



WASTEWATER REPORT — HOMESTEAD NORTH AT STERLING RANCH FILING #3 PRELIMINARY PLAN



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PREPARED FOR

Falcon Area Water and Wastewater Authority

OCTOBER 2022

Project Number W0242.22001



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1.0 INTRODUCTION

This wastewater report is for the Homestead North at Sterling Ranch Filing #3 Preliminary Plan. The service entity is the Falcon Area Water and Wastewater Authority. The proposed development is in the Sterling Ranch Metro District #2 which is a part of the FAWWA service area. The service areas and location of tie-in point are shown in Appendix A.

1.1 OVERALL DEVELOPMENT DESCRIPTION

Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6th P.M. Districts 1, 2 and 3 are considered Special Districts and are under the jurisdiction of the Special District Act.

1,119 acres is designated for 5,225 residential units. 56.36 acres is designated for commercial use. 270 acres is designated for open space, greenways, trails, parks, and school sites.

Additional service areas include the Retreat, and Jaynes Sketch Plan.

2.0 WASTEWATER REPORT

2.1 PROJECTED WASTEWATER LOADS

Wastewater unit user loading projections are based on similar District historical use developed in the Falcon area. Average daily- maximum monthly wastewater loads are expected to be roughly 172 gallons per day per single family residence.

Table 1. Calculation of Wastewater Loads

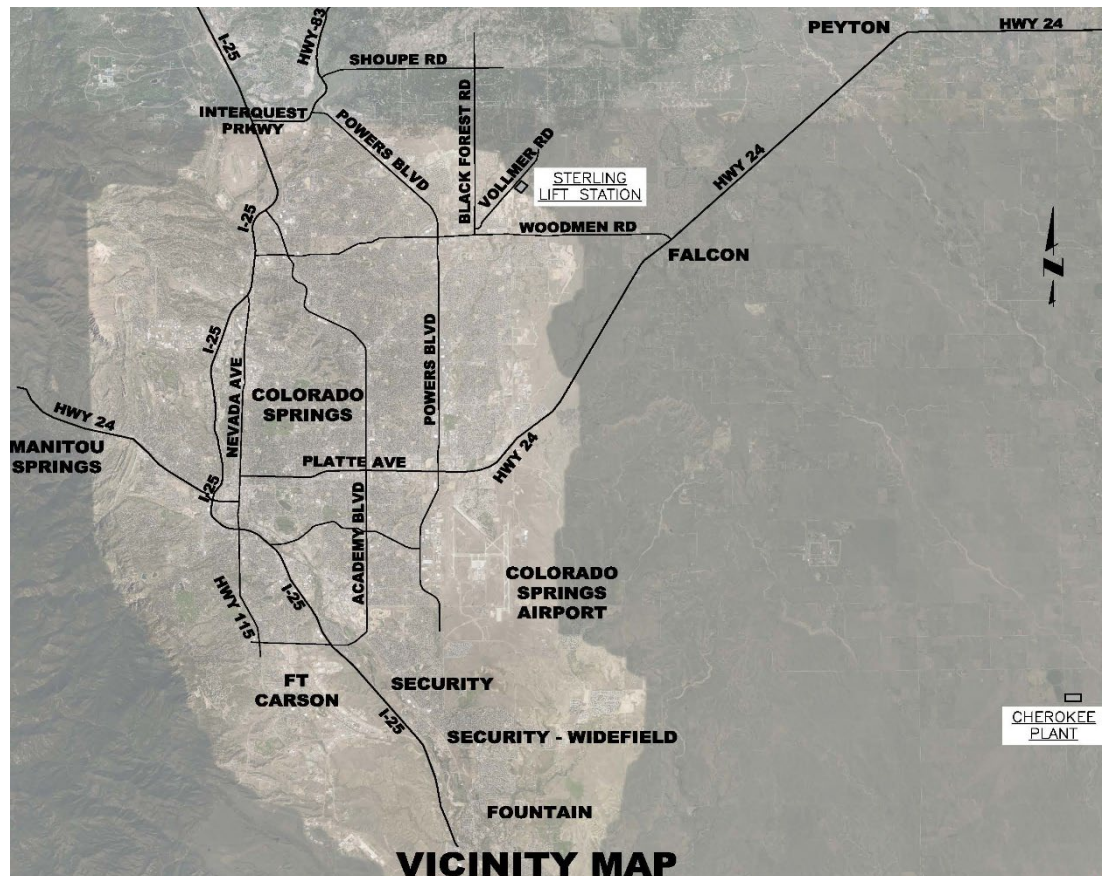
Use	Units	Single Family Equivalent	Average Daily Max-Month Flows	Estimated Population	
	#	#	GPD	#	
Residential Units					
Single family	77	77	13,244	200	
Commercial Units					
Total			13,244		

2.2 WASTEWATER TREATMENT PLANT

Interim Wastewater Treatment Services will be provided by Colorado Springs Utilities. A copy of the Interim Service Agreement was attached in prior Water and Wastewater Reports and therefor is not included here. An agreement relating to completion of the wastewater outfall and the associated EGF has been extended.

MSMD owns 2.2 million gallons per day of wastewater capacity in the Cherokee Wastewater Treatment Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved the systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment. The location of the 4.6 MGD Cherokee Wastewater Treatment Plant is shown below:

Figure 1. Location of Cherokee Wastewater Treatment Plant



2.3 ADEQUACY OF WASTEWATER TREATMENT CAPACITY

The Falcon Area Water and Wastewater Authority/Sterling Ranch Metropolitan District has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater



treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from MSMD which is equivalent to 1.006 Million Gallons/Day (MGD). Wastewater projections are based on similar District historical use developed in the Falcon area. Average daily-maximum monthly wastewater loads of 172 gallons per day per single family residence are iterated in the Wastewater Contract.

