

*WASTEWATER DISPOSAL REPORT*

**For**

**TRAILS AT ASPEN RIDGE**

**Filing No. 4**

Owners:

**COLA, LLC.**

555 Middle Creek Parkway, Suite 380  
Colorado Springs, CO 80921

Applicant:

**COLA, LLC.**

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Project No. 21.886.038

## **INTRODUCTION AND PURPOSE:**

The Trails at Aspen Ridge Filing No. 4 (Tax Schedule No. 5509305003) is a proposed residential subdivision within the boundaries of the Trails at Aspen Ridge development (PUDSP213), a proposed mixed-use development on 175 acres. This report is for a final plat for 125 detached single-family lots and open space on 17.90 acres.

The site lies in Section 9 of Township 15 South, Range 65 West. The proposed development is south and east of Bradley Road and Powers Boulevard. The site was rezoned from RS-5000 to PUD with the previously approved Trails at Aspen Ridge PUDSP Amendment (PUDSP213) approved by El Paso County in May 2021 and is a part of the larger Waterview Sketch Plan.

The purpose of this report is to present the results of the engineering study of the wastewater system required to serve the Trails at Aspen Ridge Filing No. 4. This report includes an estimate of ultimate population, anticipated quantity of effluent to be treated, and location of existing system connections.

## **WASTEWATER COLLECTION:**

The Trails at Aspen Ridge Filing No. 4 will receive water and wastewater services from the Widefield Water and Sanitation District (refer to Appendix for commitment letters).

### **Existing Infrastructure:**

Widefield Water and Sanitation District have previously agreed to service the entirety of the Trails at Aspen Ridge development. This previously approved wastewater system is comprised of 8" diameter PVC sanitary mains aligned generally along street centerlines draining south and east. At the southeast corner of the Trails at Aspen Ridge Filing No. 1 site, the system transitions to 12" diameter PVC pipe and connects to an existing manhole. From here, the existing 12" main continues south to Fontaine Boulevard. Eventually the flows reach the State Permitted (CO-0021067) wastewater treatment facility where it is treated per the permit requirements and then discharged into the stream system. This existing infrastructure has been sized, as part of the Trails at Aspen Ridge Filing No. 1 application, in anticipation of flows from the Trails at Aspen Ridge Filing No. 4 development. The existing infrastructure in Trails Filing No. 1 and Trails Filing No. 2 has been sized as part of their respective applications in anticipation of flows from the Trails at Aspen Ridge Filing No. 4 development.

### **Proposed Infrastructure:**

In compliance with the Widefield Water and Sanitation District, the proposed site will provide sanitary mains along the street centerline, wherever possible. The anticipated flows from the 125 single-family lots require 8" diameter PVC pipes. The wastewater will be conveyed to the south and east until connecting with the existing infrastructure installed with Filing No. 2. The table below summarizes the expected flow by street.

Street Name	Contributing Lots (P4)	Filing 4 GPD	Pipe Size Req'd (PVC)
Schoonover	15	3,075	8"
Bull Run	12	2,460	8"
Winner Creek	18	3,690	8"
Keyhole	24	4,920	8"
Fishhook	25	5,125	8"
Big Johnson	31	6,355	8"
<b>Total Contribution to P4: 25,625</b>			8"

Wastewater Serviceability:

Wastewater is estimated to be 205 GPD for each single-family residence. The site consists of 125 single-family dwelling units which results in approximately 25,625 GPD. Widefield Water and Sanitation District will collect and treat the wastewater prior to its ultimate discharge into Fountain Creek in accordance with the Trails at Aspen Ridge Filing No. 1 & Trails at Aspen Ridge Filing No. 2 reports.

Wastewater Cost Estimate:

The wastewater system consists of approximately 4,136 lf of 8" pvc pipe as well as 16 manholes. An estimation of construction costs is summarized below.

Street Name	8" PVC Sanitary Main (LF)	Cost (per LF)	Manhole (EA)	Cost (EA)	Total Cost
Schoonover	697.32	\$64	3	\$4,386	\$57,786.48
Bull Run	499.93	\$64	2	\$4,386	\$40,767.52
Winner Creek	588.53	\$64	3	\$4,386	\$50,823.92
Keyhole	452.89	\$64	2	\$4,386	\$37,756.96
Fishhook	544.08	\$64	1	\$4,386	\$39,207.12
Big Johnson	1,193.59	\$64	5	\$4,386	\$98,319.76
Frontside	159.99	\$64	0	\$4,386	\$10,239.36
Totals	4,136.33		16		<b>\$334,901.12</b>

**SUMMARY:**

The Trails at Aspen Ridge Filing No. 4, containing 125 single-family lots, will be serviced by Widefield Water and Sanitation District. The collected flows will be conveyed to the existing wastewater treatment facility and treated prior to being discharged into Fountain Creek.

**APPENDIX**