Bull Hide Creek Wastewater Treatment Plant Expansion City of Waco Council Work Session



May 21, 2024

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Bull Hide Creek Wastewater Treatment Plant (WWTP) Expansion

Overview

- Current Plant
- Expansion of the Plant
- Cost of Expansion
- Project Schedule



Bull Hide Creek WWTP





- Completed In 2011
- Construction cost \$11,000,000.00
- Provide sewage treatment for the cities of Waco, Hewitt and Lorena
- Treatment capacity of 1.5 million gallons a day (MGD)



City of Wace Lift Station Bullhide WWTP Service Areas Gravity Customer Lift Station

Bull Hide Creek WWTP Service Area

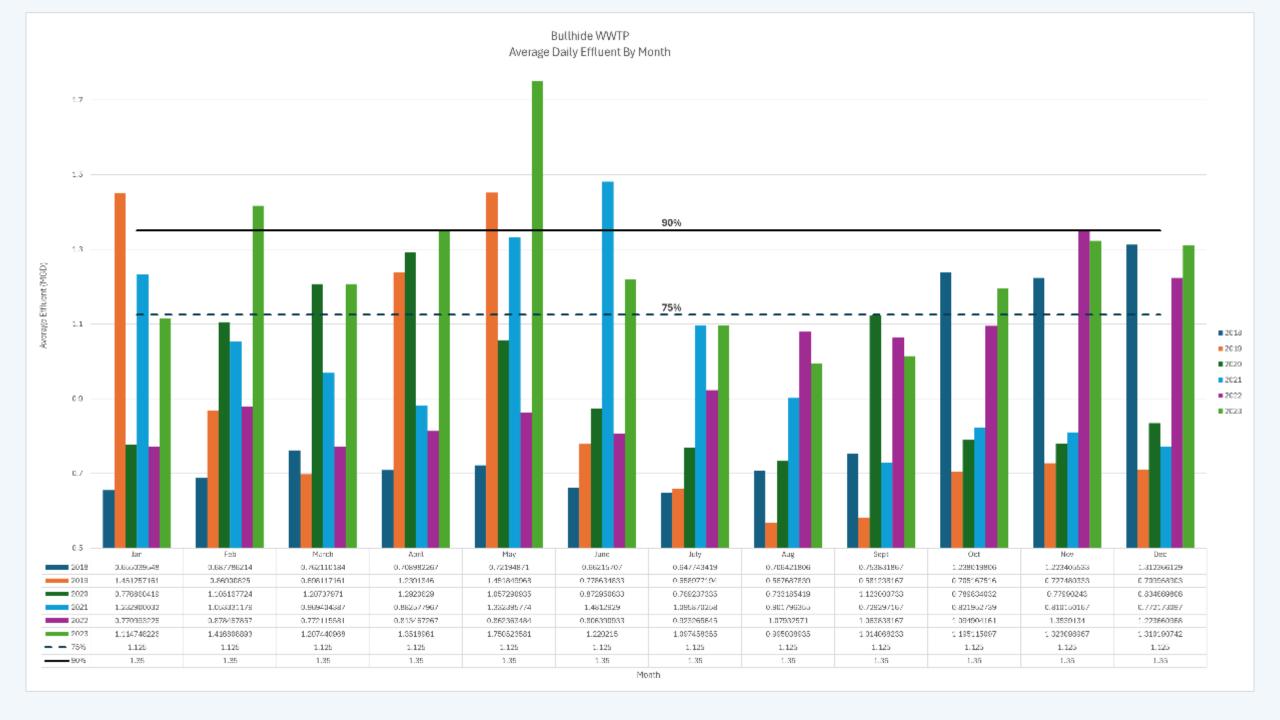
- Current Service Area 5,925 acres
- Future/Potential Service Area 6,018 acres
- 2,165 Housing Starts in the last 5 years

EXPANSION OF BULL HIDE CREEK WWTP



Why Expand from a 1.5 MGD to a 4 MGD Plant?

