

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-158A	67.0	77.0	69.00	59.00	64.00	2.00	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-158A	84.0	94.0	52.00	42.00	47.00	0.31	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-158A	110.0	120.0	26.00	16.00	21.00	2.18	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-158A	140.0	150.0	-4.00	-14.00	-9.00	2.28	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-158A	213.0	223.0	-77.00	-87.00	-82.00	2.88	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-158A	248.0	258.0	-112.00	-122.00	-117.00	22.40	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-158A	275.0	300.0	-139.00	-164.00	-151.50	0.03	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-158A	290.0	300.0	-154.00	-164.00	-159.00	0.01	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-159	35.5	52.0	102.27	85.77	94.02	0.002	Packer Withdrawal	Hvorslev
TW-159	75.0	85.0	62.77	52.77	57.77	3.35	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-159	124.0	134.0	13.77	3.77	8.77	5.18	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-159	157.0	167.0	-19.23	-29.23	-24.23	0.03	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-159	185.0	195.0	-47.23	-57.23	-52.23	0.42	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-159	240.0	250.0	-102.23	-112.23	-107.23	0.57	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-159	272.0	282.0	-134.23	-144.23	-139.23	0.35	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-159	285.0	300.0	-147.23	-162.23	-154.73	1.15	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-160	40.0	50.0	80.60	70.60	75.60	3.94	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-160	90.0	100.0	30.60	20.60	25.60	0.01	Packer Withdrawal	Hvorslev
TW-160	128.0	138.0	-7.40	-17.40	-12.40	0.04	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-160	170.0	180.0	-49.40	-59.40	-54.40	0.03	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-160	210.0	220.0	-89.40	-99.40	-94.40	0.14	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-160	250.0	260.0	-129.40	-139.40	-134.40	2.58	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-160	290.0	300.0	-169.40	-179.40	-174.40	0.001	Packer Withdrawal	Hvorslev
TW-161	27.0	37.0	100.95	90.95	95.95	1.51	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-161	62.0	72.0	65.95	55.95	60.95	0.99	Packer Withdrawal	Hvorslev
TW-161	109.0	119.0	18.95	8.95	13.95	5.04	Packer Withdrawal	Hvorslev
TW-161	149.0	159.0	-21.05	-31.05	-26.05	3.53	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-161	166.0	176.0	-38.05	-48.05	-43.05	2.39	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-161	181.0	191.0	-53.05	-63.05	-58.05	0.17	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos
TW-161	229.0	239.0	-101.05	-111.05	-106.05	0.26	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-161	290.0	302.0	-162.05	-174.05	-168.05	0.17	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-162	28.0	38.0	109.61	99.61	104.61	3.86	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-162	55.0	65.0	82.61	72.61	77.61	0.08	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-162	85.0	95.0	52.61	42.61	47.61	0.11	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-162	131.0	141.0	6.61	-3.39	1.61	2.79	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-162	154.0	164.0	-16.39	-26.39	-21.39	5.73	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-162	275.0	300.0	-137.39	-162.39	-149.89	0.08	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-163	40.0	50.0	82.23	72.23	77.23	2.62	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-163	91.0	101.0	31.23	21.23	26.23	0.75	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-163	112.0	122.0	10.23	0.23	5.23	0.07	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-163	150.0	160.0	-27.77	-37.77	-32.77	0.01	Packer Withdrawal	Hvorslev
TW-163	193.0	203.0	-70.77	-80.77	-75.77	2.61	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-163	220.0	230.0	-97.77	-107.77	-102.77	73.21	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-163	250.0	260.0	-127.77	-137.77	-132.77	3.00	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-163	268.0	278.0	-145.77	-155.77	-150.77	0.07	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-164	72.0	82.0	81.91	71.91	76.91	2.10	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-164	93.0	103.0	60.91	50.91	55.91	1.85	Packer Withdrawal	Hvorslev; McElwee-Zenner
TW-164	130.0	140.0	23.91	13.91	18.91	5.24	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-164	190.0	200.0	-36.10	-46.10	-41.10	56.95	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-164	290.0	300.0	-136.10	-146.10	-141.10	0.27	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos
TW-165	39.0	49.0	77.71	67.71	72.71	7.31	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-165	73.0	83.0	43.71	33.71	38.71	0.01	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-165	130.0	140.0	-13.29	-23.29	-18.29	12.46	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-165	184.0	194.0	-67.29	-77.29	-72.29	21.17	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-165	214.0	224.0	-97.29	-107.29	-102.29	0.70	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-165	248.0	258.0	-131.29	-141.29	-136.29	0.05	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-165	283.0	293.0	-166.29	-176.29	-171.29	0.04	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-166	35.0	45.0	82.55	72.55	77.55	2.23	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-166	65.0	75.0	52.55	42.55	47.55	0.02	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-166	108.0	118.0	9.55	-0.45	4.55	1.82	Packer Withdrawal	Hvorslev
TW-166	153.0	163.0	-35.45	-45.45	-40.45	0.12	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-166	207.0	217.0	-89.45	-99.45	-94.45	5.31	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-166	240.0	250.0	-122.45	-132.45	-127.45	0.18	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-166	265.0	275.0	-147.45	-157.45	-152.45	0.01	Packer Withdrawal	Hvorslev
TW-166	285.0	300.0	-167.45	-182.45	-174.95	0.02	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-167	26.5	44.0	98.01	80.51	89.26	1.62	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev
TW-167	81.0	91.0	43.51	33.51	38.51	1.34	Packer Withdrawal	Cooper-Bredehoeft-Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-167	113.0	123.0	11.51	1.51	6.51	0.18	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-167	151.0	161.0	-26.49	-36.49	-31.49	2.29	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-167	199.0	209.0	-74.49	-84.49	-79.49	1.78	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-167	275.0	300.0	-150.49	-175.49	-162.99	0.11	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-167	26.5	44.0	98.01	80.51	89.26	17.82	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	59.0	69.0	52.01	42.01	47.01	13.02	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	81.0	91.0	30.01	20.01	25.01	8.39	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	118.0	128.0	-6.99	-16.99	-11.99	0.13	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	141.0	151.0	-29.99	-39.99	-34.99	9.57	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	153.0	163.0	-41.99	-51.99	-46.99	7.97	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
Summary of Hydraulic Conductivity (K) Data
Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-168	183.0	193.0	-71.99	-81.99	-76.99	0.04	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-168	277.0	287.0	-165.99	-175.99	-170.99	53.04	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-168	290.0	300.0	-178.99	-188.99	-183.99	43.21	Packer Withdrawal	Hvorslev, Approximation from Steady Drawdown
TW-169	57.3	70.0	96.41	83.71	90.06	1.82	Packer Withdrawal	Bouwer & Rice; Hvorslev
TW-169	140.0	150.0	13.71	3.71	8.71	0.07	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-169	183.0	193.0	-29.29	-39.29	-34.29	0.04	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-169	250.0	260.0	-96.29	-106.29	-101.29	0.14	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	51.6	74.0	97.74	75.34	86.54	0.86	Packer Withdrawal	Bouwer & Rice; Hvorslev
TW-170	85.0	95.0	64.34	54.34	59.34	0.09	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	120.0	130.0	29.34	19.34	24.34	26.58	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	156.0	166.0	-6.66	-16.66	-11.66	2.63	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
TW-170	180.0	190.0	-30.66	-40.66	-35.66	5.74	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	204.0	214.0	-54.66	-64.66	-59.66	0.06	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	265.0	275.0	-115.66	-125.66	-120.66	0.004	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
TW-170	290.0	300.0	-140.66	-150.66	-145.66	0.004	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	29.0	100.0	67.86	-3.14	32.36	0.003	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	194.0	204.0	-97.14	-107.14	-102.14	0.011	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	222.0	232.0	-125.14	-135.14	-130.14	0.004	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	285.0	295.0	-188.14	-198.14	-193.14	0.006	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	311.0	321.0	-214.14	-224.14	-219.14	0.12	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	357.0	367.0	-260.14	-270.14	-265.14	0.005	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988