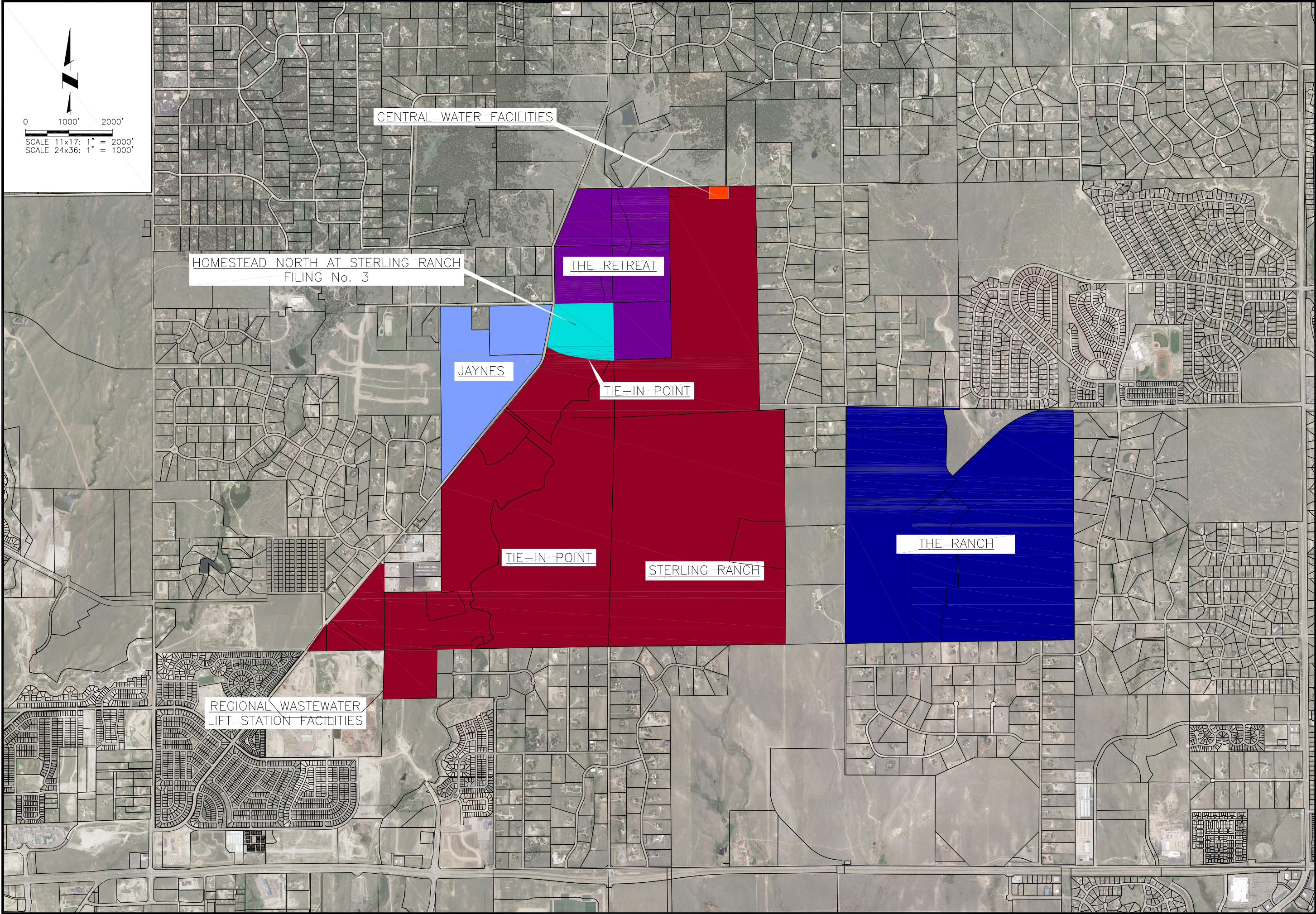
The loading projected from Homestead North at Sterling Ranch Filing #3 Preliminary Plan represents roughly 1.32% of the contractual capacity available to the Falcon Area Water and Wastewater Authority. FAWWA therefore has more than adequate wastewater treatment capacity to provide service to serve the Subdivision.

Including Villages, Foursquare, Homestead North Filing 3, and Sterling Ranch East Phase One in addition to Sterling subdivisions submitted before October 31, of 2022, the current committed capacity is for 2176 SFE which is 37.237 % of FAWWA contractual treatment capacity.

2.4 COLLECTION, PUMPING, AND PIPING

All lands to be developed within the Sterling Ranch and the Retreat areas will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. Sterling is completing construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District and delivered to Cherokee through the Meridian system.

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Project No.: 161.04

Date: 10/11/22

Design: JPM

Drawn: JLB

Check: JPM

PLAN

SHEET 1 OF 1

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
6				
7				

APPENDIX A

FALCON AREA WATER AND WASTEWATER AUTHORITY

SERVICE AREA

JDS-HYDRO

a Division of

RESPEC

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DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.



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HOMESTEAD NORTH AT STERLING RANCH FILING 3

VOLLMER ROAD

DATE: 05.04.2022
PROJECT MGR: A. BARLOW
PREPARED BY: B. ITEN

TRACT EXHIBIT

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