

# Capital Improvement Program

FY 2016/17  
– 2021/22



## Public Works & Utilities

- Broadband Infrastructure
- Solid Waste Operations
- StarTran
- Street Maintenance Operations
- Streets & Highways
- **Wastewater**
  - Water Supply & Distribution
  - Watershed Management



## Public Works/Utilities - Wastewater

### 0173 Wastewater cost of street construction (GSI)

**Description:**

Support of street construction projects. Wastewater collection system improvements completed during a street construction project

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$692.00

Prior Appropriations \$328.00

Costs Beyond: \$100.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$42.00	\$43.00	\$44.00	\$45.00	\$45.00	\$45.00	\$264.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X

### 0223 Preliminary Design & Engineering (GSI)

**Description:**

Preliminary Design and Engineering Support for Wastewater Projects.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$592.00

Prior Appropriations \$328.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$42.00	\$43.00	\$44.00	\$45.00	\$45.00	\$45.00	\$264.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Preliminary Plans	X	X	X	X	X	X

**0278 Facilities Plan Update (GSI)**

**Description:**

Facilities Plan Update. Provides for updating the Comprehensive Facilities Master Plan for wastewater collection, pumping, and treatment facilities in accordance with the City's comprehensive planning efforts, to accommodate City growth and meet State and Federal regulatory operating requirements.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$580.00

Prior Appropriations \$280.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00	\$300.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Final Plans			X			

**0808 Replace Laboratory Information Management System**

**Description:**

Replacement of the current combination of a third party front end program and Microsoft Access laboratory database with a new laboratory information management system (LIMS). The current system was last modified in 2004 and can no longer be modified. The new system will provide a web based interface allowing mobile access, provides integration with the SCADA system, and more flexible reporting including DMRs.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	12/31/2016
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$100.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Other	X					

## 0815 WW Share of New Water Meters

### Description:

Wastewater share of water meters to serve the growth of the community, in accordance with the Comp Plan. \$0.13-\$0.16 million is projected for new water meters associated with growth and development projects.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$817.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$126.00	\$130.00	\$134.00	\$138.00	\$142.00	\$147.00	\$817.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Equipment	X	X	X	X	X	X

## 0816 WW Share of Water Meter Replacement

### Description:

Wastewater share of projects to replace existing water meters that have served their useful life.

Water meter replacement is generally based on a battery life estimated to be 18 - 22 years for earlier models installed in the late 1990s.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$3,190.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$493.00	\$508.00	\$523.00	\$539.00	\$555.00	\$572.00	\$3,190.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Equipment	X	X	X	X	X	X

## 0853 Sump Pump Program

### Description:

Fund programs for sump pump discharge piping relocations.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$150.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	\$150.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Other	X	X	X	X	X	X

## 0855 WW Treatment Share of Asset Management Software

### Description:

This is wastewater treatments costs for implementation of new asset management software.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	
<b>Budget Goal:</b>	
<b>Date Anticipated:</b>	
<b>Rating:</b>	
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$90.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$90.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Other	X					

**0856 WW Collections Share of Asset Management Software**

**Description:**

This is wastewater collections costs for implementation of new asset management software.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	09/01/2016
<b>Rating:</b>	
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$90.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$90.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Other	X					

**0813 SCADA Software Upgrade**

**Description:**

The current Iconix HMI software is approximately 18 years old and can no longer support the expanded functional requirements of the system. The replacement software will be of current technology and support the current and future needs of the system

<b>Group:</b>	General System Improvements
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$300.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Other		X				

**0737 Replace C-6, C-7,C-13 Liftstation Components**

**Description:**

Existing motor, control centers, and pumps have exceeded their useful life

<b>Group:</b>	Pump Stations
<b>Program:</b>	Oak Creek Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	09/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

**Project Total:** \$160.00

**Prior Appropriations** \$80.00

**Costs Beyond:** \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$80.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

**0281 Selected repair/repl of WW fac/collectors**

**Description:**

Selected Replacement or Repair of Wastewater Facilities and/or Collectors. (700359) Provides for the replacement, reconstruction, and/or repair of wastewater equipment, facilities and/or collectors that have served their useful lives and are in poor condition. Included are repairs to treatment equipment, facilities, collectors and appurtenances. Equipment repairs or replacement will sustain the operation of the wastewater treatment systems. Repairs to the collection system will reduce infiltration and inflow into the system and reduce flows to the treatment facilities. Easements may be required.

