

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
15	02040302020030-01	Absecon Creek (AC Reserviors) (gage to SB)	Mercury in Fish Tissue	Atlantic City Reservoir (Upper)	2014	Fish Consumption		Low
15	02040302020030-01	Absecon Creek (AC Reserviors) (gage to SB)	Mercury in Water Column	01410455	2010	Water Supply		Low
15	02040302020040-01	Absecon Creek (below gage)	Mercury in Fish Tissue	Atlantic City Reservoir (Lower)	2008	Fish Consumption		Low
15	02040302020040-01	Absecon Creek (below gage)	Oxygen, Dissolved	R33, 2401	2004	Aquatic Life		Medium
15	02040302020040-01	Absecon Creek (below gage)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
15	02040302020010-01	Absecon Creek NB	Mercury in Fish Tissue	Atlantic City Reservoir (Lower)	2008	Fish Consumption		Low
15	02040302020010-01	Absecon Creek NB	pH	ANOABGSP	2006	Aquatic Life		Medium
15	02040302020020-01	Absecon Creek SB	Mercury in Water Column	01410455	2008	Water Supply		Low
14	02040301160110-01	Albertson Brook / Gun Branch	pH	0140941020, 0140940970, NALDEREL	2006	Aquatic Life		Medium
11	02040105210010-01	Alexauken Ck (above 74d 55m)	pH	01461900	2014	Aquatic Life		Medium
11	02040105210010-01	Alexauken Ck (above 74d 55m)	Temperature, water	01461900	2006	Aquatic Life - Trout	R	Medium
11	02040105210020-01	Alexauken Ck (below 74d 55m to 11BA06)	Arsenic	01461840	2012	Water Supply		Low
11	02040105210020-01	Alexauken Ck (below 74d 55m to 11BA06)	Escherichia coli	01461840	2012	Recreation	R	Medium
11	02040105210020-01	Alexauken Ck (below 74d 55m to 11BA06)	pH	01461900	2012	Aquatic Life, Aquatic Life - Trout		Medium
11	02040105210020-01	Alexauken Ck (below 74d 55m to 11BA06)	Temperature, water	01461900	2006	Aquatic Life - Trout	R	Medium
17	02040206060020-01	Alloway Ck (above Alloway-Woodstown Rd)	Arsenic	01482880	2008	Water Supply	A	Low
17	02040206060020-01	Alloway Ck (above Alloway-Woodstown Rd)	Total Suspended Solids (TSS)	01482880	2008	Aquatic Life		Medium
17	02040206060090-01	Alloway Ck (below HancocksBr) to Salem R	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206060090-01	Alloway Ck (below HancocksBr) to Salem R	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206060080-01	Alloway Ck (HancocksBridge to NewBridge)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206060080-01	Alloway Ck (HancocksBridge to NewBridge)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206060060-01	Alloway Ck (New Bridge to Quinton)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206060060-01	Alloway Ck (New Bridge to Quinton)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206060050-01	Alloway Ck (Quinton to Alloway-WdstwnRd)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206060050-01	Alloway Ck (Quinton to Alloway-WdstwnRd)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
18	02040202120060-01	Almonesson Creek	Arsenic	01467368	2012	Water Supply		Low
18	02040202120060-01	Almonesson Creek	Oxygen, Dissolved	01467368	2010	Aquatic Life		Medium
18	02040202120060-01	Almonesson Creek	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120060-01	Almonesson Creek	Phosphorus (Total)	01467368	2014	Aquatic Life		Medium
18	02040202120060-01	Almonesson Creek	Turbidity	01467368	2012	Aquatic Life		Medium
09	02030105120120-01	Ambrose Brook (below Lake Nelson)	Cause Unknown	AN0425, AN0425A	2006	Aquatic Life		Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Cause Unknown	NB224/219/214/211/210/209/208/230/229	2007	Aquatic Life		Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Chlordane in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Dieldrin	HEP	2008	Fish Consumption	L	Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
07	02030104050120-01	Arthur Kill waterfront (below Grasselli)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
20	02040201100010-01	Assiscunk Ck (above Rt 206)	Arsenic	01464577	2008	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
20	02040201100010-01	Assiscunk Ck (above Rt 206)	Total Suspended Solids (TSS)	01464577	2010	Aquatic Life	R	Medium
20	02040201100060-01	Assiscunk Ck (below Neck Rd)	Escherichia coli	BFBM000013	2012	Recreation		Medium
20	02040201100060-01	Assiscunk Ck (below Neck Rd)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201100040-01	Assiscunk Ck (Jacksonville rd to Rt 206)	Arsenic	01464588, 20-as-1	2006	Water Supply		Low
20	02040201100040-01	Assiscunk Ck (Jacksonville rd to Rt 206)	Cause Unknown	AN0141	2008	Aquatic Life		Low
20	02040201100050-01	Assiscunk Ck (Neck Rd to Jacksonville rd)	Arsenic	01464588, 20-as-1	1998	Water Supply		Low
20	02040201100050-01	Assiscunk Ck (Neck Rd to Jacksonville rd)	Cause Unknown	AN0141	2008	Aquatic Life		Low
20	02040201100050-01	Assiscunk Ck (Neck Rd to Jacksonville rd)	Escherichia coli	BFBM000053	2012	Recreation		Medium
20	02040201100050-01	Assiscunk Ck (Neck Rd to Jacksonville rd)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
11	02040105230010-01	Assunpink Ck (above Assunpink Lake)	Arsenic	01463520	2012	Water Supply		Low
11	02040105230010-01	Assunpink Ck (above Assunpink Lake)	Escherichia coli	01463520	2012	Recreation		Medium
11	02040105230010-01	Assunpink Ck (above Assunpink Lake)	Phosphorus (Total)	01463520	2012	Aquatic Life		Medium
11	02040105240060-01	Assunpink Ck (below Shipetaukin Ck)	Arsenic	01463610, 01464020, 11-as-3	1998	Water Supply		Low
11	02040105240060-01	Assunpink Ck (below Shipetaukin Ck)	Lead	01463610, 01464020, 11-as-3	2010	Water Supply		Low
11	02040105240060-01	Assunpink Ck (below Shipetaukin Ck)	Mercury in Fish Tissue	Assunpink Creek	2010	Fish Consumption		Low
11	02040105240060-01	Assunpink Ck (below Shipetaukin Ck)	Phosphorus (Total)	01464020	2010	Aquatic Life		Medium
11	02040105230020-01	Assunpink Ck (NewSharonBr to/incl Lake)	Arsenic	01463568	2012	Water Supply		Low
11	02040105230020-01	Assunpink Ck (NewSharonBr to/incl Lake)	PCB in Fish Tissue	Assunpink Lake, Assunpink Creek	2012	Fish Consumption	L	Low
11	02040105230020-01	Assunpink Ck (NewSharonBr to/incl Lake)	Phosphorus (Total)	01463568	2010	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
11	02040105230020-01	Assunpink Ck (NewSharonBr to/incl Lake)	Total Suspended Solids (TSS)	01463568	2010	Aquatic Life		Medium
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	Arsenic	01463610, 01463620, 11-as-2	1998	Water Supply		Low
