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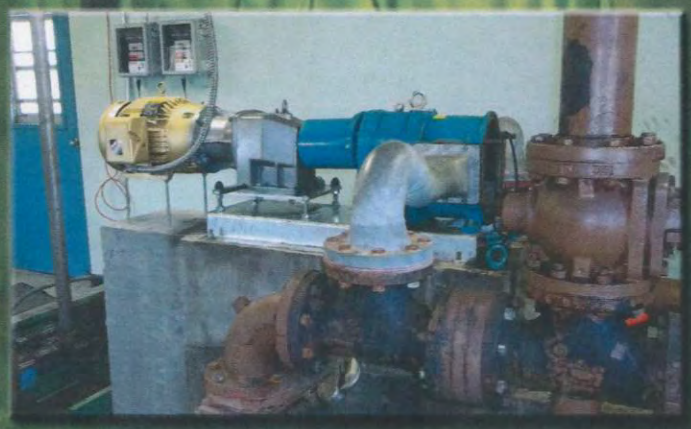
July 2014

Project No. 433-D1-001

Sanitary Sewer Collection System Evaluation

Creighton, Nebraska



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PRELIMINARY ENGINEERING REPORT FOR

SANITARY SEWER COLLECTION SYSTEM EVALUATION

CREIGHTON, NEBRASKA

JULY 2014

Project No. 433-D1-001

I hereby certify that this document was prepared by me, or under my direct supervision that I am a duly registered professional engineer under the laws of the State of Nebraska.

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PROFESSIONAL ENGINEER
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STATE OF NEBRASKA

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Section 1. PROJECT PLANNING

It is often estimated that the useful life of a collection system is between 50 and 100 years for a system that incorporates an adequate maintenance plan. While it is true that there are sewer lines considerably older than 100 years still in use, it is typical for failures to occur before reaching this age. If a community were to replace 1% of the collection system each year, it would take 100 years to completely replace the system. Failing wastewater infrastructure can pose a significant threat to public health and the environment. Systems with inadequate hydraulic capacity and/or blockages may lead to sanitary sewer overflows (SSO's) and may cause flooding damage to property, or release untreated sewage to receiving waters. Some of the health hazards associated with basement flooding by untreated wastewater include the potential presence of pathogenic microorganisms such as viruses, bacteria and protozoa. (EPA, 2009)

In order to assure continuous system operation, the City of Creighton should investigate and budget for maintenance and needed repairs of the sanitary sewer system each year. By developing a continuous maintenance plan, portions of the system can be repaired or replaced in a cost-effective manner and be included in the system budget. When emergency repairs are required, construction costs are inherently higher and cause disruption to the budget.

The ability to maintain a properly functioning sanitary sewer collection system is vital to the City of Creighton. As previously mentioned, a poorly maintained or inadequate collection system can lead to many potential problems. The most obvious effect of a failing system is the occurrence of sanitary sewer backups and overflows. Backups and overflows can cause property damage, impact environmental quality, and has potential to affect public health. An inadequate collection system can restrict community growth, by not allowing expansion of facilities for population growth or industrial expansion.

The City of Creighton Collection System Evaluation was completed to review and evaluate a portion of the collection system and assess the condition by use of Closed Circuit Television Video (CCTV) inspection. In May 2014 a video inspection of approximately 32 blocks of the collection system was completed. The concerns noted by the operators was a historical increase in flows to the Waste Water Treatment Facility (WWTF) and continued maintenance of portions of the collection system.

1.1 Location

The City of Creighton is located in Knox County in northeast Nebraska, and has a small business district that serves the City and the surrounding agricultural area. Industry in the area is limited to agricultural related activities. Highways 13 & 59 and the County road network in the area provide transportation routes to the area. ***Figure 1 – Location Map*** identifies the general location of Creighton within the County and State. The City of Creighton project planning area is identified in ***Figure 2 – Planning Area***.

1.2 Environmental Resources Present

The Nebraska Game and Parks Commission indicates the potential endangered species for Knox County include:

- Knox American Burying Beetle
- Interior Least Tern
- Lake Sturgeon
- Pallid Sturgeon
- Piping Plover
- River Otter
- Sturgeon Chub
- Western Prairie Fringed Orchid
- Whooping Crane

The design and construction components on the sewer collection system are not anticipated to impact any of the above referenced endangered species.

A potential environmental impact for this project would be the flood plain which is located through part of the City. ***Figure 3 – Creighton Area Flood Map*** depicts the 100-year flood zone located on the north and east side of the City on the Bazile Creek. This figure is an excerpt from the FEMA FIRM Flood Insurance Rate map Panel 725 of 825, effective August 18, 2005.

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Figure 1
Location map

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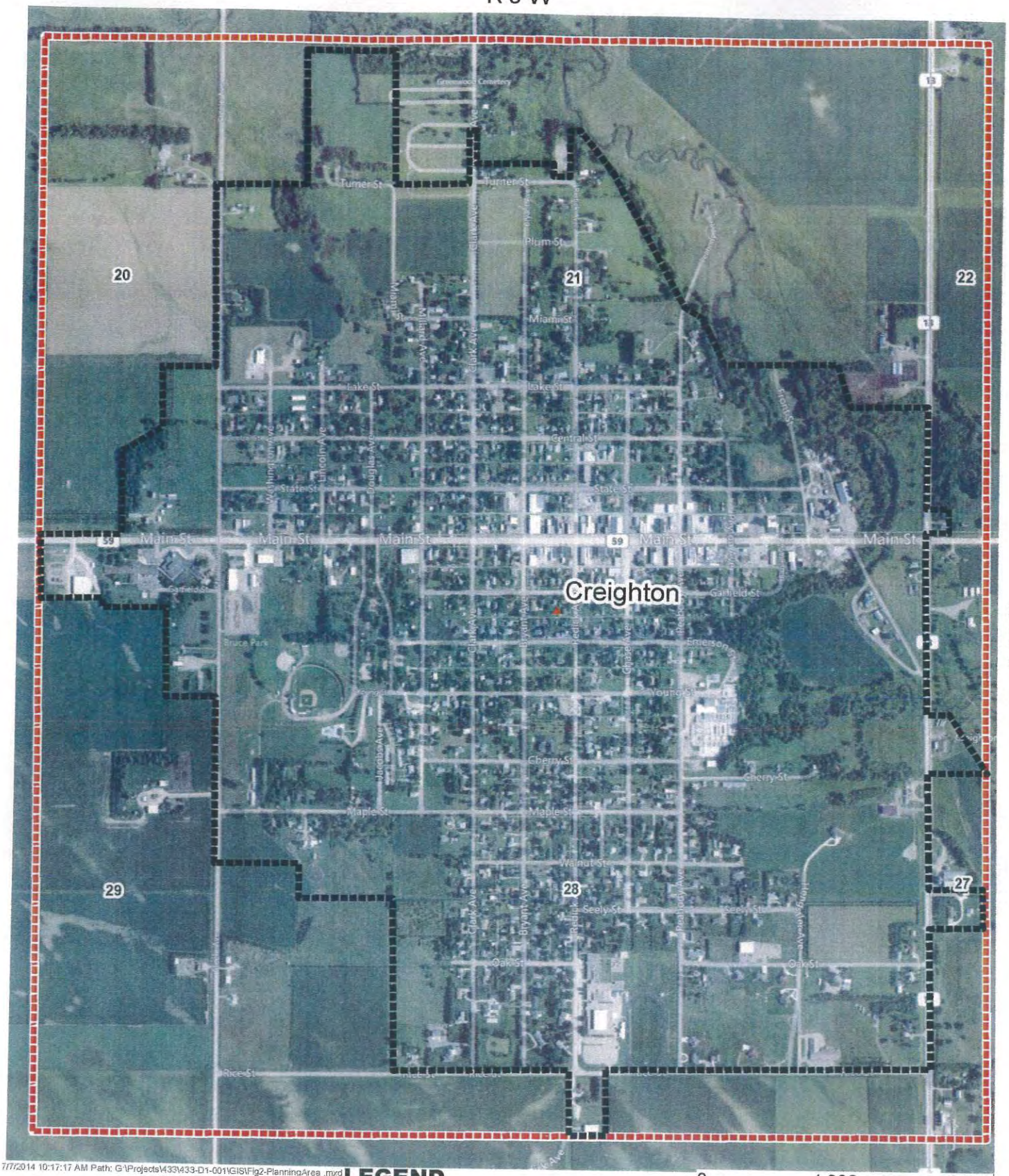

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LEGEND

Corporate Boundary

Planning Area

0 1,000 2,000

SCALE IN FEET

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N
W E
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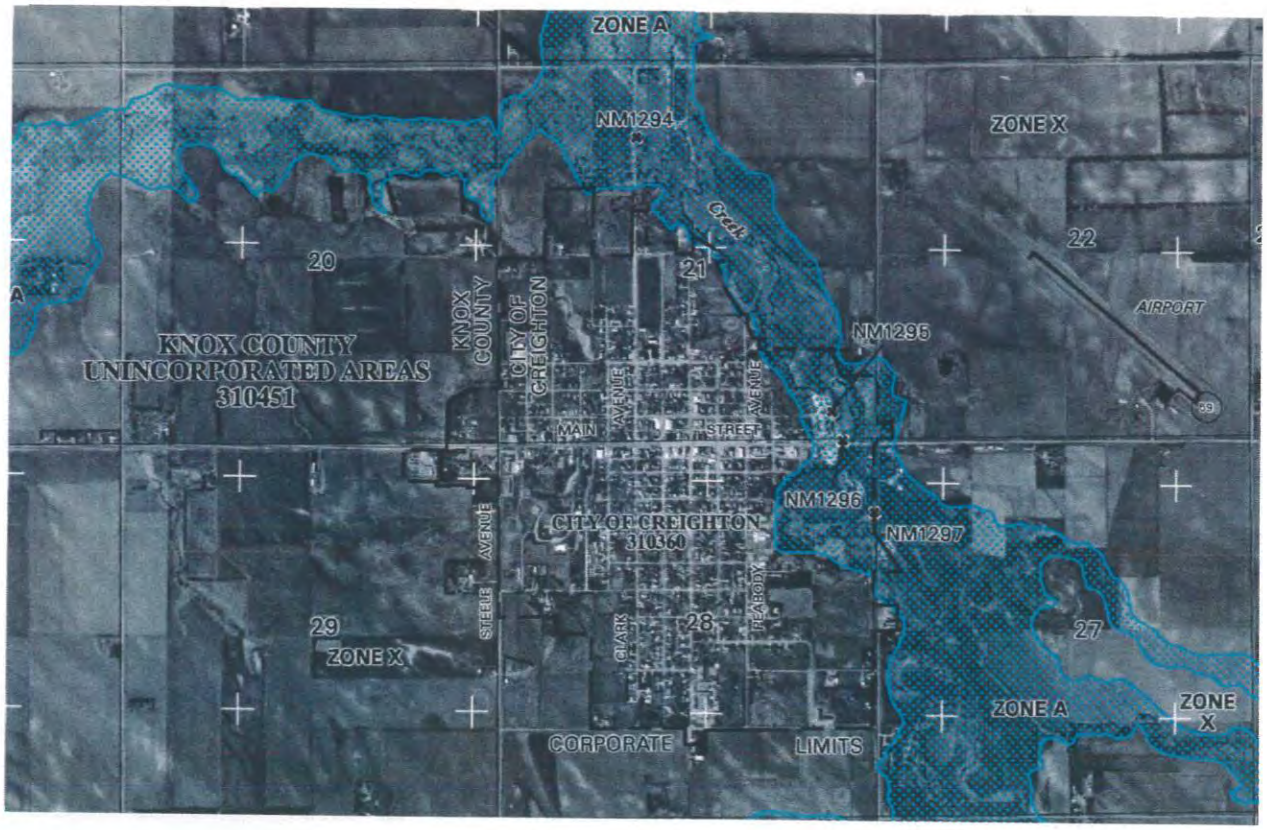
Note:

1. Aerial Photography acquired from: ESRI, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP

Figure 2
Planning Area

Figure 3

CREIGHTON AREA FLOOD MAP



1.3 Population Trends

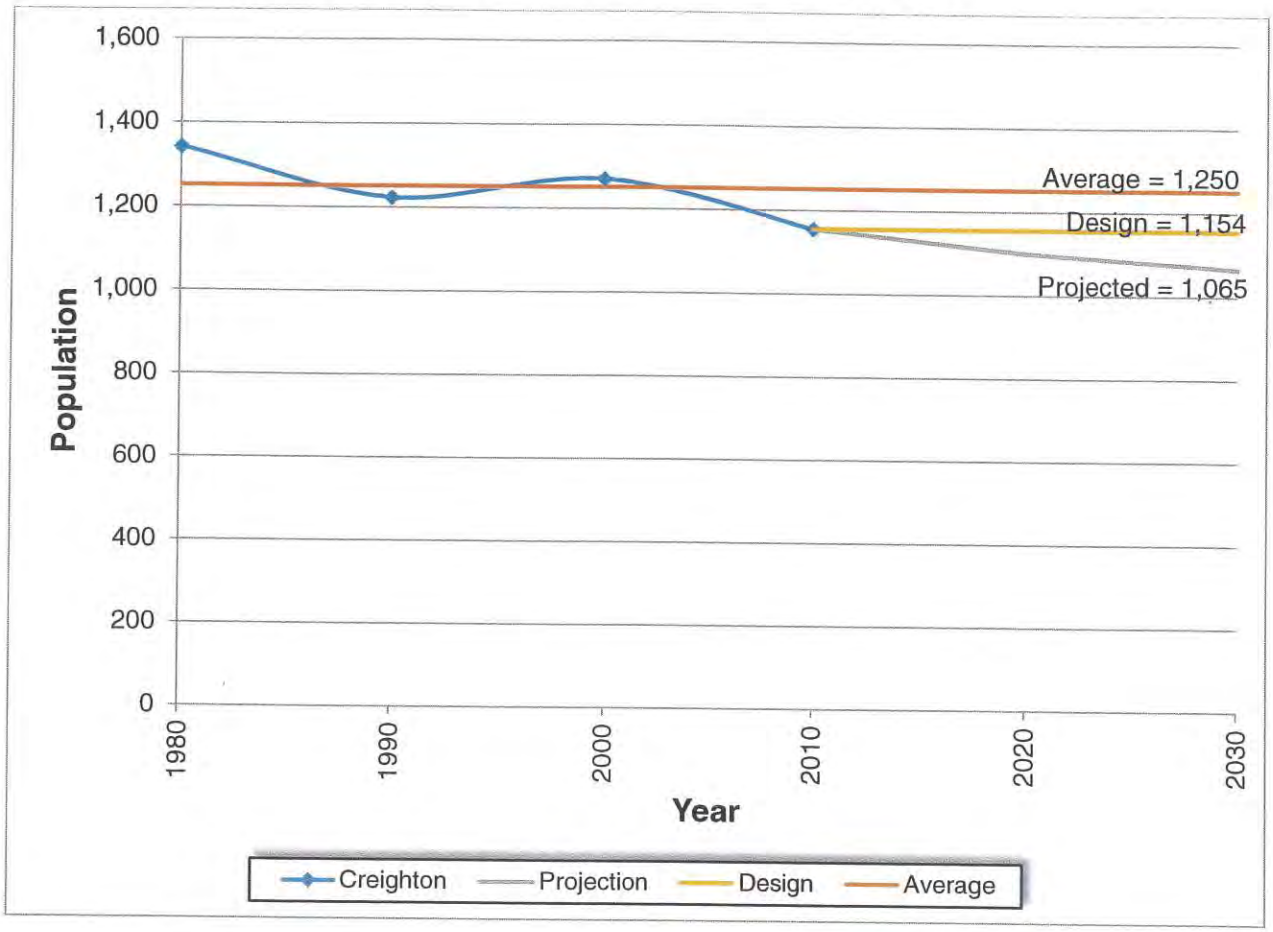
Population statistics are utilized as an important tool used in projecting future housing, retail, medical, employment, educational, and community facility needs. It is necessary to establish an accurate population projection for the project design period of 15 years. Population data is not only used to determine the system water quantity requirement, but is also used in determining project funding or affordability of the proposed project improvements. The historical population of Creighton is listed in ***Table 1 – Creighton Population***.

Table 1
CREIGHTON POPULATION

Year	*Population*
1980	1,341
1990	1,223
2000	1,270
2010	1,154

Figure 4 – Creighton Population and Projections graphically displays the historical population for Creighton since 1980 and illustrates the projected population through the year 2030 design period. The projected population is based on a trending decline over the historical period. The average population from 1980 to 2010 is approximately 1,250. Although the population is trending downward, the sewer system must meet the current demands of the system, therefore the design population selected for this evaluation was the current population of 1,154.

Figure 4
CREIGHTON POPULATION AND PROJECTIONS



According to the "Appraisal Investigation for Regional Water Supply System Study in Northeast Nebraska", page 27, the population of Creighton will remain approximately 1,300 (the average population from 1930-2009).

1.4 Community Engagement

This evaluation was partially funded by Community Block Development Grant (CDBG) funds which require a public hearing at the time of application and during the evaluation. A PowerPoint presentation of the summary results of this report was presented at a City Council meeting on July 10, 2014. The City does not possess adequate resources to self-fund the design and construction phase of a selected project. The use of outside funding agencies such as United States Department of Agriculture-

Rural Development (USDA-RD), CDBG, or the Clean Water State Revolving Funds (CWSRF) would be necessary, and they also have public notice and public hearing requirements.

The proposed project scope and recommendations will be presented at future public hearings and meetings. The public will be giving an opportunity to voice concerns or pose questions regarding the proposed project. Other items to discuss would include the financial implications of the project. City Staff can present their strategies at that time for funding the project and potential impacts to residents in the form of user rates.

Section 2. EXISTING FACILITIES

2.1 History and Location

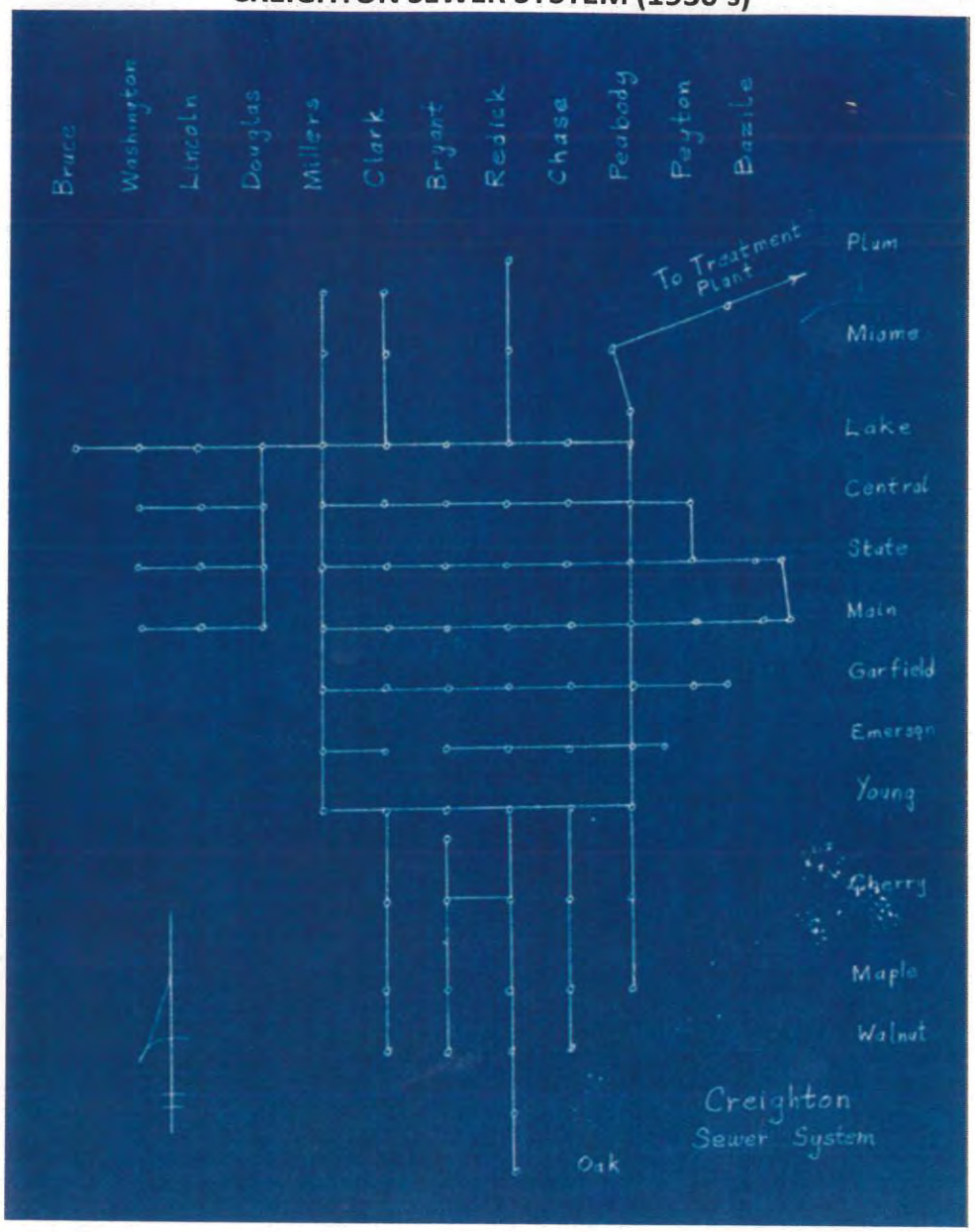
Topographic elevations in the planning area range from approximately 1585 feet Mean Sea Level (MSL) at the wastewater treatment facility to approximately 1,670 feet MSL at the intersection of Clark & Oak Street in the southeast sector of the community.

A wastewater collection system is typically comprised of service lines from residences and businesses, collector lines, and lift stations which all help to convey wastewater to the treatment facility. The service lines are the responsibility of the property owners and are not part of this evaluation. The collection system is comprised of various sizes and types of pipes, which the City maintains to collect and transport the wastewater to the treatment facility. The City currently does not have any lift stations within their system as they are able to feed the WWTF via gravity collection. Gravity collection systems have access in the form of manholes and cleanouts, located approximately every 300 to 400 feet to allow for maintenance of the system.

We were unable to locate records at City Hall that would indicate the time frame for construction of the sewer mains. The files at the Nebraska Department of Environmental Quality (NDEQ) Lincoln office were researched. The map shown in ***Figure 5 – Creighton Sewer System (1930's)*** was located. Based on the location in the files this was believed to be in the 1930's. Thus a majority of the system is believed to be installed in the 1930's or near that timeframe.