Selected Treatment Facility Repairs:

- Repair of TSTP and NETP Structures
- Replacement/Repair of TSTP and NETP Treatment Process Equipment
- Replacement/Repair of Liftstation Structures and Equipment
- Replacement/Repair of Injection Site Equipment
- Replacement/Repair of Storm Water Pump Stations

Selected Collection System repairs:

- Replacement or repair of approximately 30 manholes throughout the system.
- Repair of approximately 45 point sections of sewers of various sizes and locations
- Replacement of sections of sewers of various sizes and locations, 1,800 feet of open trench
- Replacement of sections of sewers of various sizes and locations, 11,400 feet of sewer lining
- Replacement of sections of sewers of various sizes and locations, 1,800 feet of pipe bursting
- Repair of siphons at various locations as necessary

<b>Group:</b>	Select Replace/Repair/Const Wastewater Facilities
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

**Project Total:** \$27,830.00

**Prior Appropriations** \$16,030.00

**Costs Beyond:** \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$1,800.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$11,800.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X



**0721 Subsidies(GSI)**

**Description:**

Funds used to supplement sanitary sewer districts and to upsize lines greater than 8" when developer installs.

<b>Group:</b>	Select Replace/Repair/Const Wastewater Facilities
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$400.00

Prior Appropriations \$100.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$300.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X

**0619 Repair 48" Sewer Pioneers to "O" St (SV)**

**Description:**

Repair 48" Smooth Flow Sewer Pipe from Pioneers Blvd. to O Street This pipe is corrugated steel with an asphalt lining. After 30 years of use this lining is starting to deteriorate and fall off of the steel pipe causing sewer back-ups and corrosion and failure of the steel carrier pipe. This pipe will have to be relined or replaced to provide continued service to the Salt Valley Basin. This is a multiphase project.

<b>Group:</b>	Select Replace/Repair/Const Wastewater Facilities
<b>Program:</b>	Salt Valley Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2022
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$2,350.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$350.00	\$1,000.00	\$1,000.00	\$2,350.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction					X	X
Final Plans				X		

## 0323 Westside Odor Control Improvements (TSTP)

### Description:

Study of odor emissions at TSTP from raw wastewater pump station, grit facility and clarifiers.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/31/2018
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$4,520.00

Prior Appropriations \$320.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$200.00	\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$4,200.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction			X	X		
Final Plans		X				

## 0561 Influent Pumping Upgrades (TSTP)

### Description:

Influent Pumping Improvements (ie: replacement of raw wastewater pumps motors and controls). These units have been in service since 1972 and have reached the end of their useful life.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$3,465.00

Prior Appropriations \$2,265.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X				

**0722 NPDES Nutrient Removal Study**

**Description:**

Study, design, construction of WW infrastructure to meet Nebraska Department of Environmental Quality requirements for nutrient removal from wastewater

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	01/01/2022
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$19,300.00

Prior Appropriations \$300.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00
Utility Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$5,000.00	\$9,000.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction						X
Final Plans					X	

**0723 Bar Screen Replacement TSTP**

**Description:**

Replacement of Bar Screens at the TSTP. The existing screens are 35 years old and have reached the end of their useful life

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$2,050.00

Prior Appropriations \$300.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$1,750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,750.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