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	Cause Unknown	AN0109	2006	Aquatic Life		Low
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	Chlordane in Fish Tissue	Mercer Co. Park Lake	2014	Fish Consumption	L	Low
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	Escherichia coli	01463610	2014	Recreation		Medium
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	Mercury in Fish Tissue	Assunpink Lake, Mercer Co. Park Lake, Assunpink Cree	2006	Fish Consumption		Low
11	02040105230050-01	Assunpink Ck (Shipetaukin to Trenton Rd)	PCB in Fish Tissue	Assunpink Lake, Mercer Co. Park Lake, Assunpink Cree	2012	Fish Consumption	L	Low
11	02040105230040-01	Assunpink Ck (TrentonRd to NewSharonBr)	Arsenic	01463610, 11-as-4	1998	Water Supply		Low
11	02040105230040-01	Assunpink Ck (TrentonRd to NewSharonBr)	Cause Unknown	AN0109	2006	Aquatic Life		Low
11	02040105230040-01	Assunpink Ck (TrentonRd to NewSharonBr)	Escherichia coli	01463610	2008	Recreation		Medium
11	02040105230040-01	Assunpink Ck (TrentonRd to NewSharonBr)	PCB in Fish Tissue	Mercer Co. Park Lake, Assunpink Lake	2014	Fish Consumption	L	Low
16	02040302940010-01	Atl Coast(34th St to Corson Inl)	Oxygen, Dissolved	JC85E, JC85G, A85A2, A87A	2006	Aquatic Life		Medium
15	02040302920010-01	Atl Coast(Absecon In to Ventnor)	Oxygen, Dissolved	A74A, JC75E, JC75G	2006	Aquatic Life		Medium
13	02040301920010-01	Atl Coast(Barnegat to Surf City)	Oxygen, Dissolved	JC61E	2006	Aquatic Life		Medium
16	02040302940050-01	Atl Coast(CM Inlet to Cape May Pt)	Oxygen, Dissolved	JC99, A110B, A107A	2006	Aquatic Life		Medium
16	02040302940020-01	Atl Coast(Corson to Townsends In)	Oxygen, Dissolved	JC87	2010	Aquatic Life		Medium
15	02040302930010-01	Atl Coast(Great Egg to 34th St)	Oxygen, Dissolved	A81B, JC81	2006	Aquatic Life		Medium
13	02040301920030-01	Atl Coast(Haven Bch to Lit Egg)	Oxygen, Dissolved	JC69G, JC69E	2006	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
16	02040302940040-01	Atl Coast(Hereford to Cape May In)	Oxygen, Dissolved	A105A2, A101A, JC92	2006	Aquatic Life		Medium
13	02040301910020-01	Atl Coast(Herring Is to Rt 37)	Oxygen, Dissolved	JC44	2006	Aquatic Life		Medium
14	02040302910010-01	Atl Coast(Ltl Egg to Absecon In)	Oxygen, Dissolved	JC69E, JC69G, JC75E, JC75G	2006	Aquatic Life		Medium
13	02040301910010-01	Atl Coast(Manasquan/Herring Is)	Oxygen, Dissolved	JC41G, JC37, JC41E, JC41	2006	Aquatic Life		Medium
12	02030104920020-01	Atl Coast(Navesink R to WhalePond)	Oxygen, Dissolved	JC14E, JC14G	2006	Aquatic Life		Medium
16	02040303060201-01	Atl Coast(off Cape May Pt)	Oxygen, Dissolved	A110B, A107A, JC99	2010	Aquatic Life		Medium
13	02040301910030-01	Atl Coast(Rt 37 to Barnegat Inlet)	Oxygen, Dissolved	JC53E, JC61G, JC53G	2006	Aquatic Life		Medium
12	02030104920010-01	Atl Coast(Sandy H to Navesink R)	Oxygen, Dissolved	JC03, JC05, NYB20	2006	Aquatic Life		Medium
12	02030104930020-01	Atl Coast(Shark R to Manasquan)	Oxygen, Dissolved	JC27, JC26	2006	Aquatic Life		Medium
13	02040301920020-01	Atl Coast(Surf City to Haven Be)	Oxygen, Dissolved	JC65	2006	Aquatic Life		Medium
16	02040302940030-01	Atl Coast(Townsend's to Hereford In)	Oxygen, Dissolved	JC90E, A93A2, A94A, A94A2, JC89, JC90G, 3310	2010	Aquatic Life		Medium
15	02040302920020-01	Atl Coast(Ventnor to Great Egg)	Oxygen, Dissolved	A77B, JC79	2006	Aquatic Life		Medium
12	02030104930010-01	Atl Coast(Whale Pond to Shark R)	Oxygen, Dissolved	JC27G, JC27E, JC21	2006	Aquatic Life		Medium
15	02040302050020-01	Babcock Creek (GEHR)	pH	01411196, LJALEIPZ	2002	Aquatic Life		Medium
08	02030105030050-01	Back Brook	Cause Unknown	AN0334, AN0335, SBWA18	2006	Aquatic Life		Low
08	02030105030050-01	Back Brook	Escherichia coli	BFBM000009	2012	Recreation	R	Medium
20	02040201070010-01	Back Creek (above Yardville-H Sq Road)	Phosphorus (Total)	01464523	2006	Aquatic Life		Medium
17	02040206100030-01	Back Creek (Sea Breeze Rd to Cedar Ck)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100030-01	Back Creek (Sea Breeze Rd to Cedar Ck)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
09	02030105150050-01	Barclay Brook	Escherichia coli	01405285	2010	Recreation		Medium
09	02030105150050-01	Barclay Brook	pH	01405285, BaB1	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
20	02040201100020-01	Barkers Brook (above 40d02m30s)	Arsenic	01464583	2008	Water Supply		Low
20	02040201100020-01	Barkers Brook (above 40d02m30s)	Oxygen, Dissolved	01464583	2014	Aquatic Life		Medium
13	BarnegatBay05	Barnegat Bay Central West	Oxygen, Dissolved	BB07a	2014	Aquatic Life		Medium
19	02040202060040-01	Barton Run (above Kettle Run Road)	Arsenic	01465865	2008	Water Supply		Low
19	02040202060040-01	Barton Run (above Kettle Run Road)	Oxygen, Dissolved	01465865	2008	Aquatic Life		Medium
19	02040202060040-01	Barton Run (above Kettle Run Road)	pH	01465865	2006	Aquatic Life		Medium
19	02040202060050-01	Barton Run (below Kettle Run Road)	Arsenic	01465865	2008	Water Supply		Low
19	02040202060050-01	Barton Run (below Kettle Run Road)	Oxygen, Dissolved	01465865	2008	Aquatic Life		Medium
19	02040202060050-01	Barton Run (below Kettle Run Road)	pH	01465865, WBAJENNS, WBLRT544, Kings Grant Lake	2004	Aquatic Life		Medium
19	02040202060050-01	Barton Run (below Kettle Run Road)	Phosphorus (Total)	Kings Grant Lake	2010	Aquatic Life		Medium
14	02040301200050-01	Bass River EB	Arsenic	01410150, 14-ebr-1	2012	Water Supply	A	Low
14	02040301200050-01	Bass River EB	DDT and its metabolites in Fish Tissue	Lake Absegami	2010	Fish Consumption	L	Low
14	02040301200050-01	Bass River EB	PCB in Fish Tissue	Lake Absegami	2010	Fish Consumption	L	Low
14	02040301150010-01	Batsto River (above Hampton Gate)	pH	BBACARRZ, BHOBUTTR	2006	Aquatic Life		Medium
14	02040301150080-01	Batsto River (Batsto gage to Quaker Bridge)	pH	01409470, 01409500, BBAPENNS	2002	Aquatic Life		Medium
14	02040301150050-01	Batsto River (CNJRR to Hampton Gate)	pH	01409432	2002	Aquatic Life		Medium
14	02040301150060-01	Batsto River (Quaker Bridge to CNJRR)	pH	01409470, BBALFORG	2002	Aquatic Life		Medium
10	02030105100120-01	Bear Brook (above Trenton Road)	Arsenic	01400775	2008	Water Supply		Low
10	02030105100120-01	Bear Brook (above Trenton Road)	Escherichia coli	01400775	2008	Recreation		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
