

Table 7

Comprehensive Summary of Site Contaminants by IA and AOC

Table 7
 Comprehensive Summary of Site Contaminants by IA and AOC
 Site-Wide Ground Water RIR
 Hoffmann-La Roche, Inc, Nutley, New Jersey

IA#	AOC#	AOC DESCRIPTION	SOIL IMPACT	GW COC IMPACT ATTRIBUTABLE TO AOC SOIL IMPACT	GW COC IMPACT NOT ATTRIBUTABLE TO AOC SOIL IMPACT	GW RI STATUS	GW Delineation Status
1	11	Former Building 48 UST	none	none	PAHs (due to artificial fill and sample turbidity)	Ground water samples collected at the depth exhibiting the greatest contamination as per the RIWP	No known GW contamination, RI complete
1	31	Former Lab Pack Storage Area	none	none	N/A	NFA issued	NA
1	32	Former Building 55 W Dumpster Storage Area	PAHs - Historic fill (no impact from operations)	none	N/A	GW sampling from MW-1A will continue and results reported in the Site-Wide GW RIR	RI complete
1	33	Former Building 56 W Dumpster Storage Area	PAHs - Historic fill (no impact from operations)	none	N/A	NFA proposed	RI complete
1	34	Former Building 56 SW Drum Storage Area	none	none	N/A	NFA proposed	RI complete
1	35	Former Building 56 NE Raw Materials Storage Area	PAHs - Historic fill (not impact from operations)	none	N/A	Ground water samples collected at the depth exhibiting the greatest contamination as per the RIWP	RI complete
1	36	Former Building 56 NE Dumpster Storage Area	PAHs - Historic fill (no impact from operations)	none	N/A	NFA proposed	RI complete
1	37	Building 56 SE Dumpster Storage Area	PAHs - Historic fill (no impact from operations)	none	N/A	NFA proposed	RI complete
1	40	Building 45 NE Dumpster Storage Area	none	none	N/A	NFA issued	RI complete
1	42	Building 30 N Dumpster Unloading Area/ Drum Storage Area- Waste Solvents	none	none	N/A	NFA proposed	RI complete
1	43	Building 30N Hazardous Waste Storage Tank Area	none	none	N/A	NFA proposed	RI complete
1	44	Building 45S Raw Materials Storage Area	none	none	N/A	NFA submitted	RI complete
1	45	Building 30 Permitted Haz. Waste Drum Transfer/Storage Area	none	none	N/A	NFA submitted - no soil/gw sampling performed	RI complete
1	65	Fire Training Area	PAHs - Historic fill (no impact from operations)	none	N/A	NFA proposed	RI complete
1	75	Building 52 Transformers	PCBs, and Arsenic (may be historic fill or herbicides)	Arsenic, PCBs (due to artificial fill and sample turbidity)	N/A	NFA to be proposed	RI complete
1	81	Building 29 S AST	none	none	N/A	NFA to be proposed	RI complete
1	83	Building 30 NW ASTs	Process Wastewater (Solvents)	none	N/A	NFA issued but pending for soils	RI complete
1	84	Building 30 SW AST	none	none	N/A	NFA issued	RI complete
1	94/96	Building 48 W/Building 50 W ASTs	none	none	N/A	NFA issued	RI complete
1	95	Former Building 55 W ASTs	Toluene (may be from previous operations), PAHs & PCBs (historic fill)	none	N/A	GW samples obtained from monitoring wells MW-254A (overburden) and MW-254B (shallow bedrock)	RI complete
1	97	Former Building 56 S ASTs	none	none	Arsenic, Thallium (attributed to natural background)	NFA proposed	RI complete
1	98	Building 56 E ASTs	none	none	N/A	NFA issued	RI complete
1	99	Building 69 AST	none	none	N/A	NFA issued	RI complete
1	104	640,000 gallon AST	none	none	N/A	NFA issued	RI complete
1	122	Production Well: PW-32	none	none	N/A	Well sealed-NFA issued	RI complete
1	125	Production Well: PW-27	none	none	N/A	NFA issued	RI complete
1	126	Former USTs West of Building 55	none	none	N/A	NFA proposed	RI complete
1	127	Former UST North of Building 40	none	none	PAHs (due to artificial fill and sample turbidity)	Permanent monitoring well installed as part of site-wide GW RI	RI complete
1	130	Former Building 78 Drum Storage Area	none	none	N/A	NFA proposed	RI complete

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1	136W	Building 30 Former Drum Storage Area West	PCE (may be impacting soil from previous operations), PAH (historic fill)	none	N/A	Wells installed as part of site-wide GW RI	RI complete
1	140	Former Building 55 Footprint	EPH & VOC (impacted soil from previous operations), PAHs (historic fill)	none	N/A	Wells installed as part of site-wide GW RI	RI complete