**0725 Security Gate at South Entrance TSTP**

**Description:**

Construction of Card Access Security Gate at Southwest Corner of TSTP pending development of Innovation Campus.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$150.00

Prior Appropriations \$50.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

**0727 SCADA/PLC Upgrades**

**Description:**

Replacement of programmable logic control (PLC) systems which serve the SCADA systems at both WWTF's. Originally commissioned in 1997 the system has served its technical life and will be upgraded to current technology with expanded functionality. This project was planned in three phases in an effort to maintain SCADA functionality during the upgrades

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,050.00

Prior Appropriations \$800.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Equipment	X					
Final Plans	X					

**0728 Solids Handling Improvements (Thickening)**

**Description:**

Replacement of existng DAF System. This equipment has reached the end of useful life and should be upgraded to Rotary Drum Thickeners for increased efficiency and reduced energy consumption.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$5,100.00

Prior Appropriations \$4,100.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

**0729 Solids Handling Improvements -Digestion**

**Description:**

Replacement of Protective Coatings on Digesters and Sludge Storage Tank and Cleaning and Reconditioning Inside of the Sludge Storage Tank

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,180.00

Prior Appropriations \$180.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

## 0730 Digester Boiler Installation

### Description:

Install a back-up boiler to provide heat for the digesters to support the digestion of solids. This will replace an inefficient generator currently used to heat the digesters.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,100.00

Prior Appropriations \$600.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X				

## 0731 Liquid Dumpstation Improvements

### Description:

Installation of storage improvements, material handling, metering of quantities, and automated billing

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$750.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X				
Final Plans		X				

**0818 Biogas to Vehicle Fuel Renewable Energy Project**

**Description:**

To provide equipment and facilities for the collection, treatment and distribution of biogas to be used as vehicle fuel. Currently this gas is used to generate electricity through the operation of a cogeneration system consisting two engine generators and heat recovery equipment at the Theresa Street WWTF. This system has been in place for 25 years and has served the City well. This system has reached its useful life and many components are obsolete and no longer supported. The system has also reached its maximum capacity and additional gas production from community growth will result in waste by flaring. A Peer Review Committee was formed and several options were considered from a study completed by HDR Engineering which looked at current technologies, practices, economics and a return on investment (ROI) associated with each option.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2020
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$7,500.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$500.00	\$2,500.00	\$2,500.00	\$2,000.00	\$0.00	\$0.00	\$7,500.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction			X	X		
Final Plans		X				
Preliminary Plans	X					

**0819 UV Disinfection Improvements - Theresa Street WWTF**

**Description:**

Ultraviolet disinfection system improvements (i.e.: replacement of equipment and controls that are no longer supported by the manufacturer without significant upgrades and modifications.) The system requires excessive maintenance and has become unreliable for consistent UV disinfection of the secondary effluent. Effluent disinfection is a Federal and State regulatory requirement

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2019
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,650.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$150.00	\$1,500.00	\$0.00	\$0.00	\$0.00	\$1,650.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction			X			
Final Plans		X				

**0821 Odor Chemical Feed System Improvements - TSTP**

**Description:**

Replacement of distribution piping and valves associated with the chemical wet scrubber system constructed in 2003. The piping has become brittle and prone to failure due to the aggressive nature of the chemicals involved in the process. Additionally the instrumentation is outdated and will also be replaced and updated.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$150.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					
Final Plans	X					

**0822 Grit Classifier Improvements - Theresa Street WWTF**

**Description:**

The existing classifiers and ancillary components of the system constructed in 2003 have reached their useful life in an extreme duty application. Replacement equipment and controls will be an improved design and have a greater service life.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$400.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$400.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					
Final Plans	X					



**0823 A3 Elevator Replacement Theresa Street WWTF**

**Description:**

The passenger elevator is 44 years old, contains all original components, and has greatly exceeded useful life. At the present time this elevator does not comply with current code and has operational issues due to age. The elevator needs to be upgraded for dependability reasons and for code compliance.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Theresa Street Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$150.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$150.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Equipment	X					

