

Table 3
Well Construction Details, Surface Water Locations, and
Temporary Well Sampling Summary

Table 3-1 - Monitoring Well Construction Details Site Wide

Table 3-2 - Remediation Well Construction Details Site Wide

Table 3-3 - Monitoring Well Construction Details Off-Site

Table 3-4 - Surface Water Gauging Locations Details

Table 3-5 - Temporary Well Borehole Sampling Summary

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S1: Greater than 80 feet above mean sea level										
22RI-MW1	IA-10	586562.5	729829.5	E201306290	05/07/13	115.19	PVC / 2	Screen	10	2 - 10
23RI-MW1	IA-10	586452.2	729780.2	E201306296	05/15/13	115.39	PVC / 2	Screen	8	2 - 8
23RI-MW2	IA-10	586479.8	729762.7	E201306297	05/16/13	116.22	PVC / 2	Screen	8	2 - 8
26RI-MW1	IA-10	586300.2	729312.7	E201306295	05/20/13	121.20	PVC / 2	Screen	15	5 - 15
53RI-MW1	IA-10	586119.1	730247.4	E201304935	04/18/13	123.46	PVC / 2	Screen	13.5	3.5 - 13.5
53RI-MW2	IA-10	586177.8	730190.7	E201304937	04/22/13	117.75	PVC / 2	Screen	10	2 - 10
53RI-MW3	IA-10	586113.7	730094.7	E201304940	04/16/13	118.02	PVC / 2	Screen	8.5	2.5 - 8.5
53RI-MW4	IA-10	586029.0	730097.5	E201304941	04/16/13	124.25	PVC / 2	Screen	14	4 - 14
53RI-MW5	IA-10	586040.4	730240.1	E201304943	04/19/13	125.97	PVC / 2	Screen	15	5 - 15
66RI-MW1	IA-10	586407.8	730581.1	E201304921	04/15/13	120.00	PVC / 2	Screen	16	6 - 16
66RI-MW2	IA-10	586607.4	730463.7	E201304925	04/15/13	119.64	PVC / 2	Screen	15	5 - 15
66RI-MW3	IA-10	586674.7	730380.5	E201304929	04/17/13	118.90	PVC / 2	Screen	8.5	2.5 - 8.5
66RI-MW4	IA-10	586648.3	730201.6	E201304931	04/17/13	118.01	PVC / 2	Screen	9.5	2.5 - 9.5
66RI-MW5	IA-10	586597.5	730080.7	E201305780	05/02/13	115.90	PVC / 2	Screen	8	2 - 8
66RI-MW6	IA-10	586467.8	730110.7	E201305781	05/02/13	117.37	PVC / 2	Screen	10	2 - 10
66RI-MW7	IA-10	586346.3	730204.1	E201305782	05/02/13	119.65	PVC / 2	Screen	10	2 - 10
66RI-MW8	IA-10	586221.8	730240.4	E201305783	05/03/13	119.63	PVC / 2	Screen	15	5 - 15
131RI-MW1	IA-10	586589.3	729807.6	E201306020	05/07/13	114.81	PVC / 2	Screen	9.5	1.5 - 9.5
138RI-MW1	IA-10	586421.1	729771.3	E201306319	05/10/13	114.74	PVC / 2	Screen	8	2 - 8
179RI-MW1	IA-10	586504.2	730032.2	E201306285	05/08/13	116.34	PVC / 2	Screen	10	2 - 10
186RI-MW1	IA-10	586258.9	729977.9	E201305800	05/03/13	115.65	PVC / 2	Screen	10	2 - 10
186RI-MW2	IA-10	586382.3	729891.2	E201305801	04/30/13	115.65	PVC / 2	Screen	10	2 - 10
186RI-MW3	IA-10	586490.1	729795.9	E201305808	04/30/13	115.61	PVC / 2	Screen	9	2 - 9
186RI-MW4	IA-10	586555.8	729663.8	E201306018	05/07/13	114.97	PVC / 2	Screen	8.5	1.5 - 8.5
187RI-MW1	IA-10	586556.4	729325.5	E201305797	05/01/13	110.94	PVC / 2	Screen	14.3	4.3 - 14.3
187RI-MW2	IA-10	586570.0	729168.4	E201305798	04/30/13	110.69	PVC / 2	Screen	12	2 - 12
187RI-MW3	IA-10	586607.1	729070.8	E201305799	04/29/13	107.94	PVC / 2	Screen	14.2	4.2 - 14.2
190RI-MW1	IA-10	586510.8	729362.2	E201305795	05/01/13	111.31	PVC / 2	Screen	13.3	3.3 - 13.3
190RI-MW2	IA-10	586553.7	729057.6	E201305796	04/30/13	108.79	PVC / 2	Screen	12.3	2.3 - 12.3
ART-MW-1	IA-02	587122.0	729334.0	E201310219	07/29/13	117.97	PVC / 4	Screen	18	4 - 18
ART-MW-2	IA-02	587094.2	729381.3	E201310220	07/30/13	117.89	PVC / 4	Screen	14	4 - 14
ART-MW-3	IA-02	587062.6	729385.8	E201310221	07/29/13	117.84	PVC / 4	Screen	15.5	4 - 15.5
ART-MW-4	IA-02	587104.1	729311.0	E201310222	07/30/13	117.50	PVC / 4	Screen	18	4 - 18
ART-MW-5	IA-02	587105.1	729363.7	E201310117	07/31/13	118.07	PVC / 4	Screen	29	24 - 29
ART-MW-6	IA-02	587090.3	729399.2	E201310118	07/31/13	118.30	PVC / 4	Screen	40	25 - 40
DW-1B	Off-Site	588850.3	727758.7	E201300236	04/23/13	106.56	PVC / 2	Screen	35	25 - 35
MW-1	IA-01	586830.1	730109.7	2600011827	11/19/87	119.24	PVC / 4	Screen	14.3	4.3 - 14.3
MW-1A	IA-01	586881.6	730105.0	2600024654	11/01/91	120.23	PVC / 4	Screen	9.5	1.5 - 9.5
MW-2	IA-04	587102.9	729744.2	2600011828	11/18/87	120.41	Steel / 6	Open Hole	30.5	10.5 - 30.5
MW-4A	IA-01	586682.4	729882.3	2600042998	03/21/96	119.34	PVC / 2	Screen	16	6 - 16

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)	
		East (X)	North (Y)								
Zone S1: Greater than 80 feet above mean sea level (continued)											
MW-5	IA-06	586642.2	729359.2	2600011821	11/06/87	113.64	Steel / 6	Open Hole	30	13 - 30	
MW-6A	IA-06	586759.5	728975.5	2600014983	12/07/88	112.59	PVC / 4	Screen	25	15 - 25	
MW-7A	IA-09	587031.3	728496.4	2600043991	03/19/96	104.32	PVC / 2	Screen	15.5	5.5 - 15.5	
MW-7B	IA-09	586916.3	728620.2	2600051884	09/30/98	109.42	PVC / 2	Screen	15	5 - 15	
MW-8A	IA-11	587630.3	728136.2	2600029852	06/24/92	121.47	Steel / 6	Open Hole	33	15 - 33	
MW-9A	IA-07	587701.2	728544.2	E201000872	07/20/10	117.95	Steel / 6	Open Hole	34	24 - 34	
MW-10	IA-03	588022.7	729045.7	2600011831	10/27/87	118.46	PVC / 4	Screen	14.8	4.8 - 14.8	
MW-12	IA-03	588120.5	728879.4	2600011833	11/10/87	145.13	Steel / 6	Open Hole	50	15 - 50	
MW-13	IA-02	587038.1	729332.2	2600011834	11/12/87	116.44	PVC / 4	Screen	14.3	4.3 - 14.3	
MW-14A	IA-09	587134.2	729232.4	2600043992	03/18/96	114.59	PVC / 2	Screen	17.5	7.5 - 17.5	
MW-15A	IA-07	587343.8	728836.9	2600051888	10/01/98	109.24	PVC / 2	Screen	15	5 - 15	
MW-16	IA-01	586785.3	730345.7	2600012044	11/05/87	120.38	PVC / 4	Screen	13.8	3.8 - 13.8	
MW-17	IA-09	587075.7	729125.5	2600014984	12/08/88	114.26	PVC / 4	Screen	18	8 - 18	
MW-18	IA-11	587252.2	728417.9	2600014980	12/08/88	104.30	PVC / 4	Screen	19	9 - 19	
MW-19A	IA-07	587874.6	728739.6	E201000867	04/22/10	118.10	PVC / 4	Screen	17	7 - 17	
MW-20	IA-04	587314.5	729933.8	2600019596	03/20/90	120.74	Steel / 6	Open Hole	36	11 - 36	
MW-21	IA-09	587227.0	729206.7	2600036929	05/19/94	114.79	PVC / 4	Screen	15	5 - 15	
MW-23	IA-12	587895.7	729748.6	2600036931	05/20/94	122.45	PVC / 4	Screen	12	2 - 12	
MW-24	IA-12	587875.7	729720.2	2600036932	05/25/94	122.46	Steel / 6	Open Hole	42	22 - 42	
MW-25	IA-11	587135.2	728402.4	2600036933	05/27/94	103.75	PVC / 4	Screen	13	3 - 13	
MW-27	IA-10	586461.5	729512.2	2600051886	10/01/98	112.81	PVC / 2	Screen	15	5 - 15	
MW-28	IA-10	586448.0	729455.0	2600051887	10/01/98	113.07	PVC / 2	Screen	15	5 - 15	
MW-29	IA-10	586437.9	730566.1	2600053982	05/04/99	119.17	PVC / 2	Screen	14	4 - 14	
MW-30	IA-10	586547.5	729787.2	2600053315	05/05/99	114.69	PVC / 2	Screen	10	3 - 10	
MW-31	IA-10	586509.5	729566.8	2600053316	05/05/99	113.37	PVC / 2	Screen	10	3 - 10	
MW-32	IA-10	586228.0	729760.0	2600053317	05/06/99	118.77	PVC / 2	Screen	12	2 - 12	
MW-33	IA-11	587198.4	728032.9	2600056730	03/08/00	103.69	PVC / 2	Screen	23	8 - 23	
MW-34	IA-03	588359.9	728965.5	2600053357	04/30/99	149.71	PVC / 2	Screen	49.4	29.4 - 49.4	
MW-35	IA-03	588200.1	728946.2	2600053353	04/30/99	144.72	PVC / 2	Screen	50	30 - 50	
MW-36	IA-07	588216.2	728776.3	2600053359	05/03/99	146.67	PVC / 2	Screen	50	30 - 50	
MW-37	IA-03	588192.4	729148.8	2600053360	04/28/99	134.73	Steel / 6	Open Hole	35	20 - 35	
MW-38	IA-03	587990.5	728907.5	2600053361	04/20/99	118.65	PVC / 2	Screen	6.5	1.5 - 6.5	
MW-39-1	IA-04	587474.9	729782.6	2600032778	03/26/93	120.52	PVC / 4	Screen	21.2	11.2 - 21.2	
MW-39-2A	IA-04	587474.7	729728.3	E201117406	11/16/11	120.04	PVC / 2	Screen	21.5	11.5 - 21.5	
MW-39A	IA-03	587991.3	728901.8	2600060828	04/11/01	118.81	PVC / 2	Screen	18.5	13.5 - 18.5	