1	141	Former Building 56 Footprint	Mercury, Nickel (impacted soil from previous operations), and PCB (historic fill).	none	N/A	To be discussed in Site-wide GW RIR	RI complete
1	144	Former Building 29 Footprint	PAHs & Copper (historic fill)	none	N/A	To be discussed in Site-wide GW RIR	RI complete
2	82	Building 30 S ASTs	Solvents	none	N/A	NFA issued	RI complete
2	85	Building 35 Tank Farm SE ASTs/USTs	Benzene, Chloroform	Benzene, Chloroform	Toluene, Methylene Chloride, PAHs, Bis(2-ethylhexyl)phthalate, Methanol, xylenes (total), Hexane, VOC, & SVOC> GWQS	Monitoring wells MW-186A, MW-186B and MW-186-2 were installed to investigate ground water in AOC 85. Based on the analytical results, the ground water contamination associated with AOC 85 has migrated into the bedrock aquifer. A vertical concentration gradient was demonstrated (overall contaminant concentrations have significantly decreased with depth).	RI complete
2	86	Building 35 Tank Farm East - ASTs	none	none	Benzene	Since no contamination was detected in any of the soil samples collected beneath AOC 86, and there was benzene (164 ppb) in upgradient temporary well 85-TW-8, the benzene detected in well 86-13-TW is likely associated with AOC 85.	RI complete
2	87	Building 35 Tank Farm NE - ASTs	PCBs, PAHs	no gw sample collected	N/A	No ground water samples were collected. A temporary well was installed at a downgradient boring location; however, due to insufficient yield, a ground water sample was not collected.	NA
2	88	Building 35 Tank Farm SW - ASTs	PAHs, Heptachlor, Gamma-chlordane (pesticides), Mercury	no gw sample collected	N/A	No ground water samples were collected. A temporary well was installed at a downgradient boring location; however, due to insufficient yield, a ground water sample was not collected.	NA
2	89	Building 35 Tank Farm W - ASTs	PAH	no gw sample collected	N/A	No ground water samples were collected. A temporary well was installed at a downgradient boring location; however, due to insufficient yield, a ground water sample was not collected.	NA
2	108	2B-Alcohol Release Area Building 28	none	none	N/A	NFA issued	RI complete
2	111	Acetone Release Area	Acetone	none	N/A	NFA issued but pending (NJDEP comments for soil only)	RI complete
2	128	Former Building 72 Fill House and Railroad Spur Tank Car Loading/Unloading Area	PAHs, PCBs	none	Benzene, Chlorobenzene	No benzene was detected in the soil, therefore the benzene in GW is likely associated with the upgradient contamination in AOC 85.	RI complete
2	135	Building 35 Former Drum Storage Area	PAHs	no gw sample collected	N/A	No GW samples collected	NA
2	136E	Building 30 Former Drum Storage Area East	none	none	N/A	NFA proposed	NA
2	145	Building 30 Footprint	PAHs, PCBs	B(a)A, B(a)P, B(b)F	Aluminum, Arsenic, Beryllium, Chromium, Iron, Lead, Manganese, Mercury, Sodium, PCE, 1,1-DCE, Vinyl Chloride, Bromodichloromethane, Dibromochloromethane, Pentachlorophenol, and SVOC TICs	Temporary wells (145-TW1-10, 145-TW2-10, 145-TW3-10, 145-TW4-14, 145-TW5-10 and 145-TW6-12) were installed at each boring location directly adjacent to and/or within each sump. The elevated concentrations of PAHs and metals in ground water are likely due to turbidity.	RI complete
2	148	Building 28 Footprint	none	none	N/A	NFA Issued (as per NJDEP comment letter 5-24-2013)	RI complete
3	1	Former Building 68 W, solvent USTs: WTC14, WTC710 -WTC716, WTC718-WTC722	PAHs, Metals (historic fill), Methylene Chloride	Methylene Chloride	Benzene, Toluene, Pyridine, 4-methylphenol, Ethane, Butane, Pentane, Cyclopentane, and Cyclohexane TICs	Under site-wide GW; 6 wells (3 deep and 3 shallow) installed during RI of IA3.	RI complete
3	13a	Building 59 UST: Tank E-38	none	none	N/A	NFA proposed	RI complete
3	13b	Building 59 UST: Tank E-41	none	none	N/A	NFA proposed	RI complete

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3	56	Building 59 Hazardous Waste Drum Storage Area	none	none	N/A	NFA proposed	RI complete