Figure 5

CREIGHTON SEWER SYSTEM (1930's)



The sanitary sewer system serves the community with gravity flow by 6-inch, 8-inch, 10-inch, 12-inch and 15-inch diameter sewer collection lines. The gravity flow collection system transports wastewater to the treatment facility located in the northeast sector of the community. ***Figure 6 – Wastewater Collection System*** identifies the layout of the wastewater collection system and location of the wastewater treatment facility as it

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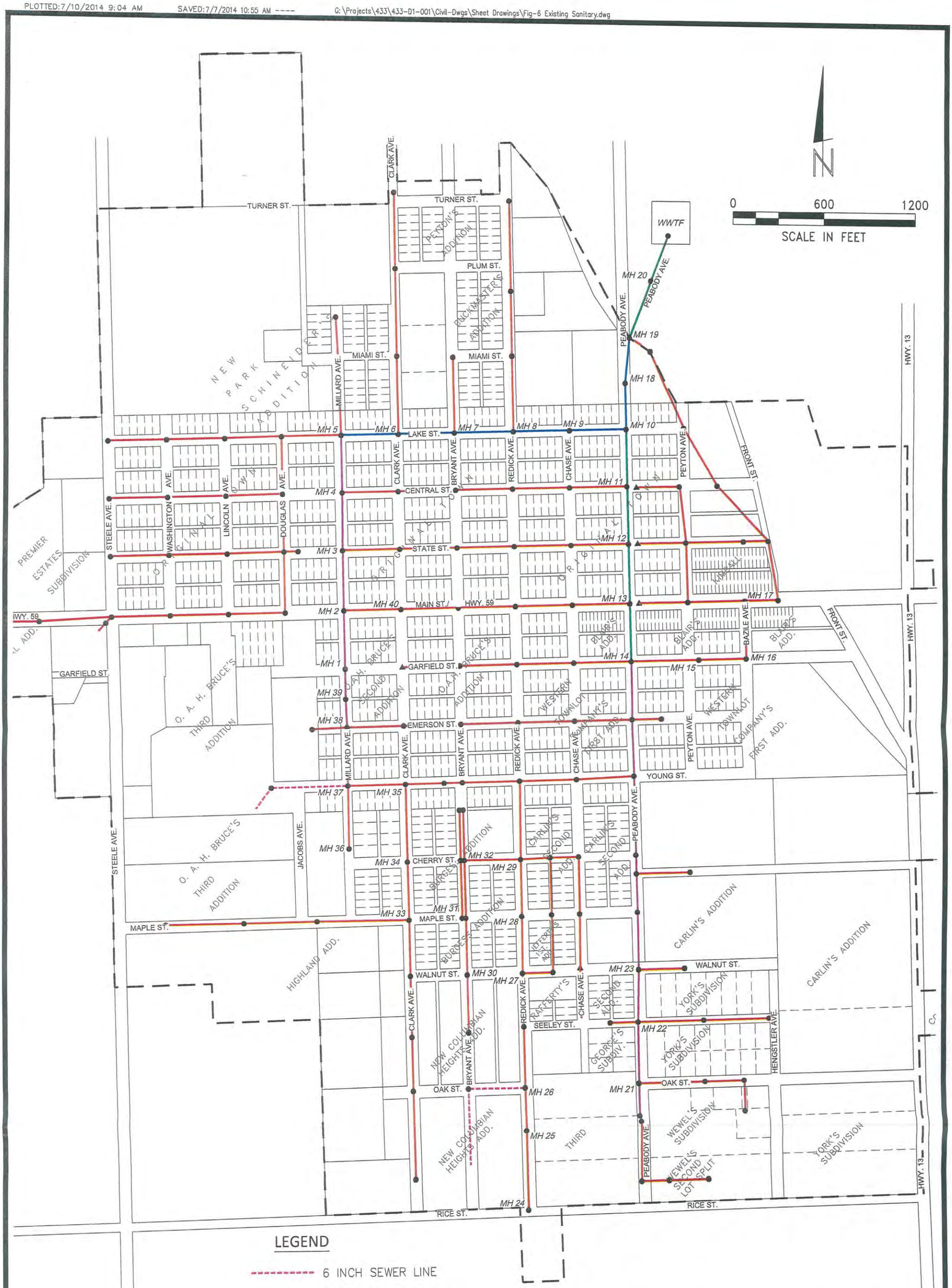

LEGEND

- 6 INCH SEWER LINE
- 8 INCH SEWER LINE
- 10 INCH SEWER LINE
- 12 INCH SEWER LINE
- 15 INCH SEWER L INE
- MANHOLE
- CLEANOUT

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Figure 6
Wastewater Collection System

exist today. The map was modified based on some of the diameters measured during the CCTV investigation for this report.

The last known sewer extension was performed in 2006 consisting of approximately 400 feet of 8" PVC in Oak Street.

An inventory of the sanitary sewer main was compiled from the current sewer map and is shown in the following ***Table 2 – Sanitary Sewer Collection Inventory***.

Table 2

SANITARY SEWER COLLECTION INVENTORY

Pipe Diameter	***Length in System (ft.)***
6"	1,565
8"	45,529
10"	4,924
12"	2,520
15"	2,210
Total	56,748
Description	***Number (each)***
Manholes	141
Cleanouts	6

After the wastewater is transported to the WWTF, the treated wastewater is then discharged into Brazile Creek which is located adjacent to the treatment facility.

City staff has indicated all reasonable efforts are made to eliminate storm water from entering the wastewater system. Storm water is collected and diverted by curb and gutter and open ditches in various locations in the City to natural drainage courses.

Although the WWTF was not a focus of this report, for completeness we have provided some background information. The City currently has a Nebraska Wastewater Discharge Permit as issued by Nebraska Department of Environmental Quality (NDEQ) and Authorization to Discharge under National Pollutant Discharge Elimination System (NPDES) for the wastewater system. The current wastewater treatment facility was constructed in 1958. The Activated Sludge/Oxidation Channel was designed for an average flow of 202,000 gallons per day (0.202 MGD). In 1987 an inspection report note the average design flow as 0.234 MGD and indicated a BOD violation. In the 1987 inspection report it was speculated the Creighton Locker salvaged blood waste was the

cause of excessive BOD concentration, however there was also a reference in the file that indicated the flows to the WWTF were extremely variable due to high infiltration/inflow.

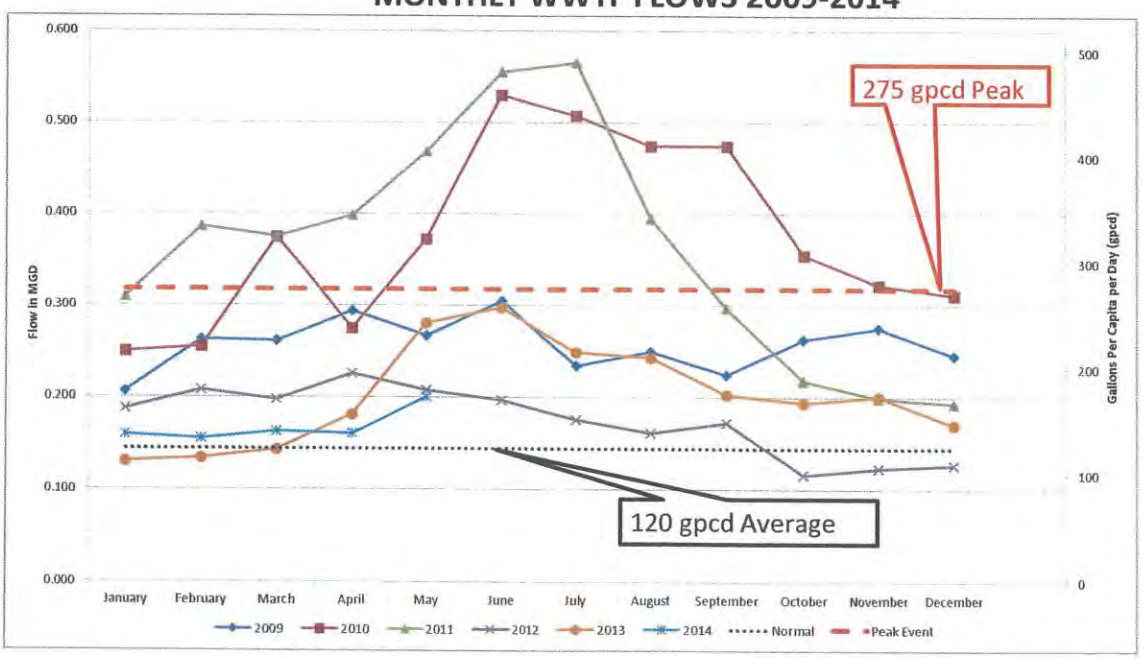
The City records daily flow readings at the WWTF utilizing an Eastech ultrasonic level prior to the UV system across a 60 degree v-notch weir. In 2012, an inspection of the facility by NDEQ personnel questioned the calibration of the ultrasonic indicator. In December 2012 the manufacturer calibrated the unit and verified the instrument was functioning as intended.

The latest NDEQ inspection occurred in September 20, 2013. The inspection performed by Terry Johnson stated overall the WWTF was in good working order compared to previous inspections. Recommendations for additional screening of the wastewater and grit removal should be considered by the City to improve on the operations of the WWTF. The current NPDES permit for the WWTF will expire on June 30, 2017.

Historical wastewater flows from 2009 to May of 2014 were tabulated and utilized for the sewer collection investigation. The flows are shown in ***Figure 7 – Monthly WWTF Flows 2009-2014.*** The month is shown on the x-axis at the bottom and the average monthly flow in millions of gallons per day (MGD) is shown on the primary y-axis on the left. Using the 2010 population of 1,154 the gallons per capita is shown on the secondary Y-axis on the right.

Figure 7

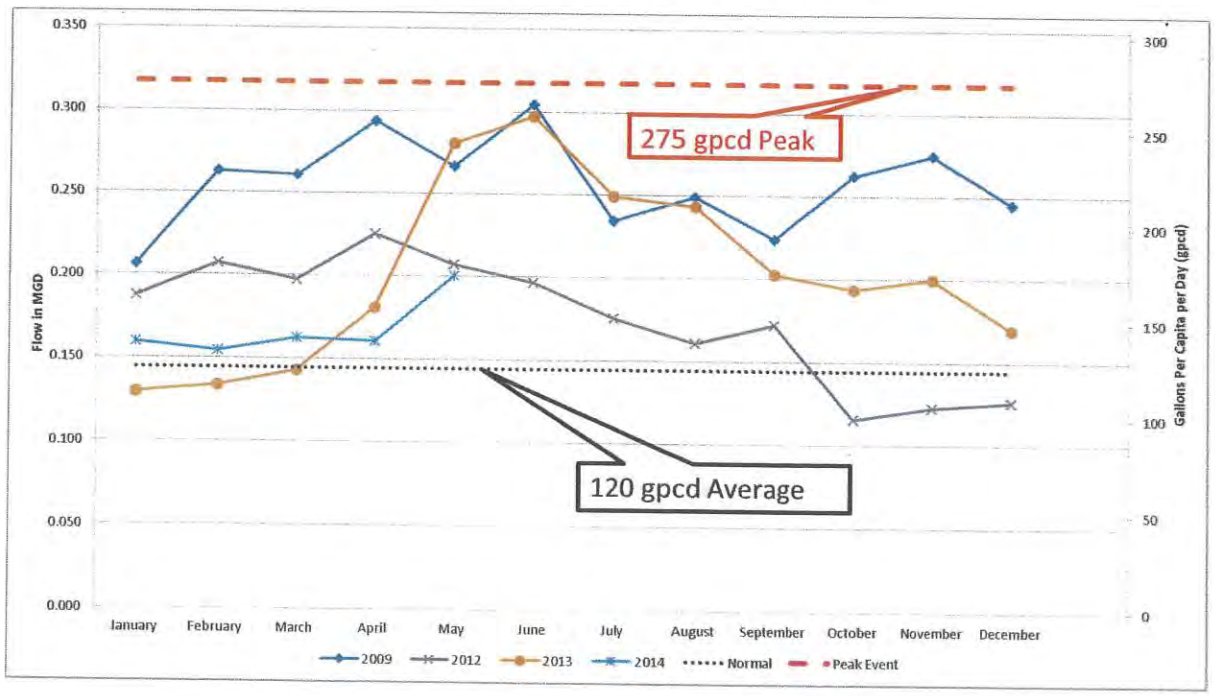
MONTHLY WWTF FLOWS 2009-2014



Also shown on ***Figure 7*** is the EPA guidance for excessive infiltration and inflow for precipitation events and normal flows. The EPA wet weather peak flow of 275 gallons per capita day (gpcd) is shown as a red dashed line and the EPA normal average flow of 120 gpcd is shown by the black dotted line.

After reviewing the data, it is obvious there is significantly more flow being received at the plant during 2012 and 2013. This is contrary to normal WWTF flows, since in the summer months groundwater and precipitation would be expected to be low. During this 2-year period the City was experimenting with discharging the waste from the Water Treatment Plant (WTP) to the collection system. Miller & Associates worked with the City and NDEQ to continue with the WTP NPDES permit and discharge the waste stream to the Bazile Creek from the WTP. Due to this condition, the years of 2010 and 2011 were not used for analysis. The revised WWTF flows without these years is shown in ***Figure 8 – WWTF Flows Used for Analysis.***

Figure 8
WWTF FLOWS USED FOR ANALYSIS



As shown in ***Figure 8*** the City no longer exceeds the 275 gpcd EPA peak flow but consistently exceeds the 120 gpcd flows.

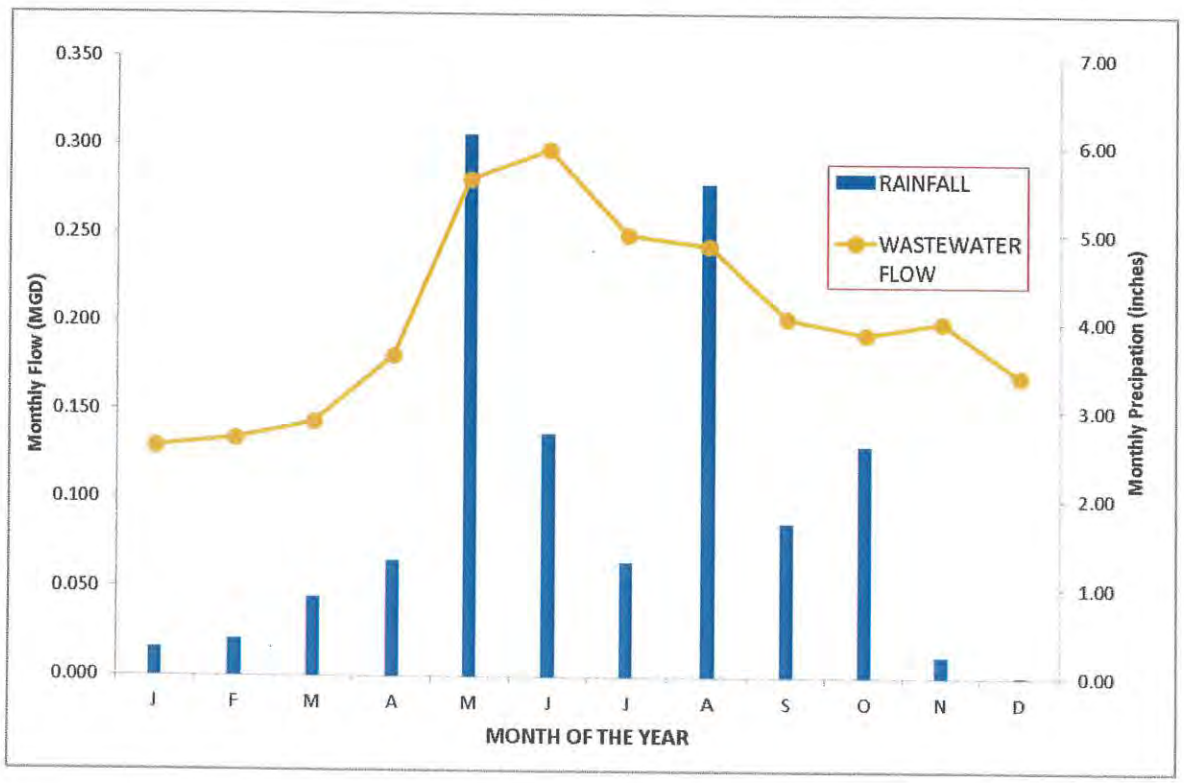
Creighton received only 50% of their average annual rainfall in 2012. April was the only month with near average rainfall. Wastewater flows for the year indicated a slowly decreasing trend over the course of the year.

Due to the low precipitation in 2012, it was decided to use the 2013 precipitation and WWTF flows to see if a correlation could be attributed to rainfall or if consistence groundwater flows were causing the excessive flows.

The monthly flows of 2013 were plotted against the monthly rainfall totals. This correlation is shown in ***Figure 9 – 2013 Monthly WWTF Flows vs. Monthly Precipitation.***

Figure 9

2013 MONTHLY WWTF FLOWS VS. MONTHLY PRECIPITATION

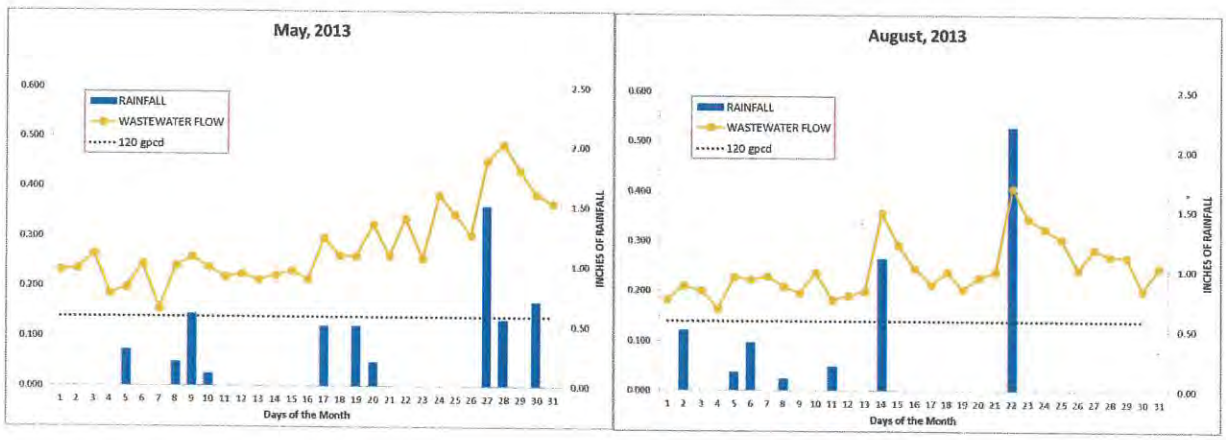


During 2013, Creighton received just under the average rainfall totals at 23.1". The months of May through August averaged nearly 4 inches of rainfall for the time period. This rainfall appears to have increased the wastewater flows during the summer and fall months. Peak flow for the year was over 0.300 MGD which is over 50% higher that flows during the winter months of January and February.

It appeared the precipitation influenced the influent however if it was precipitation alone, it would have anticipate to have dropped during the months of November and December when precipitation was much lower. Since the City has daily data it was decided to evaluate the highest two precipitations months of May and August daily flows against daily precipitation. These graphs are shown in ***Figure 10 – Daily WWTF Flows vs. Daily Precipitation***.

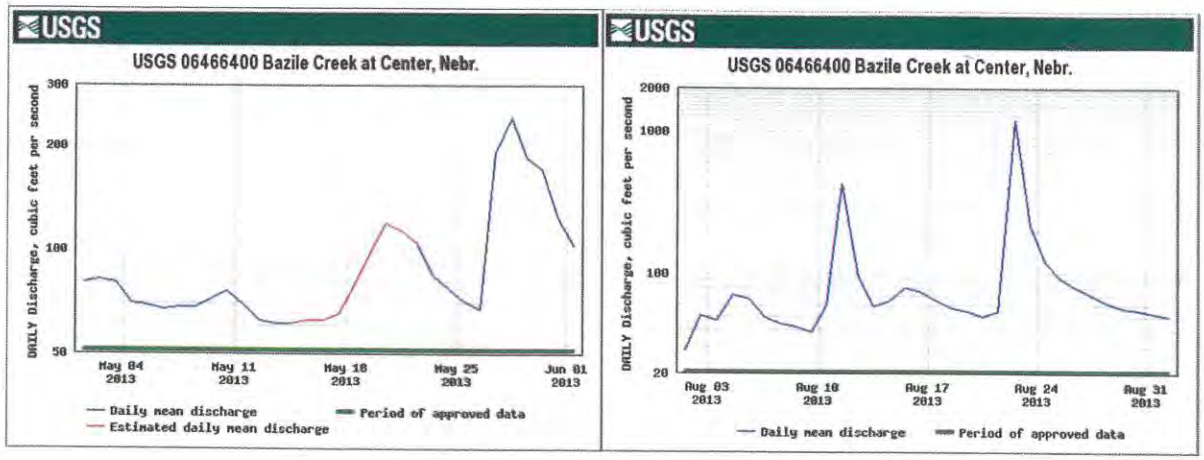
Figure 10

DAILY WWTF FLOWS VS. DAILY PRECIPITATION



The WWTF flows are definitely influenced by the precipitation, as you can see in ***Figure 10***, spikes in flow of approximately 2 times the average flow occur following larger precipitation events. Since the average daily flow exceeds the 120 gpcd infiltration/Inflow regulation it was evident groundwater maybe a large contributor to the flow along with precipitation. There is a gaging station on the Bazile Creek, approximately 10 miles upstream of Creighton at Center, Nebraska. The daily flow records for this gaging station were compiled for the months of May and August 2013. These flows are shown in ***Figure 11 – Bazile Creek Flows May & August 2013***.

Figure 11
BAZILE CREEK FLOWS MAY & AUGUST 2013



The flows during the two months seem to parallel the river flow; which is expected if the sewer collection system is under the influence of groundwater and the increased creek flows are impacting the groundwater in the area causing increased WWTF base flows.

With the confirmation of increased flows during precipitation and Bazile Creek flows, it was decided to try to estimate what portion of the collection system could be influenced or submerged in the groundwater. Therefore, groundwater elevations and depths to the sewer were evaluated. Using Geographical Information System (GIS), a rudimentary model was developed using registered well water level data, Digital Elevation Model (DEM) for ground surface and the depth to develop a color coded map showing two colors across the collection system. The collection system and manholes were also plotted for reference. ***Figure 12 – Plausible Inundation Map*** illustrates these components. There are two colors shown in the map; blue is the estimated depth to water in the 0-16 feet range which covers most of the Creighton system, and green is 16-20 feet which would be possible for the deeper sewers. Data is based on 37 groundwater wells registered in the area which water levels were reported over a 10-year period of time. The groundwater fluctuates and parts of the collections system could be inundated that are not shown or not inundated and are shown. Actual groundwater elevation and depth to the sewer would have to be known at one point in time to accurately determine the inundation but it does give us areas to concentrate on.

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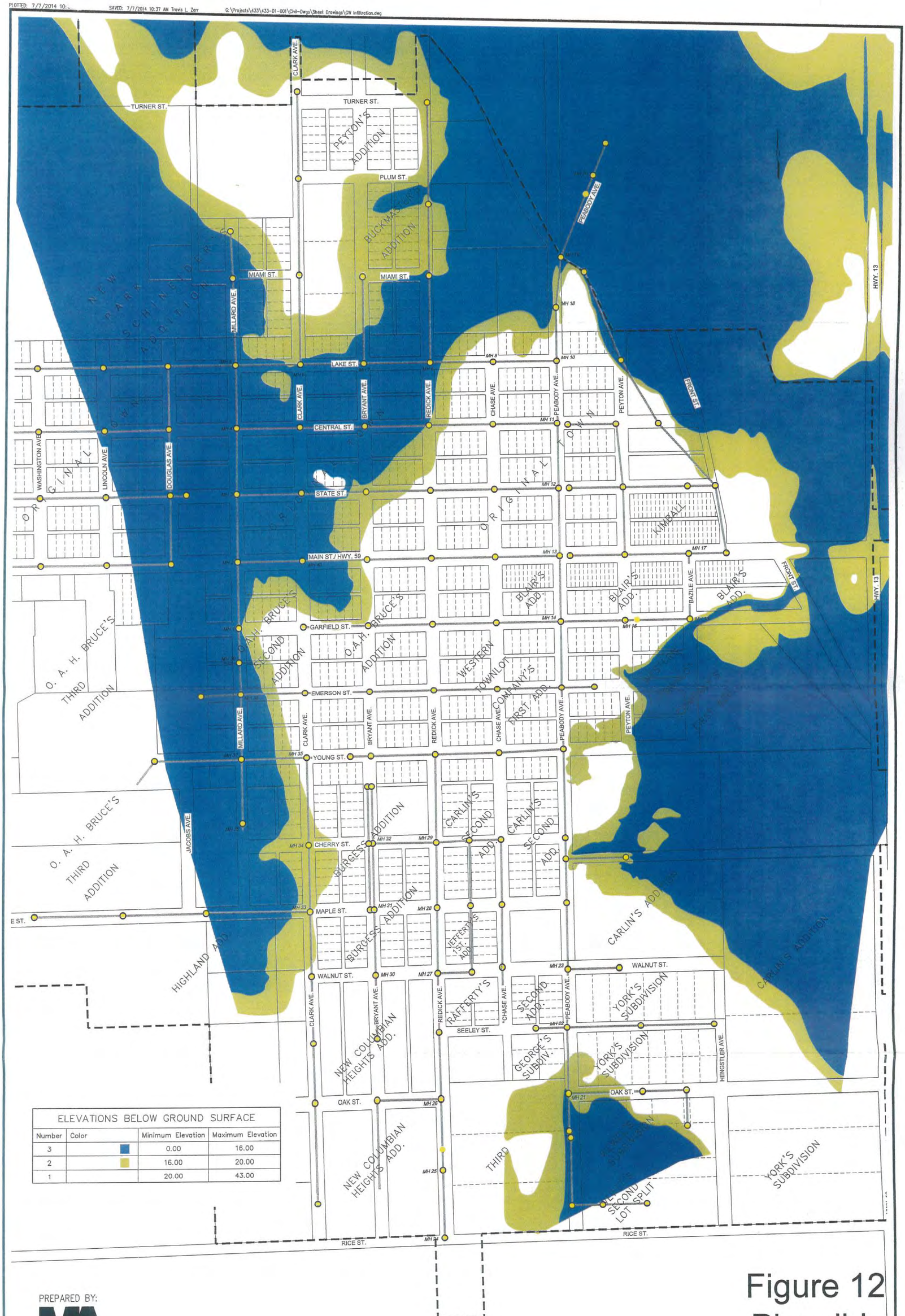

ELEVATIONS BELOW GROUND SURFACE			
Number	Color	Minimum Elevation	Maximum Elevation
3		0.00	16.00
2		16.00	20.00
1		20.00	43.00

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Figure 12
Plausible Inundation Map

2.2 Condition of Existing Facilities

The primary focus of this Preliminary Engineering Report is the sewer collection system. The primary concerns include the condition of the collection system and historical high flows related to infiltration and inflow (I/I). Evaluation of the flows has determined significant contribution from I/I exists. We have also developed a map which provided us an area of higher probability of groundwater infiltration for the system.

