

City of Grand Island

Tuesday, June 10, 2014 Council Session

Item E-1

Public Hearing on Declaration of Intent to Use Clean Water State Revolving Fund (CWSRF) Loan Proceeds for Sanitary Sewer Collection System and Wastewater Treatment Plant Improvements

Staff Contact: John Collins

Council Agenda Memo

From: Marvin Strong PE, Wastewater Plant Engineer

Meeting: June 10, 2014

Subject: Declaration of Intent to Use Clean Water State Revolving

Fund (CWSRF) Loan Proceeds for Sanitary Sewer Collection System and Wastewater Treatment Plant

Improvements

Item #'s: E-1 & I-1

Presenter(s): Jaye Monter, Finance Director

Marvin Strong P.E., Wastewater Plant Engineer

Anna White, Black & Veatch

Tom Fuenning, NDEQ

Michael Rogers, Gilmore & Bell, P.C.

Background

Public Works staff has been working with Black and Veatch and Olsson Associates to develop and implement a 5 Year Wastewater Capital Plan for the City of Grand Island based on the following:

- The comprehensive plan in CH2M Hill's "Wastewater Collection and Treatment Systems Comprehensive Plan Update"
- Black and Veatch's "Wastewater Treatment Plant and Collection System Improvements – Draft Technical Memorandum #2 Hydraulic Model Validation and Analysis"
- Wastewater Projects intended to accommodate growth

Examples of Wastewater projects included in the 5 Year Wastewater Capital Improvement Plan are:

- Plant Headworks
- Sanitary Sewer Collection System Rehabilitation
 - South and West Interceptor Rehabilitation
 - o 4th and 5th Eddy to Vine Rehabilitation
 - North Interceptor Phase I

- North Interceptor Phase II
- Growth 281 Sanitary Sewer Improvements (District 530T)

Public Works representatives met with Nebraska Department of Environmental Quality (NDEQ) representatives in December 2013 and explored the possibility of obtaining a loan from the Clean Water State Revolving Loan Fund Program (CWSRF) administered by the NDEQ in lieu of Revenue Bonds to pay for the remaining wastewater projects. The NDEQ subsequently approved up to \$40,000,000 in CWSRF funds at 2 ½% -2 1/2% for distribution over multiple years. Projects classified as "Green" receive a ½% lower interest rate

Discussion

With the more favorable interest rates it is possible to advance the project schedule to complete more projects sooner. Lift stations are high cost items that increase the creation of damaging chemicals such as hydrogen sulfide (the chemical primarily responsible for shortening the life of the Northeast Interceptor by more than 30%). The new headworks and Phases 1 and 2 of the North Interceptor allow 8 lift stations to be abandoned. Accelerating construction will allow an additional 3 lift stations to be abandoned, saving operating costs and extending the life of the new infrastructure.

The council declared its intention to issue bonds for \$60 million on May 14, 2013. A Revenue Bond was issued on September 17, 2013 for \$35,430,000. This is the only outstanding wastewater debt. We will need an estimated \$38,844,700, in addition to the Revenue Bond issued last year, to finance the remaining portion of the ongoing Wastewater Infrastructure Plan. Most of the remaining costs will occur when the North Interceptor Phase 2 Project is bid later this year. We are asking the council to raise its intention to issue debt from \$60 million to \$74,275,000 and recognize that up to \$40,000,000 of such borrowing is expected to be in the form of a loan from the CWSRF Program administered by NDEQ. After the hearing held on June 10th and NDEQ's 30 day comment period, it is expected that an ordinance will be presented to the City Council at its July 22nd meeting to give formal approval to the NDEQ borrowing in a principal amount of up to \$40,000,000. With the new interest rates this will be within the constraints of the rate study approved last year.

Alternatives

Council has the following alternatives concerning the issue at hand. The Council may:

- 1. Move to approve
- 2. Refer the issue to a Committee
- 3. Postpone the issue to future date
- 4 Take no action on the issue

Recommendation

City Administration recommends that the Council adopt the resolution to raise the declaration of intent to issue debt from \$60,000,000 to \$74,275,000 and recognize that up to \$40,000,000 of such debt is expected to be borrowed from the Clean Water State Revolving Loan Fund Program administered by the Nebraska Department of Environmental Quality.

Sample Motion

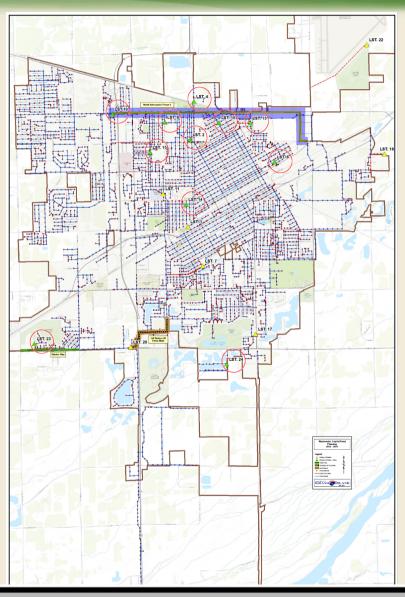
Move to adopt the resolution raising the declaration of intent to issue debt from \$60,000,000 to \$74,275,000 with up to \$40,000,000 expected to be borrowed from the Clean Water State Revolving Loan Fund Program administered by the Nebraska Department of Environmental Quality.



Grand Island Wastewater Infrastructure Improvement Plan



PUBLIC WORKS



2010 Capital Project Report

- The CH2MHill Report listed wastewater infrastructure projects totaling \$115.17 Million, most of it before 2020
- We completed some of the projects, are working on some of the projects, eliminated some of the projects, postponed some of the projects and added new projects