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S1: Greater than 80 feet above mean sea level (continued)										
MW-42	IA-07	587866.9	728836.0	2600053354	04/27/99	118.02	PVC / 2	Screen	17.2	5.2 - 17.2
MW-43	IA-10	586287.5	729302.7	2600054720	08/18/99	123.77	PVC / 2	Screen	24.5	14.5 - 24.5
MW-44	IA-10	586150.6	729476.5	2600054721	08/11/99	126.36	PVC / 2	Screen	18.5	8.5 - 18.5
MW-45	IA-10	586304.8	729500.8	2600054722	08/12/99	118.63	PVC / 2	Screen	20	10 - 20
MW-46	IA-07	587931.0	727976.0	2600060830	04/12/01	144.55	Steel / 6	Open Hole	62	38 - 62
MW-52	IA-06	586765.8	729111.8	2600064191	04/15/02	114.81	Steel / 6	Open Hole	30	20 - 30
MW-57	IA-15	587368.0	727596.3	2600064219	05/23/02	98.16	Steel / 6	Open Hole	17.5	7.5 - 17.5
MW-58	IA-12	586874.8	730500.4	2600068227	06/25/03	137.12	PVC / 2	Screen	36	21 - 36
MW-59	IA-12	587450.2	730138.4	2600068226	06/24/03	127.40	Steel / 6	Open Hole	25.5	10.5 - 25.5
MW-60	IA-12	587966.3	729831.1	2600068225	06/25/03	122.97	PVC / 2	Screen	22	7 - 22
MW-60A	IA-12	588080.1	729750.3	E201218100	12/05/12	125.77	PVC / 2	Screen	30	15 - 30
MW-60B	IA-12	588168.3	729553.9	E201218101	12/06/12	132.06	PVC / 2	Screen	30	15 - 30
MW-60C	IA-12	587807.8	729921.0	E201218102	12/10/12	121.59	PVC / 2	Screen	25	10 - 25
MW-60E	IA-12	587908.1	729762.0	E201218104	12/07/12	122.54	PVC / 2	Screen	26	11 - 26
MW-60F	IA-12	588004.5	729806.0	E201218544	12/11/12	123.98	PVC / 2	Screen	25	10 - 25
MW-60G	IA-12	587901.0	729870.8	E201302320	03/04/13	122.45	PVC / 2	Screen	25	10 - 25
MW-60H	Off-Site	587916.7	729886.9	E201302317	03/05/13	122.69	PVC / 2	Screen	25	10 - 25
MW-60I	Off-Site	587979.6	729844.9	E201302318	03/12/13	123.28	PVC / 2	Screen	25	10 - 25
MW-60J	Off-Site	588017.4	729822.2	E201302319	03/15/13	124.31	PVC / 2	Screen	23.8	8.8 - 23.8
MW-60K	Off-Site	587819.2	729949.2	E201302315	03/21/13	122.02	PVC / 2	Screen	20	10 - 20
MW-60L	Off-Site	587864.6	729915.2	E201302316	03/08/13	121.81	PVC / 2	Screen	25	10 - 25
MW-61	IA-12	588766.0	729324.1	2600068293	07/08/03	157.94	Steel / 6	Open Hole	41	26 - 41
MW-62	IA-11	587205.1	728213.9	2600074451	04/26/05	101.66	PVC / 4	Screen	21	16 - 21
MW-64	IA-11	587227.7	728169.8	2600074452	05/12/05	101.93	PVC / 4	Screen	13	8 - 13
MW-65	IA-11	587247.6	728130.1	2600074453	05/13/05	102.37	PVC / 4	Screen	18	8 - 18
MW-66	IA-11	587181.8	728160.7	2600074454	05/11/05	100.52	PVC / 2	Screen	12	7 - 12
MW-67	IA-11	587218.4	728015.0	2600074455	05/10/05	102.01	PVC / 2	Screen	14	9 - 14
MW-68	IA-11	587132.7	728183.8	2600074456	04/07/05	100.05	PVC / 4	Screen	13	11 - 13
MW-69	IA-11	587087.7	728274.7	2600074457	05/18/05	101.64	PVC / 4	Screen	18.2	11.1 - 18.2
MW-72	IA-11	587159.5	728117.6	2600074458	04/12/05	102.62	PVC / 4	Screen	20	15 - 20
MW-80	IA-12	587905.3	729757.7	2600043993	03/21/96	122.43	PVC / 2	Screen	18.5	8.50 - 18.5
MW-81	IA-03	587567.9	729257.4	2600043486	03/13/96	119.09	PVC / 2	Screen	20	10 - 20
MW-89	IA-06	586766.3	728917.0	2600080663	10/06/06	111.84	PVC / 2	Screen	25	10 - 25
MW-90	IA-06	586800.5	728881.3	2600080664	10/09/06	110.97	PVC / 2	Screen	27.5	12.5 - 27.5
MW-91	IA-06	586853.1	728860.3	2600080665	10/10/06	109.90	PVC / 2	Screen	12.5	5 - 12.5
MW-92	IA-06	586856.2	728820.6	2600080662	10/10/06	108.23	PVC / 2	Screen	18.5	8.5 - 18.5
MW-93	IA-06	586799.9	728848.8	2600080660	10/10/06	110.32	PVC / 2	Screen	14	5 - 14
MW-94	IA-06	586800.8	728812.7	2600080661	10/10/06	109.69	PVC / 2	Screen	17	7 - 17
MW-95	IA-06	586771.4	728930.6	2600081124	01/23/07	111.96	PVC / 2	Screen	17	4 - 17

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S1: Greater than 80 feet above mean sea level (continued)										
MW-97	IA-06	586849.9	728880.6	2600081120	01/23/07	110.83	PVC / 2	Screen	7	4 - 7
MW-98	IA-06	586832.9	729350.5	2600091826	11/27/07	114.35	PVC / 2	Screen	8.6	3.6 - 8.6
MW-99	IA-11	587331.6	727790.9	P200804383	12/15/08	103.68	PVC / 2	Screen	20	11.5 - 20
MW-100	IA-11	587322.1	727785.9	P200804384	12/17/08	102.47	PVC / 2	Screen	13.6	8.6 - 13.6
MW-101	IA-11	587311.2	727792.5	P200804385	01/22/09	101.64	PVC / 2	Screen	17	9 - 17
MW-102	IA-11	587256.2	727920.5	P200804386	12/10/08	100.82	PVC / 2	Screen	13	8 - 13
MW-103A	Off-Site	586910.0	728286.9	P200804387	01/12/09	99.93	PVC / 2	Screen	16	6 - 16
MW-104A	Off-Site	587022.3	728115.6	P200804388	01/20/09	97.13	PVC / 2	Screen	13.5	3.5 - 13.5
MW-105A	Off-Site	586769.3	728004.5	P200804389	01/27/09	99.48	PVC / 2	Screen	12	7 - 12
MW-106A	Off-Site	587094.4	727971.4	P200804390	01/29/09	97.08	PVC / 2	Screen	13	8 - 13
MW-108A	Off-Site	587094.8	727639.8	P200804392	01/20/09	95.56	PVC / 2	Screen	12	7 - 12
MW-109	Off-Site	587087.5	728126.1	P200804393	01/15/09	100.32	PVC / 2	Screen	12.3	7.3 - 12.3
MW-111	IA-15	587335.2	727622.5	P200804395	12/11/08	101.16	PVC / 2	Screen	17	12 - 17
MW-112	IA-15	587421.9	727449.3	P200804396	12/12/08	96.66	PVC / 2	Screen	12	7 - 12
MW-124A	IA-15	587673.9	726942.4	E201308748	06/28/13	90.65	PVC / 2	Screen	25	15 - 25
MW-125	IA-07	587596.4	728652.0	E201012850	10/15/10	116.91	PVC / 2	Screen	15	5 - 15
MW-126	IA-10	586853.6	728465.1	E201012851	10/13/10	103.77	PVC / 2	Screen	15	5 - 15
MW-127	IA-04	587627.8	729694.4	E201012848	10/12/10	118.98	PVC / 2	Screen	13	3 - 13
MW-128	IA-07	587747.1	728764.5	E201012849	10/23/10	117.90	PVC / 2	Screen	17.5	7.5 - 17.5
MW-129	IA-10	586452.9	729784.7	E201012950	10/11/10	115.32	PVC / 2	Screen	11	4 - 11
MW-130	IA-15	587505.3	727533.0	E201113438	09/15/11	100.34	PVC / 2	Screen	17.5	7.5 - 17.5
MW-135	IA-01	586789.3	729695.9	E201113441	08/19/11	120.00	Steel / 6	Open Hole	17.5	7.5 - 17.5
MW-136	IA-01	586898.1	729586.1	E201113727	09/20/11	118.45	PVC / 2	Screen	19	9 - 19
MW-137	IA-02	586971.8	729542.8	E201113728	09/23/11	118.54	Steel / 6	Open Hole	19	12.3 - 19
MW-138	IA-11	587583.7	728174.8	E201115787	11/14/11	116.52	PVC / 2	Screen	19.5	14.5 - 19.5
MW-139	IA-07	587531.3	729062.9	E201118758	11/16/11	114.90	PVC / 2	Screen	19.5	9.5 - 19.5
MW-141	IA-13	587574.6	727860.0	E201113440	09/16/11	109.94	PVC / 2	Screen	28	18 - 28
MW-142	IA-13	587469.9	727646.4	E201115790	09/13/11	106.14	PVC / 2	Screen	26	16 - 26
MW-143	IA-13	587603.9	727606.3	E201115791	09/07/11	106.76	PVC / 2	Screen	26.5	16.5 - 26.5
MW-144A	Off-Site	586982.2	727607.2	E201204687	04/17/12	98.03	PVC / 2	Screen	16.4	6.4 - 16.4
MW-145A	Off-Site	587435.1	727221.2	E201204688	04/30/12	101.32	PVC / 2	Screen	27.5	17.5 - 27.5
MW-146A	Off-Site	587569.5	726815.5	E201204689	04/24/12	84.84	Steel / 6	Open Hole	27.1	17.1 - 27.1
MW-150	IA-03	587936.1	729105.4	E201303086	03/15/13	121.45	Steel / 6	Open Hole	27	17 - 27
MW-151	IA-09	587291.0	729438.0	E201303809	04/01/13	118.60	PVC / 2	Screen	17	7 - 17
MW-152	IA-09	587356.9	729403.2	E201303811	04/01/13	118.95	PVC / 2	Screen	17	7 - 17
MW-153	IA-09	587462.4	729335.4	E201303819	04/02/13	117.80	PVC / 2	Screen	17	7 - 17
MW-154	IA-09	587428.0	729277.8	E201303820	04/03/13	118.22	PVC / 2	Screen	17	7 - 17
MW-155	IA-06	587036.0	729152.2	E201304354	04/09/13	114.30	PVC / 2	Screen	23	8 - 23
MW-156	IA-06	587027.0	729122.5	E201304355	04/09/13	112.87	PVC / 2	Screen	22	7 - 22

Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S1: Greater than 80 feet above mean sea level (continued)										
MW-157	IA-06	586738.5	729229.5	E201304356	04/04/13	113.08	PVC / 2	Screen	20	10 - 20
MW-158	IA-06	586933.2	729086.2	E201304357	04/11/13	112.79	PVC / 2	Screen	16.5	6.5 - 16.5
MW-159	IA-06	586967.7	729037.8	E201304358	04/13/13	112.04	PVC / 2	Screen	21	6 - 21
MW-160	IA-06	586865.1	729103.8	E201304359	04/05/13	112.90	PVC / 2	Screen	20	10 - 20
MW-161	IA-06	586812.8	729137.6	E201304360	04/08/13	113.25	PVC / 2	Screen	17	7 - 17
MW-162	IA-06	586721.9	729181.0	E201304361	04/03/13	112.92	PVC / 2	Screen	20	10 - 20
MW-163	IA-06	586687.4	729121.1	E201304362	04/02/13	113.00	PVC / 2	Screen	20	5 - 20
MW-164	IA-09	587394.7	729074.2	E201303821	04/08/13	113.74	PVC / 2	Screen	17	7 - 17
MW-165	IA-09	587160.9	729273.4	E201303826	04/05/13	115.37	PVC / 2	Screen	17	7 - 17
MW-166	IA-09	587175.3	729296.3	E201303828	04/05/13	115.69	PVC / 2	Screen	17	7 - 17
MW-167A	IA-09	587380.2	729272.5	E201304398	04/04/13	116.94	PVC / 2	Screen	17	7 - 17
MW-168A	IA-09	587322.1	729309.0	E201304407	04/04/13	116.45	PVC / 2	Screen	17	7 - 17
MW-169A	IA-09	587262.9	729345.9	E201304410	04/04/13	116.90	PVC / 2	Screen	17	7 - 17
MW-170	IA-09	587410.6	729374.6	E201303829	04/02/13	118.85	PVC / 2	Screen	17	7 - 17
MW-170A	IA-09	587402.8	729358.9	E201308753	07/12/13	119.02	PVC / 2	Screen	17	12 - 17
MW-171A	Off-Site	587218.3	727431.3	E201307628	08/16/13	103.26	PVC / 2	Screen	35	25 - 35
MW-172	IA-11	587694.8	727873.3	E201305231	05/23/13	136.88	PVC / 2	Screen	40	30 - 40
MW-173	IA-13	587512.2	727805.3	E201305193	04/17/13	108.47	PVC / 2	Screen	25	10 - 25
MW-174	IA-04	587513.8	729572.8	E201303564	04/23/13	120.01	Steel / 6	Open Hole	38	28 - 38
MW-175	IA-04	587587.0	729580.9	E201303565	04/26/13	119.94	Steel / 6	Open Hole	35	25 - 35
MW-177	IA-04	587132.4	729896.2	E201303566	05/10/13	121.05	Steel / 6	Open Hole	26.5	16.5 - 26.5
MW-178	IA-04	587599.0	729711.5	E201303568	04/30/13	117.49	Steel / 6	Open Hole	31	20 - 31
MW-179	IA-04	587584.0	729768.1	E201303569	05/02/13	114.64	Steel / 6	Open Hole	25	17 - 25
MW-180	IA-04	587495.2	729861.4	E201303570	04/02/13	121.47	Steel / 6	Open Hole	34	24 - 34
MW-182	IA-04	587294.6	729889.0	E201303572	04/12/13	121.32	Steel / 6	Open Hole	26	16 - 26
MW-183	IA-04	587434.8	729896.6	E201303573	04/01/13	121.72	Steel / 6	Open Hole	27	17 - 27
MW-184	IA-04	587366.7	729956.6	E201303574	04/05/13	121.43	Steel / 6	Open Hole	26	16 - 26
MW-185	IA-04	587318.5	729972.0	E201303575	04/10/13	121.00	Steel / 6	Open Hole	26	16 - 26
MW-186A	IA-02	587075.7	729358.4	E201304324	04/11/13	117.07	Steel / 2	Screen	17	7 - 17
MW-187	IA-03	587506.0	729142.5	E201303408	03/22/13	117.00	PVC / 2	Screen	18	4 - 18
MW-188	IA-03	587783.2	729087.5	E201303409	03/29/13	121.41	Steel / 6	Open Hole	39.8	29.8 - 39.8
MW-189A	IA-03	588020.2	728975.0	E201303410	03/19/13	119.35	PVC / 2	Screen	14	4 - 14
MW-190A	IA-03	588051.2	728989.2	E201303412	03/21/13	120.50	PVC / 2	Screen	17.5	5.5 - 17.5
MW-191A	IA-03	588066.8	729040.9	E201303414	03/19/13	119.78	PVC / 2	Screen	14.5	4.5 - 14.5
MW-192	IA-07	587327.6	728871.8	E201218665	12/14/12	110.08	PVC / 2	Screen	18	8 - 18
MW-193	IA-07	587412.5	729006.0	E201218663	12/18/12	113.32	PVC/2	Screen	17	7 - 17
MW-194	IA-07	587455.4	729073.9	E201218664	12/18/12	114.12	PVC/2	Screen	18	8 - 18
MW-195A	IA-07	587440.1	728717.7	E201218666	12/14/12	113.28	PVC/2	Screen	17	2 - 17
MW-196	IA-07	587818.9	728552.7	E201218603	12/13/12	118.73	PVC/2	Screen	23	13 - 23

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S1: Greater than 80 feet above mean sea level (continued)										
MW-197	IA-07	587793.3	728548.1	E201218604	12/12/12	118.44	PVC/2	Screen	23	13 - 23
MW-198	IA-07	587749.6	728522.5	E201218830	12/19/12	117.62	PVC / 2	Screen	20	10 - 20
MW-199	IA-07	587765.9	728548.3	E201218831	12/19/12	118.75	PVC / 2	Screen	22	12 - 22
MW-200	IA-04	587278.2	729679.5	E201303563	04/18/13	120.58	Steel / 6	Open Hole	26	16 - 26
MW-201A	Off-Site	588021.3	730011.2	E201306049	05/02/13	122.69	PVC / 2	Screen	25	10 - 25
MW-202	Off-Site	588061.1	729979.1	E201303452	03/22/13	123.39	PVC / 2	Screen	25	10 - 25
MW-203	Off-Site	588184.6	729913.2	E201303453	03/22/13	125.93	PVC / 2	Screen	25	10 - 25
MW-205	IA-10	586591.6	728745.6	E201305232	04/22/13	107.19	PVC / 2	Screen	14	4 - 14
MW-207A	IA-10	586307.3	728999.2	E201304515	05/08/13	113.92	PVC / 2	Screen	15	5 - 15
MW-208A	IA-10	586507.8	728650.3	E201304518	04/16/13	110.56	PVC / 2	Screen	15	4 - 14
MW-209A	Off-Site	586675.7	728173.8	E201306459	05/16/13	102.84	PVC / 2	Screen	18	8 - 18
MW-210	IA-10	586364.9	729146.0	E201305233	04/19/13	113.92	PVC / 2	Screen	15	5 - 15
MW-213A	Off-Site	585871.9	728875.0	E201311461	09/03/13	148.37	PVC / 2	Screen	27	22 - 27
MW-213B	Off-Site	585877.0	728882.6	E201311462	08/23/13	148.46	PVC / 2	Screen	50	40 - 50
MW-214A	Off-Site	586290.3	728476.3	E201311468	09/05/13	121.74	PVC / 2	Screen	25	20 - 25
MW-217	IA-04	587428.9	729402.4	E201308752	07/02/13	119.14	PVC / 2	Screen	17	7 - 17
MW-218	IA-07	587396.2	728492.8	E201309945	07/27/13	107.70	PVC / 2	Screen	18	5 - 18
MW-219	IA-11	587295.5	728331.8	E201309448	07/10/13	104.16	PVC / 2	Screen	20	5 - 20
MW-220	IA-15	587478.5	727334.0	E201308747	06/26/13	96.32	PVC / 2	Screen	12	2 - 12
MW-226A	IA-02	587112.2	729536.9	E201312045	08/22/13	119.53	PVC / 2	Screen	15	5 - 15
MW-227A	IA-11	587433.1	728128.1	E201314571	10/08/13	109.44	PVC / 2	Screen	24.5	14.5 - 24.5
MW-228A	IA-03	587964.1	729228.9	E201312279	09/18/13	121.52	PVC / 2	Screen	15	5 - 15
MW-229A	IA-10	586100.4	730374.9	E201312140	08/12/13	126.69	PVC / 2	Screen	13	3 - 13
MW-232B	IA-12	588227.3	729655.3	E201310944	08/13/13	132.36	PVC / 2	Screen	50	40 - 50
MW-235	IA-04	587338.1	729853.9	E201310946	09/21/13	121.19	PVC / 2	Screen	25	20 - 25
MW-237A	IA-12	587192.0	730306.0	E201311727	08/19/13	135.43	Steel / 6	Open Hole	30	20 - 30
MW-257A	Off-Site	587160.1	727293.4	E201316278	10/16/13	101.16	PVC / 2	Screen	25	15 - 25
MW-259A	IA-10	586239.9	729874.1	E201315227	10/17/13	117.43	PVC / 2	Screen	11.5	1.5 - 11.5
MW-260C	IA-03	588578.3	728709.4	E201310429	09/20/13	157.28	PVC / 2	Screen	80	60 - 80
PZ-01	IA-04	587300.5	729941.4	2600036869	05/20/94	121.54	PVC / 4	Screen	9	4 - 9
PZ-02	IA-10	586629.3	728954.5	2600053313	05/06/99	106.83	PVC / 2	Screen	10	2 - 10
PZ-03	IA-10	586756.6	728644.8	2600053314	05/07/99	104.83	PVC / 2	Screen	15	5 - 15
PZ-04	IA-03	587776.9	729626.4	2600053356	05/27/99	111.30	PVC / 1	Screen	10.5	1 - 10.5
PZ-05	IA-07	587178.9	728584.5	2600053319	05/27/99	108.79	PVC / 1	Screen	16	6 - 16
Abandoned (Former) Zone S1: Greater than 80 feet above mean sea level										
MW-4 (abandoned)	IA-01	N/A	N/A	2600011830	11/03/88	N/A	PVC / 4	Screen	15	5 - 15
MW-6 (abandoned)	IA-06	N/A	N/A	2600011822	11/13/87	N/A	PVC / 4	Screen	16	6 - 16
MW-7 (abandoned)	IA-09	N/A	N/A	2600011823	11/07/87	N/A	PVC / 4	Screen	21	6 - 21
MW-8 (abandoned)	IA-11	N/A	N/A	2600011824	11/20/87	N/A	Steel / 6	Open Hole	31	11 - 31

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Abandoned (Former) Zone S1: Greater than 80 feet above mean sea level (continued)										
MW-9 (abandoned)	IA-07	N/A	N/A	2600011825	11/03/87	N/A	Steel / 6	Open Hole	30	15 - 30
MW-11 (abandoned)	IA-03	N/A	N/A	2600011832	10/28/87	N/A	PVC / 4	Screen	20	10 - 20
MW-14 (abandoned)	IA-09	N/A	N/A	2600011835	11/17/87	N/A	PVC / 4	Screen	18	8 - 18
MW-15 (abandoned)	IA-07	N/A	N/A	2600011826	11/14/87	N/A	PVC / 4	Screen	20	6 - 20
MW-19 (abandoned)	IA-07	N/A	N/A	2600014981	12/06/88	N/A	PVC / 4	Screen	15	5 - 15
MW-39-2 (abandoned)	IA-04	N/A	N/A	2600032777	03/26/93	N/A	PVC / 4	Screen	21.5	11.5 - 21.5
MW-39 (abandoned)	IA-03	N/A	N/A	2600053362	05/13/99	N/A	PVC / 2	Screen	14.5	9.5 - 14.5
OW-1 (abandoned)	IA-03	N/A	N/A	2600053639	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-2 (abandoned)	IA-03	N/A	N/A	2600053640	04/22/99	N/A	PVC / 2	Screen	9	4 - 9
OW-3 (abandoned)	IA-03	N/A	N/A	2600053641	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-4 (abandoned)	IA-03	N/A	N/A	2600053642	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-5 (abandoned)	IA-03	N/A	N/A	2600053643	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-6 (abandoned)	IA-03	N/A	N/A	2600053644	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-7 (abandoned)	IA-03	N/A	N/A	2600053645	04/14/99	N/A	PVC / 2	Screen	14	2 - 14
OW-8 (abandoned)	IA-03	N/A	N/A	2600053646	04/14/99	N/A	PVC / 2	Screen	17	2 - 17
Zone S2: 50 to 80 feet above mean sea level										
MW-3	IA-12	588532.0	728954.2	2600011829	10/28/87	158.50	Steel / 6	Open Hole	79	25 - 79
MW-7C	IA-09	586922.5	728617.4	2600051885	09/30/98	109.32	PVC / 2	Screen	30	15 - 30
MW-15B	IA-07	587340.0	728829.9	2600051889	10/05/98	109.71	Steel / 6	Open Hole (3")	30	20 - 30
MW-22A	IA-06	586803.5	728799.5	2600051883	09/29/98	109.31	Steel / 6	Open Hole	45	25 - 45
MW-26A	IA-11	587122.6	728387.0	2600043994	03/21/96	103.48	Steel / 6	Open Hole	50	30 - 50
MW-40A	IA-03	587980.3	728897.1	2600060829	04/11/01	118.45	PVC / 2	Screen	39	19 - 39
MW-41	IA-03	587974.0	728897.4	2600053364	04/30/99	118.35	PVC / 2	Screen	58.7	38.7 - 58.7
MW-44B	IA-10	586157.3	729459.4	E201304514	04/16/13	126.13	PVC / 2	Screen	45	35 - 45
MW-47	IA-14	588291.2	726978.0	2600054724	08/05/99	77.02	PVC / 2	Screen	19.5	9.5 - 19.5
MW-48	IA-14	588197.8	726726.1	2600054725	08/04/99	68.59	PVC / 2	Screen	18	8 - 18
MW-49	IA-14	588079.4	726815.0	2600054726	08/03/99	70.50	PVC / 2	Screen	19	9 - 19
MW-50	IA-06	586740.6	728992.8	2600064189	04/15/02	112.75	Steel / 6	Open Hole	45	25 - 45
MW-53	IA-06	586753.7	729000.1	2600079967	08/31/06	112.91	Steel / 6	Open Hole	45	25 - 45
MW-55	IA-11	587314.4	727849.2	2600064217	05/29/02	104.16	Steel / 6	Open Hole	26	11 - 26
MW-63	IA-11	587207.6	728209.1	2600074505	04/27/05	101.70	PVC / 2	Screen	41.5	31.5 - 41.5
MW-70-1	IA-10	586482.1	729150.0	2600027257	10/31/91	110.17	Steel / 6	Open Hole	35.4	10.5 - 35.4
MW-70-2	IA-10	586514.9	729132.9	2600027258	11/01/91	109.94	Steel / 6	Open Hole	30.1	10.5 - 30.1
MW-70-3	IA-10	586532.6	729148.4	2600027259	10/31/91	109.69	Steel / 6	Open Hole	31.2	10.5 - 31.2
MW-71	IA-11	587130.2	728187.1	2600074506	04/13/05	99.89	Steel / 6	Open Hole	34	24 - 34
MW-73	IA-11	587244.3	727970.1	2600074459	05/17/05	101.16	PVC / 4	Screen	22	12 - 22
MW-74	IA-11	587157.7	728122.5	2600074507	04/20/05	102.68	Steel / 6	Open Hole	40	30 - 40
MW-75	IA-11	587202.9	728040.1	2600074508	05/04/05	100.98	Steel / 6	Open Hole	36	26 - 36