As part of the facility evaluation, a contractor was solicited to conduct video camera inspection of a portion of the collection system. The CDBG and matching funds only allowed for approximately 25% of the system to be inspected via Closed Circuit Television (CCTV) inspection.

Our staff generated a map of approximately 10,000 feet (25 blocks) we identified as a representative cross section of the system for inspections. The City also identified approximately 32 blocks they have constant operational issues with, which wanted to include in the inspection. After some discussion it was determined the grant funds would be used to target areas with high potential for I/I. The City would provide additional funding from their O&M budget to focus inspection on lines which experience above average operational issues. All CCTV inspection results are included in the report. The approach provided for the maximum lineal feet of sewer line inspected with the funds which were available. ***Figure 13 – Wastewater Collection System CCTV Lines*** illustrates the locations of all the lines that were inspected via video camera. As the collection system was inspected, the manholes were numbered in order to track the inspections. These manholes numbers are included on the figure and are used for reference throughout the report. Also shown in the figure is the areas where roots were cut prior to the CCTV inspection.

Table 3 – Summary of CCTV Inspections is a tabulation of the varying lengths and diameters of sewer line which were inspected compared to the overall collection system.

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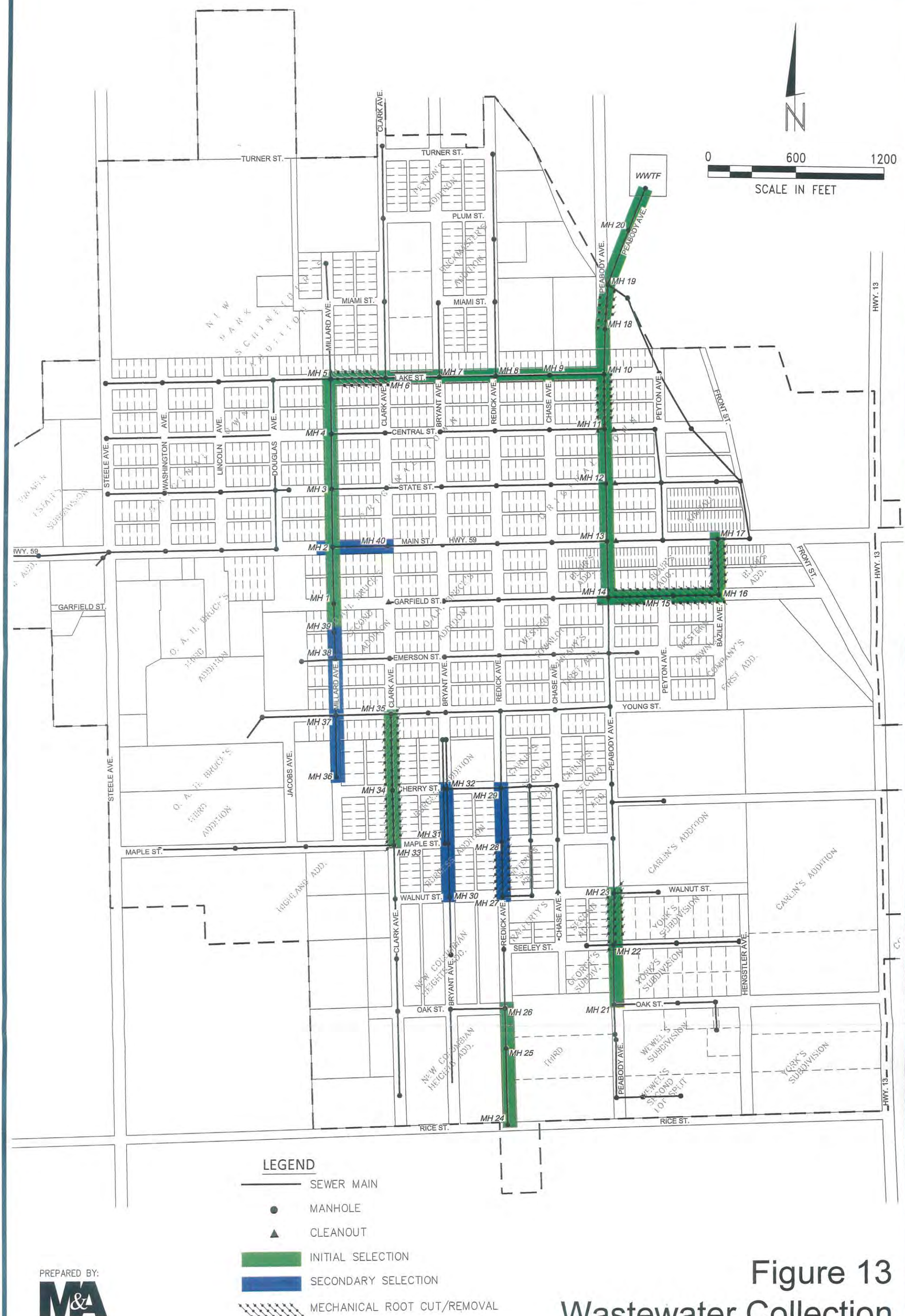

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Figure 13
Wastewater Collection System CCTV Lines

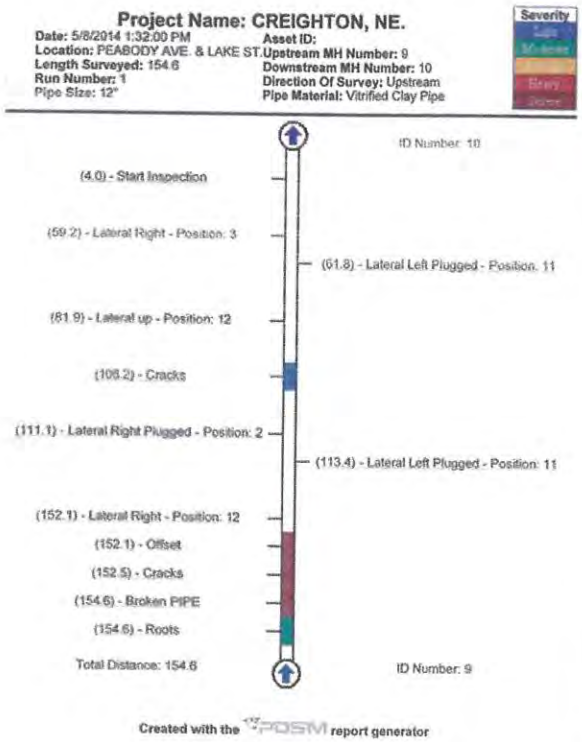
Table 3
SUMMARY OF CCTV INSPECTIONS

Pipe Diameter	*Length in System (ft)*	*CCTV Inspection (ft)*	*Percent of CCTV*
6"	1,565	0	0.0%
8"	45,529	6,198	13.6%
10"	4,924	1,944	40.5%
12"	2,520	2,520	100.0%
15"	2,210	2,210	100.0%
Totals	56,748	12,922	22.8%
System has 141 manholes and 6 cleanouts			

The CCTV inspections generate a report (fault report) that identifies the locations between manholes where services are tapped, cracks appear, roots are intruding, and other obstacles were encountered. This report is summarized for each run and subjectively allocates a ranking of severity. When an object is noted on the fault report a screen capture is taken and a pictorial summary is provided. ***Figure 14 – Sample Fault Report*** is shown for reference. A CD copy of the entire report is included in ***Appendix A***. Hard copies of all reports and video were provided to the City under separate cover.

All of the lines included in the video camera investigation were clay tile construction however the system does include some PVC mains. From video camera evidence, the 10", 12" and 15" collector lines appear to be sufficient size to handle current wastewater flows based on the high-water marks.

Figure 14
SAMPLE FAULT REPORT



Distance	Fault Observation	Time	Picture
111.1	Lateral Right Plugged Position: 2 Severity: 0 XCoord: 0 YCoord: 0	04:03 23:29:21	
113.4	Lateral Left Plugged Position: 11 Severity: 0 XCoord: 0 YCoord: 0	04:15 23:29:34	
152.1	Lateral Right Position: 12 Severity: 0 XCoord: 0 YCoord: 0	05:28 23:30:46	
152.1	Offset Severity: 5 XCoord: 0 YCoord: 0	05:40 23:30:57	
152.5	Cracks Severity: 5 XCoord: 0 YCoord: 0	06:03 23:31:21	
154.6	Broken PIPE Severity: 5 XCoord: 0 YCoord: 0	06:34 23:31:53	

The fault report provides an excellent visual summary for each section of the line segments which were inspected. In order to illustrate the condition of the entire area of CCTV inspection, all of the fault reports were compiled on the sewer collection map using the same color coded severity indicators. We also indicated service line locations; if they were plugged, along with notes on root intrusions. ***Figure 15 – System Fault Map*** depicts the lines which were CCTV'd and their respective results.

The color coding provides an initial condition of the pipe, with blue identifying minor faults and red/maroon identifying severe faults. The red X's indicate root problems. As a general rule, areas with significant intrusion are areas where groundwater is not normally present. The roots navigate to a water supply, which can be within the sanitary sewer system. If groundwater is present, the roots don't seek the sanitary sewer lines, as water is abundant. This also correlated quite well with ***Figure 12***, showing the heaviest roots encountered were south on Clark, Bryant and Redick Avenues, and along Garfield Street east of Peabody.

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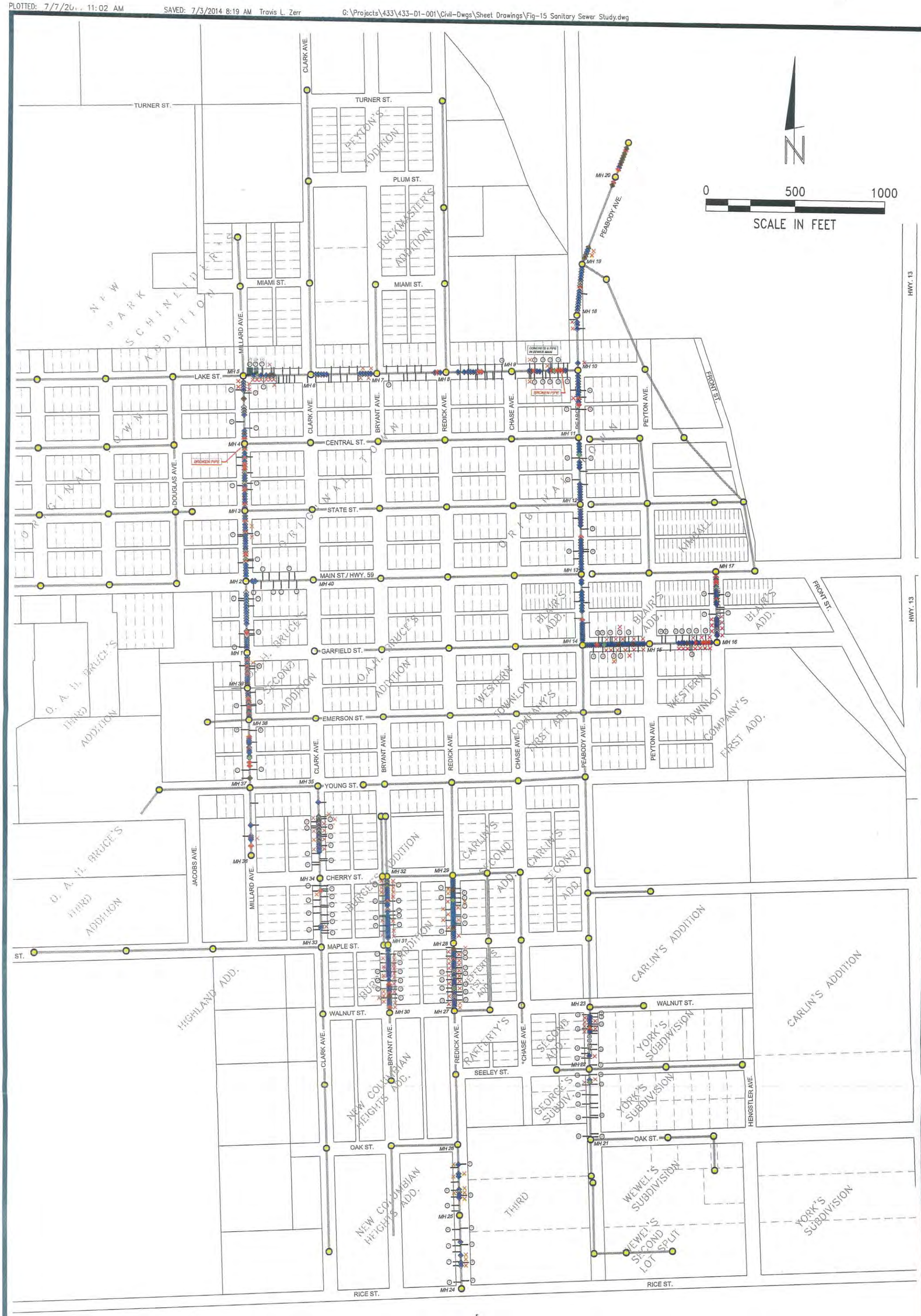

LEGEND

MH 22	MANHOLE		LIGHT SEVERITY
CO 34	CLEANOUT		MODERATE SEVERITY
	SEWER MAIN		AVERAGE SEVERITY
	LATERAL		HEAVY SEVERITY
	ROOTS		SEVERE SEVERITY
	PLUGGED		CONCRETE

PREPARED BY:

M&A

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KEARNEY, NE 68847

Figure 15
System Fault Map

In order to illustrate the Inundation Map, the depth to the sanitary sewer lines from the CCTV inspections along Millard and Lake Street were utilized to develop a profile or cross section of the sanitary sewer system, and overlay a GIS calculated groundwater elevation on the profile. The groundwater level from the GIS model is shown as a blue line in the figures. The cross sections along Millard Avenue and Lake Street are show in in ***Figure 16 – GIS Water Level Profiles.***

The profile for Lake Avenue runs from west to east and indicates that the sewer main from Manhole 5 to Manhole 8 has the potential to be under groundwater influence and the end would be out of the water. However, the domestic well data at the east end of the GIS model was minimal and the groundwater drops off quickly which appears to be an anomaly in the GIS model boundary. Data from regional monitoring wells for the last 50 years was reviewed. Those records indicated fluctuation of groundwater levels ranging from 4' to 5' in the Creighton area. It is very probable all of Lake Street is under groundwater influence at certain times of the year.

The profile along Millard Avenue runs from Manhole 36 northerly to Manhole 5. As shown on the profile, the north end is anticipated to be under the influence of groundwater. The video indicated the southern end of Millard Avenue had groundwater deposits and infiltration, implying that it is under groundwater at times. An excellent example of this is shown between Manholes 37-38 on Millard Avenue between Young and Emerson Streets. This video capture is shown in ***Figure 17 – MH 37-38 Groundwater Deposits***.

Figure 17
MH 37-38 GROUNDWATER DEPOSITS

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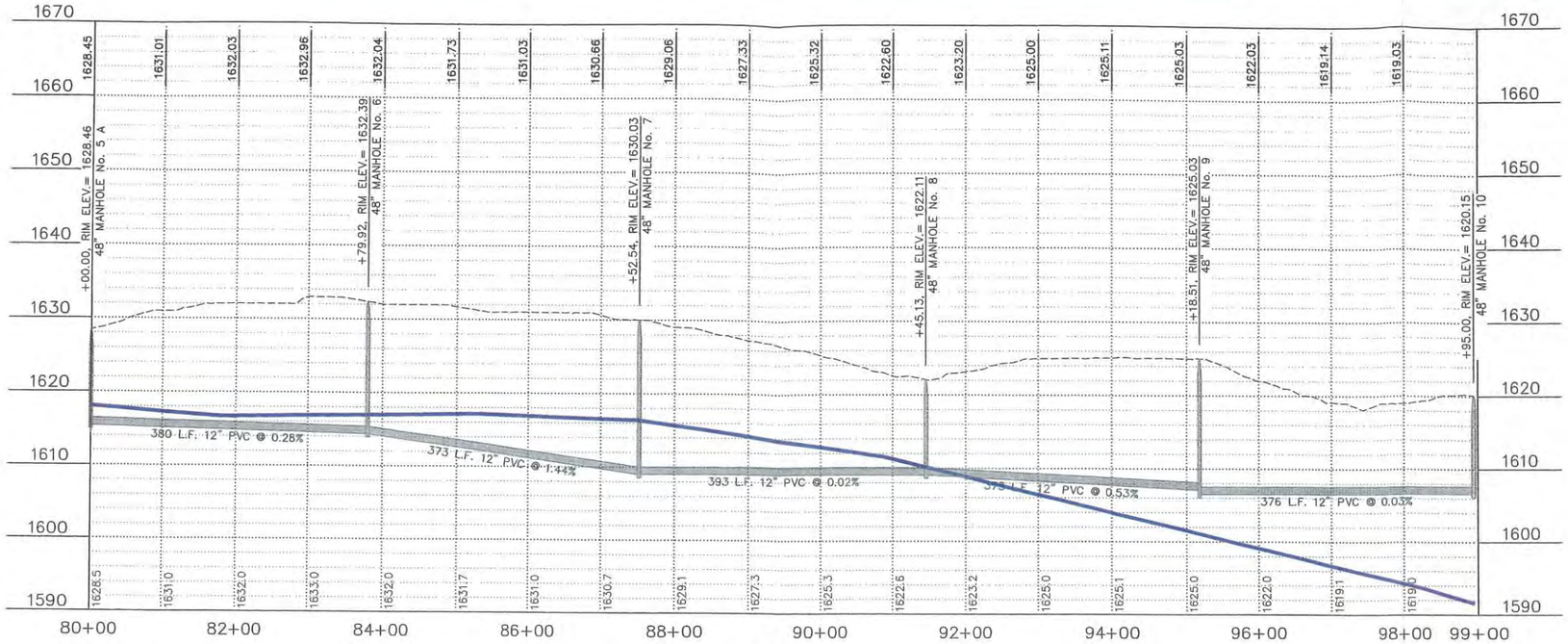
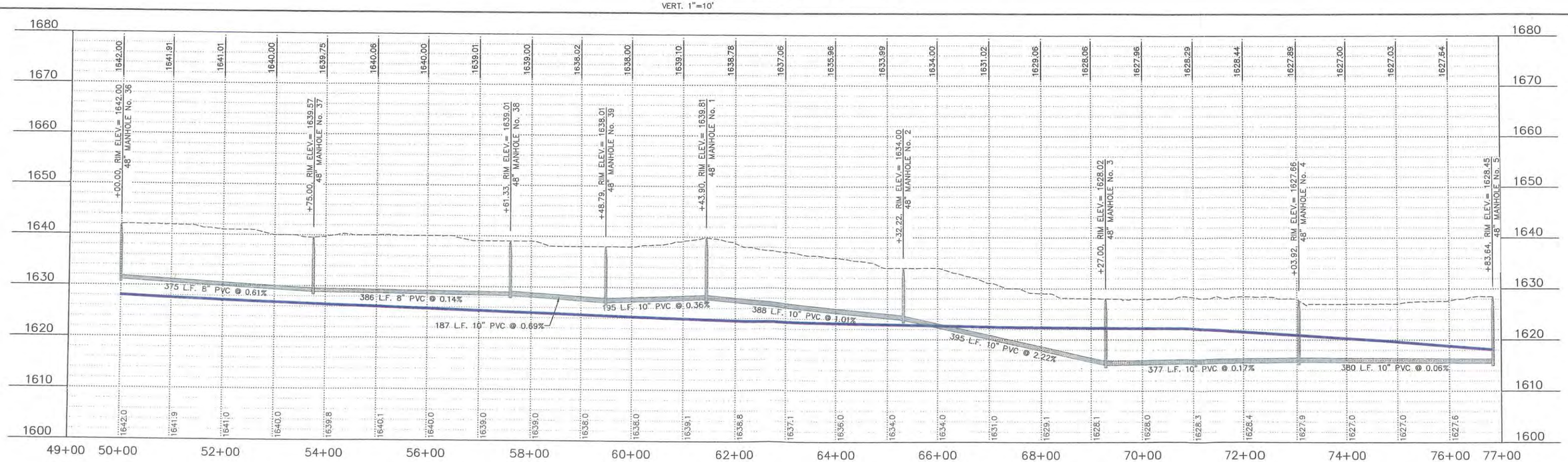


LAKE ST.
MILLARD AVE. TO PEABODY AVE.
HORZ. 1"=100'
VERT. 1"=10'



MILLARD AVE.
CHERRY ST. TO LAKE ST.
HORZ. 1"=100'
VERT. 1"=10'

Figure 16
GIS Water Level Profiles

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The picture on the left is approaching the joint at 273.8 feet from Manhole 37, and there is evidence of deposits on the upper right hand side of the pipe. The camera is then turned and a picture is taken of the deposit (which is shown on the right hand picture). This is a classic example of groundwater deposits. Several of the video clips depicted water running down these deposits.

The existing WWTF flows exceed the EPA recommended infiltration/inflow allowance. An inundation map was developed that illustrates where these areas are most probable. The CCTV inspections confirm that if joints are not sealed, pipes are cracked or services were not properly installed, groundwater is infiltrating into the system.
After reviewing all of the video and fault reports, ***Table 4 – Summary Deficiencies*** was compiled. The yellow rows would be the 1st priority. The green rows have moderate issues but would be classified as a 2nd priority. The white rows did not appear to have structural issues, but rather required maintenance (root intrusion).

Table 4
SUMMARY DEFICIENCIES

Manhole	*Distance (LF)*	*Description*	*Corrective Action*
1-2	395.5	Minor cracks in pipe, pipe joint damage @ 101'(moderate)	2nd Priority
1-39	217.3	Broken pipe @ 5', several joint indicate GWI	1st Priority - Corrective action on broken pipe
2-40	380.7	Minor Cracks	3rd Priority
2-3	381.6	Minor cracks & roots	3rd Priority
3-4	391.9	Numerous cracks in pipe	1st Priority - Alligator cracking @ 75'-85' / Broken pipe @ 376
4-5	388	Minor cracks and roots, Broken pipe @ 48'	1st Priority - Corrective action broken section of pipe
5-6	388.1	Cracks/Roots	Cut Roots - 2nd Priority
6-7	375.4	Minor cracks & roots	3rd Priority
7-8	382	Minor concerns in this section	3rd Priority
8-9	380.8	Minor cracks in pipe, Severe cracks @ 165' causing pipe deflection	1st Priority - Requires localized area repair
9-10	154.6	One section of joint offset and damaged pipe. Minor roots	1st Priority - Requires Reconstruction

Manhole	Distance (LF)	Description	Corrective Action
10-9	224.8	Attempted to CCTV from other direction - could not make it through	1st Priority - Requires Reconstruction
10-11	378.3	Pipe sections cracked at 208'	1st Priority - Requires lining this 1st Priority - section of pipe, Cut Roots
11-12	380.6	Minor cracks in pipe	3rd Priority
12-13	381.3	Minor cracks in pipe	3rd Priority
13-14	396.6	Minor cracks in pipe	3rd Priority
14-15	379	Minor cracks in pipe, Numerous roots, pipe offset at 263'	1st Priority - Pipe offset is not severe to obstruct flow, but is cause for concern, Cut Roots
15-16	374.9	Cracks/Roots	Cut Roots 2 hours to get CCTV thru - 2nd Priority
16-17	390	Cracks/Roots	Cut Roots - 2nd Priority
10-18	314	Minor roots only	3rd Priority
18-19	299.9	Cracks/Roots	Cut Roots - at every joint - 2nd Priority
19-20	519.8	There are two areas of GWI. Transition from 12"-15" @ 364'.	2nd Priority
20-WWTP	153.8	Several sections of pipe exhibit severe cracking, areas of concrete patching and transition if pipe sizes.	1st Priority - Replacement of the pipe required
21-22	403.4	Minor roots only	3rd Priority
22-23	393.2	Cracks/Roots	Cut Roots - 2nd Priority
24-25	353.1	Minor cracks & roots	3rd Priority
25-26	352.9	Minor cracks & roots	3rd Priority
27-28	378.1	Cracks/Roots	Cut Roots - 2nd Priority
28-29	383.1	Minor cracks & roots	3rd Priority
30-31	376.1	Minor cracks & roots, pipe flow line cracked and displaced @ 102'	1st Priority - Requires Repair/Replacement
31-32	383.1	Minor cracks & roots	3rd Priority
33-34	383.6	Cracks/Roots	Cut Roots - 2nd Priority
34-35	511.4	Cracks/Roots	Cut Roots - 2nd Priority
36-37	375.2	Minor roots only	3rd Priority
37-38	380.5	Minor cracks and minor GWI at two laterals	2nd Priority
38-39	169	Minor cracks	3rd Priority

In order to better illustrate the system deficiencies, we have included several screen captures of the faults encountered in the collection system. For ease of reference, the manhole numbers were used for identification.