Grand Island Council Session - 6/10/2014 Page 7 / 38

Grand Island

PUBLIC WORKS

	TABLE 1														
	Grand Island Prioritized CIP	,													
			Costs (\$M)												
		Design	Construction	Total	2010	2011	2012	2013	2014	2015	2016	2017	0040		2020 or
	WWTP				Market Services		2012	2013	2014	2015	2016	2017	2018	2019	Beyond
	Sludge Storage and Hydrogen Sulfide Facility		\$0.52	\$0.52	\$ 0.52					0.000,000,000,000	APTIMIST PRINCIPLE STATION	ASSESSMENT OF STREET	STANDARD PROPERTY OF SE	1 1019-15-10-42-0 1018	A STARTURAL INVESTOR
	Replace Primary Clarifier Mechanisms		\$0.99	\$0.99	\$ 0.99										
	Upgrade SCADA system Aeration Basin Improvements	-	\$0.61	\$0.61	\$ 0.61										
	JBS Slipstream (costs may be incurred by others)	\$0.69 \$0.08	\$3.91 \$0.28	\$4.60	\$1.10	\$1.20	\$2.30								
	Replace Screens	\$0.60	\$0.28	\$0.36 \$2.74		\$0.36									
	Third Primary Clarifier	\$0.68	\$2.41	\$3.09			\$2.74 \$3.09								
	Repair Final Clarifiers	-	\$0.50	\$0.60			\$3.09	S 0.60							
	Replace Parshall Flume	\$0.15	\$1.50	\$1.65				\$1,65							
	Replace Grit Basins	\$0.90	\$3.22					\$4.12							
	Fourth Secondary Clarifier	\$0.98	\$3.50	\$4.48				\$4,48							
	Anaerobic Digestion Facility	-	\$19.58							\$6.30	\$9.73	\$3.54			+
	Expand Influent Pump Station Capacity	\$0.10	\$0.35							\$0.45					
	Ferric Chloride Feed Facility Aerated Static Compost	\$0.34	\$1.21	\$1.54									\$0.34	\$1.21	1
	Fifth Secondary Clarifier	\$0.98	\$4.53 \$3.50	\$4.53											\$4.5
	WWTP Subtotal	\$0.98	\$3.50	\$4.48 \$54.33											\$4.4
	Sanitary Collection System	40 (68) 14 (84) 17 (8)	The STATE OF STATE OF STATE	554.33	LORGES WHEN VOLUM	NAMES AND ADDRESS OF THE PARTY	- Plan and a superior street	manage the State of S	ne custos an manual						
	Unknown Sewer Districts	-	\$2.75	\$2.75	\$0.25	\$0.25	\$0.25	\$0,25						HW28 15-1208	8 (972-11)
	15" Sewer Replacement between 4th & 5th Streets, Eddy St. to Vine St.	-	\$1.10		\$1,10	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.2
	Lift Station 7 Improvements	-	\$0.15		\$0.15										
	Sanitary Sewer Rehabilitation	-	\$0,35	\$0.35	\$0.35										
and the same	North Concrete Interceptor Replacement														
DO	(7th & Sky Park to WWTP)	\$1.27	\$11.43	\$12.70	\$1.27	\$6.86	\$4.57				l				1
A Second	Concrete Vault at WWTP South Concrete Interceptor	\$0.03	\$0.23	\$0.26	\$0.03	\$0.23									
	Rehabilitation/Replacement-4850 feet		\$2.98	\$2.98											
	West Interceptor-		\$2,98	\$2.98		\$2.98									
B BOOL	GASES Rehabilitation/Replacement ~ 850 feet	-	\$0.91	\$0.91		\$0.91									
	Capital Avenue Forcemain		\$1.09	\$1.09					\$1.09						
			\$8.36	\$8.36					\$8,36						
N 3 0 E	Lift Station 21 Construction	-	\$3,40	\$3.40						\$3,40					
V 32 2	Lift Station 21 Pump Replacement		\$0.43	\$0.43						\$0.43					1
	36" x 8540' from WWTP to Vine Street 36" x 1910' from Vine Street to Bismark Road	-	\$2.99	\$2.99								\$2.99			
DON'TE	36" x 5850' from Bismark Road to L.S. 7		\$0.65	\$0.65									\$0.65		
Of the	Remove L.S. 7		\$1.82 \$0.05	\$1.82 \$0.05									\$1.82		
- Comment	36" x 3660' from L.S. 7 to Ada Street		\$1.23	\$1.23									\$0.05		
	12" x 4400' forcemain extension from L.S. 20		\$1.23	\$1.66									\$1.23		
	Upgrade L.S. 20 Pumps	-	\$0.02	\$0.02											\$1.6
	8" x 5550' forcemain from L.S. 2 to Capital Avenue	_	\$1.41	\$1.41											\$0.0
	Upgrade L.S. 2 Pumps	-	\$0.02	\$0.02											\$1.4 \$0.0
	Upgrade L.S. 15 pumps	-	\$0.01	\$0.01											\$0.0
	Comhusker Army Ammunition Plant	-	\$6.13	\$6.13											\$6.1
	East Lakes Service		\$7.26	\$7.26											\$7.2
	West Park Plaza - Englemann from Husker Hwy to north of Hwy 30														
	West Park Plaza - Husker Hwy from North Rd to Englemann		\$0.92	\$0.92											\$0.9
	Sanitary Collection System Subtotal		\$1.70	\$1.70 \$60.35											\$1.7
	Other State of the Collection System Subtotal	Sales Sales Sales Sales	050-33 (000)	\$60.35	Links New York	PRESIDENCE AND ADDRESS	28.11.0 Garage (2012) 73.20	CAN CAN PROPERTY OF THE PARTY	A SPECIAL PROPERTY OF THE PARTY	CONTRACTOR OF THE PARTY OF THE	27 10 10 10 10 10 10 10 10 10 10 10 10 10	ALMONDO DE LA CONTRACTOR DE LA CONTRACTO	Translation (CA)		
	WWTP and Sanitary Collection System Comprehensive Plan Update	\$0.50	<u>-</u>	\$0.50			STATES BEING						SEPTEMBER	100000000000000000000000000000000000000	150
		00.00	10 70 AND 10 TO 10	φυ.30	1000	Rolling & Const			SE900 24-20-20-20-20-20-20-20-20-20-20-20-20-20-	Strange as our	\$0.50	March 12 to	ELIMANTE PARTE AND	ese successors on the	Contract Con
	TOTAL	The second second second		\$115.17	\$6.37	trong Charles Asset (2)	\$12.94	11 VRUGUARE SUBJUS	STREET PURSUE NO.	\$10.82	\$9.98	\$6.79	PROBLEM STATES	BETAL PROPERTY OF SE	\$28.3

PUBLIC WORKS

Rate Study

- Black and Veatch added to the information in the CH2MHill report to develop a rate study to pay for the Capital Improvements
- They also developed a Wastewater Master Plan through the year 2062

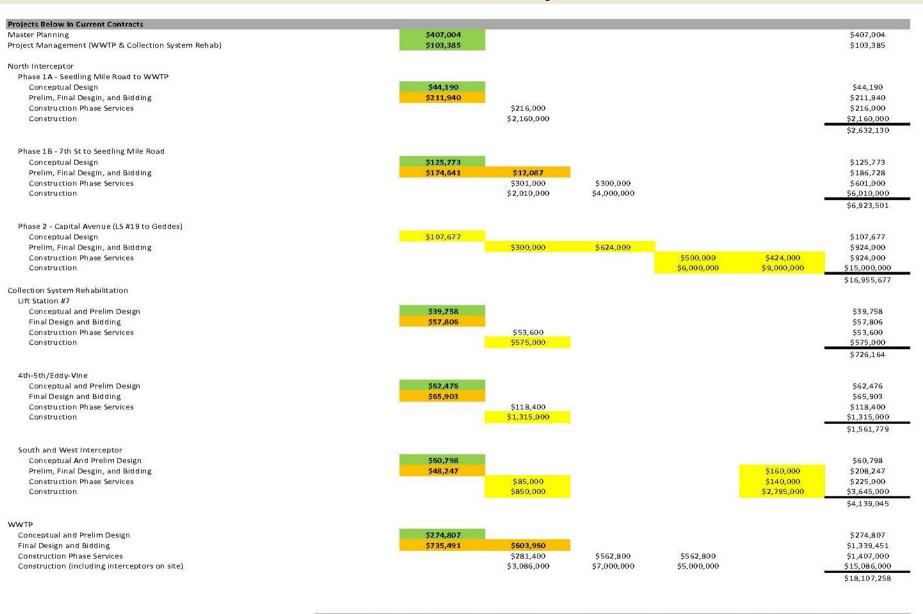
Grand Island Council Session - 6/10/2014 Page 9 / 38

