

**Table 3-5  
Hydraulic Conductivity Estimates  
Groundwater Remedial Investigation Report  
Garfield Avenue Group of Sites  
PPG, Jersey City, New Jersey**

Location	Water Bearing Zone	Screened Material	Screened Interval (ft bgs)	K (ft/day)	K (cm/sec)	Type of Test
114-MW27A	SHALLOW	Fill - Historic	11 - 16	1.68	5.93E-04	Slug test
114-P1A-MW101S	SHALLOW	Fill - DGA	5 - 15	115.55	4.08E-02	Slug test
114-P1B-MW102S	SHALLOW	Fill - DGA	6 - 16	6.23	2.20E-03	Slug test
114-P2B3-MW101S	SHALLOW	Fill - DGA	6 - 16	1.24	4.37E-04	Slug test
114-P2B4-MW101S	SHALLOW	Fill - DGA	8 - 18	1.42	5.01E-04	Slug test
133-MW1A	SHALLOW	Fill - Historic	3 - 13	9.66	3.41E-03	Slug test
133-P3C-MW101S	SHALLOW	Fill - DGA	4 - 14	140.68	4.96E-02	Slug test
133-P3C-MW102S	SHALLOW	Fill - Historic	4 - 14	152.55	5.38E-02	Slug test
137-P3B-MW101S	SHALLOW	Fill - DGA	6 - 16	60.37	2.13E-02	Slug test
HSS-P3C-MW1S	SHALLOW	Fill - DGA	7 - 17	156.85	5.53E-02	Slug test
HSS-P3C-MW2S	SHALLOW	Fill - DGA	6 - 16	181.35	6.40E-02	Slug test
MW10S	SHALLOW	Fill - Historic	5 - 15	1.72	6.07E-04	Slug test
MW7S	SHALLOW	Fill - Historic	2 - 12	8.12	2.86E-03	Slug test
MW8S	SHALLOW	Fill - Historic	7 - 12	13.09	4.62E-03	Slug test
114-MC-EW103	INTERMEDIATE	Fine SAND with silt, trace clay/CLAY with silt, trace fine sand	30 - 45	0.52	1.83E-04	Pump Test
114-MC-PZ103	INTERMEDIATE	Fine SAND with silt, trace clay/CLAY some silt, little fine sand	37 - 42	2.35	8.29E-04	Pump Test
114-MC-PZ203	INTERMEDIATE	Fine SAND	37 - 42	1.75	6.17E-04	Pump Test
114-MW19B	INTERMEDIATE	Silty CLAY, some very fine SAND	45 - 50	3.76	1.33E-03	Slug test
114-MW24B	INTERMEDIATE	Fine to medium SAND	30 - 35	3.95	1.39E-03	Slug test
114-MW27B	INTERMEDIATE	Fine to medium SAND with fine to coarse gravel	30 - 35	0.14	4.94E-05	Slug test
133-MW1B	INTERMEDIATE	Fine SAND and silt/SILT with some very fine sand	32- 37	43.65	1.54E-02	Slug test
137-MW1B	INTERMEDIATE	Fine to medium GRAVEL/Medium to coarse SAND, little silt, trace clay/SILT with very fine sand	28 - 33	30.27	1.07E-02	Slug test
137-MW2B	INTERMEDIATE	Very fine to coarse SAND, some fine to medium gravel, trace silt/Very fine to fine sandy SILT	28 - 33	6.65	2.35E-03	Slug test
MW8D	INTERMEDIATE	SAND and SILT	39 - 49	2.08	7.34E-04	Slug test
MW7D	INTERMEDIATE/DEEP	Fine to coarse SAND/Silty fine SAND/Laminated Silt and silty SAND	38 - 48	1.56	5.50E-04	Slug test
114-MW19C	DEEP	Very fine silty SAND and graded GRAVEL, trace clay/Very fine silty SAND/SILT, trace clay/Very fine SAND, trace silt	96 - 101	2.02	7.13E-04	Slug test
114-MW67C	DEEP	Fine SAND, little silt, trace clay (Lower Deep Zone)	50 - 56	1.16	4.09E-04	Specific capacity test (confined)
114-MW68C	DEEP	Fine SAND, some silt, trace clay (Lower Deep Zone)	50 - 56	1.01	3.56E-04	Specific capacity test (confined)
114-MW70C	DEEP	Fine to medium SAND, some silt, little fine to coarse gravel (Lower Deep Zone)	85 - 95	2.02	7.13E-04	Specific capacity test (confined)
133-MW1C	DEEP	Fine to coarse SAND and fine to coarse GRAVEL/SILT, some fine to coarse GRAVEL, little cobbles, trace fine sand	72 - 77	1.54	5.43E-04	Slug test
137-MW1C	DEEP	SILT, some fine to coarse sand, little fine to coarse gravel, trace clay	68 - 73	0.01	3.53E-06	Slug test
MW6C	DEEP	Coarse to very fine SAND, some silt, little to coarse fine gravel (Lower Deep Zone)	55 - 65	8.16	2.88E-03	Slug test
114-MW16B	BEDROCK	Diabase	30.5 - 35.5	0.06	2.12E-05	Slug test

**Notes:**  
bgs - below ground surface  
cm - centimeters  
DGA - dense graded aggregate  
ft - feet  
K - hydraulic conductivity  
sec - second