Figure 18 – MH 25-26 Good Pipe Section is an example of a section of VCP in Creighton which is in good condition. In each screen capture you will see the upstream and downstream manhole number in the upper portion of the picture and the street name for reference. The lower left corner of the picture will be the distance the camera traveled since it entered the manhole.

Figure 18
MH 25-26 GOOD PIPE SECTION

Figure 19 – MH 7-8 Minor Severity Cracking is between Manholes 7 and 8. The cracks in the roof of the pipe and the left-side are not concerns for structural damage, but are stress cracks that would allow water to infiltrate and the potential for root intrusion.

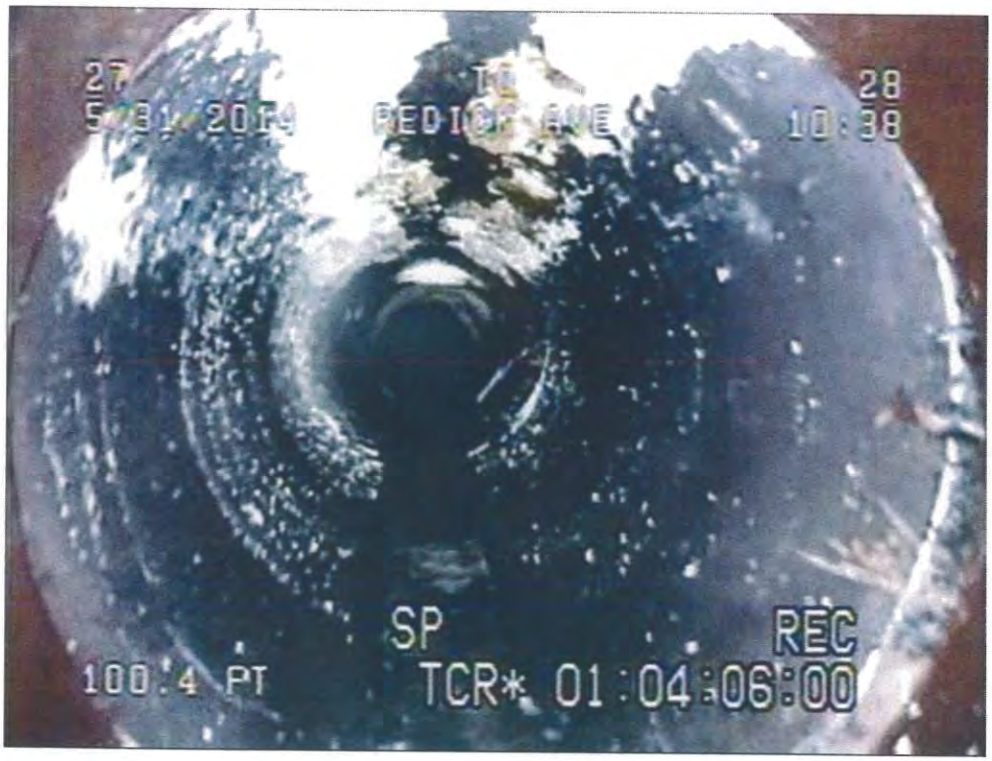
Figure 19

MH 7-8 MINOR SEVERITY CRACKING

In some instances there are no structural issues detected, but there are potential hydraulic concerns. For example ***Figure 20 – MH 27-28 Grease Deposits*** is an indication the flow was at the top of the pipe at some time and the pipe was at capacity. The grease floats on the water, thus it typically deposits at the surface of the water when it is running and cools down. ***Figure 20*** shows it deposited at the top of the pipe, indicating the pipe was running full. When reviewing the system fault map, several blocks were identified with numerous areas of root intrusions, which impedes flow velocity causing the lines to back-up and flow full. This was also a section that had root cutting executed, which should facilitate with the flow capacity of this line.

Figure 20

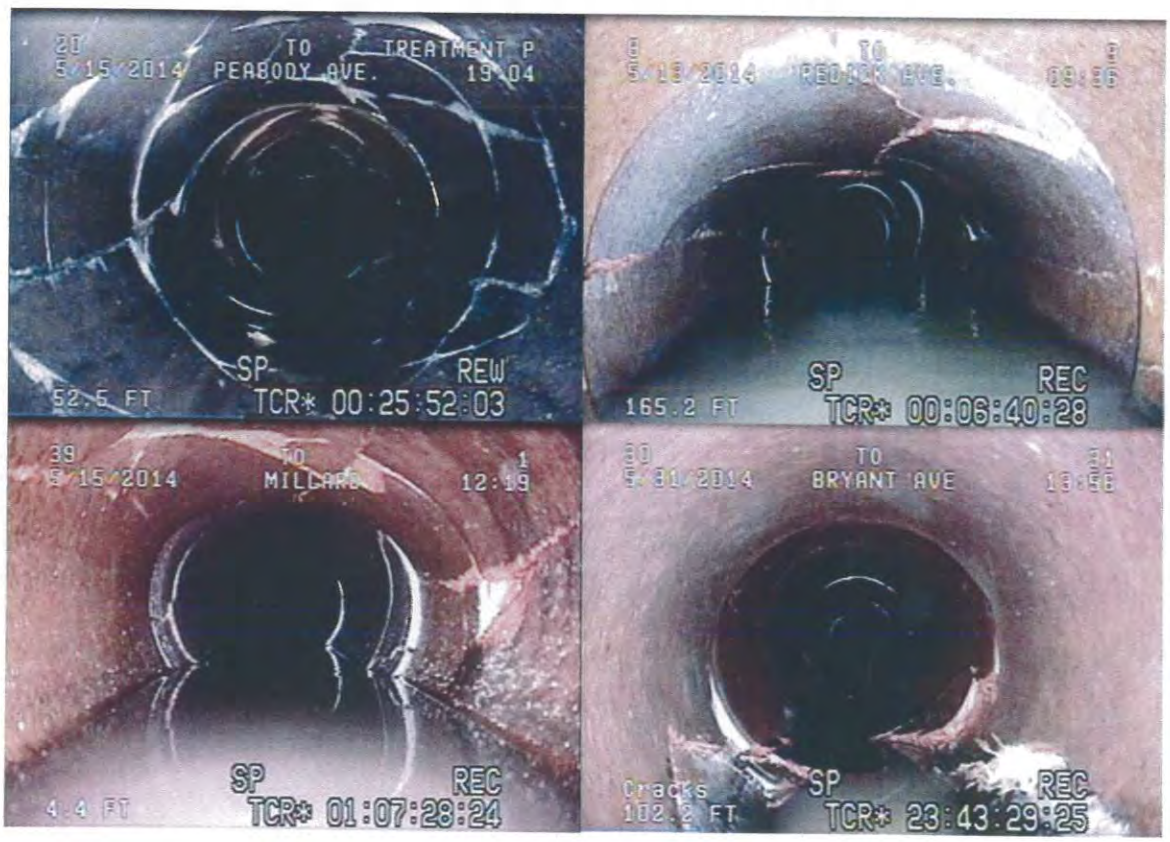
MH 27-28 GREASE DEPOSITS



There were several areas of severe cracking (1st priority ranking), and can be seen in ***Figure 21 – Severe Cracking Various Locations.*** The locations of the severe cracking are identified in the upper portion of each picture for reference. In areas where groundwater is present these cracks are allowing infiltration into the system. If groundwater is below this section of the collection system the potential for sewage leaking to the groundwater is possible. For example, the lower right picture on ***Figure 21*** is on Bryant Avenue from Manhole 30 to 31. This area had some roots identified and is at an elevation where groundwater is not likely an issue. Thus, the broken pipe at the bottom of the sewer line is likely to be leaking wastewater.

Figure 21

SEVERE CRACKING VARIOUS LOCATIONS



The contractor videoed a section of the collection system that showed root intrusion. ***Figure 22 – MH 5-6 Root Intrusion*** is an example of a root intrusion prior to cutting the roots out. The roots are coming in from the pipe joint. The pipes protruding from the top of the pipe are services which are plugged and are not being used. They are plugged correctly, as roots are not intruding at these locations.

Figure 22

MH 5-6 ROOT INTRUSION

There are several other examples of cracks, misaligned joints, and protruding services that can be viewed in the video. One of the immediate concerns identified was from Manhole 8 to 10 and along the primary collection system from Manhole 20 to the WWTF. Two of these examples were shown in ***Figure 20***. Although listed as a 2nd priority, the line from Manhole 18 to 20 had is a section of line which decreased in size from upstream sewer line. Although there was no evidence of surcharging, this could be a restriction in the flow.

2.3 Financial Status of any Existing Facilities

The City Administrator compiled a summary of receipts and expenditures for the sewer system which are included in ***Appendix B***. The City's latest sewer user fee was established on September 8, 2011 at a cost of $31.00 every two months and an additional surcharge of $2.80 per 100 cubic feet of water used during the months of January and February.

The City's sewer revenues are approximately $190,000, and are generated from user fees. Their expenditure breakdown is as follows: salaries and benefits (44%), utilities repairs and insurance (26%), training and professional expenses (6%), capital improvements and equipment (13%), loan repayment to the Clean Water State Revolving Fund (7%) and miscellaneous supplies, gas, vehicles (4%). A copy of the City's current sewer rate ordinance is also included in ***Appendix B.***

The annual operating budget was provided by the City of Creighton and is duplicated below as ***Table 5 – Sewer Budget Summary.***

Table 5
SEWER BUDGET SUMMARY

SEWER FUND	ACTUAL 10-11	Actual 11-12	BUDGET 12-13	ESTIMATED 12-13	PROPOSED 13-14
BEGINNING CASH	15,300	28,458	74,362	72,618	130,574
RECEIPTS					
SEWER USE FEES	155,266	189,629	195,000	196,262	190,000
TAP FEES		0		925	0
RENT OF EQUIPMENT		0		1,672	0
REIMBURSEMENTS		0			0
INSURANCE CLAIMS PAID/OTHER		0			0
LOAN		0			0
INVESTMENT INCOME		0			0
SALE OF EQUIPMENT	866	0			0
TOTAL RECEIPTS	156,132	189,629	195,000	198,859	190,000
EXPENDITURES					
SALARIES	54,718	50,142	55,000	30,790	53,165
HOSPITAL INS	24,992	23,552	26,300	7,702	28,905
FICA	3,846	3,735	4,100	2,176	4,000
UC CONTRIBUTIONS	170	202	265	145	265
DEFERRED COMP	1,444	1,680	1,800	495	1,200
UNIFORMS	318	331	400	255	400
PROFESSIONAL & SCHOOI	5,956	7,538	12,000	12,950	14,000
COMMUNICATIONS	1,612	1,713	1,800	1,500	1,800
TRAVEL			600	1,068	1,500
PRINTING AND PUBLISHINC	41	148	200	0	200
INSURANCE	5,987	4,713	5,000	4,877	5,462
REPAIR BY OTHERS	3,086	7,071	6,000	6,897	8,000
UTILITIES	12,820	10,990	14,000	12,713	15,000
OFFICE SUPPLIES	995	402	1,000	337	1,000
OPERATING SUPPLIES	1,396	1,378	2,500	1,379	2,500
GAS, OIL, ETC	1,092	798	1,300	457	1,300
TIRES, TIRE REPAIR	602		800	0	800
REPAIRS & MAINTENANCE	2,809	4,458	25,000	24,983	25,000
REFUNDS/MISC		2,601	50	0	500
IMPROVEMENTS		0	3,000	0	3,000
EQUIPMENT	5,425		10,000	17,246	15,000
CAP IMPROV		9,016	8,000	0	15,000
MISCELLANEOUS	50		100	1,500	2,000
LOAN PAYMENT	15,615	15,001	16,000	13,433	16,000
TOTAL EXPENDITURES	142,974	145,469	195,215	140,903	215,997
NECESSARY CASH RESERVE		72,618	74,147		104,577
ENDING CASH BALANCE	28,458			130,574	

The final loan payment for the CWSRF is scheduled to be June 15, 2030. The amortization schedule is also provided in ***Appendix B***.

2.4 Water/Energy/Waste Audits

The City of Creighton in conjunction with the Nebraska Department of Environmental Quality is currently conducting an energy audit for the wastewater treatment facility.

Section 3. NEED FOR PROJECT

3.1 Health, Sanitation and Security

As previously stated, failing wastewater infrastructure can pose a significant threat to public health and environment. Systems with inadequate hydraulic capacity, blockages and/or damaged pipe can lead to sanitary sewer overflows (SSOs) which may cause flooding damage to property, or release untreated sewage to receiving waters disturbing environmental quality. Some of the health hazards associated with basement flooding by untreated wastewater include the potential presence of pathogenic microorganisms such as viruses, bacteria and protozoa. (EPA 2009)

The City of Creighton has extraneous flows to the WWTF that are evident from infiltration and inflow to the collection system. These flow exceed the average dry weather flow of 120 gpcd regulated by EPA/NDEQ causing a burden on the citizens for increased pumpage, treatment and transportation. In some areas of the collection system the sewer lines are cracked and damaged and exfiltration to the groundwater system could be a cause of concern to nearby wells. It should be noted the municipal wells are located east of Highway 13, across the Bazile Creek, thus minimally impacted. However, several private wells are located throughout the City and localized exfiltration could be a possible contamination source to the private wells.

The City has experienced backups of the sanitary sewer to residences that could be caused from the excessive root intrusion. In order to routinely maintain the sewer system, a maintenance budget for root cutting will should be implemented or replacement of the lines may be required. The health issues associated with back-ups are difficult to assess, but are a certainty when dealing with sewage.

As previously discussed, video inspection was only performed on approximately 25% of the system as part of this report. Although difficult to quantify, addressing these issues would decrease the amount of infiltration and inflow to the system and would decrease the health issues associated with potential back-ups in residences.

3.2 Aging Infrastructure

Although documentation was not available to verify the exact age of the collection system, the majority of the collection system was believed to be installed in the 1930's. This 70 to 80-year old collection system is showing signs of age in the amount of cracks and joints which have root penetrations. The new gaskets and longer lengths of sewer mains associated with new construction are more resistant to root penetration than older materials.

The main line to the WWTF has been repaired with concrete sections and the pipe diameters have been changed between manholes during the repairs. It is assumed that a structural failure or collapse occurred and an emergency repair was made with the materials readily available. This line indicated major groundwater infiltration.

The line from Manhole 9 to 10 (just prior to the final collection trunk line) shows signs of serious cracking and failures which need to be addressed. This pipe section could not be CCTV'd continuously due to a severe pipe offset (an attempt was made from each direction). This is the most serious concern for structural integrity.

3.3 Reasonable Growth

Although population of the City has declined, the Economic Development Committee and Chamber of Commerce continue to promote business and development in Creighton. A new motel was recently reopened and the prospect of another business is being pursued. With new businesses, comes new residences. The area most likely for new housing development for would be an extension of Millard Avenue to the north, or immediately west of the Millard Avenue on Turner Street north of Miami Street. This area would require new water mains and sewer lines to serve this area, for residential growth. A connection to the sanitary sewer on Millard would increase the flow south on Millard Avenue and then on Lake Street, which had some concerns addressed in this evaluation.

Other potential areas of growth are west of Clark Avenue and east of Peabody Avenue in the southern part of town. These areas would also require new construction of sanitary sewer lines.

Section 4. ALTERNATIVES CONSIDERED

4.1 Description

The alternatives are limited when replacing sanitary sewer lines. Conventional construction (excavation and replacement of the lines) is one alternative. In Creighton most street surfacing consists of bituminous (armor coat) material and conventional construction would require replacement of the street surfacing. However, in areas of high groundwater, the cost of dewatering adds to the conventional construction cost. This type of construction is also the most intrusive to the residents, causing the closure of streets during construction periods and a longer construction period. Conventional construction would include new service connections, eliminating potential incorrectly installed services and conceivable locations for roots and groundwater to enter the system.

Nontraditional construction methods such as insitu repairs can be used to minimize disruption and surface restoration. An example is cure-in-place pipe (CIPP) which is a joint-less pipe within a pipe, which restores the structural integrity of damaged pipes. Even though the cross-sectional area of the pipe is reduced, the smooth, joint-less, interior can improve flow capacity. The installation of the CIPP is a lower cost alternative to complete pipe replacement, especially in areas of high groundwater or under pavement. Other advantages to the CIPP are shorter construction periods, less impact to the users, because service laterals can be cut in rather than reconnected by excavation, thereby potentially providing a reduction in construction cost.

Point repair liners (typically up to 20 feet) are also an alternative, however, if multiple point repairs are required for a pipe section it is more cost effective to install a CIPP liner for the full length of the pipe.

In areas where high groundwater exist, the CIPP can be used in conjunction with a service liner to extend up the service 3 feet and seal the service, likely above the groundwater level. These service connections are installed in the new CIPP liner and do not require excavation of the service.

4.2 Design Criteria

The design parameters for the project include renovation of the existing collection system to reduce and/or eliminate deficiencies that are causing the excessive infiltration/inflow or have the potential to cause SSOs and/or release of untreated sewage to receiving water through damaged or leaking pipe sections.

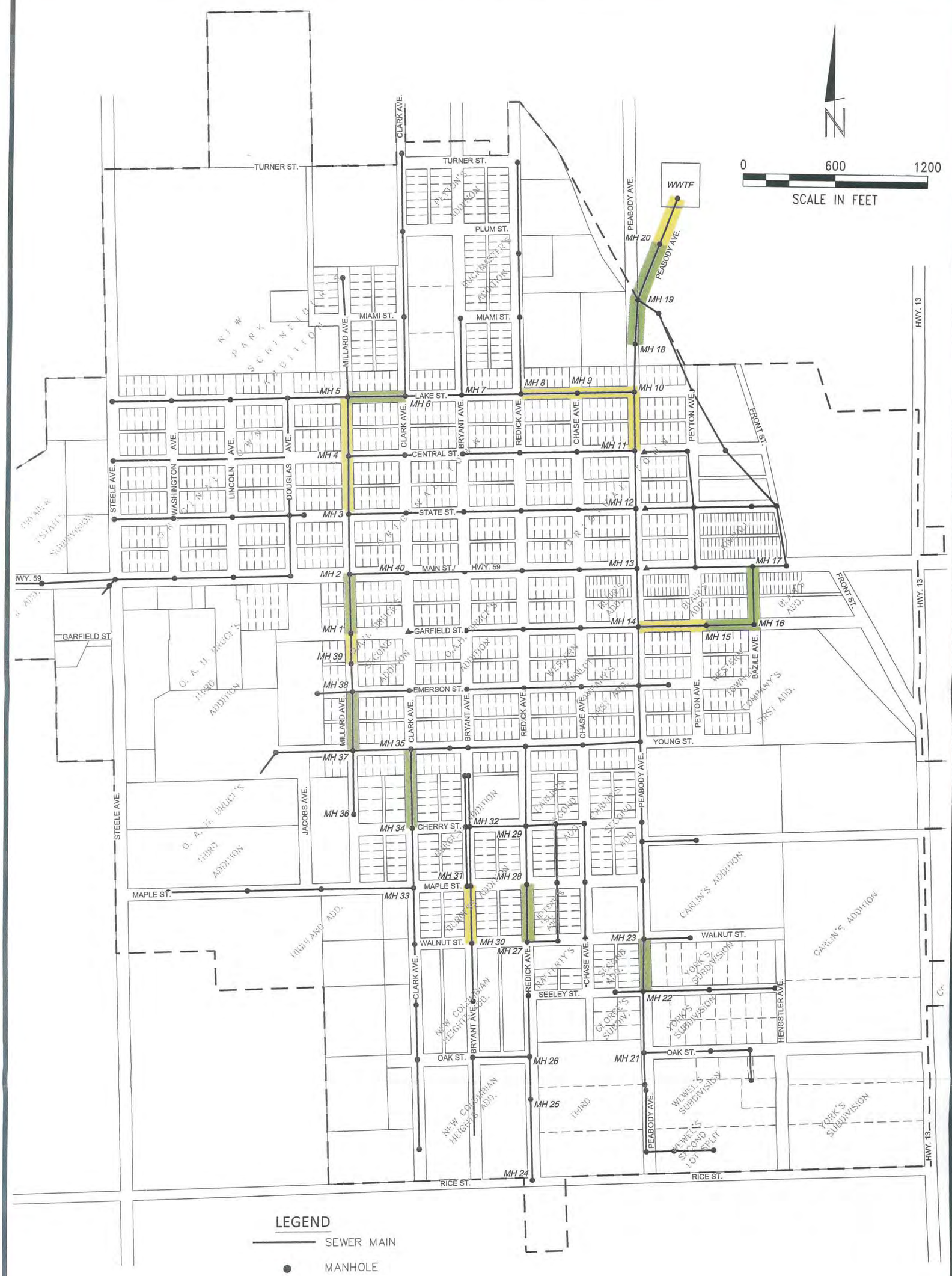
The hydraulic design capacity of the WWTF is currently exceeded due to I/I. Due to the water being a majority of groundwater, no current discharge violations exist. The existing collection system appears to be adequately sized to handle these extraneous flows, but the cost of pumping and treatment along with the continued maintenance to reduce back-up will be a growing concern. Although the proposed CIPP lining would reduce the actual inside diameter of the collection system pipe, the reduction in the friction coefficient should not significantly reduce the capacity of the pipe. All new sanitary sewer main construction would be sized to meet current NDEQ requirements.

As previously discussed, only 22% of the collection system was inspected, however with the use of CDBG funds and a portion of the City budget a majority of the highest problem areas were inspected. There were approximately 16 blocks of sanitary sewer line that the City desired to have inspected, but did not have the funds to accomplish. At the average cost of approximately $800/block, an additional $12,800 would cover the additional CCTV inspection.

4.3 Map

Recommended improvements were divided into three categories or priorities. All of the lines inspected were grouped into 1st, 2nd and 3rd priorities as shown in ***Table 4***. 1st priority was given to severe cracks, possible structure failures, and major trunk lines. Lines that do not serve large areas or only had minor cracks and root intrusions were placed on lower priority.

