



# **City of Grand Island**

**Tuesday, July 24, 2012**

**Study Session**

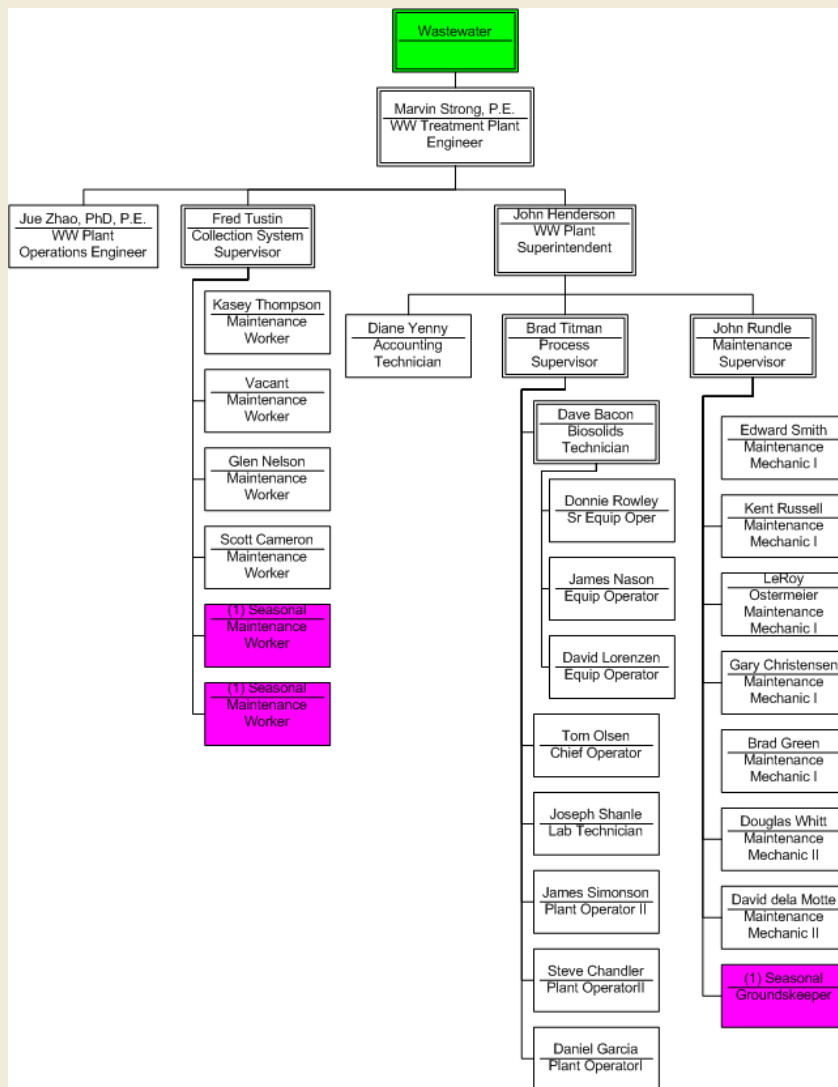
## **Item -1**

### **Presentation of 2013 Wastewater Budget**

**Staff Contact: John Collins, Public Works Director**

# Wastewater Budget 2013

## Enterprise Fund



WWTP Engineer  
 WWTP Operations Engineer  
 WWTP Superintendent  
 WWTP Process Supervisor  
 Biosolids Technician  
 Lab Technician  
 Accounting Technician  
 Collection System Supervisor  
 Collection System Employees = 4 (2 seasonal)  
 Maintenance Supervisor  
 Maintenance Employees = 7 (1 seasonal)  
 Operators = 7

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TOTAL EMPLOYEES = 27 FULL TIME  
 (3 SEASONAL)

\*Average Length of Employment = 12.74 years

\*\*Greatest Length of Employment = 36 years





## Funding Sources

### Operating Revenue:

 Sewer Assessments:	\$ 90,000
 Sewer Revenue:	\$ 9,500,000
 Sewer Tap Fee	\$ 3,000
 Sewer Assessment Interest:	\$ 6,000
 Other Revenue:	\$ 494,935
 State Revolving Fund Loan	\$ 3,500,000
 Bond Proceeds:	<u>\$16,200,000</u>
Total:	<b>\$29,793,935</b>



## General Operations

 Staff:	\$ 290,805
 Operating:	\$1,293,248
 Debt Service:	<u>\$2,156,285</u>
 Total:	<b>\$3,740,338</b>

