Appendix H. Causes and Sources of Impairment in the Lower Cuyahoga River Basin

Stream Segment [Identification Number]	Segment Listed in 1998 303 (d)	Aquatic Life Use Designation	Attainment Status (Miles)				Causes of Impairment	Sources of Impairment
			Full	**Full but Threatened**	**Partial**	**NON**		
Little Cuyahoga River (Wingfoot Lake Outlet to Cuyahoga River) [OH 88 1]	YES	WWH	0.0	0.0	0.0	11	Organic Enrichment/D.O. (H) Priority Organics (M) Metals (M) Unknown Toxicity (S)	Combined Sewer Overflow (H) Urban Runoff/Storm Sewers (M) Spills (M) Natural (M) Industrial Point Sources (S) Landfills (S) Unknown (S)
Cuyahoga River (Breakneck Creek to Little Cuyahoga River) [OH 88 5]	YES	WWH	5.3	0.0	7.2	0.4	Organic Enrichment/D.O. (H) Flow Alteration (M) Priority Organics (S) Thermal Modification (S)	Combined Sewer Overflow (H) Urban Runoff/Storm Sewers (M) Upstream Impoundment (M) Industrial Point Sources (S) Municipal Point Sources (S) Spills (S)
Union Oil Tributary [OH 88 4.1]	YES	WWH	0.0	0.0	1.6	0.0 (*1.4*)	Habitat Alteration (H)	Channelization (M)
Ohio Canal [OH 88 1.2]	YES	MWH	0.0	0.0	0.0	4.3 (*5.7*)	Organic Enrichment/D.O. (H) Habitat Alteration (M) Metals (S)	Urban Runoff/ Storm Sewers (H) Industrial Point Sources (M) Channelization (M)
Cuyahoga River (Yellow Creek to Brandywine Creek) [OH 89 14]	YES	WWH	0.0	0.0	0.0	13	Organic Enrichment/D.O. (H) Unknown Toxicity (S) Priority Organics (S) Siltation (S)	Municipal Point Sources (H) Combined Sewer Overflow (H) Agriculture (S) Urban Runoff/ Storm Sewers (S) Natural (S)

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			Full	**Full but Threatened**	**Partial**	**NON**		
Brandywine Creek [OH 89 13]	YES	WWH	0.0	0.0	0.0	1	Organic Enrichment/D.O. (H) Unknown (S) Siltation (S)	Municipal Point Sources (H) Natural (S) Unknown (S)
Cuyahoga River (Little Cuyahoga River to Yellow Creek) [OH 89 27]	YES	WWH	0.0	0.0	0.0	5.1	Organic Enrichment/D.O. (H) Unknown Toxicity (S) Priority Organics (S)	Municipal Point Sources (H) Combined Sewer Overflows (H) Urban Runoff/Storm Sewers (S) Spills (S)
Powers Brook [OH 89 30]	YES	WWH	0.0	0.0	0.0	1.3 (*3.6*)	Organic Enrichment/D.O. (H) Ammonia (M)	Municipal Point Sources (H)
Yellow Creek [OH 89 25]	YES	WWH	0.0	2.4	0.0	0.0	Organic Enrichment/D.O. (T)	Municipal Point Sources (T) Other Wastewater Systems/Septic Tanks (T)
Mud Brook [OH 89 29]	YES	WWH	0.0	0.0	0.0	11	Organic Enrichment/D.O. (H) Flow Alteration (M) Habitat Alteration (M) Metals (S) Ammonia (S)	Other (H) Municipal Point Sources (M) Channelization (M) Industrial Point Sources (S)
Cuyahoga River (Brandywine Creek to Tinkers Creek) [OH 89 11]	YES	WWH	0.0	0.0	0.0	7.8	Organic Enrichment/D.O. (H) Unknown Toxicity (S) Siltation (S)	Municipal Point Sources (H) Combined Sewer Overflows (H) Agriculture (S) Natural (S)