Rate Study

Capital Improvments Plan (CIP) Adjustments 4/1/2012

Project	2011	2012	2013	2014	2015	2016	Total
Aeration Basin Improvements	\$1,758,500	\$1,768,500	Í				\$3,537,000
Viethan of Feed System Improvements	\$50,000	\$50,000					\$100,000
nternal Recycle for Aeration Basins	, 100 f	******			\$1,262,000		\$1,262,000
Final Clarifier Repair			\$600,000				\$600,000
PVIP East 2011 Only	\$320,000						\$320,000
lew Assessment Districts	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000		\$1,250,000
nnual Sewer Rehab	\$190,000	\$350,000	\$350,000	\$350,000	\$350,000		\$1,590,00
Aisc. Items	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000		\$500,000
rojects Below in Current Contracts							
North Interceptor	\$420,000	\$3,000,000	\$4,640,000	\$4,640,000	\$3,000,000		\$15,700,00
North Interceptor (Capital Ave)				\$8,360,000			\$8,360,00
Capital Aveunue Forcemain		\$490,000	\$600,000				\$1,090,00
ift Station 21 Replacement					\$430,000		\$430,000
ft Station 21 Construction			\$600,000	\$2,800,000			\$3,400,00
collection System Rehabilitation							
Lift Station #7	\$160,000						\$160,000
4th-5th/Eddy-Vine	\$100,000	\$1,000,000					\$1,100,00
South and West Interceptor			\$400,000	\$910,000	\$2,580,000		\$3,890,00
WWTP	\$1,300,000	\$2,420,000	\$3,000,000	\$2,500,000	\$0		\$9,220,00
	\$4,658,500	\$9,428,500	\$10,540,000	\$19,910,000	\$7,972,000	\$0	\$52,509,00
Vlaster Planning	\$4,658,500	\$9,428,500	\$10,540,000	\$19,910,000	\$7,972,000	\$0	\$52,509,00
**************************************	\$4,658,500	\$9,428,500	\$10,540,000	\$19,910,000	\$7,972,000	\$0	\$52,509,00
Suggested CIP Adjustments-Current 2011-2015 Schedule	\$4,858,500 FY 2011	\$9,428,500 FY 2012	\$10,540,000 FY 2013	\$19,910,000 FY 2014	\$7,972,000 FY 2015	\$0 FY 2016	\$52,509,00 Total
Suggested CIP Adjustments-Current 2011-2015 Schedule Project	FY 2011	FY 2012					Total
Suggested CIP Adjustments-Current 2011-2015 Schedule Project Project Description (Control of the Control of th	FY 2011 \$1,768,500	FY 2012 \$1,768,500					Total \$3,537,00
Suggested CIP Adjustments-Current 2011-2015 Schedule Project Acration Basin Improvements Methanol Feed System Improvements	FY 2011	FY 2012					Total
Project Project Project Peration Basin Improvements Perhanol Feed System Improvements Patental Recycle for Aeration Basins	FY 2011 \$1,768,500	FY 2012 \$1,768,500				FY 2016	Total \$3,537,00 \$100,000
uggested CIP Adjustments-Current 2011-2015 Schedule roject eration Basin Improvements lethanol Feed System Improvements ternal Recycle for Aeration Basins nal Clarifier Repair	FY 2011 \$1,768,500 \$50,000	FY 2012 \$1,768,500	FY 2013			FY 2016	Total \$3,537,00 \$100,00 \$1,262,00 \$600,000
eration Basin Improvements Methanol Feed System Improvements Internal Recycle for Aeration Basins Inal Clarifier Repair VIP East 2011 Only	FY 2011 \$1,768,500 \$50,000 \$320,000	FY 2012 \$1,768,500 \$50,000	FY 2013 \$600,000	FY 2014	FY 2015	FY 2016 \$1,262,000	\$3,537,00 \$100,00 \$1,262,00 \$600,000
Suggested CIP Adjustments-Current 2011-2015 Schedule Project Aeration Basin Improvements Wethanol Feed System Improvements Internal Recycle for Aeration Basins Final Clarifier Repair PVIP East 2011 Only New Assessment Districts	FY 2011 \$1,768,500 \$50,000 \$320,000 \$250,000	FY 2012 \$1,768,500 \$50,000	FY 2013 \$600,000 \$250,000	FY 2014 \$250,000	FY 2015 \$250,000	FY 2016 \$1,262,000 \$250,000	\$3,537,00 \$100,000 \$1,262,00 \$600,000 \$320,000 \$1,500,00
Master Planning Suggested CIP Adjustments-Current 2011-2015 Schedule Project Aeration Basin Improvements Methanol Feed System Improvements Internal Recycle for Aeration Basins Final Clarifier Repair PVIP East 2011 Only New Assessment Districts Annual Sewer Rehab Misc. Items	FY 2011 \$1,768,500 \$50,000 \$320,000	FY 2012 \$1,768,500 \$50,000	FY 2013 \$600,000	FY 2014	FY 2015	FY 2016 \$1,262,000	\$3,537,00 \$100,00 \$1,262,00 \$600,000 \$320,000

Rate Study



61,414,943

5 Year Wastewater Infrastructure Plan

The current 5 Year Wastewater Infrastructure Plan was developed using information in the CH2MHill and Black and Veatch Reports and incorporating input from the field. Black and Veatch used it to update the earlier rate study.

Grand Island Council Session - 6/10/2014 Page 12 / 38

City of Grand Island Nebraska - 5 Year Wastewater Infrastructure Plan

										Year 1	Year 2		Year 3		Year 4	•	Year 5
	Pro	timated Total oject Cost FY 013 - FY 2017	Grant	SRF Loan		Bonds		Cash	FY 20 2013	v 50cm votes and	FY 2014 (2013 2014)	i- F)	7 2015 (2014 - 2015)	FY 2	016 (2015 - 2016)		17 (2016 - 2017)
General																	
Rate Study	\$	29,964					\$	29,964	Ś	18,031	\$ 11,93	2					
Automation/Asset Management	\$	308,156					\$	308,156		8,156			100,000	Ś	100,000		
Utility Billing Software Allocation	\$	283,308					\$	283,308		118,377			100,000	7	100,000		
General Total	\$	621,428					\$	621,428		144,564			100,000	\$	100,000		
Vehicle							5926	sesan armasa	12	000000000000000000000000000000000000000							
Sanitary Sewer Collection Sysem Truck	\$	38,181					\$	38,181	Ş	38,181	LOVE SATISFACE AND A SATISFACE						
Lift Station Truck	\$	30,384					\$	30,384			\$ 30,38		FAX (2000)				
Plant Utility Vehicle(s)	Ş	28,960					\$	28,960			\$ 13,96	0 Ş	15,000		romananan	140	Navada (201
Sanitary Sewer Collection Sysem Truck	\$	90,000					\$	90,000						Ş	45,000	Ş	45,000
Sanitary Sewer Collection System Jetter	\$	150,000					\$	150,000		nunciariorum.	102 275 ENG	13 13		Ş	150,000	121	to a market of the state of the
Vehicle Total	\$	337,525					\$	337,525	Ş	38,181	\$ 44,34	4 Ş	15,000	Ş	195,000	Ş	45,000
Lab																	
Oil & Grease Extractor	\$	39,000					\$	39,000			\$ 39,00	0					
E-Coli Testing Apparatus	\$	15,000					\$	15,000				\$	15,000				
Thermo Scientific Gallery	\$	35,000					\$	35,000					694.600 4 100 94 0 100	\$	35,000		
Lab Total	\$	89,000					\$	89,000	\$	12)	\$ 39,00	0 \$	15,000	\$	35,000		
W																	
Wastewater Treatment Plant	ć	200.000					ć	200.000	ć	200.000							
Aeration Basin Improvements Headworks	\$ \$	290,866			ć	24 500 000	\$	290,866		290,866	Ć 1505400	n ć	2.070.544				
Final Clarifier Rehabilitation	Ş	21,500,000			\$	21,500,000			Þ	2,467,459	\$ 15,054,00	υş	3,978,541				
	ċ	200,000					ć	200.000				ć	200.000				
Final Clarifier #1 & #2 RAS Pumps	\$ ¢	300,000					\$ ¢	300,000				\$	300,000			ć	200,000
Internal ReCycle Pumps Expand Admin Bldg/Lab	\$ \$	300,000					\$ \$	-								¢	300,000
Wastewater Treatment Plant Total	Ş ¢	500,000			Ċ	24 500 000	\$ \$	500,000 1,090,866	ć	2,758,325	\$ 15,054,00	ስ ሶ	4 3 70 E44	ć		\$ \$	500,000
vvastovvater meatinent riant rotal	ş	22,890,866			\$	21,500,000	Ģ	1,050,600	Ş	2,730,323	\$ 15,054,00	0 \$	4,278,541	Ş	=	Ģ	800,000

