

FYI

- Last year 1,323,929,446 gallons of water was pumped for irrigation
- 25 center pivots are used to irrigate approximately 2,500 acres
- When full the storage reservoirs hold about 1,014,000,000 gallons of water
- The ground water around the reservoirs is monitored with 17 wells
- During the summer the anaerobic lagoons produce an average of 63,120,000 cubic ft of gas a month



Dodge City South Water Reclamation Facility



AWARDS

The Dodge City Facility has earned numerous awards including the Kansas Plant of the Year Award for large non-discharging plants in 1992, 1995, 1997, 2000, 2005, 2006, 2013 and 2014

In 1993 and 2000 the plant received the EPA O&M Excellence Award for Region VII and the U.S. EPA National O&M Excellence Award.

In addition the plant has received the George W Burke Safety Award. Peggy Williams has received the WEF Laboratory Excellence Award and the Clifton Meloan Lab Award

Average Daily Flows

National Beef	3.55 MG
Domestic	2.22 MG

Loadings

	BOD mg/L	TSS mg/L
National Beef	3876	4045
Domestic	237	253

The anaerobic and aeration lagoons remove about 88% of the BOD and 94% of the TSS. TKN, NH₃, chloride, sodium, potassium, EC, BOD, COD, TSS, PH, total phosphorus, calcium, hardness, and alkalinity are analyzed monthly on the irrigation water.

Servi Tech Lab is contracted to sample and perform soil analysis



Operated by:
CH2MHILL

General Overview



Reservoir #1= 44 Acres, 23ft Deep, 298 mg
 Reservoir #2= 43.4 Acres, 17ft Deep, 242 mg
 Reservoir #3= 56.6 Acres, 16.5ft Deep, 297 mg
 Reservoir #4= 35.8 Acres, 16.5ft Deep, 177 mg

Because of the 1985 national goal of *No Discharge of Pollutants*, it has become increasingly important to develop alternative, more efficient methods of wastewater treatment in lieu of the conventional practice ending with discharge to nearby streams.

The Dodge City wastewater system accomplishes this by land application, which reuses the wastewater through irrigation of cropland.

The land application system accomplishes several objectives, in addition to wastewater treatment, including water reuse, nutrient recycling, crop production and most importantly No Discharge of Pollutants.

The plant was put online in 1985. In 2004 the plant was expanded to almost double the capacity.

The Dodge City Wastewater Treatment Plant is classified as a non-discharge facility and has a design flow of 7.2 MGD. The current average daily flow is 5.7 MGD