These three categories are graphically shown in ***Figure 23 – Corrective Action Priorities***. The yellow highlighted lines are the primary (1st priority) concerns for the collection system. The secondary concerns are shown in green and the lines that were CCTV'ed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SCALE IN FEET
WWTF
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PLUM ST.
MIAMI ST.
LAKE ST.
CENTRAL ST.
STATE ST.
MAIN ST.
HWY. 59
GARFIELD ST.
EMERSON ST.
YOUNG ST.
CHERRY ST.
MAPLE ST.
WALNUT ST.
SEELEY ST.
OAK ST.
RICE ST.
CLARK AVE.
MILLARD AVE.
BRYANT AVE.
REDICK AVE.
CHASE AVE.
PEYTON AVE.
PEABODY AVE.
FRONT ST.
HWY. 13
STEELE AVE.
WASHINGTON AVE.
LINCOLN AVE.
DOUGLAS AVE.
JACOBS AVE.
BAZILE AVE.
HENGSTLER AVE.
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MH 39
MH 40
NEW PARK SUBDIVISION
PARKER ISAAC'S SUBDIVISION
O. A. H. BRUCE'S FIRST ADDITION
O. A. H. BRUCE'S SECOND ADDITION
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PARKER'S SIXTH ADDITION
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PARKER'S NINTH ADDITION
PARKER'S TENTH ADDITION
PARKER'S ELEVENTH ADDITION
PARKER'S TWELFTH ADDITION
PARKER'S THIRTEENTH ADDITION
PARKER'S FOURTEENTH ADDITION
PARKER'S FIFTEENTH ADDITION
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PARKER'S THIRTY-SECOND ADDITION
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PARKER'S THIRTY-FIFTH ADDITION
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PARKER'S FOUR HUNDRED EIGHTIETH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-FIRST ADDITION
PARKER'S FOUR HUNDRED EIGHTY-SECOND ADDITION
PARKER'S FOUR HUNDRED EIGHTY-THIRD ADDITION
PARKER'S FOUR HUNDRED EIGHTY-FOURTH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-FIFTH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-SIXTH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-SEVENTH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-EIGHTH ADDITION
PARKER'S FOUR HUNDRED EIGHTY-NINTH ADDITION
PARKER'S FOUR HUNDRED NINETIETH ADDITION
PARKER'S FOUR HUNDRED NINETY-FIRST ADDITION
PARKER'S FOUR HUNDRED NINETY-SECOND ADDITION
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PARKER'S FOUR HUNDRED NINETY-FIFTH ADDITION
PARKER'S FOUR HUNDRED NINETY-SIXTH ADDITION
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PARKER'S FOUR HUNDRED NINETY-EIGHTH ADDITION
PARKER'S FOUR HUNDRED NINETY-NINTH ADDITION
PARKER'S FIVE HUNDRED ADDITION
PARKER'S FIVE HUNDRED FIRST ADDITION
PARKER'S FIVE HUNDRED SECOND ADDITION
PARKER'S FIVE HUNDRED THIRD ADDITION
PARKER'S FIVE HUNDRED FOURTH ADDITION
PARKER'S FIVE HUNDRED FIFTH ADDITION
PARKER'S FIVE HUNDRED SIXTH ADDITION
PARKER'S FIVE HUNDRED SEVENTH ADDITION
PARKER'S FIVE HUNDRED EIGHTH ADDITION
PARKER'S FIVE HUNDRED NINTH ADDITION
PARKER'S FIVE HUNDRED TENTH ADDITION
PARKER'S FIVE HUNDRED ELEVENTH ADDITION
PARKER'S FIVE HUNDRED TWELFTH ADDITION
PARKER'S FIVE HUNDRED THIRTEENTH ADDITION
PARKER'S FIVE HUNDRED FOURTEENTH ADDITION
PARKER'S FIVE HUNDRED FIFTEENTH ADDITION
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PARKER'S FIVE HUNDRED SEVENTEENTH ADDITION
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PARKER'S FIVE HUNDRED TWENTIETH ADDITION
PARKER'S FIVE HUNDRED TWENTY-FIRST ADDITION
PARKER'S FIVE HUNDRED TWENTY-SECOND ADDITION
PARKER'S FIVE HUNDRED TWENTY-THIRD ADDITION
PARKER'S FIVE HUNDRED TWENTY-FOURTH ADDITION
PARKER'S FIVE HUNDRED TWENTY-FIFTH ADDITION
PARKER'S FIVE HUND

and are not highlighted were sufficient at this time. Any project scope will need to be balanced with funding availability. If all the yellow and some green highlighted areas could be completed as one project, it may be the most cost-effective approach. For example, the line entering the WWTF from Manhole 20 to the WWTF needs replaced, so when the contractor is there and is dewatering that area it would also make financial sense to replace the line from Manhole 18 to Manhole 20 in the same contract, even though it is ranked as a secondary priority.

4.4 Environmental Impacts

From an implementation standpoint, all of the proposed alternatives are similar in nature to the level of environmental impact. Once a project is selected by the City Council, correspondence will be transmitted to Local, State and Federal agencies, as well as Tribal authorities, to request comments regarding the proposed project. No impacts to wetlands, endangered or threatened species, prime farmland or other resources are anticipated since the project is replacement of existing sanitary sewer lines.

4.5 Land Requirements

The majority of the collection system improvements will be made within existing City right-of-way or existing easements. Some temporary easements may be required to facilitate construction operations.

4.6 Potential Construction Problems

Construction problems for the proposed project are anticipated to be minimal, but may include locating individual sanitary sewer service connections and dewatering operations during conventional construction activities.

4.7 Sustainability Considerations

Water and Energy Efficiency

The proposed improvements include the renovation, replacement and installation of gravity sewer pipe. There are no pumps or equipment proposed or required to improve energy efficiency for reduction of water use or reuse of wastewater. Therefore this section is not applicable to the proposed project.

Green Infrastructure

The proposed improvements may be considered as green infrastructure in that the installation of CIPP and the repair of broken and/or cracked collection system pipes will reduce some infiltration/inflow and thus could reduce some pumping. The repairs could also reduce sanitary sewer overflows and eliminate some potential of discharge of untreated wastewater to the environment.

Other

There are no additional sustainability considerations with the proposed improvements.

4.8 Cost Estimates

As shown in ***Table 4 – Summary Deficiencies*** *and* ***Figure 23 – Corrective Action Priorities,*** each section of pipe was reviewed, evaluated and ranked for repairs/replacement. The sanitary sewer lines were divided into 1st, 2nd and 3rd priorities. Engineer's Opinion of Probable Construction Cost (EOPCC) for the first two priorities was compiled and is summarized in ***Table 6***. The third priority lines were in a condition that was considered 'no action', and considered maintenance items. The values are presented as calculated but should be rounded to the nearest $100.

Table 6

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST 1ST AND 2ND PRIORITIES

Pipe Run	Description	Construction Cost	Miscellaneous Contingencies & Engineering	Total Project Cost
1st Priority				
1-39	Conventional Replacement	$20,560	$5,140	$25,700
3-4	Conventional Replacement	$45,236	$11,309	$56,545
4-5	Conventional Replacement	$41,777	$10,444	$52,221
8-9	Cure-in-Place Pipe	$58,050	$14,512	$72,562
9-10	Conventional Replacement	$51,622	$12,906	$64,528
10-11	Cure-in-Place Pipe	$28,829	$7,207	$36,036
14-15	Cure-in-Place Pipe	$36,770	$9,193	$45,963
20-WWTF	Conventional Replacement	$22,030	$5,508	$27,538
30-31	Conventional Replacement	$36,874	$9,219	$46,093
			1st Priority Project Total	**$427,186**
2nd Priority				
1-2	Cure-in-Place Pipe	$32,840	$8,210	$41,050
5-6	Cure-in-Place Pipe	$25,460	$6,364	$31,824
15-16	Conventional Replacement	$34,013	$8,503	$42,516
16-17	Cure-in-Place Pipe	$15,200	$3,800	$19,000
18-19	Conventional Replacement	$31,794	$7,948	$39,742
19-20	Cure-in-Place Pipe	$49,450	$12,363	$61,813
22-23	Cure-in-Place Pipe	$15,790	$3,948	$19,738
27-28	Cure-in-Place Pipe	$16,140	$4,035	$20,175
34-35	Cure-in-Place Pipe	$35,830	$8,958	$44,788
37-38	Cure-in-Place Pipe	$23,430	$5,858	$29,288
			2nd Priority Project Total	$349,934

Depending upon the Council's consideration and final selected project, the pipe runs could be further prioritized during a Council or City staff workshop to balance funding. The Council may desire to budget and CCTV inspect the remaining 16 blocks of sanitary sewer lines before selecting a final project.

Section 5. SELECTION OF AN ALTERNATIVE

5.1 Life Cycle Cost Analysis

USDA-RD requires a life cycle cost analysis for all proposed projects. A life cycle cost analysis was prepared for three alternatives. These alternatives include A) Do nothing; B) 1st Priority Projects Only; and C) 1st and 2nd Priority Project as proposed.

Table 7
SANITARY SEWER COLLECTION SYSTEM LIFE CYCLE ANALYSIS

Alternative	*A*	*B*	*C*
Total Capital Cost	$0	$427,186	$777,119
Annual O&M Cost	$50,000	$30,000	$10,000
Present Worth (O&M)	$920,500	$552,300	$184,100
Salvage Value	$74,000	$256,311	$466,272
Present Worth (Salvage Value)	$63,410	$217,865	$396,331
Life Cycle Cost	$857,090	$761,621	$564,889

The life cycle analysis considers the total capital cost plus the present worth operation and maintenance (O&M), minus the present worth salvage values to compare each alternative over a 20-year life cycle. With Option A, "Do Nothing" alternative, the assumption was made that since a majority of the collection system was constructed in the 1930's and has performed beyond its anticipated life, that an average of approximately $50,000 of repairs per year would be required over the next 20 years to maintain the 7,460 feet of lines proposed to be replaced. This is equivalent to replacing approximately 1-block per year for 20 years. The salvage value of the lines as they exist was assumed to be $10/ft. for the piping.

For Alternatives B and C the annual O&M cost was calculated as the fraction of 7,460 feet of lines remaining, times $50,000. The salvage value was assumed to be 60% of the capital cost (30 years left out of 50-year life) remaining at the end of 20 years.

Manufacturers of CIPP infer a properly designed CIPP can last 100-years, however to be conservative, a 50-year life was assumed.

Present worth of O&M cost is the discount rate of 0.8% in a 20-year period based on Appendix C of OMB Circular A-94. Option C, the proposed project alternative, has the lowest life cycle analysis cost over a 20-year period.

5.2 Non-Monetary Factors

One of the primary non-monetary factors for the selection of the alternative of using CIPP is the impact to the users and the surrounding project area. If the collection system was replaced completely or in part by point repair, excavation of the entire area and new surfacing would be required, as well as temporary construction easements. This excavation and replacement would involve more open trenches, dewatering, additional time of construction and more impact to the surrounding area and users. The CIPP typically only requires equipment at two manholes at a time and does not require long-term closure of streets or impact access to property. The installation of the CIPP is completed within the existing pipeline, therefore temporary construction easements are not needed. Areas where structural integrity or pipe size alignment were modified warranted conventional construction methods.

Section 6. PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

6.1 Preliminary Project Design

Preliminary Design would require submission of drawings and specifications to the Nebraska Department of Environmental Quality for review and approval, regardless of the funding package. The CCTV inspections have identified the services and areas of concern for each section. The City has approximately 16 blocks of remaining sewer lines they would like CCTV inspected either prior to or as part of a final project. The sewer lines would be surveyed to check for actual slopes of the lines to verify the existing capacity prior to design and verified that it can handle the anticipated flows. The Council will be required to evaluate their budget as well as other operation and maintenance issues pertaining to the City's needs.

6.2 Project Schedule

A preliminary project schedule has been prepared for completeness could be coordinated with the City's financial burden and funding agency timeline to implement a project. The implementation schedule is outlined in ***Table 8 - Proposed Implementation Schedule.***

Table 8
PROPOSED IMPLEMENTATION SCHEDULE

Task	*Timeline*
Completion and presentation of PER to City (*Completed)*	July 10, 2014
City selects a project and incorporates in the 2014-2015 budget	September 2014
City applies for funding WWAC or private funding	October 2014 to July 2015
City secures financing for project	August 2015
Survey and Design of Proposed Improvements	Sept. 2015 – Feb. 2016
Obtain Permits and Easements	February – April 2016
Obtain Approval from NDEQ and/or Funding Agency to Bid Project, Loan Closing	May – June 2016
Advertise, Bid and Award Proposed Project	June – August 2016
Initiation of Construction of Proposed Improvements	August 2016
Substantial Completion of Proposed Improvements	November 2016
Initiation of Operation	December 2016

The proposed implementation schedule is highly dependent upon Council's decision to pursue a project and securing funding for the proposed project. The schedule will be adjusted accordingly based upon the selection and acquisition of funding.

6.3 Permit Requirements

The City may be required to obtain permits from the Nebraska Department of Roads (NDOR) to occupy right-of-way depending on the project selected, and construction method. It is possible more than one acre will be disturbed during construction of the proposed improvements and a Construction Storm Water Pollution Prevention Plan (SWPPP) would be required for the project if this is the case.

6.4 Sustainability Considerations

Water and Energy Efficiency

The proposed improvements include the renovation, replacement and installation of gravity sewer pipe. There are no pumps or equipment proposed or needed to improve energy efficiency or potential for reduction of water use or reuse of wastewater, therefore this section is not applicable to the proposed project.

Green Infrastructure

The proposed improvements may be considered as green infrastructure in that the installation of CIPP and the repair of broken and/or cracked collection system pipes will reduce sanitary sewer overflows and eliminate some potential of discharge of untreated wastewater to the environment.

Other

There are no additional sustainability considerations with the proposed improvements.

6.5 Total Project Engineers Opinion of Probable Construction Cost

Preliminary Engineer's Opinion of Probable Costs was included for each segment for each priority in ***Table 6***.

6.6 Annual Operating Budget

Income

The actual income in FY 10-11 was $155,266 and $189,629 in FY 11-12. The increased revenue was due to the rate changes which was effective September 8, 2011. An increase in income is not expected with the project unless rates are increased.

Annual O&M Cost

The annual O&M cost increased from approximately $5,000 in FY 11-12 to $25,000 in the FY 12-13 budget, and FY 13-14 proposed budget.

Debt Repayments

Several principal and interest payments were calculated for a proposed project. A summary of several options is provided in ***Table 9 – Debt Repayment Options.***

Table 9

DEBT REPAYMENT OPTIONS

Description	*1st Priority Only*	*1st Priority Only*	*1st and 2nd Priority*	*1st and 2nd Priority*
Funding Option	CWSRF	Conventional	CWSRF	USDA-RD
Project Cost	$427,200	$427,200	$777,100	$777,100
Interest Rate	3%	5%	3%	3%
Term	20	15	20	40
Principal and Interest Payment	$28,715	$41,158	$52,233	$33,619
User Increase per Month	$3.89	$5.58	$7.08	$4.56

There may be other options that can be evaluated. These cost were provided to give Council an idea on user rate cost to perform a project.

Reserves

It appears the reserves were approaching a critical low of $28,458 in FY 10-11, and the increased rates are starting to replenish the reserve funds. If a new project is selected, it is recommended the user rates be adjusted to cover the project cost and keep building the reserve funds. Other expenses such maintenance of the WWTF as it continues to age should be considered in the balance of the reserve funds.

Section 7. CONCLUSIONS AND RECOMMENDATIONS

Based upon the comparison of the alternatives described *[Option A – "Do Nothing"; Option B – 1st Priority Only Project; or Option C – completion of both 1st and 2nd Priority Projects],* the option with the lowest life cycle analysis cost is Option C.

It is recommended that the City evaluate their finances, consider including the additional 16 blocks of problem area sewer lines for approximately $12,800, and prepare an application for funding for improvements to the collection system.

Section 8. ADDITIONAL INFORMATION

During the presentation of this study at a public meeting setting, there was an inquiry on the cost to replace the entire collection system as a ceiling limit on the potential expenditures. The attendees were informed a portion of the collection system was inspected during the study process, and the known problem areas were identified. Non-problem areas with fewer issues were not installed and not anticipated to require replacement. At the request of the attendees and the City Council, two separate Opinions of Probable Construction Cost (OPCC) were prepared to address this inquiry. One OPCC for a proportional system replacement based on the observations of the closed-circuit televising (CCTV), and one OPCC for a total sewer system replacement.

The collection system is comprised of approximately 56,750 lineal feet of sewer main, and the CCTV evaluated 12,922 lineal feet, or 22% of the system. If the remaining portion of the system proportionally requires similar repairs, the proportional cost to replace the entire system would be $3,532,300 as a relative cost ($777,100 / 22%). As previously mentioned, this may be considered overestimating the amount of deteriorated sewer lines, as the CCTV focused on problem areas.

Similarly, with the estimated cost of $777,100 to replace/repair approximately 7,460 lineal feet of collection system, a budgetary figure to replace the entire system footage of 56,750 lineal feet would be $5,911,600 (56,750 / 7460 LF x $777,100).

The following ***Table 10 - Total System Repayment Budget*** was prepared for information purposes only, assuming a 3% interest rate and using a 40-year loan term.

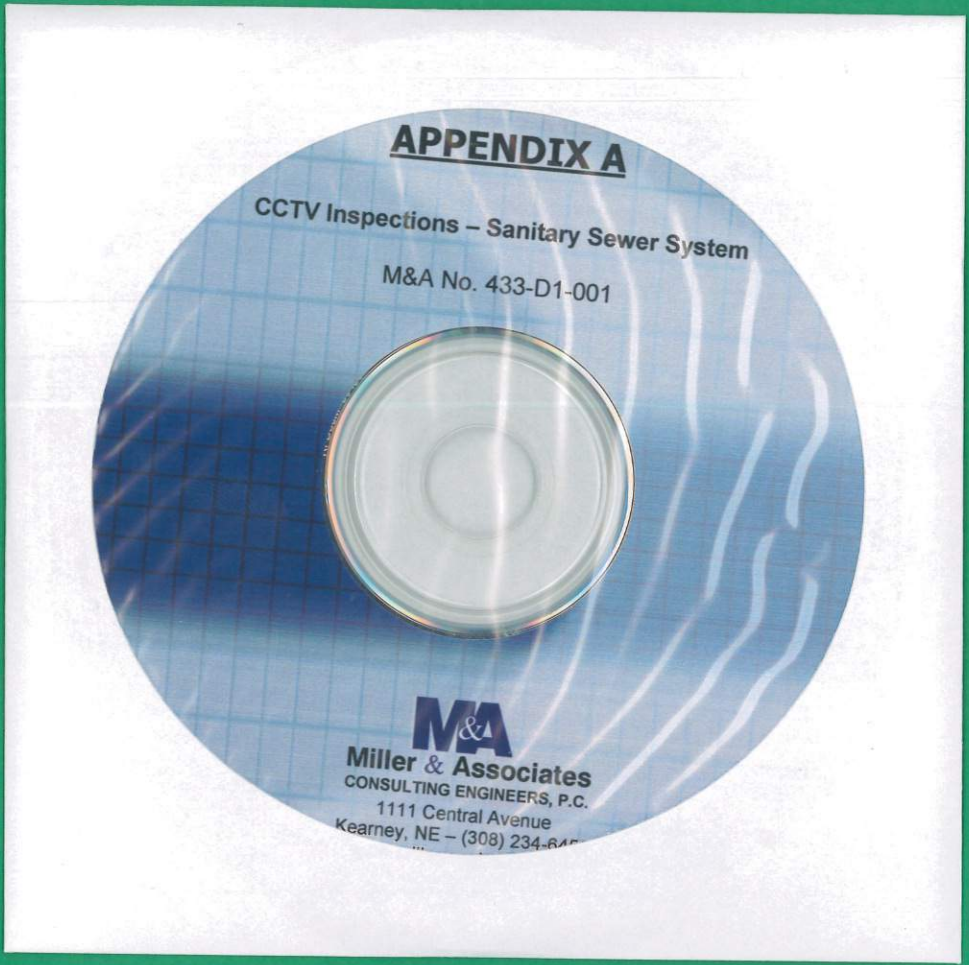
Table 10
TOTAL SYSTEM REPAYMENT BUDGET

Description	*Proportional Replacement*	*Total Replacement*
Funding Option	Unknown	Unknown
Project Cost	$3,532,300	$5,911,600
Interest Rate	3%	3%
Term	40	40
Principal and Interest Payment	$152,816	$255,750
User Increase per Month	$20.71	$34.65

The City also determined at the public meeting to consider adding funds to the operating budget to allow for CCTV for an additional 25% of the collection system to better refine the condition of the system to assist in refining a project scope for design purposes. The additional CCTV would be used to refine the estimates in Table 10 and the need for total system replacement as the remaining lines are inspected. The authorization of this additional CCTV will be discussed at future Council Meetings prior to its implementation.

APPENDIX A

CCTV Inspections – Sanitary Sewer System



APPENDIX B

City of Creighton Financial Information

Sewer Use Ordinance

CWSRF Loan Amortization Schedule

SEWER FUND	ACTUAL 11-12	BUDGET 12-13	ESTIMATED 12-13	PROPOSED 13-14
BEGINNING CASH	28,458	74,362	72,618	130,576
RECEIPTS				
SEWER USE FEES	189,629	195,000	196,262	190,000
TAP FEES		0	925	0
INSURANCE CLAIMS PAID/OTHER		0	1,672	0
LOAN		0		
SALE OF EQUIPMENT		0		
TOTAL RECEIPTS	189,629	195,000	198,859	190,000
EXPENDITURES				
SALARIES	50,142	55,000	30,790	53,165
HOSPITAL INS	23,552	26,300	7,702	28,905
FICA	3,735	4,100	2,176	4,000
UC CONTRIBUTIONS	202	265	145	265
DEFERRED COMP	1,680	1,800	495	1,200
UNIFORMS	331	400	255	400
PROFESSIONAL & SCHOO	7,538	12,000	12,950	14,000
COMMUNICATIONS	1,713	1,800	1,500	1,800
TRAVEL		600	1,068	1,500
PRINTING AND PUBLICATI	148	200	0	200
INSURANCE	4,713	5,000	4,877	5,462
REPAIR BY OTHERS	7,071	6,000	6,897	8,000
UTILITIES	10,990	14,000	12,713	15,000
OFFICE SUPPLIES	402	1,000	337	1,000
OPERATING SUPPLIES	1,378	2,500	1,379	2,500
GAS, OIL, ETC	798	1,300	457	1,300
TIRES, TIRE REPAIR		800	0	800
REPAIRS & MAINTENANCE	4,458	25,000	24,983	25,000
REFUNDS/MISC	2,601	50	0	500
IMPROVEMENTS		3,000	0	3,000
EQUIPMENT		10,000	17,246	15,000
CAP IMPROV	9,016	8,000	0	15,000
MISCELLANEOUS		100	1,500	2,000
LOAN PAYMENT	15,001	16,000	13,433	16,000
TOTAL EXPENDITURES	145,469	195,215	140,901	215,997
NECESSARY CASH RESERVE		74,147		104,579
	72,618		130,576	

City of Creighton
20010-11 Budget

SEWER FUND	ACTUAL 10-11	Actual 11-12	BUDGET 12-13	ESTIMATED 12-13	PROPOSED 13-14
BEGINNING CASH	15,300	28,458	74,362	72,618	130,574
RECEIPTS					
SEWER USE FEES	155,266	189,629	195,000	196,262	190,000
TAP FEES		0		925	0
RENT OF EQUIPMENT		0		1,672	0
REIMBURSEMENTS		0			0
INSURANCE CLAIMS PAID/OTHER		0			0
LOAN		0			0
INVESTMENT INCOME		0			0
SALE OF EQUIPMENT	866	0			0
TOTAL RECEIPTS	156,132	189,629	195,000	198,859	190,000
EXPENDITURES					
SALARIES	54,718	50,142	55,000	30,790	53,165
HOSPITAL INS	24,992	23,552	26,300	7,702	28,905
FICA	3,846	3,735	4,100	2,176	4,000
UC CONTRIBUTIONS	170	202	265	145	265
DEFERRED COMP	1,444	1,680	1,800	495	1,200
UNIFORMS	318	331	400	255	400
PROFESSIONAL & SCHOO	5,956	7,538	12,000	12,950	14,000
COMMUNICATIONS	1,612	1,713	1,800	1,500	1,800
TRAVEL			600	1,068	1,500
PRINTING AND PUBLISHIN	41	148	200	0	200
INSURANCE	5,987	4,713	5,000	4,877	5,462
REPAIR BY OTHERS	3,086	7,071	6,000	6,897	8,000
UTILITIES	12,820	10,990	14,000	12,713	15,000
OFFICE SUPPLIES	995	402	1,000	337	1,000
OPERATING SUPPLIES	1,396	1,378	2,500	1,379	2,500
GAS, OIL, ETC	1,092	798	1,300	457	1,300
TIRES, TIRE REPAIR	602		800	0	800
REPAIRS & MAINTENANCE	2,809	4,458	25,000	24,983	25,000
REFUNDS/MISC		2,601	50	0	500
IMPROVEMENTS		0	3,000	0	3,000
EQUIPMENT	5,425		10,000	17,246	15,000
CAP IMPROV		9,016	8,000	0	15,000
MISCELLANEOUS	50		100	1,500	2,000
LOAN PAYMENT	15,615	15,001	16,000	13,433	16,000
TOTAL EXPENDITURES	142,974	145,469	195,215	140,903	215,997
NECESSARY CASH RESERVE		72,618	74,147		104,577
ENDING CASH BALANCE	28,458			130,574	