**0470 Emergency Generator Installation (NETP)**

**Description:**

Installation of an Emergency Generator to provide power for critical loads during an electrical power outage. There is not current emergency generation available at the Northeast Treatment Facility. This unit would be a black start unit driven by a natural gas engine. This unit could also be used during peak loading conditions to reduce peak electrical demand charges imposed by the Lincoln Electric System.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$900.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$150.00	\$750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X				
Final Plans	X					

**0732 NPDES Nutrient Removal Study, design, construct**

**Description:**

Study, design, and construction of infratruceee system to remove nutrients required by Nebraska Department of Environmental Quality

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2022
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,250.00

Prior Appropriations \$50.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$1,000.00	\$1,200.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction						X
Final Plans				X		

**0733 Odor Control Chemical Feed System Replacement**

**Description:**

Existing System has reached the end of it's useful life and should be replaced for efficient and effective operation.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$125.00

Prior Appropriations \$75.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					

## 0736 Replace Two Raw-wastewater Pumps

### Description:

Existing pumps, motors, and variable speed drives have reached the end of their useful life should be replaced, 25 years old

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2019
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,300.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$650.00	\$650.00	\$0.00	\$0.00	\$0.00	\$1,300.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X			

## 0817 NE WWTF Solids Handling Improvements

### Description:

To provide solids dewatering equipment and facilities to enhance the options for land application of biosolids as generated at the treatment facility. The improvements would allow for the dewatering of biosolids and would expand the existing land application program for beneficial reuse by area farm cooperators. Currently biosolids are land applied in liquid form to city owned farm ground and by contractor application to privately owned farm ground. Nutrient limitations and seasonal requirements with contract applications have become restrictive and the current methods cannot be sustained.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2019
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$4,750.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$2,500.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$4,500.00
Utility Revenues	\$250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X			
Final Plans		X				
Preliminary Plans	X					

## 0820 UV Disinfection Improvements - Northeast WWTF

### Description:

Ultraviolet disinfection system improvements (i.e.: replacement of equipment and controls that are no longer supported by the manufacturer without significant upgrades and modifications.) The system requires excessive maintenance and has become unreliable for consistent UV disinfection of the secondary effluent. Effluent disinfection is a Federal and State regulatory requirement.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2021
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,100.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$100.00	\$1,000.00	\$0.00	\$1,100.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction					X	
Final Plans				X		

## 0829 Methane Gas Storage NETP

### Description:

Replacement of existing membrane storage system installed in 2002 that has exceeded its useful life and can no longer be safely used. Methane storage is beneficial to sustained use of digester gas to heat the biological digestion process and to provide building heat to several buildings.

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	Northeast Treatment Facility
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$275.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$275.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$275.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					
Final Plans	X					

## 0566 Wastewater Construction Projects for New Growth

### Description:

Construction of new trunk sewers and sub-basin collection systems to serve new areas or provide additional service capacity to existing areas. Design, easement/right-of-way, and construction costs are included. Construction of Treatment Plant growth related projects are included. Projects are determined on an as needed and fund availability basis. Rate increases will be required to support this construction.

\$0.25 million will be set aside each year for economic development projects.

Eligible projects include projects such as:

Extension of main from approx. 95th & O St to SW, \$500.0 - 2016  
 Extension of sub basin main between Holdrege and O, 112th to 105th, \$250.0 - TBD  
 Extension of sub basin main in Stevens Creek to 98th & Van Dorn, \$1,000 - 2018/19  
 Extension of main from 84th & Rokeby Rd east, \$400.0 - TBD  
 Extension of internal mains I-80 to W. Holdrege, NW 48th to NW 56th, \$322.0 - TBD  
 N 84th to N 112th & Cornhusker HWY - Extend Trunk Sewer - \$6,980.0 - TBD  
 Trunk Line Alignment Studies

