

# MEMORANDUM

To: Tom Ratermann

From: Virgil Farnen

Date: January 10<sup>th</sup>, 2023

Subject: Annual Operating and Maintenance Summary

During the Fiscal year 2022, BCRSD operational and maintenance responsibilities included; **9** mechanical plants, **8** aerated lagoons, **1** non-aerated lagoon, **3** recirculating sand filters and **2** drip irrigation systems. District operates **21** NPDES Permitted facilities, and **2** non permitted facilities. (Bobcat and Butch's)

We also contract operate **4** area municipal permitted facilities;

- Hartsburg's aerated lagoon, UV system, and pump station.
- Sturgeon's 2-cell lagoon, 4 pump stations, and reservoir.
  - Landowner operates the irrigation system
- Ashland's AeroMod WWTP and the collection system, to include a belt press and 17 lift stations.
- Renick's single cell lagoon/reservoir and land application system and 2 lift stations.

Our collection system during 2021 included **29** District owned pump stations.

**Collection System Quantities**, Taken from District GIS system.

1. Gravity Sewer Main – 498381' = 94.4 Miles,
2. Force Main - 229833' = 43.5 Miles
3. Manholes - 2357
4. Lampholes/Cleanouts 713 (Sum of gravity lamp holes and force main cleanouts)

Small Diameter Variable Grade - at Gateway South 3180', and Twin Lakes 4730'.

**Pressure Systems** include;

Grinder - Full Service

Hillcreek **90**, Heather Hills **28**, Toalson **14**, Kinkade Crossing & Street Estates **50**, Colchester/Trobridge **14**, Waters Edge **2**, Abel Acres **3**, Silver Fork **7**, and Clear Creek **45**.

STEP – Full Service

Woodlands **146**, Deerfield Ridge **16**, Brookfield Estates **28**, Lake Capri **27**, Fall Creek **8**, Richardson Acres **24**, Quarter Mile **16**, and Kristen Acres **3**.

Pressure Mains only,

Arrowhead, Arrowhead plat 2, Hollingshead, Trobridge, Discount Homes, Bond, Buffalo Ridge, Campbell, and Harvester Rd. Valley Park, Wagon Trail Rd., Happy Hollow, Eagles Nest and Oak Hills

**Projects completed in 2022:**

Started Contract Operations of Ashland and Renick

Started Operations of Butch's drip irrigation system.

Trails West removed 331 Dry Tons sludge from lagoons.

Took delivery of a new Vactor Sewer Jett

Sewer Main Extensions - 8" Gravity,	Rockbridge Business	781'
	Eagle's Nest	90'
	<u>Harmon</u>	<u>50'</u>
	Total	921'

Pressure Sewer,	Oak Hills	9600'
	Eagle's Nest	542'
	Butch's	1135'
	Carl	540'
	<u>Montgomery</u>	<u>384'</u>
	Total	12201'