10	02030105100130-01	Bear Brook (below Trenton Road)	Arsenic	01400775, 01400808	2008	Water Supply		Low
10	02030105100130-01	Bear Brook (below Trenton Road)	Escherichia coli	01400775, 01400808	2008	Recreation		Medium
10	02030105100130-01	Bear Brook (below Trenton Road)	Oxygen, Dissolved	01400808, BBB2-GMP	2010	Aquatic Life		Medium
10	02030105100130-01	Bear Brook (below Trenton Road)	Phosphorus (Total)	01400808, BBB1-GMPi	2012	Aquatic Life		High
01	02040105080010-01	Bear Brook (Sussex/Warren Co)	Cause Unknown	AN0040A	2006	Aquatic Life		Low
01	02040105080010-01	Bear Brook (Sussex/Warren Co)	Escherichia coli	01445160	2012	Recreation		Medium
19	02040202060060-01	Bear Swamp River	Cause Unknown	AN0159	2010	Aquatic Life		Low
08	02030105020050-01	Beaver Brook (Clinton)	Escherichia coli	BFBM000043	2012	Recreation		Medium
08	02030105020050-01	Beaver Brook (Clinton)	pH	BvB1	2010	Aquatic Life, Aquatic Life - Trout		Medium
08	02030105020050-01	Beaver Brook (Clinton)	Phosphorus (Total)	01396812, BvB1	2006	Aquatic Life, Aquatic Life - Trout		High
08	02030105020050-01	Beaver Brook (Clinton)	Temperature, water	BvB1	2010	Aquatic Life - Trout		Medium
06	02030103030110-01	Beaver Brook (Morris County)	Arsenic	01380100	2012	Water Supply		Low
06	02030103030110-01	Beaver Brook (Morris County)	Cause Unknown	AN0246	2012	Aquatic Life		Low
18	02040202160040-01	Beaver Creek (Oldmans Creek)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
02	02020007010060-01	Beaver Run	Cause Unknown	AN0301	2006	Aquatic Life		Low
13	02040301040010-01	Beaverdam Creek	Cause Unknown	AN0513	2008	Aquatic Life		Low
10	02030105110040-01	Beden Brook (above Province Line Rd)	Arsenic	01401520, 10-bed-1	2012	Water Supply		Low
10	02030105110040-01	Beden Brook (above Province Line Rd)	Escherichia coli	01401520	2010	Recreation	R	Medium
10	02030105110050-01	Beden Brook (below Province Line Rd)	Arsenic	01401600, 10-bed-2, 10-bed-3	2004	Water Supply		Low
10	02030105110050-01	Beden Brook (below Province Line Rd)	Phosphorus (Total)	01401600	2002	Aquatic Life		High
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Arsenic	Berry's Creek Reach 02030103-034	1998	Fish Consumption		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Cadmium	Berry's Creek Reach 02030103-034	1998	Aquatic Life, Fish Consumption		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Copper	Berry's Creek Reach 02030103-034	1998	Aquatic Life		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Dieldrin	HEP	2007	Fish Consumption	L	Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Heptachlor epoxide	HEP	2014	Fish Consumption	L	Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Lead	Berry's Creek Reach 02030103-034	1998	Aquatic Life		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	Mercury in Fish Tissue	HEP	1998	Fish Consumption		Low
05	02030103180060-01	Berrys Creek (above Paterson Ave)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Arsenic	Berry's Creek Reach 02030103-034	1998	Fish Consumption		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Chromium (total)	Adjacent to Berry's Creek Reach 02030103-034-0.11	1998	Fish Consumption		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Copper	Berry's Creek Reach 02030103-034	1998	Aquatic Life		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Dieldrin	HEP	2007	Fish Consumption	L	Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Heptachlor epoxide	HEP	2014	Fish Consumption	L	Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Lead	Berry's Creek Reach 02030103-034	1998	Aquatic Life		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	Mercury in Fish Tissue	HEP	1998	Fish Consumption		Low
05	02030103180070-01	Berrys Creek (below Paterson Ave)	PCB in Fish Tissue	HEP	1998	Fish Consumption	L	Low
16	02040206230010-01	Bidwell Creek (above Rt 47)	Oxygen, Dissolved	R39	2004	Aquatic Life		Medium
16	02040206230010-01	Bidwell Creek (above Rt 47)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
16	02040206230020-01	Bidwell Creek (below Rt 47)- Dias to GoshenCk	Oxygen, Dissolved	R39	2006	Aquatic Life		Medium
16	02040206230020-01	Bidwell Creek (below Rt 47)- Dias to GoshenCk	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
12	02030104070030-01	Big Brook	Arsenic	01407280, 01407320	2012	Water Supply		Low
12	02030104070030-01	Big Brook	Mercury in Water Column	01407320	2014	Water Supply		Low
12	02030104070030-01	Big Brook	pH	01407320 01407280, MCHD-21	2010	Aquatic Life		Medium
12	02030104070030-01	Big Brook	Phosphorus (Total)	01407320, MCHD-21	2002	Aquatic Life		Medium
01	02040104140010-01	Big Flat Brook (above Forked Brook)	PCB in Fish Tissue	Saw Mill Lake	2014	Fish Consumption	L	Low
01	02040104140040-01	Big Flat Brook (Confluence to Kittle Rd)	Arsenic	01439830	2012	Water Supply		Low
01	02040104140040-01	Big Flat Brook (Confluence to Kittle Rd)	Temperature, water	01439830	2012	Aquatic Life - Trout		Medium
18	02040202120080-01	Big Timber Creek (below NB/SB confl)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120010-01	Big Timber Creek NB (above Laurel Rd)	Arsenic	01467359	2012	Water Supply		Low
18	02040202120010-01	Big Timber Creek NB (above Laurel Rd)	Phosphorus (Total)	01467359	2002	Aquatic Life		Medium
18	02040202120020-01	Big Timber Creek NB (below Laurel Rd)	Arsenic	01467359	2012	Water Supply		Low
18	02040202120020-01	Big Timber Creek NB (below Laurel Rd)	Phosphorus (Total)	01467359	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202120050-01	Big Timber Creek SB (below Bull Run)	PCB in Fish Tissue	Big Timber Creek, Delaware River Tribs to Head of T	2006	Fish Consumption	L	Low
18	02040202120050-01	Big Timber Creek SB (below Bull Run)	Phosphorus (Total)	01467331	2002	Aquatic Life		Medium
18	02040202120040-01	Big Timber Creek SB (incl Bull Run to LakelandRd)	Arsenic	01467329, 18-big-1	2006	Water Supply		Low
18	02040202150070-01	Birch Creek	PCB in Fish Tissue	Raccoon Creek	2014	Fish Consumption	L	Low
19	02040202030080-01	Bisphams Mill Creek (below McDonalds Br)	Phosphorus (Total)	Lebanon Lake	2014	Aquatic Life		Medium
06	02030103010060-01	Black Brook (Great Swamp NWR)	Arsenic	01378855, 01378895	2012	Water Supply		Low
06	02030103010060-01	Black Brook (Great Swamp NWR)	Oxygen, Dissolved	01378895, BB2	2008	Aquatic Life		Medium
06	02030103010060-01	Black Brook (Great Swamp NWR)	Total Dissolved Solids (TDS)	GSWA BB2	2008	Water Supply		Medium