**Project Total:** \$12,932.00

**Prior Appropriations** \$4,932.00

**Costs Beyond:** \$0.00

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	In Conformance With Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Impact Fee Revenues	\$0.00	\$350.00	\$400.00	\$450.00	\$500.00	\$500.00	\$2,200.00
Utility Revenues	\$500.00	\$150.00	\$600.00	\$1,550.00	\$1,500.00	\$1,500.00	\$5,800.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X

## 0826 Salt Creek Sanitary Trunk Sewer

### Description:

Design of the Salt Valley Trunk Line from S. 27th and Rokeby to S. 27th and Saltillo. Meets development needs as outlined in the City's Comprehensive Plan.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2023
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

**Project Total:** \$250.00

**Prior Appropriations** \$0.00

**Costs Beyond:** \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250.00	\$250.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Preliminary Plans						X

**0617 Trunk Sewer SW Salt Creek (SW Village) (SV)**

**Description:**

Extend trunk sewer from S. 7th and Old Cheney to S 1st and W Denton Rd. The trunk line will serve the Tier I area generally bounded by Hwy 77, Pioneers, SW 12th and W. Denton Rd. Currently served by Temporary Lift station. Extending of the described trunk sewer provides for meeting future growth and development needs of the City as outlined in the City's Comprehensive plan. Alignment and design study is underway. Annexation Agreement Commitment.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	Salt Valley Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/13/2022
<b>Rating:</b>	B
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$5,600.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$500.00	\$2,550.00	\$2,550.00	\$0.00	\$5,600.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction				X	X	
Final Plans			X			

**0824 Oak Creek Sanitary Trunk Sewer**

**Description:**

Extension of the sanitary sewer from new construction at runway to NW 41st and Mathis. Provides for future growth capacity and replaces the current deteriorating and undersized trunk line. Meets development needs as outlined in the City's Comprehensive Plan.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	Oak Creek Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2019
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$2,900.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,900.00	\$2,900.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction						X

## 0825 Beal Slough Sanitary Trunk Sewer

### Description:

Continuation of parallel trunk line project along Hwy 2 from S. 33rd to S. 56th. Provides capacity for future growth in developing SE Lincoln. Meets development needs as outlined in the City's Comprehensive Plan.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	Beals Slough Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2018
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$5,150.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$2,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,800.00
Utility Revenues	\$2,350.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,350.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X				

## 0827 Stevens Creek Sanitary Trunk Sewer

### Description:

Extension of the Stevens Creek Trunk line from Holdrege and N. 106th to 120th and A St, and subbasin line from 120th and A Street to 98th and Van Dorn. Meets development needs as outlined in the City's Comprehensive Plan.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	Stevens Creek Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2020
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total:\$7,250.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$250.00	\$6,000.00	\$0.00	\$0.00	\$0.00	\$6,250.00
Utility Revenues	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$1,000.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction			X			
Preliminary Plans		X				

0828 West A Sanitary Trunk Sewer

**Description:**

Upsizing and parallel of existing West A trunk line to provide for additional capacity for existing and future growth. Meets development needs as outlined in the City's Comprehensive Plan.

<b>Group:</b>	Trunk Sewer System
<b>Program:</b>	Middle Creek Basin
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Effectively manage wastewater and solid waste
<b>Date Anticipated:</b>	08/01/2017
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	In Conformance With Plan

