

## MEMORANDUM

To: Tom Ratermann

From: Virgil Farnen

Date: January 11<sup>th</sup>, 2022

Subject: Annual Operating and Maintenance Summary

During the Fiscal year 2021, BCRSD operational and maintenance responsibilities included; **9** mechanical plants, **7** aerated lagoons, **1** non-aerated lagoon, **3** recirculating sand filters and **3** drip irrigation systems. District operates under **21** NPDES Permitted facilities, and **1** non permitted facility. (Bobcat)

We also contract operate: Hartsburg's aerated lagoon, UV system, and pump station.  
Sturgeon's 2-cell lagoon, 4 pump stations, and reservoir.  
- Landowner operates the irrigation system

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

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

1. Gravity Sewer Main – 497460' = 94.2 Miles,
2. Force Main - 217632' = 41.2 Miles
3. Manholes - 2157
4. Lampholes/Cleanouts 693 (Sum of gravity lampholes and forcemain cleanouts)

Small Diameter Variable Grade - at Gateway South 2830', and Twin Lakes 4780'.

**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**, and at Silver Fork **7**, 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.

**Projects completed in 2021:**

Started Contract Operations of Sturgeon

Started Operations of MidwayUSA drip irrigation system.

Shalimar Pump Upgrades to pumps, control panel and communications.

Sewer Main Extensions - 8" Gravity,	Ravenwood	4261'
	Crescent Ridge	1945'
	<u>Griggs</u>	<u>121'</u>
	Total	6327'

Pressure Sewer,	Taylor-Fitzgerald	576'
	Darrin File	602'
	Allan's Ordinary	257'
	Amir Ziv	265'
	<u>Hamlett</u>	<u>15'</u>
	Total	1715'

Sludge Disposal (no labor or equipment included)

City charges for disposing 64 dry tons at landfill	\$ 28,949.63
District cost for supplies to dewater sludge	<u>\$ 17,370.84</u>
Total	\$ 46,320.47

City charges for disposal if hauled in liquid form. \$ 55,260.00