G/L YTD LIST BY ACCOUNT
REPORT DATE 06/18/2014 12:05:68 FROM 20110501 THRU 20110630
CITY OF CREIGHTON

DATE POSTED	BTH NO.	ITEM NO.	S R C	T Y P	DATE OF TRANSACT	REFER.	DESCRIPTION OF TRANS	AMOUNT OF DEBIT	AMOUNT OF CREDIT	TOTAL OF MONTH ACTIVITY	YTD
26001							SEWER FEES				
							BALANCE FORWARD				86101.49 CRD
05/23/11	001	00006			05/23/11		BARNYARD SEWERS FEES		29.31		
05/03/11	001	00004	BL		05/03/11	SEWER	RESIDENTIAL CUSTOMER		1902.78		
05/04/11	001	00004	BL		05/04/11	SEWER	RESIDENTIAL CUSTOMER		1017.77		
05/06/11	001	00004	BL		05/06/11	SEWER	RESIDENTIAL CUSTOMER		1320.63		
05/12/11	001	00004	BL		05/12/11	SEWER	RESIDENTIAL CUSTOMER		2738.06		
05/13/11	001	00004	BL		05/13/11	SEWER	RESIDENTIAL CUSTOMER		1054.02		
05/16/11	001	00004	BL		05/16/11	SEWER	RESIDENTIAL CUSTOMER		868.21		
05/17/11	001	00004	BL		05/17/11	SEWER	RESIDENTIAL CUSTOMER		678.50		
05/19/11	001	00004	BL		05/19/11	SEWER	RESIDENTIAL CUSTOMER		1367.81		
05/23/11	001	00004	BL		05/23/11	SEWER	RESIDENTIAL CUSTOMER		2283.79		
05/23/11	002	00004	BL		05/23/11	SEWER	RESIDENTIAL CUSTOMER		732.04		
05/24/11	001	00004	BL		05/24/11	SEWER	RESIDENTIAL CUSTOMER		600.33		
05/27/11	001	00004	BL		05/27/11	SEWER	RESIDENTIAL CUSTOMER		1491.17		
05/31/11	001	00004	BL		05/31/11	SEWER	RESIDENTIAL CUSTOMER		2636.60		
							YTD Total			18721.02 CRD	104822.51 CRD
06/01/11	001	00004	BL		06/01/11	SEWER	RESIDENTIAL CUSTOMER		1564.96		
06/03/11	001	00004	BL		06/03/11	SEWER	RESIDENTIAL CUSTOMER		1258.21		
06/06/11	001	00004	BL		06/06/11	SEWER	RESIDENTIAL CUSTOMER		1320.23		
06/07/11	001	00004	BL		06/07/11	SEWER	RESIDENTIAL CUSTOMER		310.61		
06/09/11	001	00004	BL		06/09/11	SEWER	RESIDENTIAL CUSTOMER		357.74		
06/13/11	001	00004	BL		06/13/11	SEWER	RESIDENTIAL CUSTOMER		479.74		
06/16/11	001	00004	BL		06/16/11	SEWER	RESIDENTIAL CUSTOMER		716.55		
06/28/11	001	00004	BL		06/28/11	SEWER	RESIDENTIAL CUSTOMER		265.24		
06/29/11	001	00004	BL		06/29/11	SEWER	RESIDENTIAL CUSTOMER		13.70		
							YTD Total			6286.98 CRD	111109.49 CRD
7 ?							SALE OF EQUIPMENT				
							BALANCE FORWARD				865.96 CRD
							YTD Total				865.96 CRD
2611							SALARIES & WAGES				
							BALANCE FORWARD				32243.87
05/31/11	001	00013	PR	P	05/31/11		P/R TRANSACTIONS	6128.03			
							YTD Total			6128.03	38371.90
06/30/11	003	00010	PR	P	06/30/11		P/R TRANSACTIONS	4036.05			
							YTD Total			4036.05	42407.95
2613							INSURANCE				
							BALANCE FORWARD				14640.30
05/26/11	001	00040	AP		05/26/11	PRINFI	HEALTH INSURANCE	2159.73			
							YTD Total			2159.73	16800.03
06/13/11	003	00004	AP		06/13/11	BLUECRO	EMPLOYEE HEALTH INSURANCE	1945.33			
06/13/11	003	00017	AP		06/13/11	BLUECRO	Reverse Invoice		1945.33		
06/13/11	003	00024	AP		06/13/11	BLUECRO	EMPLOYEE HEALTH INSURANCE	1945.33			
							YTD Total			1945.33	18745.36
2613.1							EMPLOYEE DENTAL INSURANCE				
							BALANCE FORWARD				
06/13/11	003	00011	AP		06/13/11	AMERITA	EMPLOYEE DENTAL COVERAGE	79.89			
							YTD Total			79.89	79.89
2613.2							EMPLOYEE LIFE INSURANCE				
							BALANCE FORWARD				
06/30/11	001	00020	AP		06/30/11	PRINFI	EMPLOYEE LIFE INSURANCE	11.07			
							YTD Total			11.07	11.07
26 1							EMPLOYEE BENEFITS FICA				
							BALANCE FORWARD				2163.91
05/31/11	001	00014	PR	P	05/31/11		P/R TRANSACTIONS	466.59			

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2614.1	EMPLOYEE BENEFITS FICA										
							YTD Total			466.59	2630.50
06/30/11	003	00011	PR	P	06/30/11		P/R TRANSACTIONS	294.08			
							YTD Total			294.08	2924.58
2614.2	EMPLOYEE BENEFITS UC CONT										
							BALANCE FORWARD				168.26
05/31/11	001	00015	PR	P	05/31/11		P/R TRANSACTIONS	2.20			
							YTD Total			2.20	170.46
2614.3	DEFERRED COMP										
							BALANCE FORWARD				657.06
05/31/11	001	00016	PR	P	05/31/11		P/R TRANSACTIONS	220.73			
							YTD Total			220.73	877.79
06/30/11	003	00012	PR	P	06/30/11		P/R TRANSACTIONS	140.27			
							YTD Total			140.27	1018.06
2619	UNIFORMS, SHIRTS, ETC										
							BALANCE FORWARD				318.28
							YTD Total				318.28
2621	PROFESSIONAL & SCHOOLING										
							BALANCE FORWARD				2777.35
05/12/11	001	00026	AP		05/12/11	CURTWA	LEGAL SERVICES	36.00			
05/12/11	001	00039	AP		05/12/11	JEO	ENGINEERING	74.50			
05/12/11	001	00054	AP		05/12/11	MIDWLA	SEWER TESTING	337.50			
							YTD Total			448.00	3225.35
06/09/11	001	00049	AP		06/09/11	JEO	ENGINEERING	40.00			
06/09/11	001	00054	AP		06/09/11	MIDWLA	SEWER TESTING	365.30			
06/30/11	001	00003	AP		06/30/11	JEO	ENGINEERING	109.00			
							YTD Total			514.30	3739.65
2622	COMMUNICATION, POSTAGE										
							BALANCE FORWARD				959.55
05/12/11	001	00035	AP		05/12/11	PHONE	PHONE/FAX/INTERNET	41.50			
05/26/11	001	00049	AP		05/26/11	USCELL	CELLULAR SERVICE	38.73			
							YTD Total			80.23	1039.78
06/09/11	001	00063	AP		06/09/11	PHONE	PHONE FAX INTERNET	40.53			
06/13/11	002	00002	AP		06/13/11	POSTMA	BILLING POSTAGE	88.00			
06/24/11	001	00060	AP		06/24/11	USCELL	CELL SERVICE	40.30			
							YTD Total			168.83	1208.61
2624	PRINTING AND PUBLISHNG										
							BALANCE FORWARD				23.60
05/12/11	001	00018	AP		05/12/11	CRNEWS	PUBLISHING	17.00			
							YTD Total			17.00	40.60
2625	INSURANCE										
							BALANCE FORWARD				1960.34
06/09/11	001	00028	AP		06/09/11	CROCIN	3RD QTR. INSURANCE	913.50			
06/09/11	001	00040	AP		06/09/11	EMCINS	GRAGERT SEWER BACKUP	1000.00			
							YTD Total			1913.50	3873.84
2626E	UTILITIES-ELECTRICITY										
							BALANCE FORWARD				5412.73
05/26/11	001	00029	AP		05/26/11	NPPD	ELECTRIC SERVICE	868.59			
							YTD Total			868.59	6281.32
06/24/11	001	00044	AP		06/24/11	NPPD	ELECTRIC SERVICE	938.63			
							YTD Total			938.63	7219.[illegible]
2627	REPAIR BY OTHERS										

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2627		REPAIR BY OTHERS									
							BALANCE FORWARD				147.80
06/24/11	001	00050		AP	06/24/11	PAHLCO	SEWER LINE EXCAVATION	690.00			
06/30/11	001	00031		AP	06/30/11	CREIPL	SEWER REPAIR VANDERSNICK	378.00			
							YTD Total			1068.00	1215.80
2628		LOAN PAYMENTS									
							BALANCE FORWARD				1102.68
							YTD Total				1102.68
2629		MISCELLANEOUS									
							BALANCE FORWARD				47.80
							YTD Total				47.80
2631		OFFICE SUPPLIES									
							BALANCE FORWARD				746.28
05/12/11	001	00046		AP	05/12/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	767.19
06/24/11	001	00036		AP	06/24/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	788.10
2632		SUPPLIES-OPERATING									
							BALANCE FORWARD				596.01
05/26/11	001	00007		AP	05/26/11	BOMGAA	SUPPLEIS	12.49			
							YTD Total			12.49	608.50
06/09/11	001	00081		AP	06/09/11	WINNEL	SEWER REPAIR PART	44.23			
06/24/11	001	00016		AP	06/24/11	BOMGAA	SUPPLIES	43.70			
06/24/11	001	00039		AP	06/24/11	MUNINE	REPAIR SUPPLIES	108.68			
06/30/11	001	00005		AP	06/30/11	KELLSP	REPAIR SUPPLIES	43.62			
06/30/11	001	00015		AP	06/30/11	MUNINE	SUPPLIES	76.34			
							YTD Total			316.57	925.07
2632.1		GAS, OIL, ETC.									
							BALANCE FORWARD				577.35
06/09/11	001	00023		AP	06/09/11	CREIPR	FUEL	234.75			
							YTD Total			234.75	812.10
2632.2		TIRES, TIRE REPAIR, ETC.									
							BALANCE FORWARD				519.76
							YTD Total				519.76
2633		REPAIRS & MAINTENANCE									
							BALANCE FORWARD				1880.50
06/30/11	001	00030		AP	06/30/11	CREIPL	SEWER REPAIR VANDERSNICK	418.94			
							YTD Total			418.94	2299.44
2654		CAPITAL OUTLAY-EQUIPMENT									
							BALANCE FORWARD				
06/24/11	001	00032		AP	06/24/11	KAYTON	SKID LOADER	5125.00			
							YTD Total			5125.00	5125.00
2661		PRINCIPAL									
							BALANCE FORWARD				4511.20
05/26/11	001	00023		AP	05/26/11	NEENVI	SRF LOAN PAYMENT	4556.31			
							YTD Total			4556.31	9067.51
2662		INTEREST									
							BALANCE FORWARD				2205.36
05/26/11	001	00024		AP	05/26/11	NEENVI	SRF LOAN PAYMENT	3240.37			
							YTD Total			3240.37	5445.73

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2662	INTEREST										
							BALANCE				2868.16 CRD

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2627	REPAIR BY OTHERS										
							BALANCE FORWARD				2733.08
05/14/09	002	00006		AP	05/14/09	ADAMEL	SERVICE CALLS, SUPPLIES	116.00			
							YTD Total			116.00	2849.08
11/12/09	001	00047		AP	11/12/09	POLLPU	SEWER ROOT CUTTING	9109.50			
							YTD Total			9109.50	11958.58
01/15/10	001	00013		AP	01/15/10	ADAMEL	VARIOUS ELECTRICAL FIXES	246.50			
							YTD Total			246.50	12205.08
02/11/10	001	00001		AP	02/11/10	ADAMEL	B-BALL LIGHTS/SEWER PLANT	35.00			
							YTD Total			35.00	12240.08
05/26/10	001	00026		AP	05/26/10	ADAMEL	SEWER PLANT SENSOR REPAIR	90.00			
							YTD Total			90.00	12330.08
06/10/10	001	00070		AP	06/10/10	OVERHE	SHOP DOOR SPRINGS	205.41			
							YTD Total			205.41	12535.49
09/09/10	001	00048		AP	09/09/10	POLLPU	SEWER CAMERA & ROOT CUTTING	472.50			
09/09/10	001	00049		AP	09/09/10	PORTTI	EXCAVATION ON COLLAPSED SEWER	800.00			
							YTD Total			1272.50	13807.99
12/20/10	001	00001		AP	12/20/10	ADAMEL	SEWER PLANT REPAIR	147.80			
							YTD Total			147.80	13955.79
06/24/11	001	00050		AP	06/24/11	PAHLCO	SEWER LINE EXCAVATION	690.00			
06/30/11	001	00031		AP	06/30/11	CREIPL	SEWER REPAIR VANDERSNICK	378.00			
							YTD Total			1068.00	15023.79
09/14/11	002	00007		AP	09/14/11	POLLPU	SEWER CAMERA AND LINE JETTING	1870.00			
							YTD Total			1870.00	16893.79
10/13/11	001	00055		AP	10/13/11	SDEXCA	SEWER REPAIR	360.00			
							YTD Total			360.00	17253.79
11/10/11	001	00042		AP	11/10/11	HTMSAL	SEWER FLOW METER	120.79			
							YTD Total			120.79	17374.58
12/15/11	001	00030		AP	12/15/11	PAHLCO	SEWER LINE EXCAVATION	562.50			
							YTD Total			562.50	17937.08
04/11/12	002	00016		AP	04/11/12	CREIPL	1 HOUR WORK ON SEWER BACKUP	100.00			
							YTD Total			100.00	18037.08
06/08/12	001	00014		AP	06/08/12	CHRICO	SEWER PLANT REPAIRS	5708.20			
							YTD Total			5708.20	23745.28
07/13/12	001	00024		AP	07/13/12	CREIPL	BALL FIELD & SEWER REPAIRS	220.00			
							YTD Total			220.00	23965.28
10/12/12	001	00012		AP	10/12/12	POLLPU	SEWER MAIN CLEANING SERVICE	1262.50			
10/12/12	001	00048		AP	10/12/12	ADAMEL	SEWER PLANT ELECTRICAL SERVICE	70.50			
							YTD Total			1333.00	25298.28
11/26/12	001	00024		AP	11/26/12	TAUBPLU	FIRE HYDRANT REPAIR & WATER LI	360.00			
11/26/12	001	00039		AP	11/26/12	CREIPL	YOUNG ST SEWER MAIN REPAIR	414.41			
11/26/12	001	00056		AP	11/26/12	TAUBPLU	Reverse Invoice		360.00		
11/26/12	001	00058		AP	11/26/12	TAUBPLU	FIRE HYDRANT REPAIR & WATER LI	360.00			
							YTD Total			774.41	26072.69
12/17/12	001	00066		AP	12/17/12	PAHLCO	YOUNG ST EXCAVATION	525.00			
							YTD Total			525.00	26597.69
01/24/13	001	00057		AP	01/24/13	TAUBPLU	PEYTON INTERSECTION SRVCS	340.00			
							YTD Total			340.00	26937.69
03/15/13	001	00032		AP	03/15/13	CREIPL	GARFIELD/PEYTON SEWER BACK UP	60.00			
							YTD Total			60.00	26997.69
04/12/13	001	00026		AP	04/12/13	POLLPU	SEWER MAIN TREE CUTTING SRVCS	832.50			
							YTD Total			832.50	27830.19
05/28/13	001	00001		AP	05/28/13	CREIPL	SEWER BACKUP SERVICES	40.00			
							YTD Total			40.00	27870.19
06/14/13	001	00033		AP	06/14/13	ASCHCONS	PEYTON AVENUE STREET REPAIR	1842.70			
							YTD Total			1842.70	29712.89
01/10/14	001	00020		AP	01/10/14	RAYS	WELLHOUSE & WWTF REPAIR SRVCS	128.67			
							YTD Total			128.67	29841.56
02/13/14	002	00037		AP	02/13/14	RAYS	WWTF FAN REPAIRS, WATER SUPPLI	64.07			
							YTD Total			64.07	29905.63
05/12/14	002	00044		AP	05/12/14	SUKUPS	SEWER, PD VEHICLE REPAIRS	112.29			

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2627		REPAIR BY OTHERS									
							YTD Total			112.29	30017.92
2628		LOAN PAYMENTS									
							BALANCE FORWARD				
11/24/10	001	00013		AP	11/24/10	NDEQ	CLEAN WATER SRF PAYMENT	1102.68			
							YTD Total			1102.68	1102.68
2629		MISCELLANEOUS									
							BALANCE FORWARD				25.40
11/19/09	002	00006		AP	11/19/09	BOMGAA	OPERATING SUPPLIES	4.99			
							YTD Total			4.99	30.39
12/11/09	001	00013		AP	12/11/09	BLOBAK	SEWER WORKSHOP REFRESHMENTS	20.10			
							YTD Total			20.10	50.49
11/24/10	001	00007		AP	11/24/10	BLOBAK	SEWER CLASS ROLLS	22.80			
							YTD Total			22.80	73.29
12/08/10	001	00007		AP	12/08/10	MIDWBA	CREIGHTON BUCKS FOR EMPLOYEES	25.00			
							YTD Total			25.00	98.29
11/21/11	001	00004		AP	11/21/11	BLOBAK	SEWER CLASS ROLLS	41.40			
							YTD Total			41.40	139.69
03/23/12	001	00004		AP	03/23/12	BERTMA	FURNACE FILTER/SEWER BACKUP	13.83			
							YTD Total			13.83	153.52
05/24/12	001	00039		AP	05/24/12	NDEQ	SRF PAYMENT	1034.33			
							YTD Total			1034.33	1187.85
08/10/12	001	00024		AP	08/10/12	MINIMT	FUEL	8.57			
							YTD Total			8.57	1196.42
09/20/12	001	00001		AP	09/20/12	MELCHRIC	RENT	1500.00			
							YTD Total			1500.00	269
07/12/13	001	00068		AP	07/12/13	MELCHRIC	RENT	1500.00			
							YTD Total			1500.00	4196.42
04/14/14	001	00067		AP	04/14/14	MELCHRIC	RENT 13-14 ARREARS	1500.00			
04/14/14	001	00068		AP	04/14/14	MELCHRIC	RENT 14-15 ADVANCE	1500.00			
							YTD Total			3000.00	7196.42
2631		OFFICE SUPPLIES									
							BALANCE FORWARD				
02/11/10	001	00049		AP	02/11/10	QUILL	OFFICE SUPPLIES	33.27			
							YTD Total			33.27	33.27
05/13/10	001	00065		AP	05/13/10	QUILL	OFFICE SUPPLIES	8.97			
							YTD Total			8.97	42.24
06/10/10	001	00074		AP	06/10/10	QUILL	OFFICE SUPPLIES	33.39			
06/10/10	001	00094		AP	06/10/10	WESTRN	COPIER CONTRACT	65.79			
							YTD Total			99.18	141.42
07/26/10	001	00037		AP	07/26/10	QUILL	OFFICE SUPPLIES	69.55			
							YTD Total			69.55	210.97
08/12/10	004	00007		AP	08/12/10	QUILL	OFFICE SUPPLIES	42.46			
08/12/10	004	00011		AP	08/12/10	QUILL	Reverse Invoice		42.46		
08/12/10	004	00015		AP	08/12/10	QUILL	OFFICE SUPPLIES	42.46			
08/12/10	003	00060		AP	08/12/10	WESTRN	OFFICE SUPPLIES	17.24			
							YTD Total			59.70	270.67
10/13/10	001	00076		AP	10/13/10	WESTRN	COPIER SERVICE CONTRACT	39.80			
10/25/10	001	00010		AP	10/25/10	LEAF	COPIER CONTRACT	41.27			
							YTD Total			81.07	351.74
11/10/10	002	00006		AP	11/10/10	LEAF	COPIER CONTRACT	19.55			
							YTD Total			19.55	371.29
12/09/10	001	00030		AP	12/09/10	EAKEOF	OFFICE SUPPLIES	33.12			
12/16/10	001	00006		AP	12/16/10	DELUBU	CHECKS	27.14			
12/16/10	001	00021		AP	12/16/10	LEAF	COPIER CONTRACT	20.91			
12/20/10	001	00014		AP	12/20/10	EAKEOF	OFFICE SUPPLIES	102.48			
							YTD Total			183.65	554.94
01/20/11	001	00017		AP	01/20/11	CRNEWS	PUBLISHING	70.20			

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2631		OFFICE SUPPLIES									
01/20/11	001	00033		AP	01/20/11	EAKEOF	OFFICE SUPPLIES	102.48			
01/20/11	001	00051		AP	01/20/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			193.59	748.53
02/09/11	004	00036		AP	02/09/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	769.44
03/10/11	002	00021		AP	03/10/11	EAKEOF	OFFICE SUPPLIES	50.22			
03/10/11	002	00051		AP	03/10/11	QUILL	OFFICE SUPPLIES	88.61			
03/25/11	001	00016		AP	03/25/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			159.74	929.18
04/14/11	001	00030		AP	04/14/11	EAKEOF	OFFICE SUPPLIES	66.86			
04/14/11	001	00046		AP	04/14/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			87.77	1016.95
05/12/11	001	00046		AP	05/12/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1037.86
06/24/11	001	00036		AP	06/24/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1058.77
07/14/11	001	00052		AP	07/14/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1079.68
08/11/11	001	00028		AP	08/11/11	ELITEOF	OFFICE SUPPLIES	63.93			
08/22/11	001	00026		AP	08/22/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			84.84	1164.52
09/14/11	002	00012		AP	09/14/11	LEAF	COPIER CONTRACT	20.91			
09/22/11	001	00017		AP	09/22/11	ELITEOF	OFFICE SUPPLIES	80.00			
							YTD Total			100.91	1265.43
10/13/11	001	00035		AP	10/13/11	LEAF	COPIER CONTRACT	20.91			
10/13/11	001	00071		AP	10/13/11	WESTRN	COPIER SERVICE	114.34			
							YTD Total			135.25	1400.68
11/21/11	001	00027		AP	11/21/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1421.59
12/15/11	001	00025		AP	12/15/11	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1442.50
01/12/12	001	00040		AP	01/12/12	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1463.41
02/22/12	001	00019		AP	02/22/12	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1484.32
03/23/12	001	00047		AP	03/23/12	LEAF	COPIER CONTRACT	20.91			
03/23/12	001	00062		AP	03/23/12	QUILL	OFFICE SUPPLIES	54.61			
							YTD Total			75.52	1559.84
04/11/12	002	00024		AP	04/11/12	EAKEOP	OFFICE SUPPLIES	19.06			
04/11/12	002	00042		AP	04/11/12	LEAF	COPIER CONTRACT	20.91			
							YTD Total			39.97	1599.81
09/14/12	001	00037		AP	09/14/12	EAKEOP	BILLING ENVELOPES	67.95			
							YTD Total			67.95	1667.76
10/25/12	001	00047		AP	10/25/12	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1688.67
11/26/12	001	00043		AP	11/26/12	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1709.58
12/17/12	001	00062		AP	12/17/12	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1730.49
01/24/13	001	00018		AP	01/24/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1751.40
02/15/13	001	00048		AP	02/15/13	LEAF	COPIER CONTRACT & TAXES	36.09			
							YTD Total			36.09	1787.49
03/15/13	001	00084		AP	03/15/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1808.40
04/12/13	001	00005		AP	04/12/13	LEAF	COPIER LEASE	20.91			
04/12/13	001	00035		AP	04/12/13	CRNEWS	PUBLISHING AND PRINTING FEES	18.94			
04/12/13	001	00064		AP	04/12/13	EAKEOP	BILLING ENV & OFFICE PAPER	37.31			
							YTD Total			77.16	1885.56
05/28/13	001	00017		AP	05/28/13	LEAF	COPIER CONTRACT	20.91			