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S2: 50 to 80 feet above mean sea level (continued)										
MW-76	IA-06	586751.4	728899.3	2600079968	09/27/06	111.50	Steel / 6	Open Hole	45	25 - 45
MW-78	IA-06	586803.1	728873.8	2600079969	08/15/06	110.71	Steel / 6	Open Hole	45.5	25.0 - 45.5
MW-82	IA-06	586845.6	728843.8	2600079970	09/29/06	109.34	Steel / 6	Open Hole	45	25 - 45
MW-84	IA-06	586855.1	728815.4	2600079971	10/05/06	107.97	Steel / 6	Open Hole	45	25 - 45
MW-87	IA-06	586801.0	728844.0	2600081122	10/03/06	110.11	Steel / 6	Open Hole	45	25 - 45
MW-103B	Off-Site	586914.6	728279.3	P200804397	02/05/09	99.52	Steel / 6	Open Hole	38	28 - 38
MW-104B	Off-Site	587026.2	728107.8	P200804398	01/20/09	97.05	Steel / 6	Open Hole	34	24 - 34
MW-105B	Off-Site	586765.0	727997.3	P200804399	02/05/09	99.63	Steel / 6	Open Hole	40	30 - 40
MW-106B	Off-Site	587097.7	727960.4	P200804400	01/26/09	97.11	Steel / 6	Open Hole	34	24 - 34
MW-107	Off-Site	587133.4	727711.0	P200804401	02/03/09	97.82	Steel / 6	Open Hole	33	23 - 33
MW-108B	Off-Site	587100.2	727635.1	P200804402	01/30/09	95.97	Steel / 6	Open Hole	33	23 - 33
MW-112B	IA-15	587415.4	727462.4	E201308427	06/20/13	96.42	PVC / 2	Screen	43	28 - 43
MW-114	IA-12	588646.5	729160.4	P200910160	08/06/09	158.19	Steel / 6	Open Hole	80	60 - 80
MW-115	IA-03	588353.2	728921.4	P200910161	08/20/09	145.74	Steel / 6	Open Hole	80	60 - 80
MW-118	IA-07	588077.6	728461.2	P200910151	10/09/09	149.72	Steel / 6	Open Hole	80	60 - 80
MW-120	IA-07	587977.7	728039.0	P200910157	10/27/09	144.94	PVC / 4	Screen	80	30 - 80
MW-122	IA-07	588144.5	728328.8	P200910153	09/15/09	151.43	Steel / 6	Open Hole	80	60 - 80
MW-124B	IA-15	587683.0	726964.8	E201000869	07/23/10	91.62	Steel / 6	Open Hole	34	24 - 34
MW-125A	IA-07	587573.3	728642.9	E201303085	03/23/13	117.15	Steel / 6	Open Hole	33	23 - 33
MW-128B	IA-07	587762.4	728790.9	E201314890	07/30/13	117.83	PVC / 2	Screen	40	30 - 40
MW-131	IA-14	587994.8	727346.1	E201113439	08/24/11	101.03	PVC / 2	Screen	22.5	12.5 - 22.5
MW-144B	Off-Site	586982.4	727598.9	E201204690	04/17/12	97.84	Steel / 6	Open Hole	37	27 - 37
MW-145B	Off-Site	587430.1	727216.4	E201204691	05/07/12	101.23	PVC / 2	Screen	37.3	32.3 - 37.3
MW-146B	Off-Site	587487.1	726751.9	E201306327	07/17/13	102.14	PVC / 2	Screen	57	42 - 57
MW-148A	IA-14	587897.6	726943.8	E201207238	05/18/12	87.32	PVC / 2	Screen	27.6	17.6 - 27.6
MW-167B	IA-09	587384.5	729270.2	E201304401	04/10/13	117.10	Steel / 6	Open Hole	37	27 - 37
MW-168B	IA-09	587326.4	729306.5	E201304408	04/12/13	116.79	Steel / 6	Open Hole	37	27 - 37
MW-169B	IA-09	587267.0	729343.6	E201304412	04/12/13	116.86	Steel / 6	Open Hole	37	27 - 37
MW-170B	IA-09	587412.4	729358.8	E201308754	07/11/13	118.93	PVC / 2	Screen	40	30 - 40
MW-171B	Off-Site	587222.1	727422.9	E201307651	08/19/13	103.16	PVC / 2	Screen	50	40 - 50
MW-181	IA-04	587379.4	729650.5	E201303571	04/16/13	119.57	Steel / 6	Open Hole	40	30 - 40
MW-186-2	IA-02	587069.3	729359.3	E201306228	05/13/13	117.10	Steel / 10 & 6	Open Hole	38	28 - 38
MW-189B	IA-03	588012.6	728963.6	E201303411	03/26/13	119.39	Steel / 6	Open Hole	37	27 - 37
MW-190B	IA-03	588093.8	728963.3	E201303413	03/26/13	120.76	Steel / 6	Open Hole	43	23 - 43
MW-191B	IA-03	588062.2	729031.8	E201303415	03/26/13	119.83	Steel / 6	Open Hole	47	27 - 47
MW-201	Off-Site	588019.4	730009.0	E201303451	03/21/13	122.79	PVC / 2	Screen	37	27 - 37
MW-204B	IA-07	587536.4	728567.0	E201309685	07/24/13	108.18	PVC / 2	Screen	39	29 - 39
MW-206B	IA-10	586092.4	729862.6	E201304512	04/15/13	120.59	PVC / 2	Screen	50	40 - 50
MW-207B	IA-10	586304.4	729020.2	E201304516	04/17/13	114.11	PVC / 2	Screen	48	38 - 48

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S2: 50 to 80 feet above mean sea level (continued)										
MW-208B	IA-10	586509.1	728672.0	E201304519	04/18/13	110.16	PVC / 2	Screen	45	35 - 45
MW-209B	Off-Site	586684.4	728175.0	E201306460	05/20/13	102.77	PVC / 2	Screen	40	30 - 40
MW-213C	Off-Site	585866.1	728866.5	E201311466	08/27/13	148.71	PVC / 2	Screen	80	60 - 80
MW-214B	Off-Site	586293.1	728487.5	E201312148	08/22/13	121.45	PVC / 2	Screen	50	40 - 50
MW-223B	IA-10	586194.3	730193.2	E201313822	09/26/13	116.08	PVC / 2	Screen	45	35 - 45
MW-224B	IA-12	587889.6	729880.0	E201306922	07/18/13	122.42	PVC / 2	Screen	40	27 - 40
MW-225B	IA-03	587772.8	729578.2	E201310884	08/05/13	122.15	PVC / 2	Screen	40	30 - 40
MW-226B	IA-02	587113.4	729552.0	E201312046	08/22/13	119.51	PVC / 2	Screen	45	35 - 45
MW-227B	IA-11	587425.3	728135.1	E201310697	09/04/13	109.27	PVC / 2	Screen	52	42 - 52
MW-228B	IA-03	587951.2	729223.5	E201312278	09/18/13	121.42	PVC / 2	Screen	45	35 - 45
MW-229B	IA-10	586090.3	730371.7	E201310971	08/14/13	126.75	PVC / 2	Screen	50	40 - 50
MW-230B	IA-10	586566.2	730470.7	E201310972	08/13/13	120.25	PVC / 2	Screen	50	40 - 50
MW-231B	IA-12	587541.2	730073.1	E201310941	08/09/13	119.95	PVC / 2	Screen	45	35 - 45
MW-234B	IA-12	587922.7	729806.9	E201306924	07/26/13	123.37	PVC / 2	Screen	50	40 - 50
MW-236B	Off-Site	586507.2	727770.2	E201312196	09/10/13	109.61	PVC / 2	Screen	40	30 - 40
MW-238B	IA-07	587199.9	728582.6	E201315054	10/11/13	109.27	PVC / 2	Screen	50	40 - 50
MW-250B	IA-12	587766.5	729844.5	E201316180	09/20/13	121.63	PVC / 2	Screen	50	40 - 50
MW-251B	IA-09	586923.8	729371.0	E201313819	09/25/13	116.16	PVC / 2	Screen	50	40 - 50
MW-252B	IA-09	587190.2	729221.2	E201316263	09/27/13	114.75	PVC / 2	Screen	50	40 - 50
MW-253B	IA-07	587463.7	728966.5	E201316269	09/30/13	113.04	PVC / 2	Screen	50	40 - 50
MW-257B	Off-Site	587166.7	727291.4	E201316279	10/02/13	101.19	PVC / 2	Screen	50	40 - 50
MW-258B	Off-Site	587280.1	726060.1	E201315392	10/29/13	132.71	PVC / 2	Screen	84	59 - 84
PW-37 Port 1	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	69.7	58.7 - 69.7
PW-37 Port 2	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	88.7	78.7 - 88.7
Abandoned (Former) Zone S2: 50 to 80 feet above mean sea level										
MW-22 (abandoned)	IA-06	N/A	N/A	2600036930	05/24/94	N/A	Steel / 6	Open Hole	42	21 - 42
MW-26 (abandoned)	IA-11	N/A	N/A	2600036934	05/25/94	N/A	Steel / 6	Open Hole	55	24 - 55
MW-40 (abandoned)	IA-03	N/A	N/A	2600053363	04/16/99	N/A	PVC / 2	Screen	30	20 - 30
Zone S3: Mean sea level to 50 feet above mean sea level										
CH-17 Port 1	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	89.5	78.5 - 89.5
DW-2B	IA-12	588619.2	729154.4	E201217456	12/06/12	157.15	Steel / 2	Screen	136	126 - 136
DW-3B	IA-07	587943.9	728010.4	E201218158	12/26/12	144.58	Steel / 2	Screen	122	112 - 122
DW-9A	IA-03	587693.6	729195.9	E201217454	05/07/13	121.57	Steel / 2	Screen	95	85 - 95
DW-13A	IA-10	586543.1	728799.0	E201219022	01/10/13	108.25	Steel / 2	Screen	90	80 - 90
MW-8C	IA-11	587616.1	728129.0	E201304822	04/17/13	120.30	PVC / 2	Screen	80	60 - 80
MW-25C	IA-11	587134.8	728393.9	E201307248	06/04/13	103.70	PVC / 2	Screen	80	60 - 80
MW-44C	IA-10	586139.7	729460.3	E201302491	04/09/13	126.98	PVC / 2	Screen	80	60 - 80
MW-48B	IA-14	588197.8	726748.8	E201304958	04/30/13	68.52	PVC / 2	Screen	45	35 - 45
MW-54	IA-06	586751.3	729001.9	2600079972	09/21/06	112.92	Steel / 6	Open Hole	70	50 - 70