## Treatment Plant

### ☛ Treatment, Compost & Capital

☛ Staff: \$ 1,691,164

☛ Operating: \$ 1,852,650

☛ Capital: \$ 4,066,494

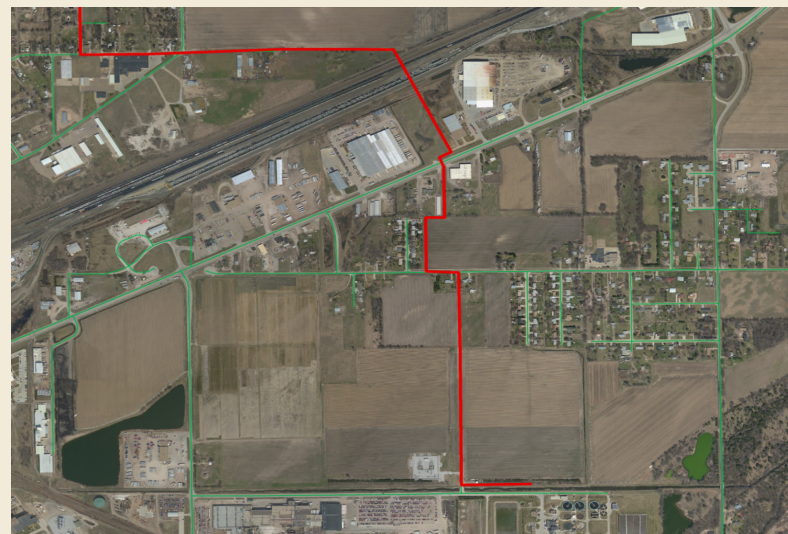
☛ Total: \$ **7,610,308**







## Collections

### Collection & Capital





Staff:	\$ 493,999
Operating:	\$ 480,389
Capital:	<u>\$14,461,458</u>
Total:	<b>\$15,435,846</b>



## Expenditure Totals

 General:	\$ 3,740,338
 Treatment:	\$ 7,610,308
 Collections:	\$ <u>15,435,846</u>
 Total:	\$ <b>26,786,492</b>

## Overview

 Beginning Cash Balance:	\$ 5,524,538
 Revenue:	\$ 29,793,935
 Expenditures:	\$ <u>26,786,492</u>
 Ending Cash Balance:	\$ 8,531,981

## 2013 Wastewater Capital Projects

Total Project Cost

City Share

2013 Budget

### Collection System Improvements

Community Development Block Grant Funding (CDBG)			
Platte Valley Industrial Park - East	\$ 585,185	\$ 158,000	\$ 101,239
Lift Station 7 Repairs/Improvements	\$ 1,132,471	\$ 328,971	\$ 803,500
<b>Total CDBG Funding</b>			\$ 904,739
State Revolving Loan (SRF)			
Wildwood Subdivision	\$ 1,452,000	\$ 1,452,000	\$ 1,452,000
I-80 Interchange	\$ 2,048,000	\$ 2,048,000	\$ 2,048,000
<b>Total SRF</b>			\$ 3,500,000
Wastewater Funding			
Lift Station 7 Repairs/Improvements after CDBG funding	Listed Above	Listed Above	\$ 328,971
North Interceptor Phase 1A	\$ 2,376,000	\$ 2,376,000	\$ 2,376,000
North Interceptor Phase 1B	\$ 6,923,501	\$ 6,923,501	\$ 2,323,087
North Interceptor Phase 2	\$ 16,955,677	\$ 16,955,677	\$ 300,000
South/West Interceptor Rehabilitation Phase 1	\$ 4,139,045	\$ 4,139,045	\$ 935,000
4th - 5th Eddy - Vine after CDBG funding	\$ 1,898,400	\$ 1,898,400	\$ 1,898,400
Westwood Subdivision	\$ 700,000	\$ 700,000	\$ 700,000
Husker Highway	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
Sanitary Sewer Rehabilitation	\$ 350,000	\$ 350,000	\$ 350,000
Unknown Sewer Districts	\$ 250,000	\$ 250,000	\$ 250,000
			\$ 10,961,458
		CDBG Funding	\$ (904,739)
<b>Total Collection Improvements</b>			<b>\$ 14,461,458</b>

### Plant Improvements

Buildings, Vehicles, Machinery & Equipment	\$ 142,000	\$ 142,000	\$ 142,000
Aeration Basin	\$ 4,969,149	\$ 4,969,149	\$ 178,787
Headworks	\$ 17,762,000	\$ 17,762,000	\$ 1,957,457
Final Clarifier Repair	\$ 850,000	\$ 850,000	\$ 850,000
Third Primary Clarifier and Fourth Secondary Clarifier	\$ 663,250	\$ 663,250	\$ 663,250
Automation	\$ 100,000	\$ 100,000	\$ 100,000
RAS Pumps	\$ 175,000	\$ 175,000	\$ 175,000
<b>Total Plant Improvements</b>			<b>\$ 4,066,494</b>

<b>Total Improvements</b>			<b>\$ 18,527,952</b>
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## 2013 Capital Projects

### State Revolving Funds (SRF) Funded Projects

#### Wildwood Subdivision

Sanitary Sewer District No. 528 [\$1,452,000]

Commercially Developed Subdivision on the  
South US Highway 281/I-80 Corridor.