3	57	Building 68 W Hazardous Waste Dumpster Storage Area	none	none	N/A	NFA proposed	RI complete
3	73	Building 68 Transformer	none	none	N/A	NFA proposed	RI complete
3	77	Building 87 Transformer	none	none	N/A	NFA proposed	RI complete
3	78	Building 113 Transformer	none	none	N/A	NFA proposed	RI complete
3	123	Production Well: PW-33	none	none	N/A	NFA Issued	RI complete
3	129	Former Building 79 Drum Storage Canopy	PAHs, Toluene	none	Benzene, TCE, Ethyl Ether, and TICs	No releases documented at this AOC. The source area appears to be AOC 1.	RI complete
3	160	Former Building 59 Footprint/ Subsurface Piping	PCBs, PAHs, Mercury, VOCs (historic fill)	none	Arsenic	No ground water investigation was proposed for AOC 160.	RI complete
3	168	Former Building 62 Footprint	none	none	N/A	NFA proposed	RI complete
3	169a	Former Building 68 Footprint: Upper Tier	B(a)P	none	PCE, Arsenic	associated with AOC 1 and AOC 129	RI complete
3	169b	Former Building 68 Footprint: Middle Tier	none	none	PCE, Arsenic	associated with AOC 1 and AOC 129	RI complete
3	169c	Former Building 68 Footprint: Lower Tier	none	none	PCE, Arsenic	associated with AOC 1 and AOC 129	RI complete
3	170	Former Building 87 Footprint	none	none	VOCs	Based on the ground water RI, ground water quality data obtained from monitoring wells installed within and adjacent to AOC-170 did not provide any evidence of a release to ground water from this AOC.	RI complete
3	176	Building 115 Sump	metals	none	N/A	NFA to be proposed	RI complete
3	178	Subgrade Steam Condensate Return System (Cyclohexylamine)	none	none	N/A	No impacts from releases related to the subgrade steam condensate return system . NFA to be proposed	RI complete
4	8a	Building 39 fuel oil USTs: Tanks E-15-E-20	PAHs	none	PCE, TCE, Arsenic, Chromium, Lead	Wells installed as part of site-wide GW RI	RI complete
4	8b	Building 39 fuel oil USTs: Tanks E-49-E-52, and E-100	none	none	N/A	NFA proposed	RI complete
4	9	Building 43 No. 2 fuel oil UST	Arsenic, Dieldrin	Arsenic (natural background)	Sodium	2010 Samples analysis for MW-127 indicated no detection above standards	RI complete
4	38	Building 44 W Dumpster Storage Area	Methylene Chloride	Methylene Chloride	Benzene, SVOC TICs (including 1,4-Dioxane), Sodium	GW sampling conducted as part of the site-wide RI	RI complete
4	39	Building 44 W Drum Storage Area	none	none	Benzene, SVOC TICs (including 1,4-Dioxane), Sodium	NFA to be proposed	RI complete
4	41	Building 45 N Raw Materials Storage Area	none	none	N/A	NFA proposed	RI complete
4	51	Building 42 W Hazardous Waste Drum Storage Area	none	none	N/A	NFA Issued	RI complete
4	52	Building 39 W Waste Oil Drum Storage Area	none	none	N/A	NFA Issued	RI complete
4	92	Building 44 E ASTs	Methylene Chloride	Methylene Chloride	Arsenic, Benzene, VOC TICs, SVOC TICs, Sodium	Ground water samples collected as part of the Site-wide RI	RI complete
4	105	Building 61 Pump House and Piping	No. 6 Fuel Oil (remediated), Benzene, Toluene, Methylene Chloride, EPH	Benzene, VOC TICs, SVOC TICs, petroleum sheen	Methylene Chloride, Sodium	Ground water samples collected as part of the Site-wide RI	RI complete
4	128	Former Building 72 (Fill House) and Rail Road Spurs	none	none	N/A	NFA proposed	NA
4	137	Former Tank Storage Area North of Building 36	Methylene Chloride, PAHs	none	1,4-Dioxane, Sodium	Ground water samples collected as part of the Site-wide RI	RI complete

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4	142	Building 44 Footprint	PAHs, PCBs, Dieldrin, hexavalent chromium, various VOCs (including Benzene, Chlorobenzene, Chloroform, MEK, Methyl Acetate, Methylene Chloride, PCE, Styrene), Arsenic, Antimony, Cadmium, Lead, Nickel, Selenium, EPH	Benzene, Methylene Chloride, Arsenic	VOC TICs, SVOC TICs, 1,4-Dioxane, Sodium	Ground water samples collected as part of the Site-wide RI	RI complete
4	143	Building 45 Footprint	Benzene, Methylene Chloride, PCE, PAHs, Bis-2(ethyl hexyl)phthalate, Lead, Mercury	none	N/A	NFA proposed	RI complete