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			Full	**Full but Threatened**	**Partial**	**NON**		
Tinkers Creek (headwaters to Pond Brook) [OH 89 9]	YES	WWH	0.0	0.0	0.69	6.0	Unknown (M) Metals (S) Nutrients (S) Organic Enrichment/D.O. (S)	Natural (M) Unknown (M) Municipal Point Sources (S)
Deer Lick Run [OH 89 8.2]	YES	LRW	0.0	0.0	0.0	3	Metals (H) Ammonia (M) Organic Enrichment/D.O. (M)	Industrial Point Sources (H)
Pond Brook [OH 89 10]	YES	MWH	0.0	0.0	0.0	4.8	Habitat Alteration (H) Organic Enrichment/D.O. (M)	Channelization (H) Natural (M) Municipal Point Sources (S)
Trib. To Chippewa Creek [OH 89 12.1]	YES	WWH	0.0	2.4	0.0	1.4	Flow Alteration (H) Nutrients (M) Organic Enrichment/D.O. (M)	Land Development/Suburbanization (H) Other Urban Runoff (M)
Streetsboro Tributary To Tinkers Creek [OH 89 9.1]	YES	WWH	0.0	0.0	0.0	0.5 (*1.5*)	Organic Enrichment/D.O. (H)	Municipal Point Sources (H)
Wood Creek [OH 89 8.1]	YES	LRW	0.0	0.0	0.0	1	Unknown (H)	Urban Runoff/Storm Sewers (H) Spills (S) Unknown (S)

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Stream Segment [Identification Number]	Segment Listed in 1998 303 (d)	Aquatic Life Use Designation	Attainment Status (Miles)				Causes of Impairment	Sources of Impairment
			Full	**Full but Threatened**	**Partial**	**NON**		
Beaver Meadow Creek [OH 89 8.3]	YES	WWH	0.0	0.0	0.0	1.1	Organic Enrichment/D.O. (H)	Other (H) Municipal Point Sources (M)
Tinkers Creek (Pond Brook to Cuyahoga River) [OH 89 8]	YES	WWH	0.0	0.0	0.0	22.5	Organic Enrichment/D.O. (H) Oil and Grease (H) Unknown (S) Nutrients (S) Siltation (S) Habitat Alteration (S)	Industrial Point Sources (H) Municipal Point Sources (H) Construction (S) Urban Runoff/Storm Sewers (S) Landfills (S) Spills (S) Natural (S) Unknown (S)
Chippewa Creek [OH 89 12[	YES	WWH	0.0	0.0	0.0	0.5 (7.7)	Ammonia (H)	Pasture Land (S) Urban Runoff/Storm Sewers (S)
Cuyahoga River (Tinkers Creek to Big Creek) [OH 89 6]	YES	WWH	0.0	0.0	0.0	9.2	Chlorine (H) Organic Enrichment/D.O. (H) Unknown Toxicity (S) Priority Organics (S) Siltation (S)	Municipal Point Sources (H) Non Priority Organics (M) Urban Runoff/Storm Sewers (M) Agriculture (S) Landfills (S) Spills (S) Natural (S)

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			Full	**Full but Threatened**	**Partial**	**NON**		
Mill Creek [OH 89 7]	YES	LWH	0.0	0.0	0.0	2	Ammonia (H) Organic Enrichment/D.O. (H)	Combined Sewer Overflow (H) Landfills (H) Urban Runoff/Storm Sewers (M)
Big Creek [OH 89 5]	YES	WWH	0.0	0.0	0.0	1	Organic Enrichment/D.O. (H) Unknown (S) Oil and Grease (S)	Combined Sewer Overflow (H)
Cuyahoga River (Big Creek to Lake Erie) [OH 89 1]	YES	WWH	0.0	0.0	0.0	7.2	Organic Enrichment/D.O. (H) Habitat Alteration (H) Priority Organics (M) Metals (M) Ammonia (M) Other Inorganics (M) Oil and Grease (M)	Combined Sewer Overflow (H) Dredging (H) Industrial Point Sources (M) Municipal Point Sources (M) Urban Runoff/Storm Sewers (M) Channelization (M) Spills (M) Contaminated Sediments (M) Streambank Modification/ Destabilization(S) Natural (S)
Ford Branch Big Creek [OH 89 5.1]	YES	WWH	0.0	0.0	0.0	5.0 (*3.73*)	Unknown Toxicity (S) Siltation (S) Flow Alteration (S)	Industrial Point Sources (H) Urban Runoff/Storm Sewers (H)
Kingsbury Run [OH 89 2]	YES	WWH	0.0	0.0	0.0	0.5 (*9.0*)	Priority Organics (H) Metals (H)	Spills (H) Contaminated Sediments (H) Urban Runoff/ Storm Sewers (S)