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S3: Mean sea level to 50 feet above mean sea level (continued)										
MW-56	IA-06	586746.1	728986.8	2600079973	09/26/06	112.69	Steel / 6	Open Hole	70	50 - 70
MW-77	IA-06	586747.8	728896.5	2600079974	08/29/06	111.56	Steel / 6	Open Hole	70	50 - 70
MW-79	IA-06	586799.2	728869.9	2600079975	08/16/06	110.56	Steel / 6	Open Hole	71	50 - 71
MW-83	IA-06	586842.8	728839.9	2600079976	08/25/06	109.23	Steel / 6	Open Hole	70	50 - 70
MW-85	IA-06	586853.0	728813.0	2600079977	10/03/06	107.88	Steel / 6	Open Hole	70	50 - 70
MW-86	IA-06	586799.6	728807.4	2600079978	09/28/06	109.56	Steel / 6	Open Hole	70	50 - 70
MW-88	IA-06	586800.1	728841.4	2600081123	08/17/06	109.91	Steel / 6	Open Hole	70	50 - 70
MW-104C	Off-Site	587017.6	728125.7	E201306606	06/03/13	97.58	PVC / 2	Screen	80	60 - 80
MW-113	IA-12	587891.7	729693.2	P200910159	07/28/09	122.72	Steel / 6	Open Hole	80	60 - 80
MW-116	IA-03	587951.6	728915.1	P200910162	10/30/09	118.51	Steel / 6	Open Hole	80	60 - 80
MW-117	IA-09	587296.7	728892.7	E201311393	10/13/09	109.42	PVC / 4	Screen	80	60 - 80
MW-119	IA-11	587224.1	728167.1	P200910155	10/07/09	101.75	Steel / 6	Open Hole	80	60 - 80
MW-121	IA-13	587690.2	727612.9	P200910158	09/17/09	113.02	Steel / 6	Open Hole	80	60 - 80
MW-124C	IA-15	587683.3	726953.2	E201304824	04/15/13	90.91	PVC / 2	Screen	80	60 - 80
MW-128C	IA-07	587756.9	728782.4	E201306927	07/23/13	117.90	PVC / 2	Screen	60	50 - 60
MW-140	IA-14	587727.9	727152.1	E201115793	11/08/11	91.25	Steel / 6	Open Hole	80	60 - 80
MW-146C	Off-Site	587466.7	726766.1	E201306326	07/17/13	103.66	PVC / 2	Screen	80	60 - 80
MW-148B	IA-14	587907.2	726940.4	E201207239	05/21/12	86.89	Steel / 6	Open Hole	47.8	36.8 - 47.8
MW-149	IA-14	588285.0	726910.5	E201301433	02/15/13	74.14	PVC / 2	Screen	80	60 - 80
MW-171C	Off-Site	587213.7	727441.6	E201307673	08/21/13	103.44	PVC / 2	Screen	80	60 - 80
MW-172C	IA-11	587723.8	727935.0	E201308284	07/12/13	138.01	PVC / 2	Screen	80	60 - 80
MW-186B	IA-02	587072.5	729353.1	E201304325	05/07/13	117.09	Steel / 10 & 6	Screen	80	70 - 80
MW-204C	IA-07	587527.3	728571.9	E201304823	07/23/13	108.11	PVC / 2	Screen	70	50 - 70
MW-206C	IA-10	586105.2	729854.0	E201302486	04/10/13	120.23	PVC / 2	Screen	80	60 - 80
MW-207C	IA-10	586294.2	729009.1	E201302495	04/09/13	114.16	PVC / 2	Screen	80	60 - 80
MW-208C	IA-10	586495.9	728660.1	E201302497	04/09/13	110.92	PVC / 2	Screen	80	60 - 80
MW-209C	Off-Site	586731.5	728172.9	E201306461	05/16/13	102.77	PVC / 2	Screen	80	60 - 80
MW-211C	IA-12	587839.2	729795.9	E201308508	06/14/13	123.01	PVC / 2	Screen	85	70 - 85
MW-212C	IA-07	587487.3	729067.6	E201308786	05/31/13	114.60	PVC / 2	Screen	80	60 - 80
MW-214C	Off-Site	586284.7	728469.5	E201311480	09/04/13	121.87	PVC / 2	Screen	80	60 - 80
MW-215C	Off-Site	586748.1	727501.6	E201311204	08/15/13	103.44	PVC / 2	Screen	80	60 - 80
MW-216C	Off-Site	587128.2	727023.6	E201311207	08/13/13	107.80	PVC / 2	Screen	80	60 - 80
MW-221C	IA-14	587523.7	727537.2	E201308424	06/13/13	100.17	PVC / 2	Screen	80	60 - 80
MW-222	Off-Site	588022.0	726107.5	E201313503	09/20/13	81.99	PVC / 2	Screen	80	70 - 80
MW-223C	IA-10	587886.4	729794.2	E201308432	06/12/13	123.37	PVC / 2	Screen	80	60 - 80
MW-225C	IA-03	587781.0	729594.9	E201308280	07/30/13	121.39	PVC / 2	Screen	80	60 - 80
MW-226C	IA-02	587122.0	729545.4	E201310696	08/06/13	119.35	PVC / 2	Screen	80	60 - 80
MW-227C	IA-11	587439.3	728123.3	E201316258	10/09/13	109.77	PVC / 2	Screen	80	70 - 80
MW-228C	IA-03	587962.5	729216.7	E201310702	08/06/13	121.37	PVC / 2	Screen	80	60 - 80

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Zone S3: Mean sea level to 50 feet above mean sea level (continued)										
MW-229C	IA-10	586103.2	730363.3	E201316183	08/06/13	126.40	PVC / 2	Screen	80	60 - 80
MW-230C	IA-10	586549.3	730479.7	E201315813	08/09/13	120.07	PVC / 2	Screen	80	60 - 80
MW-231C	IA-12	587552.4	730069.3	E201316280	09/04/13	120.58	PVC / 2	Screen	70	60 - 70
MW-232C	IA-12	588241.6	729650.4	E201315818	08/09/13	133.19	PVC / 2	Screen	80	70 - 80
MW-233C	IA-12	587886.4	729794.2	E201306924	07/26/13	123.37	PVC / 2	Screen	70	50 - 70
MW-236C	Off-Site	586501.7	727773.7	E201312197	09/17/13	110.07	PVC / 2	Screen	57	47 - 57
MW-238C	IA-07	587190.8	728587.6	E201312547	09/12/13	108.61	PVC / 2	Screen	80	70 - 80
MW-251C	IA-06	586918.9	729363.3	E201316077	09/20/13	116.04	PVC / 2	Screen	80	70 - 80
MW-252C	IA-09	587183.1	729225.1	E201316071	09/20/13	114.88	PVC / 2	Screen	80	60 - 80
MW-253C	IA-07	587456.6	728954.7	E201316270	09/25/13	112.95	PVC / 2	Screen	80	60 - 80
MW-258C	Off-Site	587287.2	726067.9	E201314458	10/29/13	132.76	PVC / 2	Screen	130	105 - 130
PW-37 Port 3	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	100.7	90.7 - 100.7
PW-37 Port 4	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	124.7	113.7 - 124.7
Deep Bedrock Ground Water Zone D1: Mean sea level to 100 feet below mean sea level										
CH-17 Port 2	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	107.5	96.5 - 107.5
CH-17 Port 3	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	122.5	111.5 - 122.5
DW-1C	Off-Site	588862.5	727774.4	E201300237	04/25/13	107.08	Steel / 2	Screen	160	150 - 160
DW-3C	IA-07	587931.1	727996.8	E201302209	02/05/13	144.72	Steel / 2	Screen	226	216 - 226
DW-4C	Off-Site	587427.1	726800.5	E201306325	07/19/13	104.14	Steel / 2	Screen	142	117 - 142
DW-5B	IA-12	588270.6	729433.4	E201217457	03/06/13	138.14	Steel / 2	Screen	146	136 - 146
DW-6B	IA-07	587806.0	728578.8	E201218159	01/25/13	118.41	Steel / 2	Screen	115	105 - 115
DW-7B	Off-Site	588047.7	729990.1	E201305678	06/06/13	123.23	Steel / 2	Screen	180	165 - 180
DW-8A	IA-12	587898.5	729677.7	E201217453	03/23/13	122.51	Steel / 2	Screen	126	116 - 126
DW-8B	IA-12	587883.7	729655.5	E201217458	03/29/13	122.19	Steel / 2	Screen	192	182 - 192
DW-9B	IA-03	587679.3	729192.9	E201217459	05/15/13	121.58	Steel / 2	Screen	142	132 - 142
DW-10B	IA-11	587173.6	728451.2	E201218106	01/14/13	104.62	Steel / 2	Screen	127	117 - 127
DW-11B	Off-Site	586764.0	727529.8	E201300242	04/26/13	103.08	Steel / 2	Screen	100	90 - 100
DW-12A	IA-01	587042.1	729676.0	E201300227	02/08/13	120.96	Steel / 2	Screen	134	124 - 134
DW-12B	IA-01	587010.2	729663.6	E201300228	02/07/13	120.73	Steel / 2	Screen	191	181 - 191
DW-13B	IA-10	586509.9	728796.1	E201219023	01/10/13	109.01	Steel / 2	Screen	180	170 - 180
DW-14A	IA-10	586485.1	729754.5	E201300229	04/05/13	116.34	Steel / 2	Screen	180	170 - 180
DW-15A	IA-10	586501.6	730443.8	E201300233	02/05/13	121.61	Steel / 2	Screen	183	173 - 183
DW-16A	IA-10	585961.9	729998.8	E201300231	03/28/13	124.16	Steel / 2	Screen	220	210 - 220
DW-17C	IA-14	588315.2	726940.4	E201301431	04/26/13	75.26	Steel / 2	Screen	120	110 - 120
DW-18C	Off-Site	589867.8	728458.9	E201308557	08/22/13	132.01	Steel / 2	Screen	166	151 - 166
DW-24	Off-Site	587288.7	726074.0	E201314457	11/07/13	132.56	PVC / 2	Screen	175	150 - 175
MW-48C	IA-14	588180.9	726738.2	E201304959	04/29/13	68.15	PVC / 2	Screen	80	60 - 80
PW-37 Port 5	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	147.7	136.7 - 147.7
PW-37 Port 6	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	205.7	195.7 - 205.7
PW-37 Port 7	IA007	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	218.7	208.7 - 218.7