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2631		OFFICE SUPPLIES									
							YTD Total			20.91	1906.47
06/14/13	001	00025		AP	06/14/13	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1927.38
07/25/13	001	00021		AP	07/25/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1948.29
08/26/13	001	00023		AP	08/26/13	LEAF	COPIER CONTRACT	20.91			
							YTD Total			20.91	1969.20
09/19/13	001	00038		AP	09/19/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	1990.11
10/11/13	001	00019		AP	10/11/13	WESTRN	13-14 COPIER CONTRACT	162.42			
10/25/13	001	00030		AP	10/25/13	LEAF	COPIER LEASE	20.91			
							YTD Total			183.33	2173.44
11/15/13	001	00058		AP	11/15/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	2194.35
12/13/13	001	00050		AP	12/13/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	2215.26
01/10/14	001	00042		AP	01/10/14	EAKEOP	OFFICE, BILLING SUPPLIES	46.99			
01/27/14	001	00032		AP	01/27/14	LEAF	COPIER LEASE	20.91			
							YTD Total			67.90	2283.16
02/13/14	002	00013		AP	02/13/14	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	2304.07
03/14/14	001	00068		AP	03/14/14	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	2324.98
04/14/14	001	00058		AP	04/14/14	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	2345.89
05/27/14	001	00016		AP	05/27/14	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	236'
2632		SUPPLIES-OPERATING									
							BALANCE FORWARD				672.01
01/08/09	002	00015		AP	01/08/09	BOMGAA	SUPPLIES,ETC	29.99			
01/20/09	001	00001		AP	01/20/09	DOLLGE	SUPPLIES	3.00			
							YTD Total			32.99	705.00
02/12/09	004	00024		AP	02/12/09	BOMGAA	SUPPLIES, REPAIRS	9.98			
							YTD Total			9.98	714.98
03/12/09	001	00052		AP	03/12/09	GRAGGR	SUPPLIES	17.98			
03/12/09	001	00054		AP	03/12/09	GRAPHI	SUPPLIES	187.94			
03/12/09	001	00102		AP	03/12/09	R & K	SUPPLIES, REPAIRS	53.72			
03/12/09	001	00120		AP	03/12/09	WESTLU	CONCRETE	21.45			
							YTD Total			281.09	996.07
04/09/09	003	00039		AP	04/09/09	GRAING	SUPPLIES	183.96			
							YTD Total			183.96	1180.03
05/14/09	002	00005		AP	05/14/09	ADAMEL	SERVICE CALLS, SUPPLIES	197.23			
05/14/09	002	00042		AP	/ /	GRAGGR	SUPPLIES	10.70			
							YTD Total			207.93	1387.96
06/11/09	004	00018		AP	06/11/09	BOMGAA	SUPPLIES, REPAIRS	3.99			
							YTD Total			3.99	1391.95
07/10/09	001	00012		AP	07/10/09	BOMGAA	SUPPLIES & REPAIRS	3.99			
07/10/09	001	00033		AP	07/10/09	DOLLGE	SUPPLIES	2.75			
07/10/09	001	00064		AP	07/10/09	R & K	SUPPLIES	13.59			
							YTD Total			20.33	1412.28
08/13/09	002	00003		AP	08/13/09	BOMGAA	OPERATING SUPPLIES	3.87			
08/13/09	002	00044		AP	08/13/09	MUNINE	SEWER PLANT SUPPLIES	485.63			
08/13/09	002	00072		AP	08/13/09	USABLU	OPERATING SUPPLIES SEWER PLANT	149.18			
							YTD Total			638.68	2050.96
09/11/09	001	00010		AP	09/11/09	BOMGAA	MISC. SUPPLIES	10.65			
09/11/09	001	00057		AP	09/11/09	ROOTX	SEWER SAMPLE JARS	241.17			
09/23/09	002	00023		AP	09/23/09	COLRES	SEWER ROOT KILLER	203.10			
							YTD Total			454.92	2505.88
10/09/09	001	00046		AP	10/09/09	GRAGGR	SUPPLIES	18.98			

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2632		SUPPLIES-OPERATING									
							YTD Total			18.98	2524.86
11/19/09	002	00007		AP	11/19/09	BOMGAA	OPERATING SUPPLIES	16.99			
							YTD Total			16.99	2541.85
12/11/09	001	00025		AP	12/11/09	DOLLGE	MISC. SUPPLIES	7.50			
							YTD Total			7.50	2549.35
04/09/10	001	00021		AP	04/09/10	FIREDP	FIRE EXTINGUISHERS	134.00			
04/22/10	001	00016		AP	04/22/10	NATENV	SEWER ROOT KILLER	129.16			
							YTD Total			263.16	2812.51
06/10/10	001	00043		AP	06/10/10	GRAPHI	SEWER SUPPLIES	71.35			
							YTD Total			71.35	2883.86
08/12/10	003	00010		AP	08/12/10	BOMGAA	SUPPLIES	2.97			
08/12/10	004	00017		AP	08/12/10	R & K	SUPPLIES	43.08			
							YTD Total			46.05	2929.91
09/21/10	001	00025		AP	09/21/10	R & K	SUPPLIES	64.65			
							YTD Total			64.65	2994.56
10/13/10	001	00014		AP	10/13/10	BOMGAA	SUPPLIES	24.48			
10/13/10	001	00069		AP	10/13/10	R & K	REPAIR SUPPLIES	15.44			
							YTD Total			39.92	3034.48
11/10/10	001	00016		AP	11/10/10	BOMGAA	SUPPLIES	4.02			
							YTD Total			4.02	3038.50
12/09/10	001	00007		AP	12/09/10	BOMGAA	SUPPLIES	45.54			
12/09/10	001	00035		AP	12/09/10	GRAGGR	BOTTLED WATER & SUPPLIES	17.15			
12/09/10	001	00063		AP	12/09/10	R & K	REPAIR SUPPLIES AND TOOLS	162.62			
12/20/10	001	00038		AP	12/20/10	USABLU	SUPPLIES	54.43			
12/23/10	001	00005		AP	12/23/10	BOMGAA	SUPPLIES	38.33			
							YTD Total			318.07	3356.57
01/20/11	001	00064		AP	01/20/11	R & K	SUPPLIES	3.49			
							YTD Total			3.49	3360.06
03/10/11	001	00006		AP	03/10/11	BOMGAA	SUPPLIES	29.35			
03/10/11	002	00024		AP	03/10/11	EASYCO	COMPUTER AND REPAIRS	83.99			
							YTD Total			113.34	3473.40
04/25/11	001	00005		AP	04/25/11	BOMGAA	SUPPLIES	117.17			
							YTD Total			117.17	3590.57
05/26/11	001	00007		AP	05/26/11	BOMGAA	SUPPLEIS	12.49			
							YTD Total			12.49	3603.06
06/09/11	001	00081		AP	06/09/11	WINNEL	SEWER REPAIR PART	44.23			
06/24/11	001	00016		AP	06/24/11	BOMGAA	SUPPLIES	43.70			
06/24/11	001	00039		AP	06/24/11	MUNINE	REPAIR SUPPLIES	108.68			
06/30/11	001	00005		AP	06/30/11	KELLSP	REPAIR SUPPLIES	43.62			
06/30/11	001	00015		AP	06/30/11	MUNINE	SUPPLIES	76.34			
							YTD Total			316.57	3919.63
08/11/11	001	00004		AP	08/11/11	BOMGAA	SUPPLIES	83.51			
08/11/11	001	00079		AP	08/11/11	WINNEL	WATER SUPPLIES	150.16			
							YTD Total			233.67	4153.30
09/08/11	001	00015		AP	09/08/11	BOMGAA	SUPPLIES	24.99			
09/22/11	001	00011		AP	09/22/11	BOMGAA	SUPPLIES	14.36			
09/22/11	001	00041		AP	09/22/11	WINNEL	SEWER SUPPLIES	197.56			
							YTD Total			236.91	4390.21
10/13/11	001	00067		AP	10/13/11	UNIRENT	RENTAL	88.33			
							YTD Total			88.33	4478.54
11/08/11	001	00002		AP	11/08/11	MIDWBA	TRASH PUMP	729.21			
11/10/11	001	00023		AP	11/10/11	BOMGAA	SUPPLIES	32.98			
11/10/11	001	00060		AP	11/10/11	R & K	SUPPLIES	3.24			
11/10/11	001	00061		AP	11/10/11	RAYS	CLARIFIER MOTOR	219.15			
							YTD Total			984.58	5463.12
12/07/11	001	00014		AP	12/07/11	BOMGAA	SUPPLIES	42.82			
							YTD Total			42.82	5505.94
01/12/12	001	00058		AP	01/12/12	R & K	SUPPLIES	6.73			
							YTD Total			6.73	5512.67
03/08/12	001	00009		AP	03/08/12	BOMGAA	SUPPLIES	60.04			

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2632	SUPPLIES-OPERATING										
03/08/12	001	00018		AP	03/08/12	DOLLGE	SUPPLIES	12.10			
03/08/12	001	00056		AP	03/08/12	WINNEL	SUPPLIES	82.50			
03/23/12	001	00043		AP	03/23/12	LARGMF	PIPE	35.00			
							YTD Total			189.64	5702.31
06/08/12	001	00023		AP	06/08/12	DAVEFE	MOUSE FEED	10.00			
							YTD Total			10.00	5712.31
07/13/12	001	00023		AP	07/13/12	BOMGAA	PARK, POOL, SHOP, AND WWTF SUP	2.40			
							YTD Total			2.40	5714.71
08/27/12	003	00043		AP	08/27/12	BOMGAA	WATER, MAINTENANCE, SEWER, & P	53.98			
							YTD Total			53.98	5768.69
10/25/12	001	00025		AP	10/25/12	MUNINE	SAFETY TAPE	59.85			
							YTD Total			59.85	5828.54
01/11/13	001	00010		AP	01/11/13	WESTLU	WATER, SEWER, AND STREET REPAI	652.50			
01/11/13	001	00028		AP	01/11/13	R & K	SHOP AND SEWER SUPPLIES	25.89			
01/24/13	001	00047		AP	01/24/13	BOMGAA	WATER, SHOP, AND SEWER SUPPLIE	21.43			
							YTD Total			699.82	6528.36
02/22/13	001	00035		AP	02/22/13	BOMGAA	POLICE, WATER, SHOP, AND CITY	18.61			
							YTD Total			18.61	6546.97
03/15/13	001	00060		AP	03/15/13	R & K	SHOP AND SEWER SUPPLIES	42.21			
							YTD Total			42.21	6589.18
04/12/13	001	00017		AP	04/12/13	R & K	WWTF SUPPLIES	40.98			
04/12/13	001	00023		AP	04/12/13	WESTLU	PARK, WWTF, WTP, AND CITY OFFI	54.96			
04/12/13	001	00029		AP	04/12/13	USABLU	WATER & SEWER MAIN COUPLINGS	75.25			
04/12/13	001	00033		AP	04/12/13	BAZICR	MOWER SRVCS/WWTF SUPPLIES	12.94			
04/25/13	001	00006		AP	04/25/13	BOMGAA	WATER, SHOP, AND SEWER SUPPLIE	11.49			
							YTD Total			195.62	6784.80
05/10/13	001	00041		AP	05/10/13	BOMGAA	WWTF AND SHOP SUPPLIES	132.71			
							YTD Total			132.71	691[illegible]
08/09/13	001	00060		AP	08/09/13	R & K	SEWER, POOL SUPPLIES	158.63			
							YTD Total			158.63	7076.14
09/09/13	002	00006		AP	09/09/13	CARDME	SEWER, GENERAL EDUCATION SUPPL	47.01			
							YTD Total			47.01	7123.15
10/11/13	001	00015		AP	10/11/13	CREIPL	CAMERA, LAKE ST. SEWER, & PART	2.00			
10/11/13	001	00029		AP	10/11/13	R & K	SEWER SUPPLIES	13.79			
10/25/13	001	00008		AP	10/25/13	BOMGAA	SHOP, SEWER, PARK, WATER, POOL	40.44			
							YTD Total			56.23	7179.38
01/10/14	001	00023		AP	01/10/14	WESTLU	WTP AND WWTF SUPPLIES	29.44			
							YTD Total			29.44	7208.82
03/14/14	001	00046		AP	03/14/14	CREIPR	OCT-DEC 2013 FUEL	2.25			
							YTD Total			2.25	7211.07
05/12/14	002	00019		AP	05/12/14	BOMGAA	WATER, SHOP, PARK, SEWER SUPPS	6.99			
							YTD Total			6.99	7218.06
2632.1	GAS, OIL, ETC.										
							BALANCE FORWARD				127.56
01/09/09	001	00025		AP	01/09/09	MINIMT	GAS, DIESEL	38.04			
							YTD Total			38.04	165.60
02/12/09	004	00134		AP	02/12/09	MINIMT	GAS, DIESEL	37.55			
							YTD Total			37.55	203.15
03/12/09	001	00029		AP	03/12/09	CREIPR	GAS, DIESEL	74.50			
							YTD Total			74.50	277.65
04/09/09	003	00028		AP	04/09/09	CREIPR	GAS,ETC	62.99			
							YTD Total			62.99	340.64
05/14/09	002	00028		AP	05/14/09	CREIPR	GAS,ETC	30.00			
							YTD Total			30.00	370.64
06/11/09	004	00036		AP	06/11/09	CREIPR	GAS, ETC	63.98			
06/12/09	001	00029		AP	06/12/09	MINIMT	GAS, DIESEL, ETC	33.50			
							YTD Total			97.48	466[illegible]
07/10/09	001	00022		AP	07/10/09	CREIPR	GAS & CAR WASHES	50.94			
							YTD Total			50.94	519.06

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2632.1 GAS, OIL, ETC.											
08/13/09	002	00013		AP	08/13/09	CREIPR	GAS AND CAR WASHES	46.27			
							YTD Total			46.27	565.33
09/11/09	001	00065		AP	09/11/09	MINIMT	FUEL AND OIL	11.01			
							YTD Total			11.01	576.34
10/09/09	001	00033		AP	10/09/09	CREIPR	GAS AND OIL	49.47			
10/16/09	002	00008		AP	10/16/09	R & K	MISC. PARTS & SUPPLIES	37.91			
							YTD Total			87.38	663.72
12/11/09	001	00019		AP	12/11/09	CREIPR	FUEL	33.00			
12/11/09	001	00071		AP	12/11/09	MINIMT	FUEL	57.29			
							YTD Total			90.29	754.01
02/11/10	001	00013		AP	02/11/10	CREIPR	FUEL & CARWASHES	59.00			
							YTD Total			59.00	813.01
04/22/10	001	00007		AP	04/22/10	CREIPR	FUEL	57.00			
							YTD Total			57.00	870.01
05/13/10	001	00024		AP	05/13/10	CREIPR	FUEL	50.90			
							YTD Total			50.90	920.91
06/10/10	001	00031		AP	06/10/10	CREIPR	FUEL	200.54			
							YTD Total			200.54	1121.45
07/08/10	001	00032		AP	07/08/10	CREIPR	FUEL & POLICE CAR WASHES	109.50			
							YTD Total			109.50	1230.95
09/09/10	001	00014		AP	09/09/10	CREIPR	FUEL AND POLICE CARWASHES	88.39			
							YTD Total			88.39	1319.34
10/13/10	001	00025		AP	10/13/10	CREIPR	FUEL	84.60			
							YTD Total			84.60	1403.94
11/10/10	001	00029		AP	11/10/10	CREIPR	FUEL & POLICE CARWASHES	292.76			
							YTD Total			292.76	1696.70
12/09/10	001	00017		AP	12/09/10	CREIPR	FUEL	83.50			
							YTD Total			83.50	1780.20
01/20/11	001	00022		AP	01/20/11	CREIPR	FUEL	63.99			
							YTD Total			63.99	1844.19
04/14/11	001	00022		AP	04/14/11	CREIPR	FUEL	52.50			
							YTD Total			52.50	1896.69
06/09/11	001	00023		AP	06/09/11	CREIPR	FUEL	234.75			
							YTD Total			234.75	2131.44
07/14/11	001	00022		AP	07/14/11	CREIPR	FUEL	55.43			
							YTD Total			55.43	2186.87
08/11/11	001	00016		AP	08/11/11	CREIPR	FUEL	147.88			
							YTD Total			147.88	2334.75
09/08/11	001	00028		AP	09/08/11	CREIPR	FUEL	76.56			
							YTD Total			76.56	2411.31
10/13/11	001	00014		AP	10/13/11	CREIPR	FUEL	114.35			
							YTD Total			114.35	2525.66
11/10/11	001	00033		AP	11/10/11	CREIPR	FUEL	59.90			
							YTD Total			59.90	2585.56
12/15/11	001	00008		AP	12/15/11	CREIPR	FUEL	137.73			
							YTD Total			137.73	2723.29
01/12/12	001	00024		AP	01/12/12	CREIPR	FUEL	64.03			
							YTD Total			64.03	2787.32
03/23/12	001	00018		AP	03/23/12	CREIPR	FUEL	127.83			
							YTD Total			127.83	2915.15
04/11/12	002	00018		AP	04/11/12	CREIPR	FUEL	111.18			
							YTD Total			111.18	3026.33
05/24/12	001	00045		AP	05/24/12	CREIPR	FUEL	158.34			
							YTD Total			158.34	3184.67
07/13/12	001	00014		AP	07/13/12	CREIPR	FUEL	25.04			
							YTD Total			25.04	3209.71
11/09/12	002	00012		AP	11/09/12	NOVAALA	WASTE WATER CLASS TRAVEL EXPEN	41.50			
							YTD Total			41.50	3251.21
02/22/13	001	00022		AP	02/22/13	CREIPR	POLICE AND CITY FUEL	47.75			
							YTD Total			47.75	3298.96

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2632.1	GAS, OIL, ETC.										
03/15/13	001	00022		AP	03/15/13	CREIPR	SHOP, POLICE, AND SEWER FUEL	45.43			
							YTD Total			45.43	3344.39
04/12/13	001	00037		AP	04/12/13	MINIMT	PD, WWTF, AMB, AND SHOP FUEL	18.51			
04/25/13	001	00022		AP	04/25/13	CREIPR	SHOP, POLICE, AND SEWER FUEL	95.77			
							YTD Total			114.28	3458.67
05/28/13	001	00005		AP	05/28/13	CREIPR	SEWER, SHOP, PD FUEL	132.00			
							YTD Total			132.00	3590.67
11/26/13	001	00041		AP	11/26/13	CREIPR	MAY-SEPT PD, SHOP, AND SEWER F	371.97			
11/26/13	001	00043		AP	11/26/13	CREIPR	MAY-SEPT PD, SHOP, AND SEWER F	2.25			
							YTD Total			374.22	3964.89
03/14/14	001	00045		AP	03/14/14	CREIPR	OCT-DEC 2013 FUEL	106.54			
							YTD Total			106.54	4071.43
04/14/14	001	00007		AP	04/14/14	CREIPR	JAN-FEB PD, SHOP FUEL	33.90			
							YTD Total			33.90	4105.33
2632.2	TIRES, TIRE REPAIR, ETC.										
							BALANCE FORWARD				
11/10/10	001	00064		AP	11/10/10	SUKUPS	TIRES	519.76			
							YTD Total			519.76	519.76
09/19/11	001	00009		AP	09/19/11	SUKUPS	TIRES AND REPAIRS	81.99			
							YTD Total			81.99	601.75
2633	REPAIRS & MAINTENANCE										
							BALANCE FORWARD				553.87
01/08/09	002	00017		AP	01/08/09	BOMGAA	SUPPLIES,ETC	307.54			
							YTD Total			307.54	861.41
03/12/09	001	00013		AP	03/12/09	BORGER	ROTARY LOBE PUMP	19605.00			
03/12/09	001	00015		AP	03/12/09	CHRICO	LABOR, PARTS-SWR PUMP	3089.53			
03/12/09	001	00074		AP	03/12/09	LARGMF	SHIMS-SEWER PLANT	120.00			
							YTD Total			22814.53	23675.94
06/12/09	001	00001		AP	06/12/09	LINNPO	PLATE, PIPE	12.25			
06/12/09	001	00014		AP	06/12/09	R & K	SUPPLIES, REPAIRS	82.96			
							YTD Total			95.21	23771.15
08/13/09	002	00005		AP	08/13/09	BORGER	SEWER PLANT PUMP RE-BUILD KIT	2890.00			
08/13/09	002	00032		AP	08/13/09	HDSUPP	REPAIR SUPPLIES FOR WATER LINE	44.50			
							YTD Total			2934.50	26705.65
12/11/09	001	00080		AP	12/11/09	WESTLU	REPAIR SUPPLIES	13.54			
							YTD Total			13.54	26719.19
01/15/10	001	00014		AP	01/15/10	ADAMEL	VARIOUS ELECTRICAL FIXES	345.00			
							YTD Total			345.00	27064.19
04/09/10	002	00001		AP	04/09/10	COMMAI	SEWER DEGREASER	128.78			
04/22/10	001	00032		AP	04/22/10	POLLPU	SEWER ROOT CUTTING	1222.50			
04/22/10	001	00038		AP	04/22/10	BOMGAA	SUPPLIES	6.67			
							YTD Total			1357.95	28422.14
05/13/10	001	00015		AP	05/13/10	COMMAI	SEWER DEGREASER	308.84			
05/13/10	001	00049		AP	05/13/10	HTMSAL	SEWER REPAIRS	977.50			
05/13/10	001	00069		AP	05/13/10	R & K	SUPPLIES	347.00			
							YTD Total			1633.34	30055.48
07/08/10	001	00025		AP	07/08/10	COMMAI	SEWER DEGREASER	574.31			
07/26/10	001	00030		AP	07/26/10	R & K	SUPPLIES	101.95			
							YTD Total			676.26	30731.74
09/09/10	001	00067		AP	09/09/10	WINNEL	REPAIR SUPPLIES	47.58			
09/21/10	001	00013		AP	09/21/10	POLLPU	SEWER CAMERA AND JETTING	755.00			
09/21/10	001	00037		AP	09/21/10	WINNEL	SEWER REPAIR	275.97			
							YTD Total			1078.55	31810.29
11/10/10	003	00001		AP	11/10/10	C&DREP	SEWER TRUCK TRANSMISSION	1830.50			
11/24/10	001	00011		AP	11/24/10	LARGMF	SEWER PUMP REPAIR	50.00			
							YTD Total			1880.50	33690
06/30/11	001	00030		AP	06/30/11	CREIPL	SEWER REPAIR VANDERSNICK	418.94			
							YTD Total			418.94	34109.73

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2633	REPAIRS & MAINTENANCE										
07/14/11	001	00059		AP	07/14/11	POLLPU	SEWER JETTING	507.50			
							YTD Total			507.50	34617.23
09/08/11	001	00075		AP	09/08/11	R & K	SUPPLIES	2.30			
							YTD Total			2.30	34619.53
03/23/12	001	00063		AP	03/23/12	POLLPU	SEWER LINE JETTING	882.50			
							YTD Total			882.50	35502.03
05/24/12	001	00016		AP	05/24/12	BORGER	SEWER PUMP	2909.50			
							YTD Total			2909.50	38411.53
06/08/12	001	00051		AP	06/08/12	R & K	PARTS	13.79			
							YTD Total			13.79	38425.32
07/13/12	001	00008		AP	07/13/12	JEO	SEWER TESTING FEE	155.00			
07/13/12	001	00061		AP	07/13/12	MIDWLA	SEWER TESTING	375.50			
							YTD Total			530.50	38955.82
08/10/12	001	00052		AP	08/10/12	JEO	4TH QTR DMR SUBMISSION FEE	121.50			
							YTD Total			121.50	39077.32
10/25/12	001	00020		AP	10/25/12	BORGER	SEWER PLANT SUPPLIES	2453.50			
							YTD Total			2453.50	41530.82
01/11/13	001	00027		AP	01/11/13	WESTHO	PEYTON INTERSECTION CONCRETE	66.05			
							YTD Total			66.05	41596.87
02/15/13	001	00023		AP	02/15/13	WESTLU	PEYTON INTERSECTION REBAR	181.85			
02/15/13	001	00026		AP	02/15/13	RAYS	SEWER ELEC BOXES & OFFICE WIRI	254.08			
02/15/13	001	00037		AP	02/15/13	LINNPO	JETTER LIGHT SUPPLIES	4.40			
							YTD Total			440.33	42037.20
04/12/13	001	00010		AP	04/12/13	CHRICO	WWTF PADDLE WHEEL REPAIR	4242.50			
							YTD Total			4242.50	46279.70
05/10/13	001	00038		AP	05/10/13	ZIMMFR	WWTF PADDLE WHEEL SHAFT & PART	7120.56			
05/15/13	001	00002		AP	05/15/13	LARGMF	SEWER ROTOR WELDING/REPAIR SRV	660.00			
							YTD Total			7780.56	54060.26
08/09/13	001	00041		AP	08/09/13	BORGER	WWTF PUMPS/PARTS	3742.00			
08/09/13	002	00003		AP	08/09/13	CHRICO	ROTOR/AERATOR REPAIR SERVICES	3349.32			
							YTD Total			7091.32	61151.58
10/11/13	001	00013		AP	10/11/13	PORTTI	LAKE ST SEWER MAIN LABOR	230.00			
10/11/13	001	00014		AP	10/11/13	CREIPL	CAMERA, LAKE ST. SEWER, & PART	340.00			
10/11/13	001	00050		AP	10/11/13	MOTION	WWTF TRANSFER PUMP	1390.37			
10/11/13	001	00054		AP	10/11/13	RAYS	WWTF ELECTRICAL SRVCS	141.24			
10/11/13	001	00057		AP	10/11/13	SONDWE	LAKE ST SEWER PUMPING	612.50			
							YTD Total			2714.11	63865.69
05/12/14	002	00051		AP	05/12/14	BORGER	WWTF ROTOR REPAIR SUPPLIES	3559.13			
							YTD Total			3559.13	67424.82
2653	IMPROVEMENTS										
							BALANCE FORWARD				
05/14/09	002	00084		AP	05/14/09	USABLU	TRASH PUMP	752.92			
							YTD Total			752.92	752.92
04/24/12	001	00040		AP	04/24/12	ZIMMFR	SEWER REPAIRS	9016.00			
							YTD Total			9016.00	9768.92
2654	CAPITAL OUTLAY-EQUIPMENT										
							BALANCE FORWARD				11988.09
10/09/09	001	00024		AP	10/09/09	CHRICO	UV PLANT PAYMENT 1	10977.12			
							YTD Total			10977.12	22965.21
11/12/09	001	00019		AP	11/12/09	DEZUR	SEWER PARTS	3089.00			
11/13/09	001	00001		AP	11/13/09	CHRICO	UV PLANT PAYMENT 2	35342.55			
							YTD Total			38431.55	61396.76
12/11/09	002	00002		AP	12/11/09	CHRICO	UV PLANT PAYMENT # 3	70807.73			
							YTD Total			70807.73	132204.49
03/12/10	002	00021		AP	03/12/10	HTMSAL	SEWER FLOW METER	2085.00			
							YTD Total			2085.00	134289.49
4/09/10	001	00038		AP	04/09/10	HTMSAL	SEWER CHART RECORDER	940.00			
							YTD Total			940.00	135229.49