5	109	Mercury Release Area, Underground Tunnel, Building 56	Benzo(a)pyrene, PCBs	none	Benzo(a)anthracene, Lead, Sodium	GW samples will be obtained from monitoring wells MW-256A (overburden) and MW-256B (shallow bedrock) installed in the vicinity of soil impacts	RI complete
6	3	Former Building 11, diesel fuel UST	none	none	N/A	NFA proposed	RI complete
6	19a	Former Building 86 No. 2 fuel oil UST: Tank E-30	none	none	N/A	NFA issued	RI complete
6	19b	Former Building 86 No. 2 fuel oil UST: Tank E-43	none	none	N/A	NFA issued	RI complete
6	46	Building 25 Waste Solvent Dumpster and Drum Storage Area	none	none	N/A	NFA issued	RI complete
6	47	Building 86 N Drum Storage Area	none	none	N/A	NFA issued	RI complete
6	68	Building 39 N Transformer	none	none	N/A	NFA proposed	RI complete
6	69	Building 39 Transformers	none	none	none	NFA proposed	RI complete
6	79	Building 4 N AST (TWG-13)	none	none	Arsenic, Cadmium, Cobalt, Nickel, Iron, Manganese, Sodium	NFA proposed	RI complete
6	80	Building 25 N ASTs (WTC-441 and YTD-206)	none	none	N/A	NFA issued	RI complete
6	90	Building 44 W ASTs	none	none	N/A	NFA issued	RI complete
6	91	Building 44 N ASTs	none	none	N/A	NFA issued	RI complete
6	93	Building 45 N ASTs	none	none	N/A	NFA proposed	RI complete
6	101	Building 80, W AST (WTD-9)	none	none	N/A	NFA issued	RI complete
6	113	Former Incinerator	none	none	N/A	NFA proposed	RI complete
6	114	Building 43 Incinerator	none	none	N/A	NFA proposed	RI complete
6	124	Production Well - PW-14	none	none	N/A	NFA issued	NA
6	132	Building 86 Soil Area	TPH, Methylene Chloride, Acetone	none	TCE, VC, 1,1-DCE, Chlorobenzene, 1,4-Dioxane	Ground water wells MW-6A, RW-51, MW-50, MW-53, MW-54 and MW-56 are located southeast of AOC 132 and sampled	RI incomplete
6	133	Former Building 4 Drum Storage Area	none	none	Arsenic, Iron, Manganese, Sodium	MW-158 was used to assess AOC 133.	RI complete
6	147	Former Building 25 Footprint	Manganese, Sodium	none	EPH, Metals	Monitoring well MW-98 are located southeast of AOC 147 and used for assessment	RI complete
6	149	Former Building 17 Footprint	Chlorobenzene, 1,1,2,2-TCA, TCE, Xylenes	none	Aluminum, Arsenic, Iron, Manganese, Sodium, Benzene	Monitoring well MW-157 are located southeast of AOC 149 and used for assessment	RI complete
6	150	Former Building 16 Footprint	none	none	Thallium, Aluminum, Iron, Manganese, Sodium, PCE, TCE, VC	Monitoring well MW-162 are located southeast of AOC 150 and used for assessment	RI complete
6	151	Former Building 13 Footprint	none	none	Manganese, Sodium	Monitoring well MW-163 are located southeast of AOC 151 and used for assessment	RI complete
6	152	Former Building 12 Footprint	PAHs	none	Iron, Manganese, Sodium, PCE, TCE, 1,1-DCE, Chlorobenzene	Monitoring well MW-6A are located southeast of AOC 152 and used for assessment	RI complete

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6	153	Former Building 6 Footprint	none	none	N/A	NFA issued	RI complete
6	154	Former Building 3 Footprint	none	none	N/A	NFA issued	RI complete
6	155	Former Building 15 Footprint	Chlorobenzene, PCE, PAHs	PCE, Chlorobenzene	Benzene, Cadmium, Zinc, Thallium	As part of the site-wide RI, MW-161, MW-160 are located southeast of AOC 155 and used for assessment	RI complete
6	156	Former Building 10 Footprint	none	none	BHC-Lindane, Arsenic, Thallium, Lead, Zinc, Cadmium	As part of the site-wide RI, MW-158, MW-159 are located southeast of AOC 156 and used for assessment	RI complete
6	157	Former Building 4 Footprint	PAHs	none	Iron, Manganese, Sodium, Aluminum, Arsenic, Thallium,	As part of the site-wide RI, MW-158, MW-159 are located southeast of AOC 157 and used for assessment	RI complete
6	158	Former Building 5 Footprint	none	none	Cobalt, Nickel, T SVOCs, Benzene	As part of the site-wide RI, MW-155, MW-156 are located east/southeast of AOC 158 and used for assessment	RI complete
6	180	Former Building 86 Footprint	Dieldrin, PCBs	none	Dieldrin	All PCB soil was removed, no GW impact	RI complete
7	4/175	Former Buildings 64 USTs/Former Building 65 and 67 USTs	none	none	N/A	Samples collected from MW-128; monitoring to be continued under the site-wide GW RI	RI complete