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)	
		East (X)	North (Y)								
Deep Bedrock Ground Water Zone D2: 100 feet below mean sea level to 250 feet below mean sea level											
CH-17 Port 4	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	235.5	224.5 - 235.5	
CH-17 Port 5	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	253.5	243.5 - 253.5	
CH-17 Port 6	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	266.5	256.5 - 266.5	
CH-17 Port 7	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	290.5	279.5 - 290.5	
CH-17 Port 8	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	305.5	294.5 - 305.5	
CH-17 Port 9	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	319.5	308.5 - 319.5	
DW-5C	IA-12	588261.4	729418.2	E201217460	01/15/13	138.14	Steel / 2	Screen	315	305 - 315	
DW-6C	IA-07	587788.9	728575.6	E201218160	02/18/13	118.25	Steel / 2	Screen	291	281 - 291	
DW-7C	Off-Site	588054.2	729993.3	E201305675	06/06/13	123.33	Steel / 2	Screen	345	335 - 345	
DW-8C	IA-12	587904.2	729649.7	E201217463	03/27/13	122.68	Steel / 2	Screen	307	297 - 307	
DW-10C	IA-11	587159.8	728460.1	E201218107	01/15/13	104.76	Steel / 2	Screen	291	281 - 291	
DW-14B	IA-10	586501.0	729725.7	E201300230	02/26/13	115.70	Steel / 2	Screen	237	227 - 237	
DW-15B	IA-10	586536.7	730450.1	E201300234	02/19/13	121.17	Steel / 2	Screen	305	295 - 305	
DW-16B	IA-10	585937.3	730015.7	E201300232	04/02/13	125.02	Steel / 2	Screen	302	292 - 302	
DW-17D	IA-14	588299.9	726925.6	E201301432	03/29/13	74.61	Steel / 2	Screen	300	285 - 300	
PW-37 Port 8	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	256.7	245.7 - 256.7	
PW-37 Port 9	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	297.7	277.7 - 297.7	
PW-37 Port 10	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	342.7	327.7 - 342.7	
PW-37 Port 11	IA-07	588316.2	728676.4	2600077911	06/06/08	148.24	Steel / 10	Liner Port	367.7	347.7 - 367.7	
Deep Bedrock Ground Water Zone D3: 250 feet below mean sea level to 400 feet below mean sea level											
CH-17 Port 10	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	356.5	345.5 - 356.5	
CH-17 Port 11	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	399.5	388.5 - 399.5	
CH-17 Port 12	IA-11	587207.6	728161.3	E201119968	12/15/11	101.74	Steel / 6	Liner Port	427.5	422.5 - 427.5	
DW-1D	Off-Site	588845.5	727751.9	E201300238	05/01/13	106.33	Steel / 2	Screen	450	430 - 450	
DW-2D	IA-12	588636.3	729143.6	E201301091	04/06/13	158.23	Steel / 4	Screen	450	425 - 450	
DW-4D	Off-Site	587414.1	726814.3	E201306324	06/28/13	104.09	Steel / 4	Screen	450	425 - 450	
DW-6D	IA-07	587796.5	728561.5	E201301046	03/07/13	118.40	Steel / 4	Screen	498	473 - 498	
DW-7D	Off-Site	588041.5	730001.1	E201305674	05/24/13	122.83	Steel / 4	Screen	450	425 - 450	
DW-8D	IA-12	587880.7	729676.2	E201301089	04/04/13	122.42	Steel / 4	Screen	449	434 - 449	
DW-9D	IA-03	587697.7	729181.6	E201217461	05/13/13	121.52	Steel / 4	Screen	450	425 - 450	
DW-11D	Off-Site	586755.0	727514.7	E201300243	05/02/13	103.34	Steel / 2	Screen	450	425 - 450	
DW-12C	IA-01	587027.5	729652.5	E201301051	04/02/13	120.41	Steel / 4	Screen	404	394 - 404	
DW-13D	IA-10	586530.2	728779.7	E201301053	04/03/13	108.61	Steel / 4	Screen	423	398 - 423	
DW-14C	IA-10	586504.9	729748.3	E201301074	04/05/13	115.92	Steel / 4	Screen	384	369 - 384	
DW-15C	IA-10	586515.6	730464.2	E201301077	03/29/13	120.82	Steel / 4	Screen	458	448 - 458	
DW-16C	IA-10	585932.2	729997.3	E201301078	04/02/13	125.68	Steel / 4	Screen	448	423 - 448	
DW-18D	Off-Site	589860.8	728448.3	E201308559	08/27/13	131.61	Steel / 4	Screen	450	425 - 450	
DW-19D	IA-13	587671.0	727619.6	E201310393	08/14/13	112.36	Steel / 4	Screen	500	480 - 500	
DW-21D	IA-04	587485.0	729461.9	E201316252	10/03/13	121.03	Steel / 4	Screen	451	426 - 451	
MW-22C	Off-Site	588002.6	726102.6	E201311482	09/20/13	83.50	PVC / 2	Screen	257	247 - 257	

**Table 3-1
Monitoring Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
Deep Bedrock Ground Water Zone D4: Below 400 feet below mean sea level (continued)										
DW-20D	IA-09	587325.2	729133.1	E201316242	10/2/2013	114.06	Steel / 4	Screen	563	538 - 563
DW-22D	IA-04	587448.9	729610.8	E201316254	10/11/13	119.87	Steel / 4	Screen	672	647 - 672
DW-23D	IA-03	588358.0	728812.4	E201316255	10/21/13	155.72	Steel / 4	Screen	730	705 - 730

Notes:

ft bgs = feet below ground surface.

ft msl - feet above mean sea level

NAD 83 = North American Datum of 1983

NAVD 88 = North American Vertical Datum of 1988

N/A = not available or not applicable

*PW-37 installed prior to 1965. Flute installation completed 5/18/06.

**CH-17 installed on 09/28/09. Flute installation completed 12/14/11.

Well abandoned.

NA - Information not available

**Table 3-2
Remediation Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
IA-02 ART Pilot Test Wells										
ART-1	IA-02	587083.1	729371.4	E201310112	07/31/13	117.34	PVC / 6	Screen	17	4 - 17
ART-2	IA-02	587117.7	729332.7	E201310113	08/02/13	118.38	PVC / 6	Screen	18.5	4 - 18.5
ART-3	IA-02	587102.5	729383.2	E201310114	08/06/13	117.93	PVC / 6	Screen	48	5 - 15, 25 - 48
IA-02 ART Pilot Test Monitoring Points										
ART-VP-1	IA-02	587085.7	729375.1	E201309591	07/18/13	N/A	PVC / 1	Screen	14	4 - 14
ART-VP-2	IA-02	587090.9	729383.6	E201309594	07/19/13	N/A	PVC / 1	Screen	15.5	4 - 15.5
ART-VP-3	IA-02	587077.7	729362.3	E201309599	07/22/13	N/A	PVC / 1	Screen	14	4 - 14
ART-VP-4	IA-02	587067.3	729345.7	E201309600	07/23/13	N/A	PVC / 1	Screen	14	4 - 14
ART-VP-5	IA-02	587096.1	729392.8	E201309686	07/19/13	N/A	PVC / 1	Screen	15.5	4 - 15.5
ART-VP-6	IA-02	587091.5	729346.9	E201309688	07/29/13	120.07	PVC / 1	Screen	14	4 - 14
ART-VP-7	IA-02	587064.5	729341.3	E201309689	07/23/13	N/A	PVC / 1	Screen	14	4 - 14
ART-VP-8	IA-02	587125.4	729327.8	E201309690	07/30/13	117.81	PVC / 1	Screen	20	4 - 20
ART-VP-9	IA-02	587128.1	729349.4	E201309747	07/24/13	N/A	PVC / 1	Screen	17.5	4 - 17.5
ART-VP-10	IA-02	587118.1	729371.5	E201309755	07/24/13	N/A	PVC / 1	Screen	15.5	4 - 15.5
ART-VP-11	IA-02	587107.1	729379.4	E201309756	07/25/13	N/A	PVC / 1	Screen	15.5	4 - 15.5
ART-VP-12	IA-02	587116.2	587096.1	E201309757	07/23/13	N/A	PVC / 1	Screen	14	4 - 14
IA-03 Remediation Wells										
SP-1 (abandoned)	IA-03	N/A	N/A	2600053647	04/16/99	N/A	PVC / 2	Screen	14	12 - 14
SVE-1	IA-03	588044.4	729030.6	2600053648	04/16/99	118.81	PVC / 6	Screen	23	3 - 23
SVE-2	IA-03	588004.2	728967.5	2600053928	05/11/99	118.70	PVC / 6	Screen	20	2 - 20
SVE-3	IA-03	588082.0	729088.1	2600053929	05/13/99	118.91	PVC / 6	Screen	21	3 - 21
SVE-4 (abandoned)	IA-03	N/A	N/A	2600053930	05/14/99	N/A	PVC / 2	Screen	14	4 - 14
SVE-5 (abandoned)	IA-03	N/A	N/A	2600053931	05/14/99	N/A	PVC / 2	Screen	14	4 - 14
IA-06 Remediation Pumping Wells										
RW-51	IA-06	586752.6	729011.2	2600064190	04/17/02	111.79	Steel / 6	Open Hole	70	50 - 70
RW-96	IA-06	586808.1	728905.6	2600081121	01/24/07	107.65	PVC / 6	Screen	15.5	5.5 - 15.5
IA-06 Western Soil Vapor Extraction Wells										
SVE-WSG-1	IA-06	586704.7	729293.0	Not Available	11/19/07	113.15	PVC / 4	Screen	5.3	3.3 - 5.3
SVE-WSG-2	IA-06	586694.0	729275.8	Not Available	11/19/07	112.87	PVC / 4	Screen	6	4 - 6
SVE-WSG-3	IA-06	586683.1	729258.7	Not Available	11/19/07	112.65	PVC / 4	Screen	5.8	3.8 - 5.8
SVE-WSG-4	IA-06	586696.2	729251.3	Not Available	11/20/07	112.75	PVC / 4	Screen	6.3	4.3 - 6.3
SVE-WSG-5	IA-06	586709.0	729243.2	Not Available	11/20/07	112.72	PVC / 4	Screen	5.5	3.5 - 5.5
SVE-WSG-6	IA-06	586674.0	729314.6	2600086703	03/12/08	112.89	PVC / 4	Screen	7.3	5.3 - 7.3
SVE-WSG-7	IA-06	586701.5	729322.7	2600086704	03/12/08	113.33	PVC / 4	Screen	5.3	3.3 - 5.3
SVE-WSG-8	IA-06	586724.8	729232.5	2600086705	03/12/08	112.90	PVC / 4	Screen	6.3	4.3 - 6.3
SVE-WSG-9	IA-06	586678.1	729286.2	2600086706	03/12/08	112.80	PVC / 4	Screen	6.5	4.5 - 6.5

**Table 3-2
Remediation Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
IA-06 Western Monitoring Points										
MP-WSG-1	IA-06	586688.0	729267.2	Not Available	12/06/07	114.16	PVC / 0.75	Screen	6.5	4.5 - 6.5
MP-WSG-2	IA-06	586674.8	729263.7	Not Available	12/06/07	114.28	PVC / 0.75	Screen	6	4 - 6
MP-WSG-3	IA-06	586689.3	729254.9	Not Available	12/06/07	113.49	PVC / 0.75	Screen	6.75	4.75 - 6.75
MP-WSG-4	IA-06	586716.1	729347.9	2600086708	03/11/08	115.18	PVC / 1	Screen	5.25	3.25 - 5.25
MP-WSG-5	IA-06	586726.0	729311.0	2600086709	03/11/08	114.32	PVC / 1	Screen	6.75	4.75 - 6.75
MP-WSG-6	IA-06	586720.4	729276.2	2600086710	03/11/08	114.35	PVC / 1	Screen	4.25	2.25 - 4.25
MP-WSG-7	IA-06	586735.8	729233.2	2600086711	03/11/08	113.94	PVC / 1	Screen	6.5	4.5 - 6.5
MP-WSG-8	IA-06	586708.8	729206.0	2600086712	03/11/08	113.61	PVC / 1	Screen	7	5 - 7
MP-WSG-9	IA-06	586683.9	729224.4	2600086713	03/11/08	113.33	PVC / 1	Screen	7	5 - 7
MP-WSG-10	IA-06	586663.6	729240.6	2600086714	03/11/08	112.88	PVC / 1	Screen	7	5 - 7
MP-WSG-11	IA-06	586655.4	729290.9	2600086715	03/11/08	113.03	PVC / 1	Screen	6.75	4.75 - 6.75
MP-WSG-12	IA-06	586681.0	729337.5	2600086716	03/11/08	114.07	PVC / 1	Screen	6.75	4.75 - 6.75
IA-06 Central Soil Vapor Extraction Wells										
CGSVE-1	IA-06	586855.1	729281.8	E201314605	10/14/13	114.92	PVC / 4	Screen	11	2.5 - 11
IA-06 Central Monitoring Points										
CGVP-1	IA-06	586865.8	729298.6	E201315037	10/17/13	114.63	PVC / 1	Screen	9	2.5 - 9
CGVP-2	IA-06	586860.2	729289.9	E201315038	10/17/13	114.84	PVC / 1	Screen	9	2.5 - 9
CGVP-3	IA-06	586850.9	729284.2	E201315039	10/17/13	114.94	PVC / 1	Screen	9	2.5 - 9
CGVP-4	IA-06	586829.4	729297.4	E201315040	10/17/13	114.53	PVC / 1	Screen	9	2.5 - 9
CGVP-5	IA-06	586867.8	729273.6	E201315041	10/17/13	114.93	PVC / 1	Screen	9	2.5 - 9
CGVP-6	IA-06	586850.9	729275.3	E201315042	10/18/13	114.96	PVC / 1	Screen	9	2.5 - 9
CGVP-7	IA-06	586833.7	729247.8	E201315043	10/18/13	115.03	PVC / 1	Screen	9	2.5 - 9
CGVP-8	IA-06	586834.3	729230.4	E201315044	10/18/13	114.93	PVC / 1	Screen	9	2.5 - 9
CGVP-9	IA-06	586835.4	729217.9	E201315045	10/18/13	114.89	PVC / 1	Screen	9	2.5 - 9
CGVP-10	IA-06	586832.8	729213.7	E201315046	10/18/13	114.90	PVC / 1	Screen	9	2.5 - 9
CGVP-11	IA-06	586798.0	729228.8	E201315047	10/18/13	114.40	PVC / 1	Screen	9	2.5 - 9
CGVP-12	IA-06	586810.7	729221.0	E201315048	10/18/13	114.76	PVC / 1	Screen	9	2.5 - 9
CGVP-13	IA-06	586840.3	729202.1	E201315049	10/18/13	114.32	PVC / 1	Screen	9	2.5 - 9
CGVP-14	IA-06	586820.1	729207.7	E201315050	10/18/13	114.89	PVC / 1	Screen	9	2.5 - 9
CGVP-15	IA-06	586817.6	729203.7	E201315051	10/18/13	114.74	PVC / 1	Screen	9	2.5 - 9
CGVP-16	IA-06	586808.3	729197.8	E201315052	10/18/13	114.79	PVC / 1	Screen	9	2.5 - 9
IA-06 Eastern Soil Vapor Extraction Wells										
EGSVE-1	IA-06	586980.3	729170.1	E201305505	04/23/13	117.05	PVC / 4	Screen	11	2.5 - 11
EGSVE-2	IA-06	586998.8	729171.0	E201306268	05/07/13	114.29	PVC / 4	Screen	11	2.5 - 11
EGSVE-3	IA-06	586952.5	729197.1	E201306270	05/07/13	114.32	PVC / 4	Screen	11	2.5 - 11
EGSVE-4	IA-06	587001.5	729175.5	E201307288	05/29/13	114.20	PVC / 4	Screen	11	2.5 - 11