02	02020007040010-01	Black Creek (above/incl G.Gorge Resort trib)	Phosphorus (Total)	Wallkill F	2014	Aquatic Life, Aquatic Life - Trout		Medium
02	02020007040020-01	Black Creek (below G. Gorge Resort trib)	Arsenic	01368950	2012	Water Supply		Low
02	02020007040020-01	Black Creek (below G. Gorge Resort trib)	Oxygen, Dissolved	01368950, Wallkill G	2006	Aquatic Life		Medium
13	02040301070050-01	Blacks Branch (above 74d22m05s)	Cause Unknown	AN0529	2012	Aquatic Life		Low
13	02040301070050-01	Blacks Branch (above 74d22m05s)	Escherichia coli	AN0529	2014	Recreation		Medium
20	02040201080030-01	Blacks Creek (below Bacons Run)	Escherichia coli	01464532	2008	Recreation		Medium
20	02040201080030-01	Blacks Creek (below Bacons Run)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201080030-01	Blacks Creek (below Bacons Run)	Phosphorus (Total)	01464532	2006	Aquatic Life		Medium
20	02040201080030-01	Blacks Creek (below Bacons Run)	Total Suspended Solids (TSS)	01464532	2006	Aquatic Life		Medium
17	02040206140040-01	Blackwater Branch (above/incl Pine Br)	Arsenic	01411495	2012	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206140040-01	Blackwater Branch (above/incl Pine Br)	Mercury in Water Column	01411495	2008	Water Supply		Low
17	02040206140050-01	Blackwater Branch (below Pine Branch)	Arsenic	01411495	2012	Water Supply		Low
17	02040206140050-01	Blackwater Branch (below Pine Branch)	Mercury in Water Column	01411495	2008	Water Supply		Low
01	02040105050020-01	Blair Creek	Temperature, water	AN0027	2014	Aquatic Life - Trout		Medium
14	02040301160100-01	Blue Anchor Brook	pH	0140940950, NBLSPRNG, Anchor Lake One	2002	Aquatic Life		Medium
19	02040202070010-01	Bobbys Run	Cause Unknown	AN0171A	2008	Aquatic Life		Low
19	02040202070010-01	Bobbys Run	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
09	02030105120100-01	Bound Brook (below fork at 74d 25m 15s)	Dioxin (including 2, 3, 7, 8-TCDD)	Bound Bk at New Market Pond, New Market Pond	2008	Fish Consumption		Low
09	02030105120100-01	Bound Brook (below fork at 74d 25m 15s)	PCB in Fish Tissue	New Market Pond, Bound Brook	2006	Fish Consumption	L	Low
09	02030105120100-01	Bound Brook (below fork at 74d 25m 15s)	Phosphorus (Total)	01403385	2002	Aquatic Life		Medium
12	02030104080030-01	Branchport Creek	DDT and its metabolites in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080030-01	Branchport Creek	Mercury in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080030-01	Branchport Creek	Oxygen, Dissolved	MCHD-45, MCHD-47, 1135B	2006	Aquatic Life		Medium
12	02030104080030-01	Branchport Creek	PCB in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
17	02040206100020-01	Bridges Sticks Creek / Ogden Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100020-01	Bridges Sticks Creek / Ogden Creek	Total Coliform	Shellfish Network	2014	Shellfish		Medium
01	02040105110020-01	Buckhorn Creek (incl UDRV)	Temperature, water	BFBM000182	2014	Aquatic Life - Trout		Medium
17	02040206170050-01	Buckshutem Creek (below Rt 555)	Arsenic	01411955	2012	Water Supply	A	Low
17	02040206170050-01	Buckshutem Creek (below Rt 555)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206170050-01	Buckshutem Creek (below Rt 555)	Phosphorus (Total)	Laurel Lake	2014	Aquatic Life		Medium
17	02040206140020-01	Burnt Mill Branch / Hudson Branch	Arsenic	01411483, 17-hud-1	2004	Water Supply		Low
17	02040206140020-01	Burnt Mill Branch / Hudson Branch	pH	01411483	2010	Aquatic Life		Medium
19	02040202050010-01	Burrs Mill Bk (above 39d51m30s road)	Arsenic	01465808	2008	Water Supply		Low
19	02040202050010-01	Burrs Mill Bk (above 39d51m30s road)	Oxygen, Dissolved	01465808	2006	Aquatic Life		Medium
19	02040202050020-01	Burrs Mill Bk (Burnt Br Br- 39-51-30 rd)	Arsenic	01465808	2008	Water Supply		Low
19	02040202050020-01	Burrs Mill Bk (Burnt Br Br- 39-51-30 rd)	Oxygen, Dissolved	01465808	2006	Aquatic Life		Medium
19	02040202050030-01	Burrs Mill Bk (BurrsMill to Burnt Br Br)	Arsenic	01465808	2008	Water Supply		Low
19	02040202050030-01	Burrs Mill Bk (BurrsMill to Burnt Br Br)	Oxygen, Dissolved	01465808	2006	Aquatic Life		Medium
08	02030105020060-01	Capepoulin Creek	DDT and its metabolites in Fish Tissue	Capepoulin Creek Reach 02030105-043-0.00	2006	Fish Consumption	L	Low
06	02030103010140-01	Canoe Brook	Arsenic	01379525	2012	Water Supply		Low
06	02030103010140-01	Canoe Brook	Total Dissolved Solids (TDS)	01379525, 01379530	2012	Water Supply		Medium
17	02040206070040-01	Canton Drain (below Maskell Mill)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206070040-01	Canton Drain (below Maskell Mill)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
16	02040302080040-01	Cape May Bays (Reubens Wharf-BigElderCk)	Oxygen, Dissolved	3215A, 3214B, 3201, 3127C	2010	Aquatic Life		Medium
16	02040302080070-01	Cape May Bays (Rt 47 to Reubens Wharf)	Oxygen, Dissolved	3307N, 3409H, 3509B, 3504A, 3307B, 3411E, 3312	2010	Aquatic Life		Medium
16	02040302080050-01	Cape May Courthouse tribs	Cause Unknown	WACROOK2	2014	Aquatic Life		Low
16	02040302080090-01	Cape May Harbor & Bays (below Rt 47)	Oxygen, Dissolved	3516C, 3617A	2010	Aquatic Life		Medium
17	02040206100040-01	Cedar Creek (above Rt 553)	Arsenic	01412250	2012	Water Supply	A	Low
17	02040206100040-01	Cedar Creek (above Rt 553)	Mercury in Fish Tissue	Cedar Lake	2008	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206100040-01	Cedar Creek (above Rt 553)	Phosphorus (Total)	Lummis Lake	2014	Aquatic Life		Medium
17	02040206100040-01	Cedar Creek (above Rt 553)	Turbidity	01412250	2012	Aquatic Life		Medium
17	02040206100050-01	Cedar Creek (below Rt 553)	PCB in Fish Tissue	Delaware Bay Tribs	2008	Fish Consumption	L	Low
17	02040206100050-01	Cedar Creek (below Rt 553)	Turbidity	01412250	2012	Aquatic Life		Medium
13	02040301130040-01	Cedar Run	Arsenic	01409255	2012	Water Supply	A	Low
13	02040301130040-01	Cedar Run	Cause Unknown	AN0556	2014	Aquatic Life		Low
08	02030105070020-01	Chambers Brook	Cause Unknown	AN0372, AN0373	2006	Aquatic Life		Low
12	02030104060010-01	Cheesequake Creek / Whale Creek	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060010-01	Cheesequake Creek / Whale Creek	DDT and its metabolites in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060010-01	Cheesequake Creek / Whale Creek	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