7	5	Building 65 USTs	none	none	N/A	NFA proposed	RI complete
7	12	Building 58 No. 2 fuel oil UST	none	none	N/A	NFA proposed	RI complete
7	14	Building 75, diesel fuel AST (WTC-853)	none	none	N/A	NFA issued	RI complete
7	15	Building 75 Pseudo Ionone USTs	none	none	BEHP, metals	GW to be investigated during the Site-wide GW RIR	RI complete
7	17	Building 84 Dehydrolinalool USTs	none	none	N/A	NFA issued	RI complete
7	18a	Building 85 diesel fuel USTs: Tank E-29	none	none	N/A	NFA issued	RI complete
7	18b	Building 85 No. 2 fuel oil UST: Tank E-42	none	none	N/A	NFA issued	RI complete
7	20a	Building 100 No. 2 fuel oil UST: Tank E-31	none	none	N/A	NFA issued	RI complete
7	20b	Building 100 diesel fuel UST: Tank E-44	none	none	N/A	NFA issued	RI complete
7	21a	Building 102 No. 2 fuel oil UST: Tank E-32	none	none	N/A	NFA issued	RI complete
7	21b	Building 102 diesel fuel UST: Tank E-45	none	none	N/A	NFA issued	RI complete
7	55	Building 100 E Hazardous Waste Drum Storage Area	none	none	N/A	NFA proposed	RI complete
7	60	Building 66 NW Hazardous Waste Drum Storage Area	none	none	N/A	NFA proposed	RI complete
7	61	Building 102 Hazardous Waste Drum Storage Area	none	none	N/A	NFA proposed	RI complete
7	62	Building 71 N Hazardous Waste Drum Storage Area	Toluene	none	N/A	No GW investigation done - exceedances in 1 soil sample only	RI complete
7	63	Building 71 N Dumpster Storage Area	none	none	N/A	NFA proposed	NA
7	64	Building 71 NW Raw Materials Storage Area	none	none	N/A	NFA proposed	NA
7	70	Building 63 E Former Transformer	none	none	N/A	NFA proposed	NA
7	71	Building 63 W Former Transformer	none	none	N/A	NFA proposed	NA
7	72	Building 65 SE Former Transformers	none	none	N/A	NFA proposed	NA
7	74	Building 66 Transformers	none	none	N/A	NFA proposed	NA
7	76	Building 109 Transformer	none	none	N/A	NFA proposed	NA

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7	102	Building 81 AST (WDT-8)	none	none	N/A	NFA issued	NA
7	107	Spill Location on Street North of Building 100	none	none	N/A	NFA issued	NA
7	120	Production Well: PW-20	none	none	N/A	NFA issued	NA
7	121	Production Well: PW-37	none	none	N/A	GW to be investigated during the site-wide GW RI	NA
7	161	Former Building 65 Footprint	none	none	N/A	NFA proposed	NA
7	162	Building 64 Footprint	none	none	N/A	NFA issued	NA
7	163	Former Building 67 Footprint	none	none	N/A	NFA Proposed	NA
7	166	Former Building 84 Footprint	B(a)P, Mercury	none	N/A	No ground water investigation was proposed for this AOC.	NA
7	167	AOC 167, Building 63 Footprint	none	none	N/A	NFA proposed	NA
7	171	Former Building 71 Footprint	none	none	N/A	NFA proposed	NA
8	67	Process Sewer System	EPHs, PAHs, PCE (IA-11) (historic fill), Chlorobenzene	none	Benzene, Metals (Temp wells)	PCE exceedances from IA-11 (located in EISB area) may have contributed to ground water impacts in this area	RI complete
8	116	Storm Sewer System- East	VOCs, PAHs, Cr, Hg, Pb, Ag	PCE	PAHs, Chromium, Hg, Pb, Ag	GW investigated as part of the site-wide GW RI	RI complete
8	117	Storm Sewer System -West	VOCs, PAHs, Cu, Pb, Zn	PCE	PAHs, Hg, Pb, Ag	GW investigated as part of the site-wide GW RI	RI complete
9	7	Building 73 Former USTs	B(a)A, Beryllium	none	N/A	Wells samples as part of the Site-wide RI	RI complete
9	30a	Building 1 diesel fuel UST - Tank E-37	none	none	N/A	NFA issued	NA
9	30b	Building 1 heating oil UST -Tank E-40	none	none	N/A	MW-7A located along Public Service Trench line - NFA issued	NA
9	48	Building 76 W Drum Storage Area	none	none	N/A	NFA issued	NA
9	49	Former Building 73 N Dumpster Storage Area	Benzene, TCE, PCE, cis-1,2-DCE, Vinyl Chloride, Methylene Chloride, Mercury	Benzene, PCE, TCE, Cis 1,2-DCE, Vinyl Chloride	Toluene, trans-1,2-DCE, 1,1-DCE, As, Cr, Ni, T SVOC	As part of the Site-wide RI MW-170, MW-153, MW-154 were used for assessment of AOC 49	RI complete
9	50	Former Building 73 W Dumpster Storage Area	B(a)A, B(a)P, Mercury, Beryllium	none	none	MW-151, MW-152 used for assessment of AOC 50	NA
9	106	Chemical Transfer Network	VOCs, BNAs, inorganics, acids, bases, alcohols	none	N/A	GW not mentioned in RIWP. No GW sampling plan developed	RI complete
