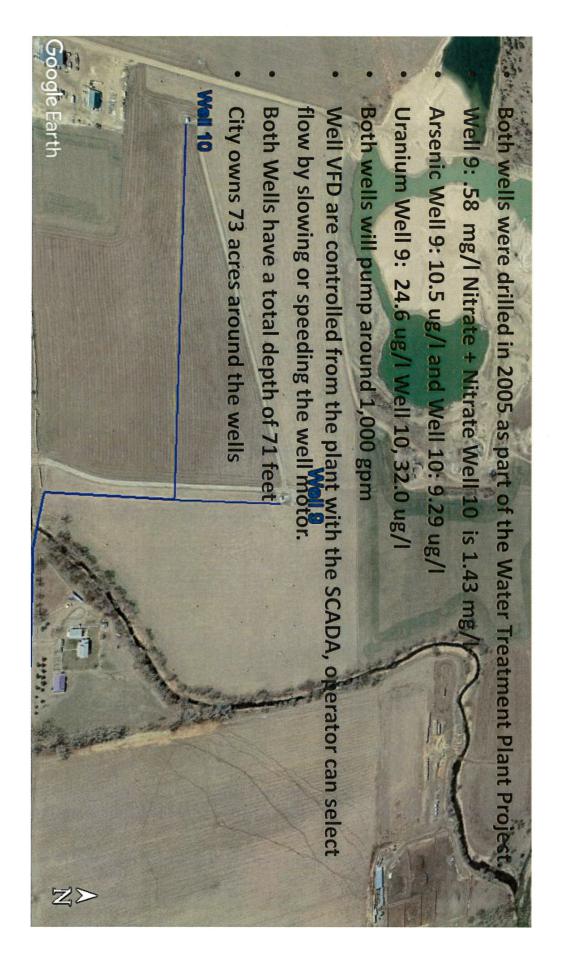
City of McCook Water Department

Wellhead Protection Network
November 2, 2017

Jesse Dutcher, Utility Director 2004

Wells 9 & 10



Wells 3 & 4

Well 3:

Constructed 1936 relined 1995

Nitrate + Nitrite 5.14 mg/l

Arsenic 9.74 ug/l

– Uranium38.0 ug/l

Total depth 80 feet

VFD Controlled by SCADA total capacity 400 gpm

Well 4:

- Constructed 1948
- Nitrate + Nitrite 6.31
- Arsenic 10.1 ug/l
- Uranium 42.9 ug/l
- Total Depth 83 feet
- VFD Controlled by SCADA, capacity 450 gpm



Well 6

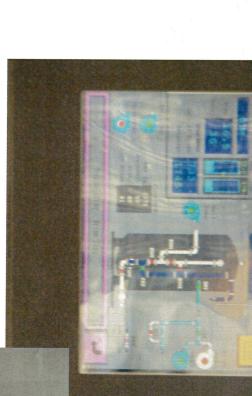
- Constructed 1958
- Nitrate/Nitrite: 14.8 mg/l
- Arsenic: 11.6 ug/l
- Uranium: 27.4 ug/l
- Production 400 gpm
- Total depth: 92 feet
- VFD controlled by SCADA



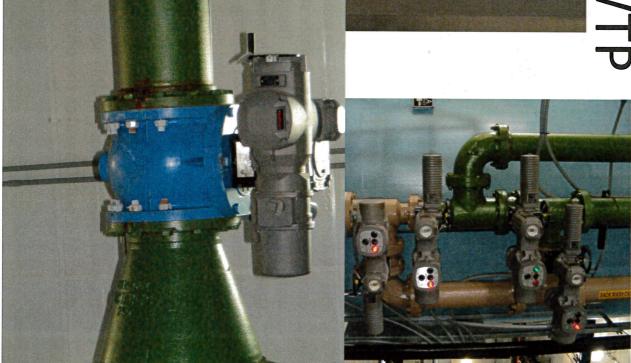
onver 3 million gallons. The City has a permit from NE Dept of Natural Resources to withdraw 1,222,750,000 gallons per year. in 24 hours. Daily averages for winter 800,000 gallons and summer days averaging In 2016 McCook pumped 712,861,000 gallons of water, with a daily average of 1,953,044. The peak day for the year was on July 26 with 4,913,000 gallons pumped

Post WTP, annual 844,857,000 2012 gallons (2012) Historic highs 2000 total pumping 1,113,596,000 pre WTP daily 5,879,000 mgd June 28, 2012

McCook WTP



- Plant SCADA controls the vessel
- regeneration.
 Well stop and start.
- Plant flow control.
 Disinfection, production of Sodium Hypochlorite
- High Service Booster Pumps







Service Line Repair and Replacement

responsibility of the owner. street. The Service Pipe is line that extends from the curb stop to the house and that is the Pipe which is the pipe that runs from the water main to the curb stop located at the edge of the The Water Department along with being responsible for the water mains is responsible for the Supply

- 3,600 service lines and meters
- 52 miles of water main ranging in size from 3 inch to 24 inch

Water Main Repair



Main leaks sometimes become a group effort with waste water and public works staff lending a hand.

Utilities repay the help by do snow removal.



Billing and Meters

- 3,600 connections
- 60% radio read meters (1,800)
- Web based payments averaging \$6,000 per month
- •Over the counter credit/debit card use averages \$11,500 per month.
- Average 80 Phone notifications per month.