12	02030104060010-01	Cheesequake Creek / Whale Creek	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060010-01	Cheesequake Creek / Whale Creek	Total Coliform	Shellfish Network	2014	Shellfish		Medium
18	02040202130030-01	Chestnut Branch (above Sewell)	Phosphorus (Total)	Alcyon Lake	2008	Aquatic Life		Medium
12	02030104060040-01	Chingarora Creek to Thorns Creek	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060040-01	Chingarora Creek to Thorns Creek	DDT and its metabolites in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060040-01	Chingarora Creek to Thorns Creek	Enterococcus	36	2008	Recreation		Medium
12	02030104060040-01	Chingarora Creek to Thorns Creek	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
12	02030104060040-01	Chingarora Creek to Thorns Creek	Oxygen, Dissolved	MCHD-36	2014	Aquatic Life		Medium
12	02030104060040-01	Chingarora Creek to Thorns Creek	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060040-01	Chingarora Creek to Thorns Creek	Total Coliform	Shellfish Network	2014	Shellfish		Medium
14	02040301160090-01	Clark Branch (above/incl Price Branch)	Oxygen, Dissolved	0140940480	2014	Aquatic Life		Medium
03	02030103050040-01	Clinton Reservoir/Mossmans Brook	Arsenic	01382280	2012	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
03	02030103050040-01	Clinton Reservoir/Mossmans Brook	Temperature, water	AN0260	2012	Aquatic Life - Trout		Medium
01	02040104090020-01	Clove Brook (Delaware R)	Cause Unknown	AN0002	2014	Aquatic Life		Low
01	02040104090020-01	Clove Brook (Delaware R)	PCB in Fish Tissue	Steenykill Lake, Montague Lake	2012	Fish Consumption	L	Low
02	02020007020060-01	Clove Brook (Papakating Ck)	Escherichia coli	01367880	2006	Recreation	R	Medium
02	02020007020060-01	Clove Brook (Papakating Ck)	Temperature, water	AN0308	2006	Aquatic Life - Trout	R	Medium
17	02040206090060-01	Cohansey R (75d15m to/incl Rocaps Run)	Oxygen, Dissolved	R47	2014	Aquatic Life		Medium
17	02040206090060-01	Cohansey R (75d15m to/incl Rocaps Run)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206090070-01	Cohansey R (75d17m50s to 75d15m)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206090100-01	Cohansey R (below Greenwich)	Chlordane in Fish Tissue	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090100-01	Cohansey R (below Greenwich)	DDT and its metabolites in Fish Tissue	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090100-01	Cohansey R (below Greenwich)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206090080-01	Cohansey R (Greenwich to 75d17m50s)	Chlordane in Fish Tissue	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090080-01	Cohansey R (Greenwich to 75d17m50s)	DDT and its metabolites in Fish Tissue	Cohansey River at Greenwich	2006	Fish Consumption	L	Low
17	02040206090080-01	Cohansey R (Greenwich to 75d17m50s)	Mercury in Fish Tissue	Cohansey River at Greenwich	2006	Fish Consumption		Low
17	02040206090080-01	Cohansey R (Greenwich to 75d17m50s)	PCB in Fish Tissue	Cohansey River at Greenwich	2008	Fish Consumption	L	Low
17	02040206090030-01	Cohansey R (Rocaps Run to Cornwell Run)	Oxygen, Dissolved	R47	2012	Aquatic Life		Medium
17	02040206090030-01	Cohansey R (Rocaps Run to Cornwell Run)	PCB in Fish Tissue	Delaware Bay Tribs	2008	Fish Consumption	L	Low
15	02040302040050-01	Collings Lakes trib (Hospitality Branch)	pH	HMAPINEY, HMAUNEXS, HMAALBER, HMABLUEA	2006	Aquatic Life		Medium
17	02040206060010-01	Cool Run	Cause Unknown	AN0700	2014	Aquatic Life		Low
18	02040202110030-01	Cooper River (above Evesham Road)	Arsenic	01467150, 18-co-4	2006	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202110030-01	Cooper River (above Evesham Road)	Chlordane in Fish Tissue	Kirkwood Lake, Linden Lake	2012	Fish Consumption	L	Low
18	02040202110030-01	Cooper River (above Evesham Road)	DDT and its metabolites in Fish Tissue	Kirkwood Lake, Linden Lake	2006	Fish Consumption	L	Low
18	02040202110030-01	Cooper River (above Evesham Road)	Lead	01467150, 18-co-4	2007	Water Supply		Low
18	02040202110030-01	Cooper River (above Evesham Road)	PCB in Fish Tissue	Kirkwood Lake, Linden Lake	2008	Fish Consumption	L	Low
18	02040202110030-01	Cooper River (above Evesham Road)	Tetrachloroethylene	01467150, 18-co-4	1998	Water Supply		Low
18	02040202110030-01	Cooper River (above Evesham Road)	Trichloroethylene	01467150, 18-co-4	1998	Water Supply		Low
18	02040202110060-01	Cooper River (below Rt 130)	Arsenic	01467190, 18-co-1	2006	Water Supply		Low
18	02040202110060-01	Cooper River (below Rt 130)	DDT and its metabolites in Fish Tissue	Cooper River (Hwy. 130)	2006	Fish Consumption	L	Low
18	02040202110060-01	Cooper River (below Rt 130)	Escherichia coli	Cooper River near Mouth, Cooper River at Cuthbert Blvd	2012	Recreation		Medium
18	02040202110060-01	Cooper River (below Rt 130)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202110060-01	Cooper River (below Rt 130)	Tetrachloroethylene	01467190, 18-co-1	1998	Water Supply		Low
18	02040202110060-01	Cooper River (below Rt 130)	Trichloroethylene	01467190, 18-co-1	1998	Water Supply		Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Arsenic	01467150, 18-co-1, 18-co-4	1998	Water Supply		Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Chlordane in Fish Tissue	Cooper River at mouth of Evans Pond	2008	Fish Consumption	L	Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	DDT and its metabolites in Fish Tissue	Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Escherichia coli	Cooper River near Mouth, Cooper River at Cuthbert Blvd	2010	Recreation		Medium
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Lead	01467150, 18-co-4	2007	Water Supply		Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	PCB in Fish Tissue	Cooper River Park Lake, Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	pH	Cooper River Lake	2008	Aquatic Life		Medium
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Tetrachloroethylene	01467190, 18-co-1	1998	Water Supply		Low