- Growth in HWY 84 corridor
 - Preserving capacity
 - Line size increases
 - Flows divided
- Request for additional capacity
- TCEQ's 75/90 rule



Division of Capacity

Bull Hide Creek Wastewater Treatment Plant Capacity							
in gallons per day							
	Current	Future					
Waco	460,000	2,160,000					
Hewitt	720,000	1,220,000					
Lorena	320,000	620,000					
Total Capacity	1,500,000	4,000,000					

Cost of Expansion

Cost of Bull Hide Creek WWTP Expansion



Inflation – Increasing the Cost

Estimates

- \$40,000,000 in 2021 (\$16.00 a gallon)
- Latest \$75,000,000 (\$30.00 a gallon)
- Value Engineering \$70,000,000 (\$28.00 a gallon)
 - Delaying some items to the future
 - Looking at materials
- We continue to look for potential cost cutting opportunities



Apportioned Cost

Estimates

- City of Hewitt has requested 500,000 gallons and
 City of Lorena has requested 300,000 gallons of the
 2.5 million gallon a day expansion.
- Both cities will begin paying for bonds issued past and present - in October 2024.
- City of Hewitt will assume 20% of the costs and Lorena will assume 12% of the cost



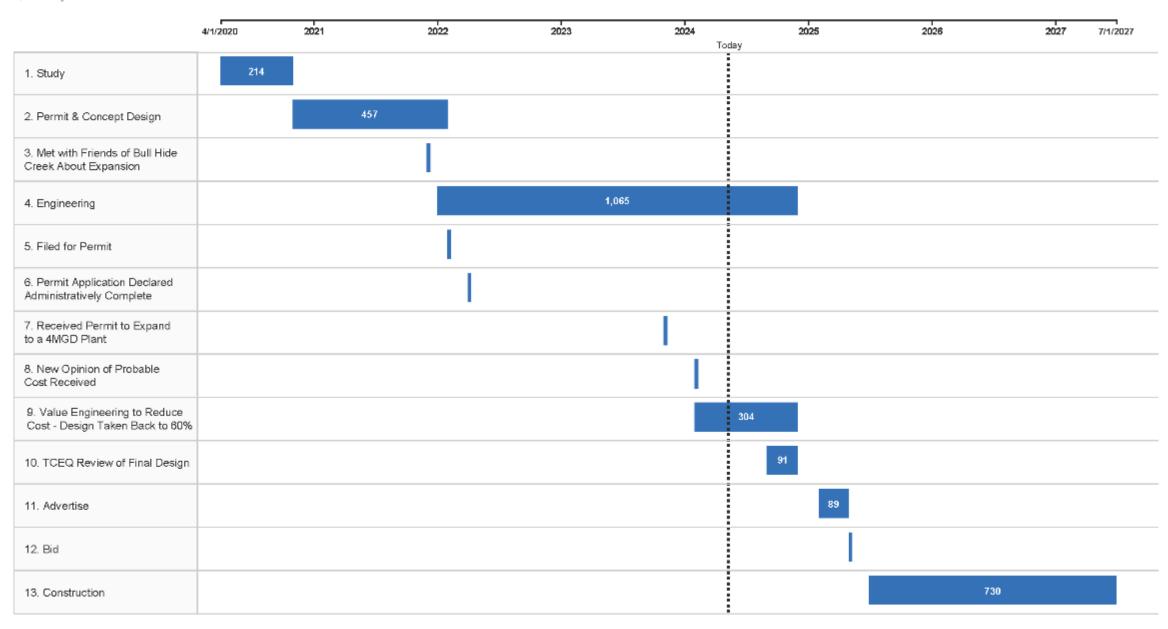
Bonding

							Future	
Bonding	2019	2020	2021	2022	2023	2024	2025	TOTAL
Waco	\$ 1,020,000.00	0	\$ 1,866,600.00	\$ 2,213,400.00	\$ 1,360,000.00	\$ 23,800,000.00	\$ 23,800,000.00	\$ 54,060,000.00
Hewitt	\$ 300,000.00	0	\$ 549,000.00	\$ 651,000.00	\$ 400,000.00	\$ 7,000,000.00	\$ 7,000,000.00	\$ 15,900,000.00
Lorena	\$ 180,000.00	0	\$ 329,400.00	\$ 390,600.00	\$ 240,000.00	\$ 4,200,000.00	\$ 4,200,000.00	\$ 9,540,000.00
Total Bonding	\$ 1,500,000.00	0	\$2,745,000	\$ 3,255,000.00	\$ 2,000,000.00	\$ 35,000,000.00	\$ 35,000,000.00	\$ 79,500,000.00

Project Schedule

Bull Hide Creek Wastewater Treatment Plant Expansion

2,647 Days Duration



Questions?