												Year 1		Year 2		Year 3		Year 4		Year 5
	Est	imated Total																		
		oject Cost FY		Grant		SRF Loan		Bonds		Cash		2013 (2012 -	FY:		FY:	2015 (2014 -	FY	2016 (2015 -	FY 2	
	20	13 - FY 2017									201	.3) Actual		2014)		2015)		2016)		2017)
Sanitary Sewer Collection System Rehabilitation																				
Sanitary Sewer Collection System TV Camera	\$	52,560							Ś	52,560	Ś	52,560								
GIS Survey Equipment	Ś	31,780							Ś	31,780	T	52,550	\$	31,780						
Sanitary Sewer Collection System Flow Meters	Ś	50,000							Ś	50,000			Ś	50,000						
Sanitary Sewer Collection System By-Pass Pumps	Ş	90,000							\$	90,000			Ş	90,000						
North Interceptor Phase II	\$	19,200,000			Ş	18,270,000	Ş	930,000					\$	1,015,501	\$	9,585,000	\$	8,599,499		
Abandon LS #2/Route to North Interceptor	\$	2,178,268			\$	2,178,268									\$	730,268	\$	1,448,000		
Abandon LS#4/Route to North Interceptor	\$	375,008			\$	375,008											\$	375,008		
Abandon LS#6	\$	1,624,158			\$	1,624,158													\$	1,624,158
Lift Station #7 Repairs/Improvements	\$	780,648	\$	654,318					\$	126,330	\$	768,817	\$	11,831						
Abandon LS #8/ Route to North Interceptor	\$	710,604			\$	710,604											\$	78,604	\$	632,000
Abandon LS#10/Route to North Interceptor	\$	901,456			\$	901,456											\$	136,456	\$	765,000
Abandon LS#13/Route to North Interceptor	\$	407,026			\$	407,026									\$	50,026	\$	357,000		many several
Abandon LS#14	\$	69,000			Ş	69,000													Ş	69,000
Abandon LS#15/Route to North Interceptor	\$	1,978,000			\$	1,978,000											\$	200,000	\$	1,778,000
Lift Station #20 Pumps	\$	26,215							\$	26,215							\$	26,215		
Replace LS #20 Forcemain	\$	2,727,656			\$	2,727,656	- 24								95		- 20		\$	2,727,656
Husker Highway	\$	2,946,250			\$	2,846,250	\$	100,000							\$	783,250	\$	2,163,000		
Rainbow Lakes Gravity Sewer	\$	586,135			Ş	571,135	Ş	15,000											\$	586,135
Airport Interlocal Agreement	\$	165,688							\$	165,688					\$	165,688				
4th & 5th Eddy to Vine	\$	1,694,840	\$	337,633			\$	1,357,206			\$	1,520,877	\$	173,963						
5th Street Improvements	\$	28,551							\$	28,551	- 5	28,551								
North Interceptor Phase I	\$	10,600,000					\$	10,600,000			\$	1,769,490	\$	8,830,510						
WWTP Collections System Rehab	\$	239,739							\$	239,739	23	239,739								
South & West Interceptor	\$	805,001					\$	805,001			\$	798,000		7,001						
Sewer Rehabilitation - Various Locations	\$	900,000							\$	900,000	\$	16	\$	100,000	\$	100,000	\$	350,000	\$	350,000
Sanitary Sewer Collection System Rehabilitation	Ś	49,168,583	Ś	991,951	\$	32,658,561	Ś	13,807,208	\$	1,710,863	\$	5,178,033	\$	10,310,587	\$	11,414,232	Ś	13,733,782	Ś	8,531,949
Total	7	,	7	/	7	//	7	,,		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7		7		т	,	7			
Growth/New Customers																				
South 281/Tap District	\$	2,132,230			\$	2,032,230	Ġ	100,000					\$	900,230	¢	1,232,000				
South 281 Sewer Assessment District	Ś	2,432,035	ć	350,000	100-0	2,007,035	10.0	75,000					\$	597,035	0.00	1,835,000				
Wildwood Industrial Subdivision 528	Ś	1,872,600	4	330,000	Ś	1,772,600		100,000					Ś	627,600		1,245,000				
Westwood Park Subdivision	7	1,012,000			7	1,772,000	7	100,000					7	021,000	7	1,2-13,000				
Platte Valley Industrial Park	Ś	373,126							Ś	373,126	¢	324,726	¢	48.400						
Unknown Sewer Districts	Ś	850,000							Ś	850,000		-	۶ \$	100,000	Ś	250,000	Ś	250,000	Ś	250,000
Growth/New Customers Total	Ś	7,659,991	Ś	350,000	Ś	5,811,865	Ś	275,000		1,223,126		324,726	\$	2,273,265		4,562,000		250,000		250,000
and a control of the	7	.,,	7	0,000	7	-,-11,000	T.	,	T.	_,,	T.	,5	τ'	_,,	T.	.,,000	2 T	0,000	т'	
Total Total	\$	80,767,392	\$	1,341,981	\$	38,470,426	\$	35,582,208	\$	5,072,807	\$	8,443,829	\$	27,998,059	\$	30,384,773	\$	14,313,782	\$	9,626,949
	100		165		68.		13.		100		86		100		68.		10000		30	

PUBLIC WORKS

North Interceptor Phase 2

The North Interceptor Phase 2 project (current construction estimate is \$17,215,000) should generate Regional Contractor interest and favorable pricing. Favorable pricing is likely to be extended to any additional projects that were bid around the same time.

Lift Station Abandonments

- The Headworks and North Interceptor Phase 1 and North Interceptor Phase 2 projects make it physically possible to abandon 8 Lift Stations including LS #19.
- A total of 11 Lift Stations are planned to be abandoned.

Grand Island Council Session - 6/10/2014 Page 16 / 38

Lift Station Abandonments

- The estimated Lift Station O & M savings for the 11 lift stations is \$162,000 per year
- The estimated Lift Station and Forcemain straight line depreciation cost is \$284,000 per year
- Lift Stations are a potential source of Hydrogen Sulfide, which is the primary reason we are replacing the North Interceptor prematurely

PUBLIC WORKS

NDEQ CWSRF Loan

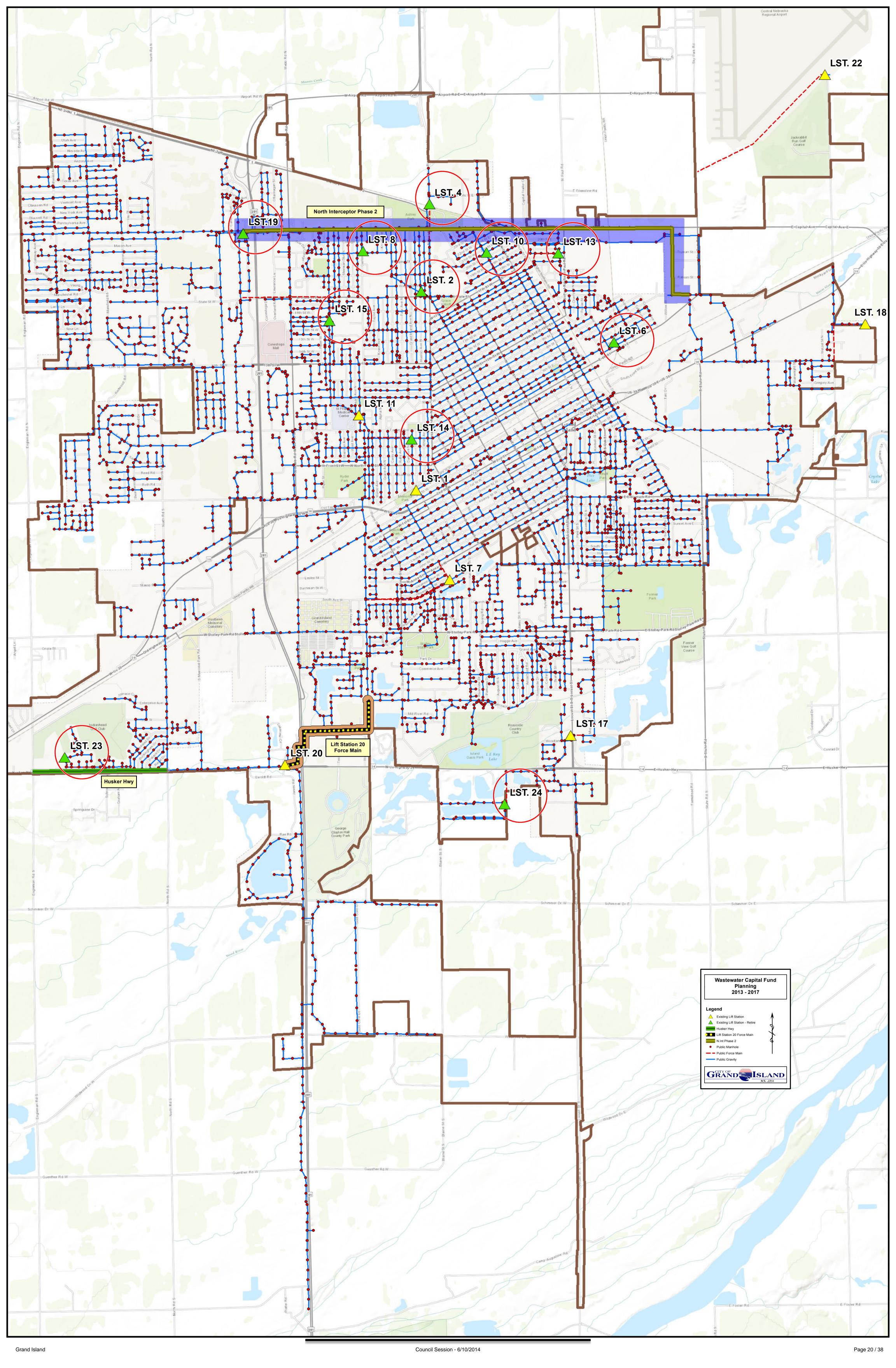
- The NDEQ approved our CWSRF Loan application up to \$40,000,000 at interest rates between 2.25% and 2.50%
 - ₹ NDEQ assess a 1% Administration Fee on the loan balance
 - "Green" wastewater projects are charged 1.25%
 - Non Green Wastewater Projects are charged 1.50%
 - Most of the projects we submitted are classified as "Green"

PUBLIC WORKS

NDEQ CWSRF Loan

- The Black and Veatch Rate Study conducted last year assumed 4.3% Bond Interest Rates
- We asked Black and Veatch to re-visit the Rate Study done last year to determine how much additional work could be done within the constraints of that Rate Study using the lower interest rates.