18	02040202110050-01	Cooper River (Rt 130 to Wallworth gage)	Trichloroethylene	01467190, 18-co-1	1998	Water Supply		Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	Arsenic	01467150, 18-co-4	1998	Water Supply		Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	Chlordane in Fish Tissue	Evans Pond, Cooper River at mouth of Evans Pond	2008	Fish Consumption	L	Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	DDT and its metabolites in Fish Tissue	Evans Pond, Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	Lead	01467150, 18-co-4	2007	Water Supply		Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	PCB in Fish Tissue	Evans Pond, Cooper River at mouth of Evans Pond	2006	Fish Consumption	L	Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	Tetrachloroethylene	01467150, 18-co-4	1998	Water Supply		Low
18	02040202110040-01	Cooper River (Wallworth gage to Evesham Rd)	Trichloroethylene	01467150, 18-co-4	1998	Water Supply		Low
18	02040202110010-01	Cooper River NB (above Springdale Road)	Arsenic	01467155, 18-co-2	2004	Water Supply		Low
18	02040202110010-01	Cooper River NB (above Springdale Road)	DDT and its metabolites in Fish Tissue	Cooper River	2006	Fish Consumption	L	Low
18	02040202110010-01	Cooper River NB (above Springdale Road)	Oxygen, Dissolved	01467155	2008	Aquatic Life		Medium
18	02040202110010-01	Cooper River NB (above Springdale Road)	PCB in Fish Tissue	Cooper River	2006	Fish Consumption	L	Low
18	02040202110020-01	Cooper River NB (below Springdale Road)	Arsenic	01467181	2006	Water Supply	A	Low
18	02040202110020-01	Cooper River NB (below Springdale Road)	DDT and its metabolites in Fish Tissue	Cooper River	2006	Fish Consumption	L	Low
18	02040202110020-01	Cooper River NB (below Springdale Road)	PCB in Fish Tissue	Cooper River	2006	Fish Consumption	L	Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
16	02040302080020-01	Corson Inlet & Sound / Ludlam Bay	Oxygen, Dissolved	3103A, 3105A, 3115, 3122A	2010	Aquatic Life		Medium
16	02040206230060-01	Cox Hall Creek / Mickels Run (to Villas)	Arsenic	01411397	2014	Water Supply		Low
16	02040206230060-01	Cox Hall Creek / Mickels Run (to Villas)	Oxygen, Dissolved	01411397	2006	Aquatic Life		Medium
16	02040206230060-01	Cox Hall Creek / Mickels Run (to Villas)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230060-01	Cox Hall Creek / Mickels Run (to Villas)	Turbidity	01411397	2010	Aquatic Life		Medium
20	02040201090010-01	Crafts Creek (above Rt 206)	Escherichia coli	BFBM000021	2012	Recreation		Medium
20	02040201090010-01	Crafts Creek (above Rt 206)	Phosphorus (Total)	01464537	2006	Aquatic Life		Medium
20	02040201090020-01	Crafts Creek (below Rt 206)	Arsenic	01464540	2008	Water Supply		Low
20	02040201090020-01	Crafts Creek (below Rt 206)	Cause Unknown	AN0137	2012	Aquatic Life		Low
20	02040201090020-01	Crafts Creek (below Rt 206)	Escherichia coli	BFBM000002	2012	Recreation		Medium
20	02040201090020-01	Crafts Creek (below Rt 206)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
01	02040105150060-01	Cranberry Lake / Jefferson Lake & tribs	PCB in Fish Tissue	Cranberry Lake	2012	Fish Consumption	L	Low
10	02030105100090-01	Cranbury Brook (below NJ Turnpike)	Phosphorus (Total)	CB1PPi	2014	Aquatic Life		High
16	02040302080010-01	Crook Horn Creek (above Devils Island)	Oxygen, Dissolved	3101A, 3007A	2006	Aquatic Life		Medium
20	02040201070020-01	Crosswicks Ck (below Doctors Creek)	Arsenic	0146452360	2008	Water Supply		Low
20	02040201070020-01	Crosswicks Ck (below Doctors Creek)	Escherichia coli	BFBM000057	2012	Recreation		Medium
20	02040201070020-01	Crosswicks Ck (below Doctors Creek)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201070020-01	Crosswicks Ck (below Doctors Creek)	Phosphorus (Total)	01464523	2006	Aquatic Life		Medium
20	02040201070020-01	Crosswicks Ck (below Doctors Creek)	Total Suspended Solids (TSS)	0146452360	2006	Aquatic Life		Medium
20	02040201050070-01	Crosswicks Ck (Doctors Ck-Ellisdale trib)	Arsenic	01464504, 20-cro-2	2006	Water Supply		Low
20	02040201050070-01	Crosswicks Ck (Doctors Ck-Ellisdale trib)	Mercury in Fish Tissue	20-cro-2	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
20	02040201050070-01	Crosswicks Ck (Doctors Ck-Ellisdale trib)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201050070-01	Crosswicks Ck (Doctors Ck-Ellisdale trib)	Phosphorus (Total)	01464504	2002	Aquatic Life		Medium
20	02040201050070-01	Crosswicks Ck (Doctors Ck-Ellisdale trib)	Turbidity	01464504	2006	Aquatic Life		Medium
20	02040201050050-01	Crosswicks Ck (Ellisdale trib - Walnford)	Arsenic	01464485, 01464500, 20-cro-1	2006	Water Supply		Low
20	02040201050050-01	Crosswicks Ck (Ellisdale trib - Walnford)	Lead	01464500, 20-cro-1	2012	Water Supply		Low
20	02040201050050-01	Crosswicks Ck (Ellisdale trib - Walnford)	Phosphorus (Total)	01464500, 01464485, MCHD-2	2002	Aquatic Life		Medium
20	02040201050030-01	Crosswicks Ck (Lahaway Ck to New Egypt)	Arsenic	01464400, 01464430	2012	Water Supply		Low
20	02040201050030-01	Crosswicks Ck (Lahaway Ck to New Egypt)	Phosphorus (Total)	01464430, 01464400	2006	Aquatic Life		Medium
20	02040201040070-01	Crosswicks Ck (NewEgypt to/incl NorthRun)	Arsenic	01464380, 01464400	2008	Water Supply		Low
20	02040201040070-01	Crosswicks Ck (NewEgypt to/incl NorthRun)	Phosphorus (Total)	01464400, 01464380, Oakford Lake	2006	Aquatic Life		Medium
20	02040201050040-01	Crosswicks Ck (Walnford to Lahaway Ck)	Arsenic	01464460, 01464485	2006	Water Supply	A	Low
20	02040201050040-01	Crosswicks Ck (Walnford to Lahaway Ck)	Phosphorus (Total)	01464460, 01464485, MCHD-2	2006	Aquatic Life		Medium
10	02030105110090-01	Cruser Brook / Roaring Brook	Cause Unknown	AN0403	2012	Aquatic Life		Low
10	02030105110090-01	Cruser Brook / Roaring Brook	Escherichia coli	BFBM000037	2012	Recreation		Medium
03	02030103100060-01	Crystal Lake/Pond Brook	pH	Crystal Lake	2010	Aquatic Life		Medium
09	02030105120070-01	Cuckels Brook	Cause Unknown	AN0415	2008	Aquatic Life		Low
01	02040105040010-01	Culvers Creek	Escherichia coli	BFBM000126	2014	Recreation		Medium
01	02040105040010-01	Culvers Creek	Temperature, water	01443395	2014	Aquatic Life - Trout		Medium
13	02040301080040-01	Davenport Branch (below Pinewald Road)	Escherichia coli	AN0541	2014	Recreation		Medium
06	02030103010100-01	Dead River (below Harrisons Brook)	Oxygen, Dissolved	DR1	2010	Aquatic Life		Medium
12	02030104090030-01	Deal Lake	Chlordane in Fish Tissue	Deal Lake	2010	Fish Consumption	L	Low
12	02030104090030-01	Deal Lake	DDT and its metabolites in Fish Tissue	Deal Lake	2010	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104090030-01	Deal Lake	PCB in Fish Tissue	Deal Lake	2010	Fish Consumption	L	Low
