

Table 7.4 Beaumont Mesa LS - Estimated Time to Spill

Wastewater Master Plan

City of Beaumont

PRELIMINARY

	Future Flow Conditions			
	Average Flow Conditions		Peak Flow Conditions	
	Dry Weather	Wet Weather	Dry Weather	Wet Weather
Beaumont Mesa LS Inflow (gpm)				
Upper Oak Valley LS ¹	1,850	1,850	3,700	3,700
Olivewood LS ²	650	650	650	650
Gravity Drainage ³	331	412	650	719
Maximum Inflow	2,831	2,912	5,000	5,069
Estimated time to Spill				
Maximum Wet Well Volume (gallon) ⁴	54,000	54,000	54,000	54,000
Time to Spill, (mins) ²	19.1	18.5	10.8	10.7

AKEL
ENGINEERING GROUP, INC.

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Notes:

- Flow based on recommended pump improvements and assumes the following pump operations:
Average Flow: One duty pump active
Peak Flow Conditions: Two duty pumps active
- Flow based on recommended pump improvements and assumes the following pump operations:
Average/Peak Flow: One duty pump active
- Peak flows extracted from wastewater hydraulic model. Average flows estimated based on peak flows and associated peaking factors.
- Volume estimated based on 21.0 wet well level and total wet well area estimated based on drawings provided by Cannon May 12, 2020.
- Time to spill estimated based on maximum wet well volume and maximum inflow