Project Total: \$500.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00

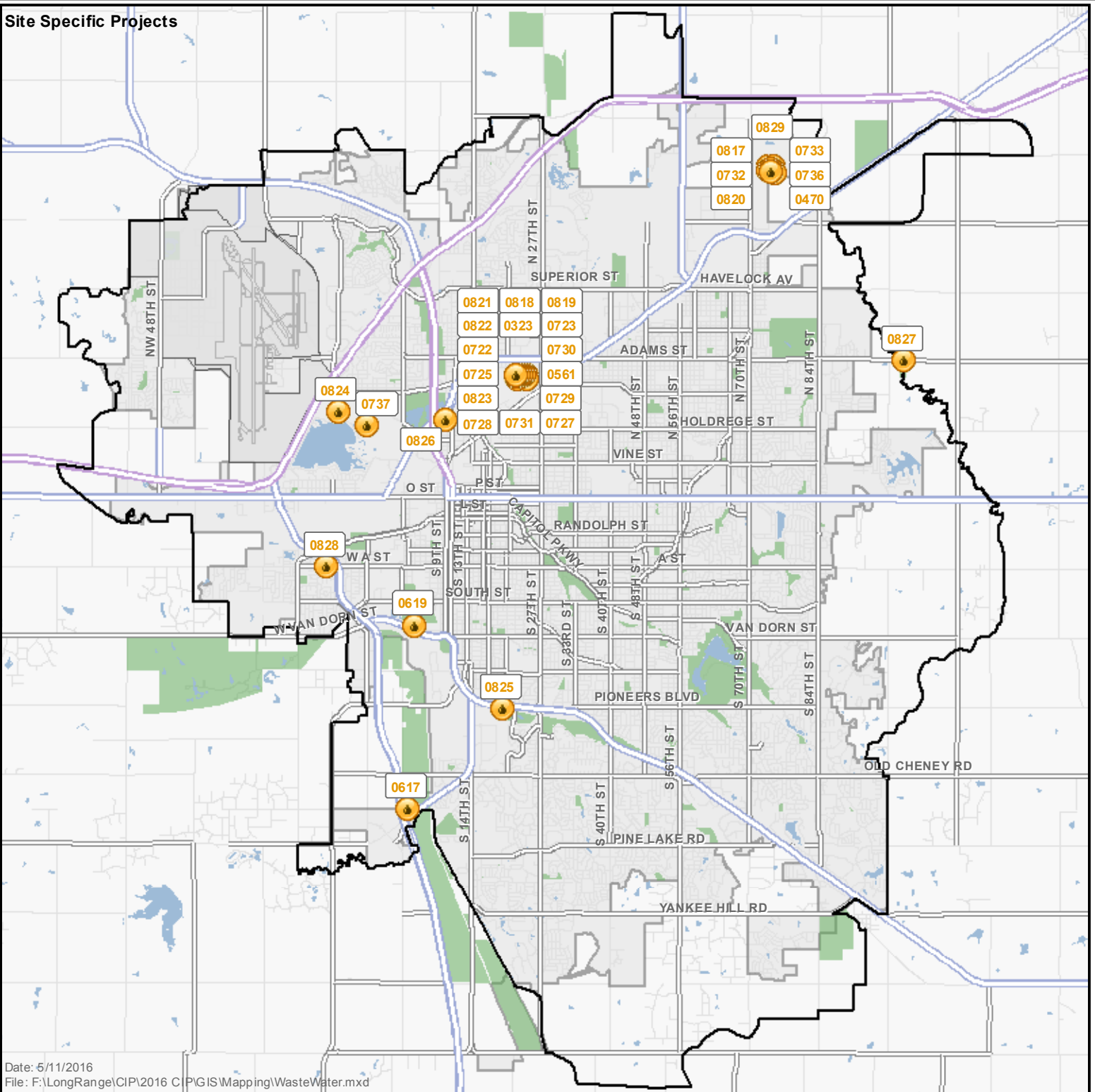
**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					



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Site Specific Projects



Date: 5/11/2016  
 File: F:\LongRange\CIP\2016 CIP\GIS\Mapping\WasteWater.mxd

# Lincoln CIP 2016 - 2022

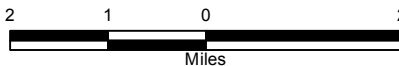
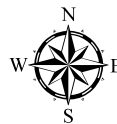
## WasteWater