Appendix I, Table I-1
 Summary of Hydraulic Conductivity (K) Data
 Hoffmann-La Roche, Inc. - Nutley, NJ

Well ID	Test Interval Depth (ft bgs)		Approx. Test Interval Elevation (ft msl NAVD88)			Hydraulic Conductivity (K) (ft/day)	Type of Test	Method
	Top	Bottom	Top	Bottom	Midpoint			
DW-25	440.0	450.0	-343.14	-353.14	-348.14	0.009	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	491.0	501.0	-394.14	-404.14	-399.14	0.09	Packer Withdrawal	Cooper-Bredehoeft- Papadopulos; Hvorslev
DW-25	545.0	566.0	-448.14	-469.14	-458.64	0.009	Packer Withdrawal	Hvorslev

References:

Bouwer, H., 1989. The Bouwer and Rice Slug Test — An Update. *Groundwater*, Volume 27, Issue 3, p. 304 to 309.

Cooper, H.H., J.D. Bredehoeft, and I.S. Papadopulos, 1967. Response of a Finite-Diameter Well to an Instantaneous Charge of Water, *Water Resources Research*, Volume 3, No. 1, p. 263 to 269.

Hvorslev, M.J., 1951. Time Lag and Soil Permeability in Groundwater Observations. Bulletin N. 36, Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi

McElwee, C.D. and M. Zenner, 1998. A Non-Linear Model for Analysis of Slug Test Data. *Water Resources Research*, Volume 34, No. 1, p. 55-66.

Robbins, G., T. Alejandra, J. Aragon, and R. Andres, 2009. "Determining Hydraulic Conductivity using Pumping Data from Low-Flow Sampling", *Groundwater*, March-April, 2009.

Notes:

ft bgs = feet below ground surface

NAVD88 = North American vertical datum of 1988