Grand Island Council Session - 6/10/2014 Page 19 / 38



\$1.70 \$1.66 \$0.02 \$1.41 \$0.01 \$0.01 \$6.13 \$28.38 2020 or Beyond \$4.50 \$0.25 \$1.46 \$0.25 2019 \$1.82 \$0.34 \$4.34 20 201 \$6.79 \$3.54 \$0.25 \$2.99 2017 \$9.73 \$9.98 \$0.25 2016 \$0.50 \$6.30 \$0.25 \$0.43 \$3.40 \$10.82 2015 \$9.71 \$0.25 \$8.36 2014 \$1.65 \$4.12 \$4.48 \$0.25 \$11.10 2013 \$6.37 \$12.79 \$12.94 \$2.30 \$3.09 \$0.25 2012 \$1.20 \$6.86 \$0.25 \$2.98 \$0.91 2011 \$0.25 \$0.35 \$1.27 2010 \$2.75 \$12.70 \$8.36 \$3.40 \$0.43 \$0.65 \$1.82 \$0.05 \$1.65 \$4.12 \$4.48 \$0.45 \$1.54 \$4.53 \$4.48 \$0.15 \$0.02 \$0.01 \$6.13 \$7.26 \$0.92 \$1.70 \$0.50 \$115.17 \$2.98 \$0.91 Total \$0.91 \$3.34 \$0.99 \$0.05 \$0.52 \$0.99 \$0.09 \$0.28 \$2.14 \$0.28 \$1.50 \$2.75 \$1.10 \$0.15 \$0.35 \$11.43 \$0.02 \$0.01 \$6.13 \$7.26 \$0.92 \$2.98 Construction Costs (\$M) \$0.69 \$0.08 \$0.08 \$0.15 \$0.10 Design \$0.50 \$0.98 36" x 3860' from L.S. 7 to Ada Street
12" x 4400' forcemain extension from L.S. 20
Upgrade L.S. 20 Pumps
8" x 5550' forcemain from L.S. 2 to Capital Avenue
Upgrade L.S. 2 to Tamps
Upgrade L.S. 15 pumps Concrete Vault at WWTP
South Concrete Interceptor
Rehabilitation/Replacement-4850 feet
Rehabilitation/Replacement - 850 feet
Gaptial Avenue Forcemain
Gravity Sever (Capital Avenue)
Lift Station 21 Construction
Lift Station 21 Pump Replacement
36" x 8540 from WWTP to Vine Street
36" x 1910 from Westreet to Bismark Road
36" x 5850' from Bismark Road
36" x 5850' from Bismark Road
36" x 5850' from Bismark Road Third Primary Clarifiers

Repair Final Clarifiers

Replace Parshal Flume

Replace Parshal Flume

Replace Girt Basins

Fourth Secondary Clarifier

Anaerobic Digestion Facility

Expand Influent Pump Station Capacity

Fentic Chloride Feed Facility

Aerated Static Compost

Fifth Secondary Clarifier Unknown Sewer Districts
4th & 5th Streets, Eddy St. to Vine St.
Lift Station 7 Improvements
Sanitary Sewer Rehabilitation
rth Conrecte Interceptor Replacement
(7th & Sky Park to WWTP) Sludge Storage and Hydrogen Sulfide Facility
Replace Primary Clarifier Mechanisms
Upgrade SCADA system West Park Plaza - Englemann from Husker Hwy to north of Hwy 30
West Park Plaza - Husker Hwy from North Rd to Englemann
Sanitary Collection System Subtotal Aeration Basin Improvements JBS Slipstream (costs may be incurred by others) Replace Screens Comprehensive Plan Update Comhusker 15" Sewer Replacement between 4th & 5th WWTP and Sanitary Collection System E S R. A CONTRACTOR OF THE PROPERTY O A Concessor

=

Project	2011	2012	2013	2014	2015	2016	Total	
Aeration Basin Improvements Methanol Feed System Improvements Internal Recycle for Aeration Basins	\$1,768,500 \$50,000	\$1,768,500 \$50,000			\$1,262,000		\$3,537,000 \$100,000 \$1,262,000	
inal Clarifier Repair			¢600.000		\$1,202,000		\$600,000	
inai ciariller Repair			\$600,000				\$600,000	
PVIP East 2011 Only	\$320,000						\$320,000	
lew Assessment Districts	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000		\$1,250,000	
innual Sewer Rehab	\$190,000	\$350,000	\$350,000	\$350,000	\$350,000		\$1,590,000	
Alsc. Items	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000		\$500,000	
rojects Below In Current Contracts								
lorth Interceptor	\$420,000	\$3,000,000	\$4,640,000	\$4,640,000	\$3,000,000		\$15,700,000	_
lorth Interceptor (Capital Ave)				\$8,360,000			\$8,360,000	Not in 5 yr CIP, but in Hill Report
apital Aveunue Forcemain		\$490,000	\$600,000				\$1,090,000	
ift Station 21 Replacement					\$430,000		\$430,000	
ift Station 21 Construction			\$600,000	\$2,800,000			\$3,400,000	
collection System Rehabilitation								
Lift Station #7	\$160,000						\$160,000	
4th-5th/Eddy-Vine	\$100,000	\$1,000,000					\$1,100,000	
South and West Interceptor			\$400,000	\$910,000	\$2,580,000		\$3,890,000	
OWTP	\$1,300,000	\$2,420,000	\$3,000,000	\$2,500,000	\$0		\$9,220,000	
	\$4,658,500	\$9,428,500	\$10,540,000	\$19,910,000	\$7,972,000	\$0	\$52,509,000	Includes \$8.36 Million for Capital

Suggested CIP Adjustments-Current 2011-2015 Schedule										
Project	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	Total			
Aeration Basin Improvements Methanol Feed System Improvements Internal Recycle for Aeration Basins	\$1,768,500 \$50,000	\$1,768,500 \$50,000				\$1,262,000	\$3,537,000 \$100,000	% of Construction		
Final Clarifier Repair			\$600,000			\$1,262,000	\$1,262,000 \$600,000			
PVIP East 2011 Only	\$320,000 \$250,000	6250.000	£250.000	\$250,000	\$250,000	\$250,000	\$320,000			
New Assessment Districts Annual Sewer Rehab Misc. Items	\$190,000 \$190,000	\$250,000 \$350,000 \$100,000	\$250,000 \$350,000 \$100,000	\$350,000 \$350,000 \$100,000	\$350,000 \$350,000 \$100,000	\$350,000 \$350,000 \$100,000	\$1,500,000 \$1,940,000 \$600,000			
Projects Below In Current Contracts Master Planning Project Management (WWTP & Collection System Rehab)		\$407,004 \$103,385					\$9,859,000 \$407,004 \$103,385		\$407,004 \$103,385	
North Interceptor Phase 1A - Seedling Mile Road to WWTP Conceptual Design Prelim, Final Design, and Bidding Construction Phase Services Construction		\$44,190 \$211,940	\$216,000 \$2,160,000				\$44,190 \$211,940 \$216,000 \$2,160,000 \$2,632,130	2.0% 9.8% 10.0%	\$472,130 \$2,160,000	
Phase 1B - 7th St to Seedling Mile Road Conceptual Design Prellm, Final Design, and Bidding Construction Phase Services Construction		\$125,773 \$174,641	\$12,087 \$301,000 \$2,010,000	\$300,000 \$4,000,000			\$125,773 \$186,728 \$601,000 \$6,010,000 \$6,923,501	2.1% 3.1% 10.0%	\$913,501 \$6,010,000	Shift to 2016?
Phase 2 - Capital Avenue (LS #19 to Geddes) Conceptual Design Prelim, Final Desgin, and Bidding Construction Phase Services Construction		\$107,677	\$300,000	\$624,000	\$500,000 \$6,000,000	\$424,000 \$9,000,000	\$107,677 \$924,000 \$924,000 \$15,000,000 \$16,955,677	0.7% 6.2% 6.2%	\$1,955,677 \$15,000,000	Have to keep LS in service until all of Capital Ave sewer is in service Shift to start in 2014 Start at Geddes and construct west
Collection System Rehabilitation Lift Station #7 Conceptual and Prelim Design Final Design and Bidding Construction Phase Services Construction		\$39,758 \$57,806	\$53,600 \$575,000				\$39,758 \$57,806 \$53,600 \$575,000 \$726,164	6.9% 10.1% 9.3%	\$151,164 \$575,000	
4th-Sth/Eddy-Vine Conceptual and Prelim Design Final Design and Bidding Construction Phase Services Construction		\$62,476 \$65,903	\$118,400 \$1,315,000				\$62,476 \$65,903 \$118,400 \$1,315,000 \$1,561,779	4.8% 5.0% 9.0%	\$246,779 \$1,315,000	
South and West Interceptor Conceptual And Prelim Design Prelim, Final Desgin, and Bidding Construction Phase Services Construction		\$60,798 \$48,247	\$85,000 \$850,000			\$160,000 \$140,000 \$2,795,000	\$60,798 \$208,247 \$225,000 \$3,645,000 \$4,139,045	1.7% 5.7% 6.2%	\$494,045 \$3,645,000	"C" and "D" Sewers moved to 2016
WWTP Conceptual and Prelim Design Final Design and Bidding Construction Phase Services Construction (including interceptors on site)		\$274,807 \$735,491	\$603,960 \$281,400 \$3,086,000	\$562,800 \$7,000,000	\$562,800 \$5,000,000		\$274,807 \$1,339,451 \$1,407,000 \$15,086,000 \$18,107,258	1.8% 8.9% 9.3%	\$3,021,258 \$15,086,000	\$1,200,000 interceptor costs here