12	02030104090030-01	Deal Lake	pH	MCHD-1	2008	Aquatic Life		Medium
09	02030105160010-01	Deep Run (above Monmouth Co line)	Escherichia coli	MCHD-90	2014	Recreation		Medium
09	02030105160010-01	Deep Run (above Monmouth Co line)	Oxygen, Dissolved	01406040	2008	Aquatic Life		Medium
17	02040206060040-01	Deep Run (Alloway)	Arsenic	01483010	2008	Water Supply	A	Low
09	02030105160040-01	Deep Run (below Rt 9)	Arsenic	01406040	2012	Water Supply		Low
09	02030105160040-01	Deep Run (below Rt 9)	Escherichia coli	BFBM000004	2012	Recreation		Medium
09	02030105160040-01	Deep Run (below Rt 9)	Oxygen, Dissolved	01406040	2008	Aquatic Life		Medium
09	02030105160040-01	Deep Run (below Rt 9)	pH	01406040	2014	Aquatic Life		Medium
15	02040302040120-01	Deep Run (GEHR)	Arsenic	01411140	2012	Water Supply	A	Low
15	02040302040120-01	Deep Run (GEHR)	pH	01411140, MDEPANCS, MDEEPR54, Pancoast Mill Pond	2006	Aquatic Life		Medium
09	02030105160020-01	Deep Run (Rt 9 to Monmouth Co line)	Oxygen, Dissolved	01406040	2008	Aquatic Life		Medium
04	02030103120060-01	Deepavaal Brook	Cause Unknown	AN0271, FIBI044	2006	Aquatic Life		Low
01	02040105060020-01	Delawanna Creek (incl UDRV)	Arsenic	01444520	2012	Water Supply		Low
01	02040105060020-01	Delawanna Creek (incl UDRV)	PCB in Fish Tissue	Delaware Lake	2012	Fish Consumption	L	Low
01	02040105060020-01	Delawanna Creek (incl UDRV)	pH	Delaware Lake	2010	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105060020-01	Delawanna Creek (incl UDRV)	Temperature, water	01444520, AN0033	2012	Aquatic Life - Trout		Medium
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Chlordane in Fish Tissue	Delaware Bay	2006	Fish Consumption	L	Low
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Copper	DRBC	2014	Aquatic Life		Low
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	DDT and its metabolites in Fish Tissue	Delaware Bay	2010	Fish Consumption	L	Low
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Dieldrin	Delaware Bay	2006	Fish Consumption	L	Low
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Mercury in Fish Tissue	Delaware Bay	2010	Fish Consumption		Low
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Oxygen, Dissolved	3826A, 3888, 3827, 3895E	2014	Aquatic Life		Medium
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	pH	DRBC	2014	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	Delaware River 6	Delaware Bay Zone 6 ( New Jersey portion)	Turbidity	DRBC	2014	Aquatic Life		Medium
01	Delaware River 2	Delaware River 1C	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
01	Delaware River 2	Delaware River 1C	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
01	Delaware River 2	Delaware River 1C	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
01	Delaware River 2	Delaware River 1C	PCB in Fish Tissue	Delaware River (DRBC)	2008	Fish Consumption	L	Low
01	Delaware River 2	Delaware River 1C	pH	DRBC	2014	Aquatic Life		Medium
01	Delaware River 8	Delaware River 1D	Aluminum	DRBC	2014	Aquatic Life		Low
01	Delaware River 8	Delaware River 1D	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
01	Delaware River 8	Delaware River 1D	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
01	Delaware River 8	Delaware River 1D	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
01	Delaware River 8	Delaware River 1D	PCB in Fish Tissue	Delaware River (DRBC)	2008	Fish Consumption	L	Low
01	Delaware River 8	Delaware River 1D	pH	DRBC	2014	Aquatic Life		Medium
11	Delaware River 14	Delaware River 1E	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
11	Delaware River 14	Delaware River 1E	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
11	Delaware River 14	Delaware River 1E	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
11	Delaware River 14	Delaware River 1E	PCB in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
11	Delaware River 14	Delaware River 1E	pH	DRBC	2008	Aquatic Life		Medium
11	Delaware River 14	Delaware River 1E	Turbidity	DRBC	2014	Aquatic Life		Medium
20	Delaware River 15	Delaware River 2	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
20	Delaware River 15	Delaware River 2	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
20	Delaware River 15	Delaware River 2	Dieldrin	Delaware River (DRBC)	2006	Fish Consumption	L	Low
20	Delaware River 15	Delaware River 2	Escherichia coli	DRBC	2014	Recreation		Medium
20	Delaware River 15	Delaware River 2	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
20	Delaware River 15	Delaware River 2	Oxygen, Dissolved	DRBC	2014	Aquatic Life		Medium
20	Delaware River 15	Delaware River 2	pH	DRBC	2014	Aquatic Life		Medium
20	Delaware River 15	Delaware River 2	Temperature, water	DRBC	2014	Aquatic Life		Medium
20	Delaware River 15	Delaware River 2	Turbidity	DRBC	2014	Aquatic Life		Medium
18	Delaware River 16	Delaware River 3	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 16	Delaware River 3	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 16	Delaware River 3	Dieldrin	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 16	Delaware River 3	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	Delaware River 16	Delaware River 3	Temperature, water	DRBC	2014	Aquatic Life		Medium
18	Delaware River 16	Delaware River 3	Turbidity	DRBC	2014	Aquatic Life		Medium
18	Delaware River 17	Delaware River 4	Aluminum	WQN0182	2014	Aquatic Life		Low
18	Delaware River 17	Delaware River 4	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 17	Delaware River 4	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 17	Delaware River 4	Dieldrin	Delaware River (DRBC)	2006	Fish Consumption	L	Low
18	Delaware River 17	Delaware River 4	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
18	Delaware River 17	Delaware River 4	Temperature, water	DRBC	2014	Aquatic Life		Medium
17	Delaware River 18	Delaware River 5	Chlordane in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
17	Delaware River 18	Delaware River 5	Copper	DRBC	2014	Aquatic Life		Low
17	Delaware River 18	Delaware River 5	DDT and its metabolites in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption	L	Low
17	Delaware River 18	Delaware River 5	Dieldrin	Delaware River (DRBC)	2006	Fish Consumption	L	Low
17	Delaware River 18	Delaware River 5	Mercury in Fish Tissue	Delaware River (DRBC)	2006	Fish Consumption		Low
