

TABLE C-3
HYDRAULIC GRADIENT AND GROUNDWATER VELOCITY IN DEEP SURFICIAL AQUIFER
HERCULES LLC AND PINOVA, INC.
BRUNSWICK, GA

Horizontal Hydraulic Gradient Calculation
Surficial Aquifer - Deep Zone of Upper Unit

Well Set	Horizontal Distance Between Wells	Hydraulic Head Difference		Horizontal Hydraulic Gradient
	Feet	Feet		Feet / Feet
Upper Unit - Deep Wells MW-19D / MW-20D	4,404	12/12/16	3.58	0.0008

Groundwater Flow Velocity Calculations
Deep Zone - Upper Unit of Surficial Aquifer

Groundwater Elevations		Date		
		12/12/16		
	MW-19D	6.30	ft.	
	MW-20D	2.72	ft.	
		3.58	ft.	=dh
	Distance between wells:	4,404	ft.	= dl
	Horiz. Hydraulic gradient (i) =	0.0008		= dh/dl
	¹ K =	36.5	ft/day	
	n _e =	0.25		
	Avg. Linear Flow Velocity (V) =	0.119	ft/ day	= iK/n _e

Notes:

¹ Hydraulic conductivity value is an average of all aquifer tests conducted to date in the applicable aquifer zone.