\$2.678.500 \$5.038.396 \$13.267.447 \$13.186.800 \$12.762.800 \$14.481.000 \$61.414.943 Amendment No. 1

							Year 1	Year 2	Year 3	Year 4	Year 5
		Estimated Total Project Cost FY 2013 - FY 2017	Grant	SRF Loan	Bonds	Cash	FY 2013 (2012 - 2013) Actual	FY 2014 (2013-2014)	FY 2015 (2014 - 2015)	FY 2016 (2015 - 2016)	FY 2017 (2016 2017)
General											
Rate Study		\$ 29,964				\$ 29,964	\$ 18,031	\$ 11,932			
Automation/Asset Management		\$ 308,156				\$ 308,156	\$ 8,156	\$ 100,000	\$ 100,000	\$ 100,000	
Utility Billing Software Allocation		\$ 283,308				\$ 283,308					
General Total		\$ 621,428				\$ 621,428	\$ 144,564	\$ 276,863	\$ 100,000	\$ 100,000	
Vehicle	-1	Ć 20.404				Å 20.404	A 20.404				
Sanitary Sewer Collection Sysem Tru	uck	\$ 38,181				\$ 38,181		ć 20.204			+
Lift Station Truck Plant Utility Vehicle(s)		\$ 30,384 \$ 28,960				\$ 30,384 \$ 28,960		\$ 30,384 \$ 13,960	\$ 15,000		+
Sanitary Sewer Collection Sysem Tru	ıck	\$ 28,960				\$ 28,960		\$ 13,960	\$ 15,000	\$ 45,000	\$ 45,000
Sanitary Sewer Collection System Je		\$ 150,000				\$ 150,000				\$ 150,000	3 43,000
Vehicle Total	ittei	\$ 337,525				\$ 337,525		\$ 44,344	\$ 15,000		\$ 45,000
Vernete Total		337,323				\$ 337,323	30,101	7 44,544	7 15,000	155,000	7 45,000
Lab						1					
Oil & Grease Extractor		\$ 39,000				\$ 39,000		\$ 39,000			1
E-Coli Testing Apparatus		\$ 15,000				\$ 15,000			\$ 15,000		
Thermo Scientific Gallery		\$ 35,000				\$ 35,000			,	\$ 35,000	
Lab Total		\$ 89,000				\$ 89,000	\$ -	\$ 39,000	\$ 15,000	\$ 35,000	
Wastewater Treatment Plant											
Aeration Basin Improvements		\$ 290,866				\$ 290,866					
Headworks		\$ 21,500,000			\$ 21,500,000)	\$ 2,467,459	\$ 15,054,000	\$ 3,978,541		
Final Clarifier Rehabilitation											
Final Clarifier #1 & #2 RAS Pumps		\$ 300,000				\$ 300,000			\$ 300,000		-
Internal ReCycle Pumps		\$ 300,000				\$ -					\$ 300,00
Expand Admin Bldg/Lab		\$ 500,000				\$ 500,000					\$ 500,000
Wastewater Treatment Plant Total		\$ 22,890,866			\$ 21,500,000	\$ 1,090,866	\$ 2,758,325	\$ 15,054,000	\$ 4,278,541	\$ -	\$ 800,000
											+
Sanitary Sewer Collection System R						¢ 52.560	¢ 52.560				
Sanitary Sewer Collection System T\	v Camera	\$ 52,560 \$ 31,780				\$ 52,560 \$ 31,780		\$ 31.780			
GIS Survey Equipment Sanitary Sewer Collection System Fle	ow Motors	\$ 50,000				\$ 50,000		\$ 31,780 \$ 50,000			+
Sanitary Sewer Collection System By		\$ 90,000				\$ 90,000		\$ 90,000			
North Interceptor Phase II	y 1 033	\$ 19,200,000		\$ 18,270,000	\$ 930,000			\$ 1,015,501		\$ 8,599,499	
Abandon LS #2/Route to North Inter	rceptor	\$ 2,178,268		\$ 2,178,268	φ 330,000			1,013,301	\$ 730,268		
Abandon LS#4/Route to North Inter		\$ 375,008		\$ 375,008					, , , , , , ,	\$ 375,008	
Abandon LS#6		\$ 1,624,158		\$ 1,624,158						,,	\$ 1,624,15
Lift Station #7 Repairs/Improvemen	ts	\$ 780,648 \$	654,318			\$ 126,330	\$ 768,817	\$ 11,831			
Abandon LS #8/ Route to North Inte		\$ 710,604		\$ 710,604						\$ 78,604	\$ 632,00
Abandon LS#10/Route to North Inte	erceptor	\$ 901,456		\$ 901,456						\$ 136,456	\$ 765,00
Abandon LS#13/Route to North Inte	erceptor	\$ 407,026		\$ 407,026					\$ 50,026	\$ 357,000	
Abandon LS#14		\$ 69,000		\$ 69,000							\$ 69,00
Abandon LS#15/Route to North Inte	erceptor	\$ 1,978,000		\$ 1,978,000						\$ 200,000	\$ 1,778,00
Lift Station #20 Pumps		\$ 26,215				\$ 26,215				\$ 26,215	
Replace LS #20 Forcemain		\$ 2,727,656		\$ 2,727,656							\$ 2,727,65
Husker Highway		\$ 2,946,250		\$ 2,846,250					\$ 783,250	\$ 2,163,000	
Rainbow Lakes Gravity Sewer		\$ 586,135		\$ 571,135	\$ 15,000	1	1		1 .		\$ 586,13
Airport Interlocal Agreement		\$ 165,688				\$ 165,688			\$ 165,688		
4th & 5th Eddy to Vine		\$ 1,694,840 \$	337,633		\$ 1,357,206		\$ 1,520,877	\$ 173,963			
5th Street Improvements		\$ 28,551			A 40 600 000	\$ 28,551		A			
North Interceptor Phase I		\$ 10,600,000			\$ 10,600,000		\$ 1,769,490	\$ 8,830,510			1
WWTP Collections System Rehab		\$ 239,739			¢ 005.001	\$ 239,739		ć 7.001			-
South & West Interceptor Sewer Rehabilitation - Various Locat	tions	\$ 805,001 \$ 900,000			\$ 805,001	\$ 900,000	\$ 798,000	\$ 7,001 \$ 100,000	\$ 100,000	\$ 350,000	\$ 350,00
Sanitary Sewer Collection System	LIOIIS	900,000 ب				\$ 900,000	<i>a</i> -	7 100,000	7 100,000	350,000	φ 550,00
Rehabilitation Total		\$ 49,168,583 \$	991,951	\$ 32,658,561	\$ 13,807,208	\$ 1,710,863	\$ 5,178,033	\$ 10,310,587	\$ 11,414,232	\$ 13,733,782	\$ 8,531,94
						+		 			+
Growth/New Customers						+					+
South 281/Tap District		\$ 2,132,230		\$ 2,032,230	\$ 100,000	1		\$ 900,230	\$ 1,232,000		1
South 281 Sewer Assessment Distric	ct	\$ 2,432,035 \$	350,000					\$ 597,035			+
Wildwood Industrial Subdivision 528		\$ 1,872,600	555,000	\$ 1,772,600				\$ 627,600			1
Westwood Park Subdivision	-	. 2,5.2,000		, 2,7.72,000	, 200,000	1		. 527,300	, 1,243,500		<u> </u>
Platte Valley Industrial Park		\$ 373,126				\$ 373,126	\$ 324,726	\$ 48,400			1
Unknown Sewer Districts		\$ 850,000				\$ 850,000		\$ 100,000	\$ 250,000	\$ 250,000	\$ 250,00
		\$ 7,659,991 \$	350,000	\$ 5,811,865	\$ 275,000	,					
Growth/New Customers Total							,	, , ,		,,,,,	
Growth/New Customers Total											
Growth/New Customers Total Total Total		\$ 80,767,392 \$	1,341,951	\$ 38,470,426	\$ 35,582,208	\$ \$ 5,072,807	\$ 8,443,829	\$ 27,998,059	\$ 20,384,773	\$ 14,313,782	\$ 9,626,94
		\$ 80,767,392 \$	1,341,951	\$ 38,470,426	\$ 35,582,208	\$ 5,072,807	\$ 8,443,829	\$ 27,998,059	\$ 20,384,773	\$ 14,313,782	\$ 9,626,94
		\$ 80,767,392 \$	1,341,951	\$ 38,470,426	\$ 35,582,208	\$ \$ 5,072,807	\$ 8,443,829	\$ 27,998,059	\$ 20,384,773	\$ 14,313,782 JMS 05/21/2014	\$ 9,626,94

