

FYNOP - Point Dilution Test Results

Determined from Borehole Dimensions
 Determined from DI Water Slug Volume-----



DRAFT RESULTS FOR DISCUSSION PURPOSES ONLY.

Borehole MW137A

Test #	Screened Interval in feet BGS	Borehole diameter ft	Borehole Radius ft	Effective Test Interval Height (Voided) ft	Test Interval Volume		Storage Volume of Injection Pipe ft**3	Volume of Tracer Slug Entering the Test Interval Section		time to recovery minutes	Background umhos/cm	Initial Conc umhos/cm	Final Conc umhos/cm	Co umhos/cm	C umhos/cm	Borehole velocity using borehole diameter v* ft/min	Borehole velocity using slug volume v* ft/min	porosity (%)**	α***	Adjustment Factor	Formation Velocity		DI slug volume gals ft**3	
					A ft**2	W ft**3		A ft**2	W ft**3												v ft/min	v ft/min		
1	283 ft - 298 ft	0.48958333	0.244791665	5	2.45	0.94	0.90	3.67	4.83	3.67	9.00	615.00	150	614	465.00	1.00	0.262414	0.518159	25.000000	1.000000	1.049655	2.072635	34.2	4.571826

Voided 285-290 ft BGS; weathered/soft with clay-filled seams 290-295 ft BGS.

** roughly estimated based on partial void filling.

***adopted from Freeze and Cherry (1979) Range is 0.5 to 4.

Eq'n 9.27; after Freeze and Cherry, p.429

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