**Table 3-2
Remediation Well Construction Details
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
IA-06 Eastern Monitoring Points										
EGVP-1	IA-06	587001.6	729203.6	E201305511	04/24/13	114.87	PVC / 1	Screen	9	2.5 - 9
EGVP-2	IA-06	586986.0	729179.1	E201305514	04/23/13	114.36	PVC / 1	Screen	9	2.5 - 9
EGVP-3	IA-06	586976.5	729173.2	E201305515	04/23/13	114.34	PVC / 1	Screen	9	2.5 - 9
EGVP-4	IA-06	586954.4	729187.1	E201305516	04/23/13	114.06	PVC / 1	Screen	9	2.5 - 9
EGVP-5	IA-06	586993.6	729162.5	E201305517	04/23/13	114.20	PVC / 1	Screen	9	2.5 - 9
EGVP-6	IA-06	586976.4	729163.7	E201305521	04/23/13	114.20	PVC / 1	Screen	9	2.5 - 9
EGVP-7	IA-06	586970.2	729153.8	E201305522	04/23/13	113.99	PVC / 1	Screen	9	2.5 - 9
EGVP-8	IA-06	586945.2	729190.2	E201305524	04/23/13	114.45	PVC / 1	Screen	9	2.5 - 9
EGVP-9	IA-06	586937.7	729177.8	E201305539	04/23/13	114.17	PVC / 1	Screen	9	2.5 - 9
EGVP-10	IA-06	586929.5	729168.9	E201305541	04/23/13	113.95	PVC / 1	Screen	9	2.5 - 9
EGVP-11	IA-06	586925.1	729171.4	E201305542	04/25/13	114.16	PVC / 1	Screen	9	2.5 - 9
EGVP-12	IA-06	586916.2	729166.2	E201305543	04/25/13	114.05	PVC / 1	Screen	9	2.5 - 9
EGVP-13	IA-06	586924.4	729160.5	E201305547	04/25/13	114.00	PVC / 1	Screen	9	2.5 - 9
EGVP-14	IA-06	586911.9	729168.7	E201305548	04/25/13	114.07	PVC / 1	Screen	9	2.5 - 9
EGVP-15	IA-06	586919.5	729152.9	E201305549	04/25/13	113.72	PVC / 1	Screen	9	2.5 - 9
EGVP-16	IA-06	586929.7	729140.6	E201305550	04/24/13	114.04	PVC / 1	Screen	9	2.5 - 9
EGVP-17	IA-06	586915.3	729137.1	E201305551	04/25/13	113.42	PVC / 1	Screen	9	2.5 - 9
EGVP-18	IA-06	586938.3	729256.4	E201309758	07/16/13	115.31	PVC / 1	Screen	9	2.5 - 9
EGVP-19	IA-06	586983.9	729232.5	E201309776	07/16/13	115.15	PVC / 1	Screen	9	2.5 - 9
EGVP-20	IA-06	587046.6	729191.1	E201309777	07/17/13	114.41	PVC / 1	Screen	9	2.5 - 9
EGVP-21	IA-06	586919.5	729226.3	E201309779	08/02/13	114.88	PVC / 1	Screen	9	2.5 - 9
EGVP-22	IA-06	587024.8	729153.9	E201309795	07/17/13	114.51	PVC / 1	Screen	9	2.5 - 9
EGVP-23	IA-06	586897.5	729191.3	E201309798	07/18/13	114.29	PVC / 1	Screen	9	2.5 - 9
EGVP-24	IA-06	586996.7	729129.3	E201309799	07/15/13	113.66	PVC / 1	Screen	9	2.5 - 9
EGVP-25	IA-06	586893.7	729136.2	E201309800	07/17/13	113.47	PVC / 1	Screen	9	2.5 - 9
EGVP-26	IA-06	586944.9	729098.5	E201309803	07/18/13	113.20	PVC / 1	Screen	9	2.5 - 9
EGVP-27	IA-06	586855.7	729124.1	E201310078	07/16/13	113.52	PVC / 1	Screen	9	2.5 - 9
EGVP-28	IA-06	586954.8	729051.8	E201310079	07/16/13	112.39	PVC / 1	Screen	9	2.5 - 9
EGVP-29	IA-06	586878.9	729153.3	E201310080	07/17/13	113.81	PVC / 1	Screen	9	2.5 - 9
EGVP-30	IA-06	586910.9	729093.2	E201310081	07/15/13	112.12	PVC / 1	Screen	9	2.5 - 9
EGVP-31	IA-06	586980.8	729131.9	E201310082	07/15/13	113.68	PVC / 1	Screen	9	2.5 - 9

Notes:
ft bgs = feet below ground surface.
ft msl - feet above mean sea level
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988
N/A = not available or not applicable

**Table 3-3
Monitoring Well Construction Details -
Off-Site Wells Associated with Other Remedial Investigations
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

413 Kingsland Street Monitoring Wells (NJDEP PI No. 581987)

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
MW-1G	Off-Site	586784.4	728414.6	E201216675	11/06/12	102.76	PVC / 2	Screen	14	4 - 14
MW-2G	Off-Site	586720.0	728355.2	E201216676	11/05/12	101.66	PVC / 2	Screen	14	4 - 14
MW-3G	Off-Site	586777.8	728354.2	E201216677	11/05/12	102.06	PVC / 2	Screen	14	4 - 14
MW-4G	Off-Site	586850.9	728336.1	E201216678	11/06/12	101.40	PVC / 2	Screen	14	4 - 14
MW-5G	Off-Site	586837.6	728282.5	E201216679	11/06/12	100.46	PVC / 2	Screen	14	4 - 14

Former Deluxe Check Facility Monitoring Wells (NJDEP PI No. 021924)

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
MW-2W	Off-Site	585799.6	730304.8	2600019068	02/05/90	145.91	PVC / 4	Screen	28	15.5 - 28
MW-3W	Off-Site	585808.4	730120.8	2600019069	02/06/90	147.23	PVC / 4	Screen	31	16 - 31
MW-4W	Off-Site	585790.2	730093.2	2600019070	02/13/90	148.11	PVC / 4	Screen	30	16 - 30
MW-5AW	Off-Site	585777.5	730084.5	2600020502	06/25/90	147.97	PVC / 4	Screen	65	50 - 65
MW-6W	Off-Site	585754.3	730085.8	2600019072	02/07/90	150.44	NA / 6	Open Hole	50	33.5 - 50
MW-7W	Off-Site	585889.3	730128.6	2600020504	06/26/90	142.68	PVC / 4	Screen	71.5	51.5 - 71.5
MW-8W	Off-Site	585893.0	730122.5	2600020499	06/15/90	142.87	PVC / 4	Screen	25	10 - 25
MW-9W	Off-Site	585868.4	730050.7	2600020503	06/25/90	145.45	NA / 6	Open Hole	70	51.3 - 70
MW-10W	Off-Site	585865.2	730053.2	2600020498	06/12/90	145.01	PVC / 4	Screen	33.5	18.5 - 33.5
MW-11W	Off-Site	585789.1	730011.5	2600020500	06/27/90	135.84	PVC / 4	Screen	19	4 - 19
MW-12W	Off-Site	585601.0	730014.0	2600020505	06/28/90	147.85	NA / 6	Open Hole	62	40 - 62
MW-13W	Off-Site	585504.2	730030.9	2600020501	06/28/90	153.03	PVC / 4	Screen	25	10 - 25
MW-14W	Off-Site	585962.4	730231.8	2600024733	05/17/91	133.38	PVC / 4	Screen	18.5	8.5 - 18.5
MW-15W	IA-10	586007.1	730181.3	2600024734	05/20/91	125.39	PVC / 4	Screen	15	5 - 15
MW-16AW	IA-10	586024.0	730104.1	2600033839	06/24/93	124.36	Steel / 6	Open Hole	44	24 - 44
MW-17AW	IA-10	585909.6	730061.4	2600033838	06/21/93	126.10	PVC / 4	Screen	11	3 - 11
MW-18W	Off-Site	586007.7	730278.3	2600043010	01/17/96	133.57	PVC / 4	Screen	16	6 - 16
MW-19W	Off-Site	585900.6	730119.5	2600043011	01/30/96	142.91	PVC / 4	Screen	98	88 - 98
MW-20W Port 1	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	55	45 - 55
MW-20W Port 2	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	95	85 - 95
MW-20W Port 3	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	140	130 - 140
MW-20W Port 4	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	151	146 - 151
MW-20W Port 5	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	242	232 - 242
MW-20W Port 6	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	253	248 - 253
MW-20W Port 7	Off-Site	585778.2	730089.1	2600088390	N/A	147.90	N/A	Liner Port	272	265 - 272
MW-21W	Off-Site	585723.7	729878.9	E201111133	07/13/11	139.02	PVC / 2	Screen	15	5 - 15
MW-22W	IA-10	586158.1	730148.6	E201111131	07/20/11	117.15	PVC / 2	Screen	13	5 - 13
MW-23W	IA-10	586154.9	729888.6	E201111132	07/19/11	118.55	PVC / 2	Screen	8	3 - 8
MW-24W	Off-Site	586050.9	729805.4	E201111134	07/12/11	123.94	PVC / 2	Screen	13	3 - 13
MW-25W	Off-Site	585661.2	730124.4	E201111135	04/09/12	150.10	PVC / 2	Screen	20	10 - 20
MW-26W	Off-Site	585967.1	730306.5	E201212678	10/26/12	136.14	PVC / 2	Screen	272	247 - 272
MW-27W	Off-Site	585657.8	730127.3	E201212677	09/17/12	150.18	PVC / 2	Screen	323	298 - 323