BUILDING A WORLD OF DIFFERENCE

Capital Financing Plan

Anna White

Principal Consultant Management Consulting Division



Overview

- Comprehensive Wastewater Rate Study completed in October 2013
 - Council approved 4 revenue increases (12%, 12%, 6%, 5%) from FY 2014 FY 2017
- What's changing?
 - 2014 2017 CIP Increasing \$9,432,100
 - Revenue Bond financing will be replaced with SRF Loans
 - Lower interest rates
 - Lower annual debt service

What's not changing? The approved revenue increases will not increase.



Capital Improvement Program Changes

- 2014 2017
 - Rate Report \$65,267,600
 - Now \$74,699,700
- Major Differences:
 - The Headworks and North Interceptor Phase 1 and North Interceptor Phase 2 projects make it physically possible to abandon 8 Lift Stations

SRF Loan Terms

- Repayment of Principal and Interest begins either 3year following award of the loan or at Initiation of Operation (IOO) whichever is sooner
- 3-year construction period
 - 1st year 0.5% interest rate
 - 2nd and 3rd year 0.5% interest plus administrative fee
 - Administrative fee based on loan amount, 1%
- 20-year repayment period
 - Interest rate based on green/non-green projects
 - Ranges from 1.32% to 1.47%
 - Administrative fee



SRF Capital Projects

Green

- North Interceptor Phase II
- Abandon LS #2
- Abandon LS #4
- Abandon LS #6
- Abandon LS #8
- Abandon LS #10
- Abandon LS #13
- Abandon LS #14
- Abandon LS #15
- Husker Highway
- Rainbow Lakes Gravity Sewer

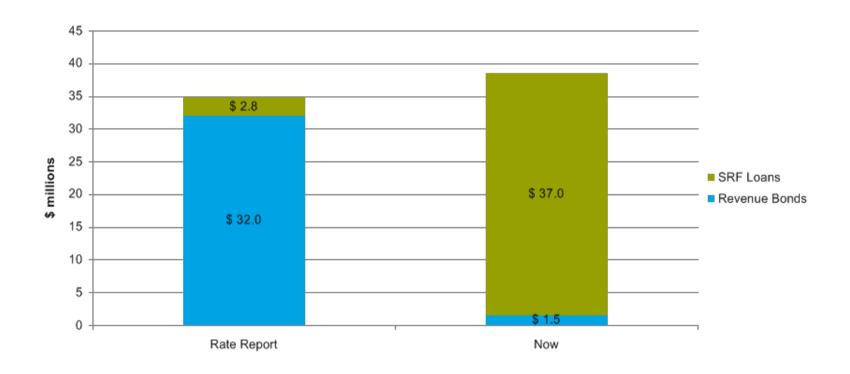
Non Green

- Replace LS #20 Forcemain
- South 281/Tap District
- South 281 Sewer Assessment District
- Wildwood Industrial Subdivision 528

Approximately 82% of project costs are green



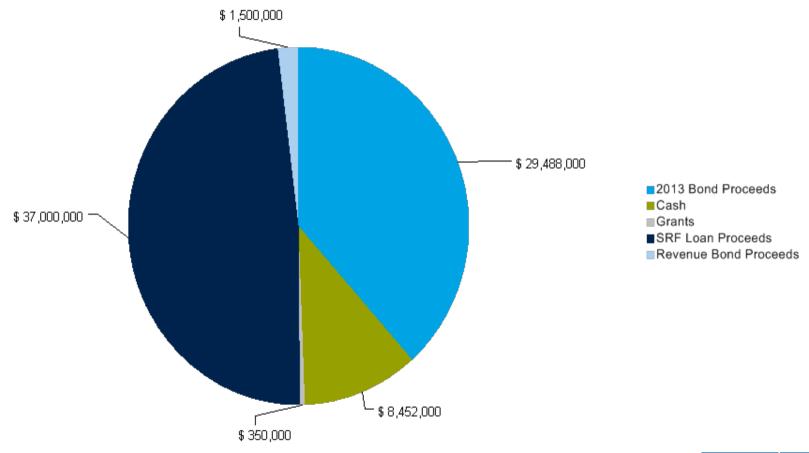
Revenue Bond and SRF Loan Proceeds



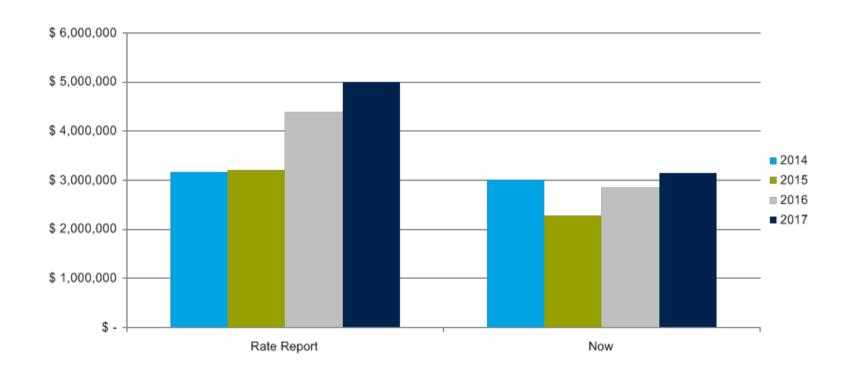
Total amount of debt financing increasing from \$34,800,000 to \$38,500,000



Proposed 2014 – 2017 Capital Improvement Program Financing



Annual Debt Service



Annual debt service increases from \$3,015,900 in 2014 to \$3,757,900 in 2017



Other Changes

- Revenue from Proposed Rate Increases
 - Number of months effective during the first year was reduced from 12 to 10 to reflect 2 month lag until revenue from increase is received
 - Rates effective October 1
 - Bill sent to customer reflecting new rates –
 November 1
 - Revenue from new rates received December 1

Other Changes

Other Operating Revenue

- 2014 budget reduced to reflect 2013 actual which was lower than projected
- Projected revenue is approximately \$150,000 less per year

Interest Income

- Projected interest income reduced to reflect 2013 actual and 2014 year-to-date
- Projected interest income is approximately \$250,000 less per year



Summary

- Revenue reductions
 - Revenue from revenue increases
 - Other operating revenue
 - Interest income
- Offset by reduction in debt service
- Results in ability to fund more capital projects

