



# Paint Brush Hills Metropolitan District

## WASTEWATER DISPOSAL REPORT

### AUTUMN HILLS DEVELOPMENT AND PRELIMINARY PLAN

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## TABLE OF CONTENTS

### 1.0 WASTERWATER DISPOSAL

- A. Summary of Proposed Subdivision and Collection System
- B. Map Showing Relative Location of Point of Connection to an Existing System
- C. Map Showing Relative Location of the Existing or Proposed Treatment Facility
- D. Estimate of Projected Population, Units, and Density (Average Day)
- E. Capacity of the existing treatment plant and current utilization
- F. Anticipated Capacity of any Proposed Treatment Plant (N/A)
- G. Letter of Commitment from the Wastewater Provider Proposed for Service with Service Boundaries
- H. Statement by the Wastewater Provider that Adequate Capacity Exists
- I. Estimate of Construction Costs

### 2.0 Exhibits

Exhibit 1 – PBHMD/WHMD IGA

Exhibit 2 – Map showing point of connection to existing system

Exhibit 3 – Map showing location of WWTF

## 1.0 WASTEWATER DISPOSAL

### A. Summary of the Proposed Subdivision and Collection System

The purpose of this report is to discuss the specific wastewater needs of the proposed Autumn Hills development in El Paso County, Colorado.

This report will cover the Autumn Hills Development Plan and Preliminary Plan, there are 470 proposed SFE's with single-family lots, multi-Family lots, commercial lots, open space, floodplain, and parks within the roughly 160-acre subdivision.

Paint Brush Hills Metropolitan District (PBHMD) currently owns and operates a Denver Basin well system that collects raw water, treats, stores, and distributes to the PBHMD service area. Autumn Hills development resides within PBHMD service area

Lands within the subject area have been planned as residential and commercial development.

Autumn Hills wastewater is planned to flow into Woodmen Hills (WHMD) wastewater treatment facility (WWTF) via PBHMD wastewater collection system along Stapleton Drive. Autumn Hills development is planning to construct one lift station to convey wastewater to Stapleton Drive and then it will travel to WHMD WWTF. PBHMD has a signed IGA with WHMD that is perpetual. Taps are given on a first come first serve basis. Currently, the WHMD WWTF has a 1.3 MGD of rated capacity which is currently serving approximately 0.9 MGD. The IGA has been provided as (Exhibit 1). The projected wastewater loading from Autumn Hills and PBHMD would account for approximately 17% of the total capacity of the WHMD WWTF.

The system is proposed to be a gravity sewer system located along Stapleton Drive, connecting to the WWTF on Stapleton Drive. This is existing pipe as of today.

### B. Map Showing Relative Location of Point of Connection to an Existing System

Refer to Exhibit 2.

### C. Map Showing Relative Location of the Existing Treatment Facility

Refer to Exhibit 3.

### D. Estimate of Projected Population, Units, and Density (Average Day)

Projected Wastewater Loads: Wastewater projections are based on similar districts' historical use in this area. It is expected that each SFE in Autumn Hills will generate an average of 172 gallons/day of wastewater. Table 1 below summarizes the

projected wastewater loads for Autumn Hills.

**Table 1: Project Wastewater Loads**

Description	SFE's	Average Base (GPD)	Average Day (GPD)
Single Family Residences	470	172	80,840
<b>Grand Totals</b>	<b>470</b>		<b>80,840</b>

**E. Capacity of the Existing Treatment Plant and Current Utilization**

WHMD and PBHMD has allocation based on first come first serve. WHMD WWTF has 1,300,000 GPD of wastewater treatment capacity to which PBHMD is currently contributing 125,000 GPD of the 900,000 GPD of current flow. The available capacity is sufficient to serve additional 2300-2400 SFE's based on the wastewater loading typical of developments in the area.

The WHMD WWTF permitted capacity is 1.3 MGD and the current loading is approximately 0.9 MGD.

**F. Anticipated Capacity of any Proposed Treatment Plant**

No treatment plants are proposed to be constructed to serve the proposed development. The existing WWTF has sufficient capacity to serve the project as described above.

**G. Commitment for Wastewater treatment is based on the IGA with PBHMD & WHMD for Service w/Service Boundaries**

Refer to Exhibit 1 for the IGA.

**H. Estimate of Construction Costs**

Meridian Hills LLC has committed to complete construction of the conveyance system (lift stations, force mains and gravity interceptors) within Autumn Hills and connecting to the existing PBHMD collection system. The infrastructure for Autumn Hills Development will be constructed prior any construction of SFE's

Paint Brush Hills  
Metropolitan District

Stapleton Dr

Autumn Hills Development

Meridian Rd

Woodmen Hills  
WWTF

Stapleton Dr