Project Locations

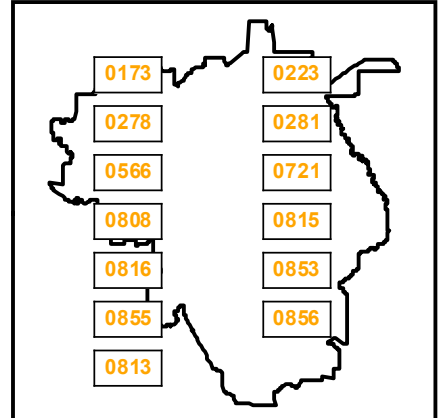
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Last 4 digits of project number  
 Lincoln's Future Service Limit  
 Shown as Black Outline



Consult the detailed project descriptions  
 and funding summary for further information.

### Projects with Citywide Benefit



## Funding Summary - By Project

\* Amounts are in thousands of dollars

### Public Works/Utilities - Wastewater

Project Title	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
0173 Wastewater cost of street construction (GSI)	42.00	43.00	44.00	45.00	45.00	45.00	\$264.0
0223 Preliminary Design & Engineering (GSI)	42.00	43.00	44.00	45.00	45.00	45.00	\$264.0
0278 Facilities Plan Update (GSI)	0.00	0.00	300.00	0.00	0.00	0.00	\$300.0
0808 Replace Laboratory Information Management	100.00	0.00	0.00	0.00	0.00	0.00	\$100.0
0815 WW Share of New Water Meters	126.00	130.00	134.00	138.00	142.00	147.00	\$817.0
0816 WW Share of Water Meter Replacement	493.00	508.00	523.00	539.00	555.00	572.00	\$3,190.0
0853 Sump Pump Program	25.00	25.00	25.00	25.00	25.00	25.00	\$150.0
0855 WW Treatment Share of Asset Management Software	90.00	0.00	0.00	0.00	0.00	0.00	\$90.0
0856 WW Collections Share of Asset Management Software	90.00	0.00	0.00	0.00	0.00	0.00	\$90.0
0813 SCADA Software Upgrade	0.00	300.00	0.00	0.00	0.00	0.00	\$300.0
0737 Replace C-6, C-7,C-13 Liftstation Components	80.00	0.00	0.00	0.00	0.00	0.00	\$80.0
0281 Selected repair/repl of WW fac/collectors	1,800.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	\$11,800.0
0721 Subsidies(GSI)	50.00	50.00	50.00	50.00	50.00	50.00	\$300.0
0619 Repair 48" Sewer Pioneers to "O" St (SV)	0.00	0.00	0.00	350.00	1,000.00	1,000.00	\$2,350.0
0323 Westside Odor Control Improvements (TSTP)	0.00	200.00	2,000.00	2,000.00	0.00	0.00	\$4,200.0
0561 Influent Pumping Upgrades (TSTP)	0.00	1,200.00	0.00	0.00	0.00	0.00	\$1,200.0
0722 NPDES Nutrient Removal Study	0.00	0.00	0.00	0.00	4,000.00	15,000.00	\$19,000.0
0723 Bar Screen Replacement TSTP	1,750.00	0.00	0.00	0.00	0.00	0.00	\$1,750.0
0725 Security Gate at South Entrance TSTP	100.00	0.00	0.00	0.00	0.00	0.00	\$100.0
0727 SCADA/PLC Upgrades	250.00	0.00	0.00	0.00	0.00	0.00	\$250.0
0728 Solids Handling Improvements (Thickening)	1,000.00	0.00	0.00	0.00	0.00	0.00	\$1,000.0
0729 Solids Handling Improvements -Digestion	1,000.00	0.00	0.00	0.00	0.00	0.00	\$1,000.0

