



**Sterling Ranch Metropolitan District 1**

**WASTEWATER  
REPORT  
For  
Copper Chase at Sterling Ranch**

**March 2022**

**Prepared By:**



**CONSULTANTS, INC.**

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## **SECTION 1 INTRODUCTION**

This wastewater report is for the Copper Chase at Sterling Ranch Area. The service entity is the Falcon Area Water and Wastewater Authority.

### *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 6<sup>th</sup> 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.

### *1.2 Report Specific Development Description:* This report is for the Preliminary Plan for Copper Chase Preliminary Plan which includes 138 single family lots or SFE's.

## **SECTION 2 WASTEWATER AND WASTEWATER TREATMENT**

### *2.1 Projected Wastewater Loads and Adequacy of Capacity;* Wastewater unit user loading projections are based on similar District historical use developed in the Falcon area. Average daily wastewater loads are expected to be roughly 172 gallons per day per single family residence.

The expected Average Daily-Maximum Monthly loads are projected to be:

**138 SFE times 172 gal/day-SFE equals 22,704 gal/day wastewater load**

**The loading projected from Cooper Chase represents roughly 2.34 % 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 Copper Chase.**

### *2.2 Wastewater Contract and Treatment*

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. 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.

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.

### 2.3 *Wastewater Collection and Pumping*

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.

### 2.4 *Wastewater Treatment*

MSMD owns 2.2 million gallons per day of wastewater capacity in the Black Squirrel Wastewater Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved connections, and 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.

# *Appendix A*