#### Sanitary Sewer Extension; US Hwy 281 to I-80

Sanitary Sewer Tap / SID District(s) [\$2,048,000]

Continued Development in Grand Island's US  
Hwy-281 Interchange and Community Corridor.

## **Community Development Block Grant (CDBG) Funded Projects**

### Platte Valley Industrial Park - East

Sanitary Sewer District No. 527 [\$101,239]

Continued Development within Industrial Park on  
the South US Highway 281/I-80 Corridor.



## Community Development Block Grant (CDBG) Funded Projects

### Lift Station No. 7 Repairs / Improvements

Project(s) 2011-S-1, and 2011-S-1A [\$1,132,471]

Disaster Relief Project; Developed Community Flow  
Characteristic to a Systems Designed Pumping  
Station. \$803,500 in CDBG funds have been  
approved

## Gravity Sewer Interceptor Rehabilitation

### North Interceptor

Phase 1A; Seedling Mile Rd. to WWTP [\$2,376,000]

Replacement; 3,630 Linear Feet in 54 inch  
Diameter Gravity Sewer Interceptor.

(Bid, August 2012)

Phase 1B; 7<sup>th</sup> St. to Seedling Mile Rd. [\$2,323,087]

Replacement; 4,520 Linear Feet in 54 inch  
Diameter Gravity Sewer Interceptor.

(Bid, February 2013 )

## **Gravity Sewer Interceptor Rehabilitation (Cont.)**

Phase 2; Diers Ave. (LS #19) to 7<sup>th</sup> St. [\$300,000]

Routing Preliminary and Final Design documents

Coordination with Capital Ave. Improvements

(Bid, February 2015)

### South and West Interceptor


Phase 1; Lining Systems. [\$935,000 ]

2,287 Linear Feet in 30 Inch Diameter, and 1,384

Linear Feet in 27 Inch Diameter Gravity Sewer

Interceptor. (Bid, February 2013)

## Gravity Sanitary Sewer Collection System

 4<sup>th</sup> St. to 5<sup>th</sup> / Eddy to Vine

Lining System and new Gravity Sewer. [\$1,898,400]

Lining System; 3,750 Linear Feet in 15 Inch Diameter Gravity Sewer Main.

New Sewer Main; 3,920 Linear Feet in 18 Inch Diameter Gravity Sewer.

Eliminates Lift Station No. 14 (Broadwell Park)  
(Bid, August 2012)

A portion of this project may be eligible for CDBG funding.

## **Gravity Sanitary Sewer Collection System (Cont.)**

### Westwood Subdivision

Sanitary Sewer District No. 529 [\$700,000]

Residential Developed Subdivision West of North Road, and South of 13<sup>th</sup> Street, Serving Sweetwood Dr., Greenwood Dr., and Driftwood Dr. (Bid, July 2012)

### Husker Highway Sanitary Sewer Extension

Sanitary Sewer Tap District No. 531 [\$1,500,000]

Residential Developed Subdivision(s) between North Rd. and Engleman Rd. on North Rd., Serving Fairway Crossing Subdivision, and 550 Acres in Potential Undeveloped Land.

## Gravity Sanitary Sewer Collection System (Cont.)

Annual Sewer Rehabilitation [\$350,000] – Sewer Mains, and Manholes Life Cycle Reconditioning.

Sewer Districts – [\$250,000] – Construct Sewer Mains in Newly Established Sewer Districts.

## Treatment Plant

☞ Capital Outlay ; Buildings, Vehicles, Machinery & Equipment [\$142,000]

☞ Return Activated Pumps (RAS) [\$175,000]

☞ Aeration Basin

Project WWTP-2010-3 [\$178,787]

Continued Improvements in Facility Power Demand, Secondary Treatment Systems for Carbon Sourced, Ammonia, and Nitrate Removal.

## Treatment Plant (Cont.)

### Headworks

Project WWTP-2013-1 [\$1,957,457]

Facility Pumping Station, Screenings, and Grit Collections.

Construction Over Four (4) Fiscal Years.

Coordination with North Interceptor Construction.  
(Bid, March 2013)



## Treatment Plant (Cont.)

### Final Clarifier Repair

Corrosion Repair [\$850,000]

Galvanic Materials Replaced with Stainless Steel on  
Three (3) Secondary Clarifiers.

### Third Primary and Fourth Secondary Clarifier.

Conceptual Facility Design [\$663,250]

### Automation

Facility and Collection System Assessments [\$100,000]

# Discussion