Table 6

City of Grand Island, NE

Wastewater Utility

Proposed Capital Improvement Program

Line							
No.		2013	2014	2015	2016	2017	Total
	•	\$	\$	\$	\$	\$	\$
1	Sewer Mains	4,733,900	12,572,000	15,652,000	12,054,400	4,276,800	49,289,100
2	Lift Stations	768,800	11,800	803,700	2,780,900	5,319,600	9,684,800
	Wastewater Treatment						
3	Raw Water Pumping	1,135,000	6,924,800	1,885,000	0	0	9,944,800
4	Preliminary Treatment	1,332,400	8,168,200	2,212,900	0	0	11,713,500
5	Primary Sedimentation/Clarifiers	0	0	309,000	0	0	309,000
6	Aeration Basins	290,900	0	0	0	327,800	618,700
7	Aeration Equipment	0	0	0	0	0	0
8	Corrosion/Odor Control Facilities	0	0	0	0	0	0
9	Final Clarifiers	0	0	0	0	0	0
10	Disinfection	0	0	0	0	0	0
11	Sludge Handling	0	0	0	0	0	0
12	General Plant	8,200	100,000	103,000	106,100	0	317,300
13	Lab	0	0	15,500	37,100	0	52,600
14	Vehicles	38,200	44,400	15,500	206,800	49,200	354,100
15	Administration & General	136,400	176,800	0	0	546,400	859,600
16	Land	0	0	0	0	0	0
17	Total	8,443,800	27,998,000	20,996,600	15,185,300	10,519,800	83,143,500

Table 7

City of Grand Island, NE

Wastewater Utility

Capital Improvement Program Financing

Line				Year Ending S	eptember 30,		
No.	Description	2013	2014	2015	2016	2017	Total
		\$	\$	\$	\$	\$	\$
	Sources of Funds						
1	Beginning of Year Balance	3,168,800	31,545,000	5,619,200	1,142,400	1,047,200	3,168,800
2	Revenue Bond Proceeds	37,344,700	0	0	0	1,500,000	38,844,700
3	CWSRF Loan Proceeds	0	1,470,000	14,674,000	13,144,000	7,712,000	37,000,000
4	Cash Financing of Construction	0	300,000	2,000,000	2,100,000	1,900,000	6,300,000
5	Grants/Developer Contributions	992,000	350,000	0	0	0	1,342,000
6	Interest Income (a)	20,300	57,200	18,300	11,100	8,400	115,300
7	Total Funds Available	41,525,800	33,722,200	22,311,500	16,397,500	12,167,600	86,770,800
	Application of Funds						
8	Major Capital Improvements	8,443,800	27,998,000	20,996,600	15,185,300	10,519,800	83,143,500
9	Refunding Escrow Deposits	0	0	0	0	0	0
10	Issuance Costs	567,300	105,000	172,500	165,000	135,000	1,144,800
11	Bond Reserve Funds (b)	969,700	0	0	0	106,400	1,076,100
12	Total Application of Funds	9,980,800	28,103,000	21,169,100	15,350,300	10,761,200	85,364,400
13	End of Year Fund Balance	31,545,000	5,619,200	1,142,400	1,047,200	1,406,400	1,406,400
14	Capital Reserve Balance	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	

⁽a) Includes interest earnings on the capital reserve.

⁽b) Reflects use of Bond Reserve Fund from Series 2003.

Table 8

City of Grand Island, NE Wastewater Utility

Comparison of Projected Revenue Under Existing Rates With Projected Revenue Requirements

Line					Year E	nding Septemb	er 30,	
No.	Description			2013	2014	2015	2016	2017
				\$	\$	\$	\$	\$
1	Revenue Und	er Existing Rate	S	8,442,300	8,113,300	8,134,400	8,155,300	8,176,300
	Additional Re	venue Required						
	Fiscal	Revenue	Months					
	Year	Increase	Effective					
2	2013	0.00%	10	0	0	0	0	0
3	2014	12.00%	10		811,300	976,100	978,600	981,200
4	2015	12.00%	10			911,100	1,096,100	1,098,900
5	2016	6.00%	10				511,500	615,400
6	2017	5.00%	10					453,000
7	Total Addition	nal Revenue		0	811,300	1,887,200	2,586,200	3,148,500
8	Total Service	Charge Revenue	9	8,442,300	8,924,600	10,021,600	10,741,500	11,324,800
9	Other Operat	ing Revenue		347,800	343,200	343,200	749,100	749,100
10	Interest Incor	ne - Operations		500	800	800	700	900
11	Interest Incor	ne - Reserve Fui	nds (a)	18,600	17,400	16,700	17,200	17,700
12	Total Revenue	e		8,809,200	9,286,000	10,382,300	11,508,500	12,092,500
13	Operation an	d Maintenance	Expense	6,698,900	5,543,300	5,859,800	6,231,000	6,632,400
14	Net Revenue			2,110,300	3,742,700	4,522,500	5,277,500	5,460,100
	Debt Service							
15	Existing Rev	enue Bonds		1,705,900	0	0	0	0
16	Proposed Re	evenue Bonds		0	3,008,500	2,125,500	2,515,400	2,532,200
17	Total Revenue	e Bonds		1,705,900	3,008,500	2,125,500	2,515,400	2,532,200
18	Proposed CW	SRF Loan		0	7,400	150,700	331,400	609,700
19	Total Debt Se	rvice		1,705,900	3,015,900	2,276,200	2,846,800	3,141,900
20	Routine Capit	al Additions (b)		317,000	317,000	317,000	317,000	317,000
21	Cash Financin	g of Major Impr	ovements	0	300,000	2,000,000	2,100,000	1,900,000
22	Additions to 0	Operating Reser	ve	0	0	0	0	90,800
23	Net Annual B	alance		87,400	109,800	(70,700)	13,700	10,400
24	Beginning of '	Year Balance		0	87,400	197,200	126,500	140,200
25	End of Year B	alance		87,400	197,200	126,500	140,200	150,600
26	Operating Res	serve Balance		1,651,800	1,651,800	1,651,800	1,651,800	1,742,600

⁽a) Includes interest earnings on the Principal and Interest Account, Bond Reserve Fund, and operating reserve.

Rate_Report_Tables.xlsx 5/25/2014

⁽b) Cash financing of Machinery & Equipment and Vehicles.

Table 9

City of Grand Island, NE

Wastewater Utility

Coverage Requirements

Line				Υ	ear Ending Se	eptember 30,			
No.		2013	2014	2015	2016	2017	2018	2019	2020
	•	\$	\$	\$	\$	\$	\$	\$	\$
	Rate Covenant Coverage								
1	Projected Net Revenues	2,110,300	3,742,700	4,522,500	5,277,500	5,460,100	5,623,400	6,252,700	6,913,900
2	Annual Debt Service (a)	1,705,900	3,015,900	2,276,200	2,846,800	3,141,900	3,757,900	4,338,500	4,835,300
3	Projected Actual Net Revenue as a								
	Percent of Debt Service (b)	1.24 x	1.24 x	1.99 x	1.85 x	1.74 x	1.50 x	1.44 x	1.43 x
	Additional Bond Coverage (c)								
4	Preceding Year Projected Net Revenues	3,488,191	2,110,300	3,742,700	4,522,500	5,277,500	5,460,100	5,623,400	6,252,700
5	Average Annual Debt Service	2,586,400	2,876,300	3,485,300	3,981,600	4,201,400	4,245,500	4,266,700	4,263,500
6	Projected Actual Net Revenue as a								
	Percent of Debt Service (d)	1.35 x	0.73 x	1.07 x	1.14 x	1.26 x	1.29 x	1.32 x	1.47 x
7	Ensuing Year Projected Net Revenues	2,110,300	3,742,700	4,522,500	5,277,500	5,460,100	5,623,400	6,252,700	6,913,900
8	Average Annual Debt Service	2,586,400	2,876,300	3,485,300	3,981,600	4,201,400	4,245,500	4,266,700	4,263,500
9	Projected Actual Net Revenue as a								
	Percent of Debt Service (e)	0.82 x	1.30 x	1.30 x	1.33 x	1.30 x	1.32 x	1.47 x	1.62 x

- (a) Includes Revenue Bonds and CWSRF Loans.
- (b) The Bond Ordinance requires net revenue to equal or exceed 1.10x actual debt service.
- (c) The City shall comply with one or the other of the two additional bonds tests.
- (d) The Bond Ordinance requires net revenue to equal or exceed 1.25x average annual debt service.
- (e) The Bond Ordinance requires net revenue to equal or exceed 1.25x average annual debt service in each of the three full fiscal years after the issuance of the proposed Additional Bonds.