9	110	Hydraulic Oil Release Area	none	none	N/A	NFA issued	NA
9	134	Former Building 9 Drum Storage Area	B(a)A, B(a)P, Mercury, Nickel, Beryllium	none	N/A	GW sampled as part of the Site-wide RI	RI complete
9	146	Building 73 Footprint	B(a)A, B(a)P, B(b)F, D(a,h)A, I(123-cd)P, PCBs, Mercury, Beryllium, PCE, 111 DCE, Benzene	Benzene, PCE, 1,1-DCE	Toluene, TCE, cis & trans-1,2-DCE, Vinyl Chloride, Arsenic, Chromium, Lead, Nickel, PCP	MW-167A, MW-167B, MW-168A, MW-168B, MW-169A, MW-169B used for assessment of AOC 146	RI complete
9	159	Former Building 9 Footprint	B(a)A, B(a)P, B(b)F, methylene chloride, Beryllium	none	N/A	GW sampled as part of the Site-wide RI	RI complete
10	2a	Building 70, fuel oil and gasoline USTs: Tanks E23-E27,T-1	none	none	N/A	NFA issued	RI complete
10	2b	Building 70, diesel fuel and gasoline USTs: Tanks E46-E48	none	none	N/A	NFA issued	NA
10	22	Former Building 103 No. 6 fuel oil UST	PAHs	none	Benzene, 1,1-DCE, PCE, TCE	GW sampled as part of the Site-wide RI	RI complete

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10	23	Building 104 Former No. 6 fuel oil USTs	PAHs	none	PCE, TCE, Sodium, 1,4-Dioxane	Wells installed downgradient (south and east) used to assess GW for the RI	RI complete
10	25	Building 110 No. 2 fuel oil UST	none	none	Metals	MW-44 and MW-45 used for assessment	RI complete
10	26	Building 111 Former No. 2 fuel oil UST: Tank T-1	none	none	Sodium	NFA Re- Issued (AOC 172 -same Tank)	NA
10	27	Building 112 Former No. 2 fuel oil USTs: Tanks E-35, and E-35A	none	none	TPHC, VOCs	NFA approved	NA
10	53	Building 106 Raw Materials Storage Area	PAHs, PCBs, Dieldrin, Aluminum, Antimony, Barium, Beryllium, Cadmium, Lead, Manganese, Mercury, Nickel, Silver, Zinc (historic fill)	Lead, and possibly Arsenic	PCE, TCE, Benzene, Aluminum, Iron, Manganese, Sodium, and Thallium	53RI-MW-1, 53RI- MW-5 (Roche) and MW-15W, MW-16AW, MW-22W (Deluxe Check) wells were used for assessment	RI complete
10	54a	Building 106 Former Permitted TSD Area I	PAHs, PCBs, Lead, Aluminum, Beryllium, Manganese, and Mercury	none	N/A	NFA to be proposed	NA
10	54b	Building 106 Former Permitted TSD Area II	PCBs, Lead (fill), Aluminum, Beryllium, Manganese, Mercury, Silver	none	N/A	NFA to be proposed	NA
10	66	Former City of Clifton Dump	Benzene, Toluene, Xylene, B(a)A, B(a)P, B(b)F, B(k)P, Carbazole, Chrysene, D(ah)A, 2-Methylnaphthalene, I(123-cd)P, Naphthalene, N-Nitro PA, T. EPHs, PCBs, Alpha BHC, Dieldrin, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc (Landfill)	PCE, TCE, 11-DCE, Bis(2-ethylhexyl)phthalate, Dieldrin, Lead, Chromium, Arsenic	Benzene, Toluene, Xylene, B(a)A, B(a)P, B(b)F, B(k)P, Carbazole, Chrysene, D(ah)A, 2-Methylnaphthalene, I(123-cd)P, Naphthalene, N-Nitro PA, T. EPHs, PCBs, Alpha BHC, Aluminum, Antimony, Barium, Beryllium, Cadmium, Copper, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc	66RI-MW-4, 66RI-MW-5, 66RI-MW-6, monitoring wells were used for assessment	RI complete
10	100	Building 70 E ASTs	PCBs, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Lead, Manganese, Mercury, Nickel, Silver, Zinc, PAHs, N-Nitrosodiphenylamine, EPH (C9-C40), Pest (historic fill)	none	PCE, TCE, Benzene, Aluminum, Arsenic, Iron, Lead, Manganese, Sodium and Thallium,	53RI-MW-1, 53RI-MW-2, 53RI-MW-3, 53RI-MW-4, 53RI-MW-5, and MW-15W, MW-16AW, MW-22W (Deluxe Check) were used for assessment. Metals and VOCs not related to raw material storage area	RI complete
10	112	Decommissioned Equipment Storage Area	PAH, PCBs, Lead (fill)	none	PCE, TCE, Arsenic, Benzene, 1,4-Dioxane	NFA to be proposed	NA
10	118	Storm Water Outfall - St. Paul's Brook	PCBs,	none	PCE, TCE, Arsenic, Benzene	NFA to be proposed	NA
10	131	Former Drum Storage Areas E of Building 103	PCBs, Lead, Mercury (fill)	none	PCE, TCE, 1,1-DCE, VC, Lead, Arsenic, Iron, Manganese, Sodium, Dieldrin	131RI-MW-1 used to assess potential ground water impacts associated with the AOC	RI complete