**Table 3-3
Monitoring Well Construction Details -
Off-Site Wells Associated with Other Remedial Investigations
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Former Nova Electric Facility Monitoring Wells (NJDEP PI No. G000003468)

Well Designation	Investigation Area (IA)	NJ State Plane Coordinates (Survey ft, NAD83)		Permit Number	Date Installed	Measuring Pt. Elevation (ft msl) (NAVD88)	Casing Type/ Diameter (in)	Open Interval Type	Total Depth (ft bgs)	Open Interval Depth (ft bgs)
		East (X)	North (Y)							
MW-1N	Off-Site	587897.8	726501.1	2600020904	06/25/90	67.17	PVC / 4	Screen	6	1 - 6
MW-2N	Off-Site	587979.7	726530.6	2600022935	12/05/90	66.01	PVC / 4	Screen	12	2 - 12
MW-3N	Off-Site	587970.7	726584.0	2600022936	12/06/90	65.60	PVC / 4	Screen	11.5	1.5 - 11.5
MW-4N	Off-Site	587908.3	726505.0	2600022931	12/07/90	67.16	Steel / 6	Open Hole	25	15 - 25
MW-5N	Off-Site	587864.0	726468.8	2600022934	12/03/90	67.84	PVC / 4	Screen	12	2 - 12
MW-6RN	Off-Site	587808.1	726604.5	E201310284	07/29/13	67.07	PVC / 2	Screen	13	3 - 13
MW-7N	Off-Site	587956.7	726510.4	2600025700	07/10/91	66.42	PVC / 4	Screen	14.5	4.5 - 14.5
MW-8N	Off-Site	588019.5	726514.1	2600025701	07/23/91	66.15	PVC / 4	Screen	14.6	4.6 - 14.6
MW-9N	Off-Site	587860.1	726629.7	2600025702	07/10/91	66.34	PVC / 4	Screen	13	3 - 13
MW-9IN	Off-Site	587857.2	726636.5	2600066190	11/26/02	66.16	PVC / 4	Screen	27	17 - 27
MW-10N	Off-Site	587930.0	726437.5	2600028626	02/19/92	75.07	PVC / 4	Screen	31	21.25 - 31
MW-12N	Off-Site	588087.6	726542.9	2600028628	02/19/92	64.82	PVC / 4	Screen	9	1.5 - 9
MW-13N	Off-Site	587863.6	726474.4	2600030040	07/13/92	67.59	Steel / 6	Open Hole	50	41 - 50
MW-14N	Off-Site	587952.3	726508.7	2600030041	07/14/92	66.39	Steel / 6	Open Hole	60	39.5 - 60
MW-15N	Off-Site	587994.1	726447.0	2600030039	07/13/92	75.95	PVC / 4	Screen	31	21 - 31
MW-16N	Off-Site	587808.9	726265.3	2600034306	08/11/93	99.11	PVC / 4	Screen	58	38 - 58
MW-17N	Off-Site	588146.9	726556.1	2600062816	10/23/01	62.97	PVC / 4	Screen	8.5	3.5 - 8.5
MW-18N	Off-Site	588003.7	726619.1	2600062817	10/23/01	65.40	PVC / 4	Screen	13	3 - 13
MW-19N	Off-Site	588123.0	726703.4	2600078963	05/08/06	66.47	PVC / 4	Screen	12.5	1.5 - 12.5
MW-20N	Off-Site	587892.7	726731.6	2600088388	08/21/08	65.47	PVC / 2	Screen	13	3 - 13

Notes:

ft bgs = feet below ground surface.

ft msl - feet above mean sea level

NAD 83 = North American Datum of 1983

NAVD 88 = North American Vertical Datum of 1988

N/A = not available or not applicable

**Table 3-4
Surface Water Gauging Location Details
Site-Wide ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Surface Water Gauging Point Designation	Location Description	Investigation Area (IA)	Measuring Pt. Elevation (ft msl) (NAVD88)	Measuring Point Description
SB 150	Culverted Springer's Brook Near W. Property Boundary	IA-10	131.19	North Rim of Manhole
SB 510	Culverted Springer's Brook Mid-Point	IA-10	120.38	North Rim of Manhole
SB 1250	Culverted Springer's Brook at St. Paul's Brook Confluence	IA-10	116.81	Rim of Manhole*
SPB 050	Culverted St. Paul's Brook Near N. Property Boundary	IA-10	119.81	North Rim of Manhole
SPB 350	Culverted St. Paul's Brook NE Corner Lot 905	IA-10	119.47	North Rim of Manhole
SPB 750	Culverted St. Paul's Brook Near Paisley Gate	IA-10	118.13	North Rim of Manhole
SPB 870	Culverted St. Paul's Brook East of B. 103	IA-10	116.77	North Rim of Manhole
SPB 1025	Culverted St. Paul's Brook N. End of Lot 100	IA-10	115.79	North Rim of Manhole
SPB 1070	Culverted St. Paul's Brook in N. Portion of Lot 100	IA-10	116.47	North Rim of Manhole
SPB 1250	Culverted St. Paul's Brook at Springer's Brook Confluence	IA-10	116.81	Rim of Manhole*
SPB 1875	St. Paul's Brook IA-10 Open Channel N. End	IA-10	108.21	V-Notch on Headwall
SPB 2260	St. Paul's Brook IA-10 Open Channel S. End	IA-10	104.24	V-Notch on Headwall
SPB 2650	St. Paul's Brook Nichols Park Open Channel N. End	Off-Site	104.21	V-Notch on Bridge
SPB 3030	St. Paul's Brook Nichols Park Open Channel Above Spillway	Off-Site	94.35	Nail in Bridge
SPB 3350	St. Paul's Brook Nichols Park Open Channel Above Spillway	Off-Site	94.24	Staff Gauge
SPB 3650	St. Paul's Brook Nichols Park Open Channel Above Spillway	Off-Site	94.24	Staff Gauge
SPB 3800	St. Paul's Brook Nichols Park Open Channel At Spillway Top	Off-Site	95.93	Nail in Bridge
SBP 3900	St. Paul's Brook Nichols Park Open Channel At Spillway Base	Off-Site	83.16	Nail in Tree
SPB 4300	St. Paul's Brook Nichols Park Open Channel S. End	Off-Site	77.54	V-Notch on Railroad Culvert
SPB 4450	St. Paul's Brook S. of IA-15	Off-Site	71.45	V-Notch on Former Sewer Manway
SPB 4880	St. Paul's Brook S. of IA-14	Off-Site	64.11	V-Notch on Headwall
VD US1	Valley Drain Upgradient of Site	Off-Site	122.19	North Rim of Manhole
VD 100	Valley Drain at N. Property Boundary	IA-12	124.38	North Rim of Manhole
VD 400	Valley Drain at Jersey City Water Supply Co. ROW	IA-03	113.39	V-Notch on Top of Pipe
VD 775	Valley Drain at NW corner of B. 115	IA-03	120.62	North Rim of Manhole
VD 1000	Valley Drain at SW corner of B. 115	IA-07	116.03	North Rim of Manhole
VD 1575	Valley Drain at Turn-Around	IA-07	109.71	North Rim of Manhole
VD 1870	Valley Drain at S. Property Boundary	IA-11	103.36	North Rim of Manhole
VD 3850	Valley Drain at St. Paul's Brook Spillway Outfall	Off-Site	86.24	V-Notch on Top of Pipe

Notes:

ft msl - feet above mean sea level

NAVD 88 = North American Vertical Datum of 1988

N/A = not available or not applicable

* Manhole is off-set from culverted stream channel, so direct measurement of surface water elevation is not possible.

**Table 3-5
Temporary Well Borehole Sampling Summary
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Temporary Well Borehole ID:	20'-30' Interval Sampled	30'-40' Interval Sampled	40'-50' Interval Sampled	50'-60' Interval Sampled	60'-70' Interval Sampled	70'-80' Interval Sampled	60'-80' Interval Sampled	Boring Grouted
TW-101			X	X	X	X		X
TW-102			X	X	X	X		X
TW-103			X	X	X	X		X
TW-104	X		X	X	X	X		X
TW-105			X	X	X	X		X
TW-106	X	X	X	X	X	X		X
TW-107	X	X	X	X	X			X
TW-108	X	X	X			X		X
TW-109		X	X	X		X		X
TW-110 (Constructed as MW-211C)	X	X	X	X		X		
TW-111	X	X	X	X	X	X		X
TW-112	X		X		X	X		X
TW-113 (Collapsed)	No Samples Collected Due to Borehole Collapse							X
TW-113A			X	X	X	X		X
TW-114					X	X		X
TW-115		X	X		X	X		X
TW-116 (Constructed as MW-212C)				X	X	X		

**Table 3-5
Temporary Well Borehole Sampling Summary
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Temporary Well Borehole ID:	20'-30' Interval Sampled	30'-40' Interval Sampled	40'-50' Interval Sampled	50'-60' Interval Sampled	60'-70' Interval Sampled	70'-80' Interval Sampled	60'-80' Interval Sampled	Boring Grouted
TW-117			X	X	X	X		X
TW-118	X	X	X	X	X	X		X
TW-119	X	X	X	X	X	X		X
TW-120			X	X	X	X		X
TW-121					X	X		X
TW-122					X	X		X
TW-123 (Constructed as MW-206C)	X	X	X	X			X	
TW-124 (Constructed as MW-44C)		X	X	X			X	
TW-125 (Constructed as MW-207C)	X	X	X	X			X	
TW-126 (Constructed as MW-208C)	X	X	X	X			X	
TW-127 (Constructed as MW-209C)		X	X		X	X		
TW-128			X	X	X	X		X
TW-129	X	X		X				X
TW-130 (Constructed as MW-221C)	X	X	X	X		X		
TW-131 (Constructed as MW-112B)		X			X			
TW-132 (Constructed as MW-223C)	X	X	X	X	X	X		
TW-133	X	X		X	X	X		X

**Table 3-5
Temporary Well Borehole Sampling Summary
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Temporary Well Borehole ID:	20'-30' Interval Sampled	30'-40' Interval Sampled	40'-50' Interval Sampled	50'-60' Interval Sampled	60'-70' Interval Sampled	70'-80' Interval Sampled	60'-80' Interval Sampled	Boring Grouted
TW-134 (Constructed as MW-224B)	X	X		X				
TW-135 (Constructed as MW-250B)	X		X	X	X	X		
TW-136 (Constructed as MW-233C)	X	X	X	X				
TW-137 (Constructed as MW-234B)	X	X	X	X	X			
TW-138 (Constructed as MW-225C)		X	X	X	X	X		
TW-139 (Constructed as MW-226C)	X	X	X	X	X			
TW-140 (Constructed as MW-251C)		X		X		X		
TW-141 (Constructed as MW-252C)	X	X	X		X	X		
TW-142	X	X	X			X		X
TW-143 (Constructed as MW-238C)	X	X		X	X	X		
TW-144	X		X			X		X
TW-145 (Constructed as MW-253C)	X	X	X	X	X	X		
TW-146 (Constructed as MW-128C)	X	X	X	X			X	
TW-147	X	X	X	X	X	X		X
TW-148	X	X		X		X		X
TW-149 (Constructed as MW-227B)	X	X	X	X		X		
TW-150 (Constructed as MW-172C)			X	X	X	X		

**Table 3-5
Temporary Well Borehole Sampling Summary
Site-Wide Ground Water Remedial Investigation Report
Hoffmann-La Roche Inc. - Nutley, New Jersey**

Temporary Well Borehole ID:	20'-30' Interval Sampled	30'-40' Interval Sampled	40'-50' Interval Sampled	50'-60' Interval Sampled	60'-70' Interval Sampled	70'-80' Interval Sampled	60'-80' Interval Sampled	Boring Grouted
TW-151 (Constructed as MW-228C)	X	X	X		X	X		
TW-152 (Constructed as MW-260C)					X	X		
TW-153 (Constructed as MW-229C)	X	X	X	X	X	X		
TW-154		X	X	X	X	X		X
TW-155 (Constructed as MW-230C)		X	X	X	X	X		
TW-156 (Constructed as MW-231C)	X	X	X	X	X	X		
TW-157 (Constructed as MW-232C)		X	X	X	X	X		