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2654	CAPITAL OUTLAY-EQUIPMENT										
05/20/10	001	00001		AP	05/20/10	CHRICO	UV PROJECT PAYMENT # 4	11937.75			
							YTD Total			11937.75	147167.24
06/24/11	001	00032		AP	06/24/11	KAYTON	SKID LOADER	5125.00			
							YTD Total			5125.00	152292.24
08/11/11	001	00064		AP	08/11/11	SPECSO	IT SERVICES/COMPUTERS	300.27			
							YTD Total			300.27	152592.51
11/15/12	001	00001		AP	11/15/12	MIDIOW	SEWER JETTER PURCHASE	16900.00			
							YTD Total			16900.00	169492.51
12/17/12	001	00050		AP	12/17/12	MIDIOW	JETTER NOZZLE	345.99			
							YTD Total			345.99	169838.50
11/15/13	001	00038		AP	11/15/13	HOUSST	SAW, WACKER VALVES	739.08			
							YTD Total			739.08	170577.58
12/26/13	001	00010		AP	12/26/13	USABLU	AIR TESTER, WINCH, HARNESSES,	1277.80			
							YTD Total			1277.80	171855.38
2661	PRINCIPAL										
							BALANCE FORWARD				
01/22/10	001	00001		AP	01/22/10	MIDWBA	PRIN. & INTEREST ON OPEARTING	100000.00			
							YTD Total			100000.00	100000.00
10/06/10	001	00001		AP	10/06/10	MIDWBA	WATER BOND PAYMENT	15000.00			
10/06/10	001	00001			10/06/10		CHARGED TO WRONG ACCOUNT		15000.00		
							YTD Total				100000.00
11/24/10	001	00014		AP	11/24/10	NDEQ	CLEAN WATER SRF PAYMENT	4511.20			
							YTD Total			4511.20	104511.20
05/26/11	001	00023		AP	05/26/11	NEENVI	SRF LOAN PAYMENT	4556.31			
							YTD Total			4556.31	109067.51
11/21/11	001	00030		AP	11/21/11	NDEQ	SRF SEMI-ANNUAL PAYMENT	4601.87			
							YTD Total			4601.87	113669.38
05/24/12	001	00037		AP	05/24/12	NDEQ	SRF PAYMENT	4647.89			
							YTD Total			4647.89	118317.27
11/26/12	001	00019		AP	11/26/12	NDEQ	WWTF BOND & INTEREST PAYMENT	4694.37			
							YTD Total			4694.37	123011.64
05/28/13	001	00046		AP	05/28/13	NDEQ	WWTF BOND & INTEREST DUE 6/15/	4741.31			
							YTD Total			4741.31	127752.95
11/26/13	001	00036		AP	11/26/13	NDEQ	WWTF PRIN & INT DEC 15 PAYMENT	4788.73			
							YTD Total			4788.73	132541.68
05/27/14	001	00009		AP	05/27/14	NDEQ	WWTF PRIN & INT LOAN PAYMENT	4836.61			
							YTD Total			4836.61	137378.29
							BALANCE				439036.37

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26001	SEWER FEES										
							BALANCE FORWARD				42478.40 CRD
01/22/13	001	00015		P	01/22/13		BARNYARD SEWER		62.30		
01/02/13	001	00004	BL		01/02/13	SEWER	RESIDENTIAL CUSTOMER		2113.35		
01/03/13	001	00004	BL		01/03/13	SEWER	RESIDENTIAL CUSTOMER		1777.51		
01/04/13	001	00004	BL		01/04/13	SEWER	RESIDENTIAL CUSTOMER		936.01		
01/07/13	001	00004	BL		01/07/13	SEWER	RESIDENTIAL CUSTOMER		2130.41		
01/08/13	001	00004	BL		01/08/13	SEWER	RESIDENTIAL CUSTOMER		866.42		
01/10/13	001	00004	BL		01/10/13	SEWER	RESIDENTIAL CUSTOMER		1288.04		
01/14/13	001	00004	BL		01/14/13	SEWER	RESIDENTIAL CUSTOMER		3147.05		
01/15/13	001	00004	BL		01/15/13	SEWER	RESIDENTIAL CUSTOMER		1184.64		
01/18/13	001	00004	BL		01/18/13	SEWER	RESIDENTIAL CUSTOMER		2226.20		
01/21/13	001	00004	BL		01/21/13	SEWER	RESIDENTIAL CUSTOMER		563.52		
01/21/13	002	00004	BL		01/21/13	SEWER	RESIDENTIAL CUSTOMER		1033.11		
01/22/13	001	00004	BL		01/22/13	SEWER	RESIDENTIAL CUSTOMER		1012.12		
01/28/13	001	00004	BL		01/28/13	SEWER	RESIDENTIAL CUSTOMER		1874.73		
01/29/13	001	00004	BL		01/29/13	SEWER	RESIDENTIAL CUSTOMER		2352.84		
01/30/13	001	00004	BL		01/30/13	SEWER	RESIDENTIAL CUSTOMER		1492.01		
01/31/13	001	00004	BL		01/31/13	SEWER	RESIDENTIAL CUSTOMER		2310.80		
							YTD Total			26371.06 CRD	68849.46 CRD
02/25/13	001	00004		P	02/26/13		SEWER F LOVELL		42.20		
02/01/13	001	00004	BL		02/01/13	SEWER	RESIDENTIAL CUSTOMER		1384.62		
02/04/13	001	00004	BL		02/04/13	SEWER	RESIDENTIAL CUSTOMER		898.46		
02/08/13	001	00004	BL		02/08/13	SEWER	RESIDENTIAL CUSTOMER		883.14		
02/12/13	001	00004	BL		02/12/13	SEWER	RESIDENTIAL CUSTOMER		739.09		
02/14/13	001	00004	BL		02/14/13	SEWER	RESIDENTIAL CUSTOMER		547.82		
02/18/13	001	00004	BL		02/18/13	SEWER	RESIDENTIAL CUSTOMER		484.67		
02/19/13	001	00004	BL		02/19/13	SEWER	RESIDENTIAL CUSTOMER		74.20		
02/25/13	001	00004	BL		02/25/13	SEWER	RESIDENTIAL CUSTOMER		522.07		
							YTD Total			5576.27 CRD	74425.73 CRD
26026	REIMBURSEMENTS										
							BALANCE FORWARD				
02/12/13	001	00002			02/12/13		CDBG SEWER STUDY GRANT		1672.00		
							YTD Total			1672.00 CRD	1672.00 CRD
2611	SALARIES & WAGES										
							BALANCE FORWARD				8985.78
01/31/13	001	00015	PR	P	01/31/13		P/R TRANSACTIONS	1916.52			
							YTD Total			1916.52	10902.30
02/28/13	001	00016	PR	P	02/28/13		P/R TRANSACTIONS	1911.43			
							YTD Total			1911.43	12813.73
2613	INSURANCE										
							BALANCE FORWARD				1798.42
01/25/13	001	00004	AP		01/25/13	BLUECR	EMPLOYEE HEALTH INSURANCE	599.47			
							YTD Total			599.47	2397.89
02/22/13	001	00050	AP		02/22/13	BLUECR	EMP HEALTH INS	599.47			
							YTD Total			599.47	2997.36
2613.1	EMPLOYEE DENTAL INSURANCE										
							BALANCE FORWARD				68.16
01/24/13	001	00009	AP		01/24/13	HEALCA	EMPLOYEE DENTAL INSURANCE	22.72			
							YTD Total			22.72	90.88
02/15/13	001	00041	AP		02/15/13	HEALCA	EMPLOYEE DENTAL INS	22.72			
							YTD Total			22.72	113.60
2614.1	EMPLOYEE BENEFITS FICA										
							BALANCE FORWARD				633.83
1/31/13	001	00016	PR	P	01/31/13		P/R TRANSACTIONS	135.46			
							YTD Total			135.46	769.29

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2614.1							EMPLOYEE BENEFITS FICA				
02/28/13	001	00017	PR	P	02/28/13		P/R TRANSACTIONS	131.54			
							YTD Total			131.54	900.83
2614.2							EMPLOYEE BENEFITS UC CONT				
							BALANCE FORWARD				13.00
01/31/13	001	00017	PR	P	01/31/13		P/R TRANSACTIONS	10.04			
							YTD Total			10.04	23.04
02/28/13	001	00018	PR	P	02/28/13		P/R TRANSACTIONS	21.98			
							YTD Total			21.98	45.02
2614.3							DEFERRED COMP				
							BALANCE FORWARD				190.71
01/31/13	001	00018	PR	P	01/31/13		P/R TRANSACTIONS	34.21			
							YTD Total			34.21	224.92
02/28/13	001	00019	PR	P	02/28/13		P/R TRANSACTIONS	28.51			
							YTD Total			28.51	253.43
2619							UNIFORMS, SHIRTS, ETC				
							BALANCE FORWARD				54.99
							YTD Total				54.99
2621							PROFESSIONAL & SCHOOLING				
							BALANCE FORWARD				2402.09
01/11/13	001	00032	AP		01/11/13	MIDWLA	WATER AND SEWER PLANT TESTING	63.77			
01/11/13	001	00057	AP		01/11/13	MILLASS	SEWER STUDY ENG FEES	2250.00			
01/24/13	001	00022	AP		01/24/13	MILLASS	AUG-NOV DMR PREP	227.50			
01/24/13	001	00036	AP		01/24/13	NERURA	ALAN & KEVIN TRAINING	75.00			
							YTD Total			2616.27	5018.36
02/15/13	001	00012	AP		02/15/13	MIDWLA	WATER AND SEWER PLANT TESTING	384.50			
							YTD Total			384.50	5402.86
2621A							LEGAL FEES				
							BALANCE FORWARD				312.00
							YTD Total				312.00
2622							COMMUNICATION, POSTAGE				
							BALANCE FORWARD				315.33
01/09/13	003	00003	AP		01/09/13	POSTMA	POSTAGE STAMPS	45.00			
01/09/13	004	00003	AP		01/09/13	POSTMA	Reverse Invoice		45.00		
01/09/13	004	00007	AP		01/09/13	POSTMA	POSTAGE STAMPS	45.00			
01/11/13	001	00004	AP		01/11/13	PHONE	PHONE/FAX/INTERNET	36.87			
01/24/13	001	00040	AP		01/24/13	MIDWBA	CELL PHONE BILL	37.43			
							YTD Total			119.30	434.63
02/11/13	001	00002	AP		02/11/13	POSTMA	STAMPS FOR BILLING	92.00			
02/15/13	001	00004	AP		02/15/13	PHONE	PHONE/FAX/INTERNET	36.86			
02/22/13	001	00055	AP		02/22/13	MIDWAG	CELL PHONE BILL DUMMY CHECK	37.44			
							YTD Total			166.30	600.93
2623							TRAVEL EXPENSE				
							BALANCE FORWARD				525.51
01/21/13	001	00003	AP		01/21/13	NOVAALA	AINSWORTH TRAINING MEAL	8.12			
							YTD Total			8.12	533.63
2625							INSURANCE				
							BALANCE FORWARD				1219.25
							YTD Total				1219.25
2626E							UTILITIES-ELECTRICITY				
							BALANCE FORWARD				2618.98
01/24/13	001	00030	AP		01/24/13	NPPD	ELECTRIC BILLS	885.00			

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2626E	UTILITIES-ELECTRICITY										
							YTD Total			885.00	3503.98
02/22/13	001	00011		AP	02/22/13	NPPD	ELECTRIC BILL	820.94			
							YTD Total			820.94	4324.92
2626G	UTILITIES-GAS										
							BALANCE FORWARD				382.89
01/11/13	001	00051		AP	01/11/13	N&BGAS	WATER AND SEWER PLANT PROPANE	235.80			
							YTD Total			235.80	618.69
02/15/13	001	00008		AP	02/15/13	N&BGAS	WATER AND SEWER PLANT PROPANE	235.86			
							YTD Total			235.86	854.55
2627	REPAIR BY OTHERS										
							BALANCE FORWARD				2632.41
01/24/13	001	00057		AP	01/24/13	TAUBPLU	PEYTON INTERSECTION SRVCS	340.00			
							YTD Total			340.00	2972.41
2631	OFFICE SUPPLIES										
							BALANCE FORWARD				62.73
01/24/13	001	00018		AP	01/24/13	LEAF	COPIER LEASE	20.91			
							YTD Total			20.91	83.64
02/15/13	001	00048		AP	02/15/13	LEAF	COPIER CONTRACT & TAXES	36.09			
							YTD Total			36.09	119.73
2632	SUPPLIES-OPERATING										
							BALANCE FORWARD				59.85
01/11/13	001	00010		AP	01/11/13	WESTLU	WATER, SEWER, AND STREET REPAI	652.50			
01/11/13	001	00028		AP	01/11/13	R & K	SHOP AND SEWER SUPPLIES	25.89			
01/24/13	001	00047		AP	01/24/13	BOMGAA	WATER, SHOP, AND SEWER SUPPLIE	21.43			
							YTD Total			699.82	759.67
02/22/13	001	00035		AP	02/22/13	BOMGAA	POLICE, WATER, SHOP, AND CITY	18.61			
							YTD Total			18.61	778.28
2632.1	GAS, OIL, ETC.										
							BALANCE FORWARD				41.50
02/22/13	001	00022		AP	02/22/13	CREIPR	POLICE AND CITY FUEL	47.75			
							YTD Total			47.75	89.25
2633	REPAIRS & MAINTENANCE										
							BALANCE FORWARD				2453.50
01/11/13	001	00027		AP	01/11/13	WESTHO	PEYTON INTERSECTION CONCRETE	66.05			
							YTD Total			66.05	2519.55
02/15/13	001	00023		AP	02/15/13	WESTLU	PEYTON INTERSECTION REBAR	181.85			
02/15/13	001	00026		AP	02/15/13	RAYS	SEWER ELEC BOXES & OFFICE WIRI	254.08			
02/15/13	001	00037		AP	02/15/13	LINNPO	JETTER LIGHT SUPPLIES	4.40			
							YTD Total			440.33	2959.88
2654	CAPITAL OUTLAY-EQUIPMENT										
							BALANCE FORWARD				17245.99
							YTD Total				17245.99
2661	PRINCIPAL										
							BALANCE FORWARD				4694.37
							YTD Total				4694.37
2662	INTEREST										
							BALANCE FORWARD				2022.19
							YTD Total				2022.19
							BALANCE				14788.53 CRD

G/L YTD LIST BY ACCOUNT
REPORT DATE 06/18/2014 12:03:94 FROM 20130101 THRU 20130229
CITY OF CREIGHTON

DATE POSTED	BTH NO.	ITEM NO.	S R C	T Y P	DATE OF TRANSACT	REFER.	DESCRIPTION OF TRANS	AMOUNT OF DEBIT	AMOUNT OF CREDIT	TOTAL OF MONTH ACTIVITY
2662		INTEREST								
662		INTEREST								

RESOLUTION 2011-7

WHEREAS, the Governing Body of the City of Creighton feels it is necessary to adjust the sewer rates and establish reconnect fees for the City of Creighton, Nebraska:

NOW THEREFORE BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF CREIGHTON, NEBRASKA, THAT:

1. The minimum charge for sewer service shall be $31.00 per two (2) month period.

2. There shall be an additional bi-monthly charge of $2.80 for each 100 cubic feet of water used during the first two(2) months of the year, as determined by the water meter; If water usage for the first two months cannot be determined due to water not in service, the last two (2) consecutive months of water service, as determined by the water meter will be used.

3. If disconnected due to delinquent bills, the reconnect fee shall be $25.00.

PASSED AND APPROVED THIS 8TH DAY OF SEPTEMBER, 2011.

Janet Boette

MAYOR

ATTEST:

CITY CLERK

(SEAL)

CITY OF CREIGHTON
KNOX COUNTY
NEBRASKA

ATTACHMENT A
TO THE LOAN CONTRACT BETWEEN NDEQ AND
THE CITY OF CREIGHTON, NE
PROJECT NO C317731
LOAN AMORTIZATION SCHEDULE (FINAL)

PRINCIPAL = $220,536
INTEREST RATE = 2.00

TERM YEARS = 20
FEE RATE = 1.00

DUE DATE OF PAYMENT	TOTAL PAYMENT =	FEE PAYMENT +	LOAN PAYMENT	LOAN PAYMENT =	INTEREST PAYMENT +	PRINCIPAL PAYMENT	BEGINNING BALANCE -	PRINCIPAL PAYMENT =	ENDING BALANCE
15-Dec-2010	7,819.24 =	1,102.68 +	6,716.56	6,716.56 =	2,205.36 +	4,511.20	220,536.00 -	4,511.20 =	216,024.80
15-Jun-2011	7,796.68 =	1,080.12 +	6,716.56	6,716.56 =	2,160.25 +	4,556.31	216,024.80 -	4,556.31 =	211,468.49
15-Dec-2011	7,773.90 =	1,057.34 +	6,716.56	6,716.56 =	2,114.68 +	4,601.87	211,468.49 -	4,601.87 =	206,866.62
15-Jun-2012	7,750.89 =	1,034.33 +	6,716.56	6,716.56 =	2,068.67 +	4,647.89	206,866.62 -	4,647.89 =	202,218.73
15-Dec-2012	7,727.65 =	1,011.09 +	6,716.56	6,716.56 =	2,022.19 +	4,694.37	202,218.73 -	4,694.37 =	197,524.36
15-Jun-2013	7,704.18 =	987.62 +	6,716.56	6,716.56 =	1,975.24 +	4,741.31	197,524.36 -	4,741.31 =	192,783.05
15-Dec-2013	7,680.47 =	963.92 +	6,716.56	6,716.56 =	1,927.83 +	4,788.73	192,783.05 -	4,788.73 =	187,994.33
15-Jun-2014	7,656.53 =	939.97 +	6,716.56	6,716.56 =	1,879.94 +	4,836.61	187,994.33 -	4,836.61 =	183,157.71
15-Dec-2014	7,632.34 =	915.79 +	6,716.56	6,716.56 =	1,831.58 +	4,884.98	183,157.71 -	4,884.98 =	178,272.74
15-Jun-2015	7,607.92 =	891.36 +	6,716.56	6,716.56 =	1,782.73 +	4,933.83	178,272.74 -	4,933.83 =	173,338.91
15-Dec-2015	7,583.25 =	866.69 +	6,716.56	6,716.56 =	1,733.39 +	4,983.17	173,338.91 -	4,983.17 =	168,355.74
15-Jun-2016	7,558.33 =	841.78 +	6,716.56	6,716.56 =	1,683.56 +	5,033.00	168,355.74 -	5,033.00 =	163,322.74
15-Dec-2016	7,533.17 =	816.61 +	6,716.56	6,716.56 =	1,633.23 +	5,083.33	163,322.74 -	5,083.33 =	158,239.41
15-Jun-2017	7,507.75 =	791.20 +	6,716.56	6,716.56 =	1,582.39 +	5,134.16	158,239.41 -	5,134.16 =	153,105.25
15-Dec-2017	7,482.08 =	765.53 +	6,716.56	6,716.56 =	1,531.05 +	5,185.50	153,105.25 -	5,185.50 =	147,919.75
15-Jun-2018	7,456.15 =	739.60 +	6,716.56	6,716.56 =	1,479.20 +	5,237.36	147,919.75 -	5,237.36 =	142,682.39
15-Dec-2018	7,429.97 =	713.41 +	6,716.56	6,716.56 =	1,426.82 +	5,289.73	142,682.39 -	5,289.73 =	137,392.66
15-Jun-2019	7,403.52 =	686.96 +	6,716.56	6,716.56 =	1,373.93 +	5,342.63	137,392.66 -	5,342.63 =	132,050.03
15-Dec-2019	7,376.81 =	660.25 +	6,716.56	6,716.56 =	1,320.50 +	5,396.06	132,050.03 -	5,396.06 =	126,653.98
15-Jun-2020	7,349.83 =	633.27 +	6,716.56	6,716.56 =	1,266.54 +	5,450.02	126,653.98 -	5,450.02 =	121,203.96
15-Dec-2020	7,322.58 =	606.02 +	6,716.56	6,716.56 =	1,212.04 +	5,504.52	121,203.96 -	5,504.52 =	115,699.44
15-Jun-2021	7,295.05 =	578.50 +	6,716.56	6,716.56 =	1,156.99 +	5,559.56	115,699.44 -	5,559.56 =	110,139.88
15-Dec-2021	7,267.26 =	550.70 +	6,716.56	6,716.56 =	1,101.40 +	5,615.16	110,139.88 -	5,615.16 =	104,524.73
15-Jun-2022	7,239.18 =	522.62 +	6,716.56	6,716.56 =	1,045.25 +	5,671.31	104,524.73 -	5,671.31 =	98,853.42
15-Dec-2022	7,210.82 =	494.27 +	6,716.56	6,716.56 =	988.53 +	5,728.02	98,853.42 -	5,728.02 =	93,125.40
15-Jun-2023	7,182.18 =	465.63 +	6,716.56	6,716.56 =	931.25 +	5,785.30	93,125.40 -	5,785.30 =	87,340.09
15-Dec-2023	7,153.26 =	436.70 +	6,716.56	6,716.56 =	873.40 +	5,843.15	87,340.09 -	5,843.15 =	81,496.94
15-Jun-2024	7,124.04 =	407.48 +	6,716.56	6,716.56 =	814.97 +	5,901.59	81,496.94 -	5,901.59 =	75,595.35
15-Dec-2024	7,094.53 =	377.98 +	6,716.56	6,716.56 =	755.95 +	5,960.60	75,595.35 -	5,960.60 =	69,634.75
15-Jun-2025	7,064.73 =	348.17 +	6,716.56	6,716.56 =	696.35 +	6,020.21	69,634.75 -	6,020.21 =	63,614.54
15-Dec-2025	7,034.63 =	318.07 +	6,716.56	6,716.56 =	636.15 +	6,080.41	63,614.54 -	6,080.41 =	57,534.13
15-Jun-2026	7,004.23 =	287.67 +	6,716.56	6,716.56 =	575.34 +	6,141.21	57,534.13 -	6,141.21 =	51,392.92
15-Dec-2026	6,973.52 =	256.96 +	6,716.56	6,716.56 =	513.93 +	6,202.63	51,392.92 -	6,202.63 =	45,190.29
15-Jun-2027	6,942.51 =	225.95 +	6,716.56	6,716.56 =	451.90 +	6,264.65	45,190.29 -	6,264.65 =	38,925.64
15-Dec-2027	6,911.18 =	194.63 +	6,716.56	6,716.56 =	389.26 +	6,327.30	38,925.64 -	6,327.30 =	32,598.34
15-Jun-2028	6,879.55 =	162.99 +	6,716.56	6,716.56 =	325.98 +	6,390.57	32,598.34 -	6,390.57 =	26,207.77
15-Dec-2028	6,847.59 =	131.04 +	6,716.56	6,716.56 =	262.08 +	6,454.48	26,207.77 -	6,454.48 =	19,753.29
15-Jun-2029	6,815.32 =	98.77 +	6,716.56	6,716.56 =	197.53 +	6,519.02	19,753.29 -	6,519.02 =	13,234.27
15-Dec-2029	6,782.73 =	66.17 +	6,716.56	6,716.56 =	132.34 +	6,584.21	13,234.27 -	6,584.21 =	6,650.06
15-Jun-2030	6,749.81 =	33.25 +	6,716.56	6,716.56 =	66.50 +	6,650.06	6,650.06 -	6,650.06 =	0.00
TOTALS	292,725.34	24,063.11	268,662.23	268,662.23	48,126.23	220,536.00		220,536.00	

AMORTIZ J SCHEDULE