10	138	Former Drum Storage Areas E&S of Building 104	MC, PAHs, Nickel, Mercury (attributed to AOC 23)	none	PCE, TCE, Aluminum, Arsenic, Iron, Manganese, Sodium (not related to former Drum Storage Area)	Benzene may be attributed to release from former tank in AOC 100 since it was detected in GW downgradient from the former USTs.	RI complete
10	139	Former Gasoline Station North of Kingsland Street	none	none	N/A	NFA to be proposed	NA
10	172	Former Building 111 UST	VOCs	none	NA	NFA Approved	NA
10	174	Parking Lot 900 Annex, Former Buildings 111, 112 Area	PAHs, Metals (historic fill)	none	PCE, TCE	NFA for PCB soil. MW-26, 27, 43-45 monitored under site-wide long term monitoring plan. These wells will further evaluated under the site-wide GW RI	RI complete
10	179	Building 109 Solvent Drain & Dry Well	none	none	PCE, TCE, 1,4-Dioxane	179RI-MW-1 used to assess potential ground water impacts associated with the AOC	RI complete
10	182	Building 110 UST	none	none	N/A	NFA requested	NA
10	186	Former Haberland Morningstar-Paisley Rail Spur	PCBs, PAHs, PCE, TCE, Vinyl Chloride, Metals, Dieldrin (artificial fill)	PCE, TCE, Metals	PAH, PCBs, Dieldrin	186RI-MW-1, 186RI-MW-2, 186RI-MW-3, 186RI-MW-4, used to assess potential ground water impacts associated with the AOC	RI complete
10	187	Former Broadbent Coal Rail Spur	Benzene, Aluminum, Ethylbenzene, Manganese, B(a)A, B(b)F, and B(a)P PCE, TCE, Vinyl Chloride, and Mercury (artificial fill)	Arsenic (may be related to coal)	PCE, TCE, 1,1-DCE, VC, Benzene	187RI-MW-1, 187RI-MW-2, 187RI-MW-3, used to assess potential ground water impacts associated with the AOC	RI complete

Table 7
 Comprehensive Summary of Site Contaminants by IA and AOC
 Site-Wide Ground Water RIR
 Hoffmann-La Roche, Inc, Nutley, New Jersey

IA#	AOC#	AOC DESCRIPTION	SOIL IMPACT	GW COC IMPACT ATTRIBUTABLE TO AOC SOIL IMPACT	GW COC IMPACT NOT ATTRIBUTABLE TO AOC SOIL IMPACT	GW RI STATUS	GW Delineation Status
10	190	Former Broadbent Coal Storage Pile	Benzene, Benzo(a)pyrene, Aluminum, Arsenic, Iron, Manganese, Sodium, Chromium, Nickel, Lead (artificial fill)	Arsenic (may be related to coal)	PCE, TCE, VC, PAHs, Aluminum, Arsenic, Iron, Manganese, Sodium, Chromium, Nickel, Lead	190RI-MW-1, 190RI-MW-2, used to assess potential ground water impacts associated with the AOC	RI complete
11	10a	Building 47 fuel oil USTs: Tanks ZTD-101, ZTF-1	none	none	N/A	NFA proposed	NA
11	10b	Building 47 fuel oil USTs: Tank E-21	none	none	N/A	NFA proposed	NA
11	28	Building 114 Former No. 2 fuel oil UST: Tank E-33/WTG-3	none	none	N/A	NFA issued	NA
11	58	Building 66 B Hazardous Waste/Raw Materials Storage Area	none	none	N/A	NFA issued	NA
11	59	Building 66/66A Hazardous Waste/Raw Materials Storage	PCE, TCE, 1,1- DCE	1,1-DCE	PCE, TCE	MW-138 used to assess potential ground water impacts associated with the AOC	RI complete
11	164	Building 66B Footprint	none	none	N/A	NFA issued	NA
11	165	Building 66A Footprint	B(a)P, Beryllium (historic fill)	none	1,1-DCE	NFA issued.	NA
11	173	Parking Lot 903 Drywell	none	none	PCE, TCE	NFA issued.	NA
11	181	Parking Lot 903 - PCE Impacted Soils	PAHs, Lead, Beryllium, Cadmium, Mercury, Nickel (historic fill)	none	PCE, TCE, CIS 1,2-DCE, Vinyl Chloride, 1,1-DCE, Chlorobenzene	PCE exceedances (location within the EISB area) may have contributed to ground water impacts in this area	RI complete
11	188	Former Contractor Yard Rail Spur	Benzo(a)pyrene, Beryllium, Lead, Mercury, and Nickel (historic fill)	none	N/A	NFA issued.	NA
11	NA	Stockpile Soil Area	PAHs, PCBs (anomaly), Mercury, Beryllium, and Lead	none	PCE	NFA issued.	NA
12	NA	Clifton Sanitary Sewer	none	none	Benzene, PCE, TCE, and cis-1,2-DCE	VOC plume is limited to the vicinity of the Clifton Sanitary Sewer line, indicating that the source of the ground water contamination is likely due to a discharge from the Clifton Sanitary Sewer. In addition, the ground water sampling results from the wells installed north of IA-12 clearly indicate contamination is present upgradient of the Roche site.	RI complete
12	NA	Ground Water VOCs	NA	none	PCE, TCE	MW-60 and MW-80 was used to assess the VOCs in GW	RI complete
