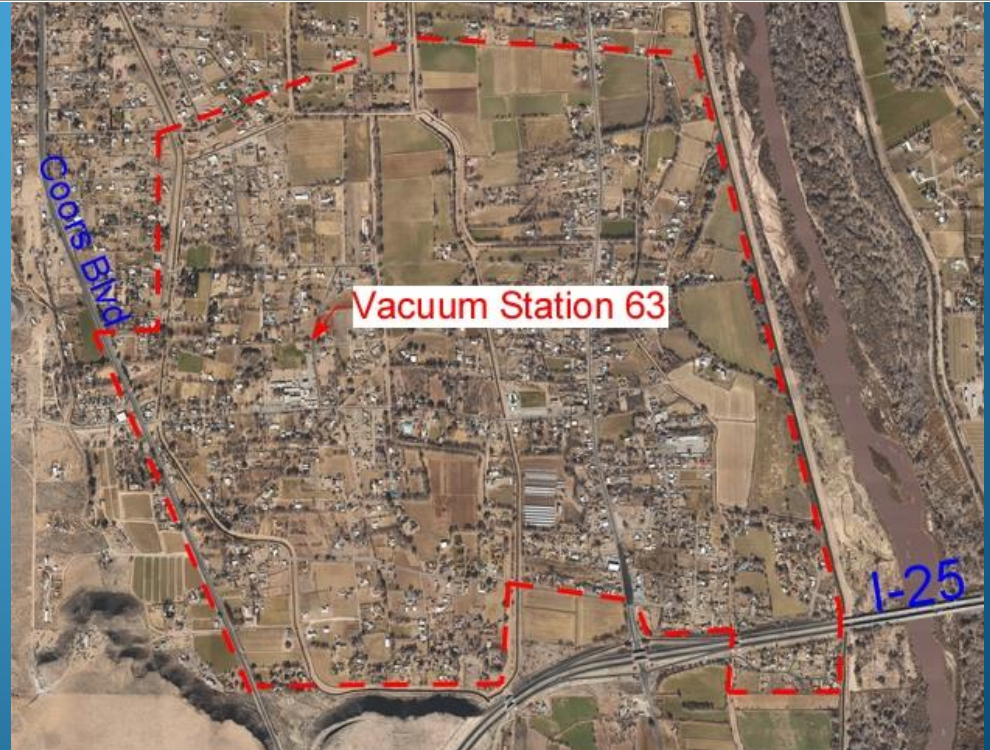
- SWRP has 8 Primary Clarifiers, which can be major sources of odors
- The clarifiers have open tops, so odor control is difficult
- Renewal project currently under design that will include covering the four large primary clarifiers.
- Construction of the first clarifier renewal should be complete in early 2018, remaining three by winter of 2019 - 2020





# *Vacuum Station 63 and Sewage Collection System Renewal Project*

- Vacuum Station 63 serves Los Padillas neighborhood
- One of the oldest vacuum stations; in-service since 1995
- \$1.7-million project currently under construction with scheduled completion in November 2017





# *San Jose Reservoir and Pumping Station Site Restoration*

- San Jose Wells, Reservoir & Pumping Station are permanently out-of-service
- Project would demolish reservoir and buildings



*Questions?*