## Funding Summary - By Project

\* Amounts are in thousands of dollars

		2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
0730	Digester Boiler Installation	0.00	500.00	0.00	0.00	0.00	0.00	\$500.0
0731	Liquid Dumpstation Improvements	0.00	750.00	0.00	0.00	0.00	0.00	\$750.0
0818	Biogas to Vehicle Fuel Renewable Energy Project	500.00	2,500.00	2,500.00	2,000.00	0.00	0.00	\$7,500.0
0819	UV Disinfection Improvements - Theresa	0.00	150.00	1,500.00	0.00	0.00	0.00	\$1,650.0
0821	Odor Chemical Feed System Improvements - TSTP	150.00	0.00	0.00	0.00	0.00	0.00	\$150.0
0822	Grit Classifier Improvements - Theresa Street WWTF	400.00	0.00	0.00	0.00	0.00	0.00	\$400.0
0823	A3 Elevator Replacement Theresa Street WWTF	150.00	0.00	0.00	0.00	0.00	0.00	\$150.0
0470	Emergency Generator Installation (NETP)	150.00	750.00	0.00	0.00	0.00	0.00	\$900.0
0732	NPDES Nutrient Removal Study, design, construct	0.00	0.00	0.00	200.00	0.00	1,000.00	\$1,200.0
0733	Odor Control Chemical Feed System Replacement	50.00	0.00	0.00	0.00	0.00	0.00	\$50.0
0736	Replace Two Raw-wastewater Pumps	0.00	650.00	650.00	0.00	0.00	0.00	\$1,300.0
0817	NE WWTF Solids Handling Improvements	250.00	2,500.00	2,000.00	0.00	0.00	0.00	\$4,750.0
0820	UV Disinfection Improvements - Northeast	0.00	0.00	0.00	100.00	1,000.00	0.00	\$1,100.0
0829	Methane Gas Storage NETP	275.00	0.00	0.00	0.00	0.00	0.00	\$275.0
0566	Wastewater Construction Projects for New Growth	500.00	500.00	1,000.00	2,000.00	2,000.00	2,000.00	\$8,000.0
0826	Salt Creek Sanitary Trunk Sewer	0.00	0.00	0.00	0.00	0.00	250.00	\$250.0
0617	Trunk Sewer SW Salt Creek (SW Village) (SV)	0.00	0.00	500.00	2,550.00	2,550.00	0.00	\$5,600.0
0824	Oak Creek Sanitary Trunk Sewer	0.00	0.00	0.00	0.00	0.00	2,900.00	\$2,900.0
0825	Beal Slough Sanitary Trunk Sewer	2,350.00	2,800.00	0.00	0.00	0.00	0.00	\$5,150.0
0827	Stevens Creek Sanitary Trunk Sewer	0.00	250.00	7,000.00	0.00	0.00	0.00	\$7,250.0
0828	West A Sanitary Trunk Sewer	500.00	0.00	0.00	0.00	0.00	0.00	\$500.0
<b>Department Totals:</b>		<b>12,313.00</b>	<b>15,849.00</b>	<b>20,270.00</b>	<b>12,042.00</b>	<b>13,412.00</b>	<b>25,034.00</b>	<b>\$98,920.0</b>

## Funding Summary - By Project

\* Amounts are in thousands of dollars

### Funding Sources

Fund Source	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
Impact Fee Revenues	\$0.0	\$350.0	\$400.0	\$450.0	\$500.0	\$500.0	\$2,200.0
Revenue Bonds	\$0.0	\$7,400.0	\$8,650.0	\$0.0	\$0.0	\$10,000.0	\$26,050.0
Utility Revenues	\$12,313.0	\$8,099.0	\$11,220.0	\$11,592.0	\$12,912.0	\$14,534.0	\$70,670.0
	<b>\$12,313.0</b>	<b>\$15,849.0</b>	<b>\$20,270.0</b>	<b>\$12,042.0</b>	<b>\$13,412.0</b>	<b>\$25,034.0</b>	<b>\$98,920.0</b>

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