12	NA	Subsurface Geophysical Anomalies	PAH, Arsenic, Manganese	none	N/A	Ground water impact below this AOC is from off-site sources	RI complete
12	NA	Fill Material	PAHs, Metals	none	N/A	Ground water impact below this AOC is from off-site sources	RI complete
12	NA	Stone Yard	VOCs, Metals	N/A	N/A	Located within the right-of-way for two 6-foot diameter New Jersey American Water lines and the owner of the piping system requested that no equipment or vehicles be allowed in the area due to fears that the pipe may fail due to its age and thereby impact residential water supply; therefore, no sampling could be conducted in this area.	RI complete
13	NA	Building 77 Historic Fill	Metals, PAHs	none	PCE	GW was assessed under the site-wide GW RI	RI complete
13	16	Former UST NE of Building 77: Tank E-28	PAHs (historic fill)	none	PCE	NFA to be proposed	NA
14	24	Building 105 Former No. 2 fuel oil UST: Tank E-33/TWG-3	none	none	N/A	NFA issued	NA
14	184B	Former Contractor Parking Lot	PAHs (historic fill)	none	PCE	Contaminants observed in soil were not present in ground water in the vicinity of this AOC; therefore, ground water contamination in IA-14 is not attributable to this AOC. The slight exceedance of the PCE > GWQS was addressed in the site-wide GW RI	RI complete
14	185	Former Buildings 105 & 121 Footprint (299 Kingsland St. (Portion of AOC 185 investigated in IA-14, Portion of AOC 185 investigated in IA-15)	PAHs (historic fill)	none	PCE	Contaminants observed in soil were not present in ground water in the vicinity of this AOC; therefore, ground water contamination in IA-14 is not attributable to this AOC. The slight exceedance of the PCE > GWQS was addressed in the site-wide GW RI	RI complete
14/15	184	Parking Lot 906 Historic Fill (299 Kingsland Street)	Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver; Naphthalene, PAHs (historic fill)	none	PCE, Arsenic, Nickel	Contaminants observed in soil were not present in ground water in the vicinity of this AOC; therefore, ground water contamination in IA-14 is not attributable to this AOC. The slight exceedance of the PCE > GWQS was addressed in the site-wide GW RI	RI complete

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IA#	AOC#	AOC DESCRIPTION	SOIL IMPACT	GW COC IMPACT ATTRIBUTABLE TO AOC SOIL IMPACT	GW COC IMPACT NOT ATTRIBUTABLE TO AOC SOIL IMPACT	GW RI STATUS	GW Delineation Status
14/15	189	Former La Monte Rail Spurs (299 Kingsland Street) (Portion of AOC 189 were investigated in IA-14 and IA-15)	Benzo(a)pyrene, Beryllium, and Mercury (historic fill)	none	PCE	CEA requested	RI complete
15	29	Building 116 No. 2 fuel oil UST: Tank E-53	none	none	N/A	NFA issued	NA
15	103	Building 116 ASTs	none	none	N/A	NFA issued	NA
15	119	Stormwater Outfall: DSN-002A	none	none	N/A	NFA issued	NA
15	177	ECF Acid Spill Area	none	none	N/A	NFA issued. GW not impacted	NA
15	183	Former Building 121 Machine Shop (299 Kingsland St.)	none	none	N/A	NFA requested	NA
15	184c	Portion of Parking Lot 906 Historic Fill (299 Kingsland Street)	PAHs, Lead, Mercury (historic fill)	none	PCE	Contaminants observed in soil were not present in ground water in the vicinity of this AOC. The slight exceedance of the PCE in GW was addressed in the site-wide GW RI	RI complete
15	185b	Portion of Former Buildings 105 & 121 Footprint (299 Kingsland St.)	PAHs, Lead, Mercury (historic fill)	none	PCE	Contaminants observed in soil were not present in ground water in the vicinity of this AOC. The slight exceedance of the PCE in GW was addressed in the site-wide GW RI	RI complete
15	189b	Portion of Former La Monte Rail Spurs (299 Kingsland Street)	PCE, PAHs, Arsenic, Lead, Nickel, vanadium, beryllium, Dieldrin (historic fill)	PCE	N/A	CEA requested	RI complete
15	NA	Historic Dye House	SVOCs & Metals (historic fill)	none	PCE, TCE	GW injections completed - sampling being conducted	RI complete
NA	115	Production Building Roof Drains	none	none	N/A	NFA issued	NA

Notes:
 NA = Not Applicable (no ground water delineation necessary)