17	Delaware River 18	Delaware River 5	Oxygen, Dissolved	DRBC	2014	Aquatic Life		Medium
17	Delaware River 18	Delaware River 5	Temperature, water	DRBC	2014	Aquatic Life		Medium
17	Delaware River 18	Delaware River 5	Turbidity	DRBC	2014	Aquatic Life		Medium
06	02030103030120-01	Den Brook	Arsenic	01380125	2012	Water Supply		Low
06	02030103030120-01	Den Brook	Cause Unknown	AN0247	2012	Aquatic Life		Low
16	02040206220010-01	Dennis Ck / Cedar Swamp (Rt 47 to Rt 550)	Oxygen, Dissolved	R38	2004	Aquatic Life		Medium
16	02040206220010-01	Dennis Ck / Cedar Swamp (Rt 47 to Rt 550)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206220040-01	Dennis Creek (below Jakes Landing Rd)	Oxygen, Dissolved	01411440	2006	Aquatic Life		Medium
16	02040206220040-01	Dennis Creek (below Jakes Landing Rd)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206220030-01	Dennis Creek (Jakes Landing Rd to Rt 47)	Arsenic	01411438	2012	Water Supply	A	Low
16	02040206220030-01	Dennis Creek (Jakes Landing Rd to Rt 47)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
10	02030105100110-01	Devils Brook	Arsenic	01400823	2012	Water Supply		Low
10	02030105100110-01	Devils Brook	Escherichia coli	01400823	2010	Recreation		Medium
10	02030105100110-01	Devils Brook	Oxygen, Dissolved	DB2-GP	2010	Aquatic Life		Medium
10	02030105100110-01	Devils Brook	Phosphorus (Total)	DB3-Gpo	2014	Aquatic Life		High
16	02040206230030-01	Dias Creek	Arsenic	0141140850	2014	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
16	02040206230030-01	Dias Creek	Oxygen, Dissolved	0141140850	2006	Aquatic Life		Medium
16	02040206230030-01	Dias Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230030-01	Dias Creek	Turbidity	0141140850	2014	Aquatic Life		Medium
17	02040206110050-01	Dividing Creek (above Mill Creek)	Oxygen, Dissolved	R44	2004	Aquatic Life		Medium
17	02040206110050-01	Dividing Creek (above Mill Creek)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110050-01	Dividing Creek (above Mill Creek)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206110060-01	Dividing Creek (below Mill Creek)	Oxygen, Dissolved	R44, 3840F, 3840D, 3840C, 3840B, 3840E	2006	Aquatic Life		Medium
17	02040206110060-01	Dividing Creek (below Mill Creek)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110060-01	Dividing Creek (below Mill Creek)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
20	02040201060010-01	Doctors Creek (above 74d28m40s)	Arsenic	01464512	2012	Water Supply		Low
13	02040301060050-01	Dove Mill Branch (Toms River)	Arsenic	01408290	2012	Water Supply	A	Low
13	02040301060050-01	Dove Mill Branch (Toms River)	pH	01408290	2010	Aquatic Life		Medium
08	02030105010010-01	Drakes Brook (above Eyland Ave)	Temperature, water	AN0311	2012	Aquatic Life - Trout		Medium
01	02040105040020-01	Dry Brook	Cause Unknown	AN0019, AN0020	2008	Aquatic Life		Low
20	02040201030010-01	Duck Creek and UDRV to Assunpink Ck	Mercury in Fish Tissue	Delaware River at Crosswicks Creek	2006	Fish Consumption		Low
20	02040201030010-01	Duck Creek and UDRV to Assunpink Ck	PCB in Fish Tissue	Delaware River at Crosswicks Creek	2006	Fish Consumption	L	Low
10	02030105090080-01	Duck Pond Run	Cause Unknown	AN0394	2008	Aquatic Life		Low
09	02030105160030-01	Duhernal Lake / Iresick Brook	Arsenic	01405470	2012	Water Supply		Low
09	02030105160030-01	Duhernal Lake / Iresick Brook	Oxygen, Dissolved	01405470, MnB2-DL	2010	Aquatic Life		Medium
01	02040104240020-01	Dunnfield Creek (incl UDRV)	Arsenic	01442760	2012	Water Supply		Low
05	02030103170050-01	Dwars Kill	Arsenic	01378400, 5-dwa-1	2012	Water Supply		Low
05	02030103170050-01	Dwars Kill	Escherichia coli	01378400	2008	Recreation		Medium
16	02040206210060-01	East Creek	PCB in Fish Tissue	East Creek Lake, Delaware Bay Tribs	2006	Fish Consumption	L	Low
18	02040202130050-01	Edwards Run	Arsenic	01475090	2008	Water Supply		Low
18	02040202130050-01	Edwards Run	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202130050-01	Edwards Run	Phosphorus (Total)	01475090	2004	Aquatic Life		Medium
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Arsenic	01393440, 01393450, 7-eli-2	2014	Water Supply		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Dieldrin	HEP	2008	Fish Consumption	L	Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Lead	01393440, 7-eli-2	2008	Water Supply		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Mercury in Fish Tissue	HEP	2008	Fish Consumption		Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	pH	NJHDG-20	2014	Aquatic Life		Medium
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Phosphorus (Total)	01393440	2010	Aquatic Life		Medium
07	02030104020030-01	Elizabeth R (below Elizabeth CORP BDY)	Total Dissolved Solids (TDS)	01393440	2010	Water Supply		Medium
07	02030104020020-01	Elizabeth R (Elizabeth CORP BDY to I-78)	Arsenic	01393440, 01393450, 7-eli-2	2014	Water Supply		Low
07	02030104020020-01	Elizabeth R (Elizabeth CORP BDY to I-78)	Lead	01393440, 7-eli-2	2007	Water Supply		Low
07	02030104020020-01	Elizabeth R (Elizabeth CORP BDY to I-78)	Phosphorus (Total)	01393350	2002	Aquatic Life		Medium
07	02030104020020-01	Elizabeth R (Elizabeth CORP BDY to I-78)	Total Dissolved Solids (TDS)	01393440	2002	Water Supply		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
20	02040201050060-01	Ellisdale trib (Crosswicks Creek)	Cause Unknown	AN0126A	2006	Aquatic Life		Low
15	02040302050090-01	English Ck / Flat Ck / Cranberry Ck	Oxygen, Dissolved	01411258	2006	Aquatic Life		Medium
17	02040206040020-01	Fenwick Creek / Keasbeys Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105210050-01	Fiddlers Creek (Jacobs Ck to Moore Ck)	Escherichia coli	BFBM000050	2012	Recreation		Medium
08	02030105030010-01	First Neshanic River	Cause Unknown	AN0330	2008	Aquatic Life		Low
17	02040206070010-01	Fishing Creek / Bucks Ditch / Pattys Fork	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206070010-01	Fishing Creek / Bucks Ditch / Pattys Fork	Total Coliform	Shellfish Network	2014	Shellfish		Medium
16	02040206230050-01	Fishing Creek / Fishing Mill Stream	Arsenic	01411400	2014	Water Supply		Low
16	02040206230050-01	Fishing Creek / Fishing Mill Stream	Cause Unknown	AN0771	2008	Aquatic Life		Low
16	02040206230050-01	Fishing Creek / Fishing Mill Stream	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
01	02040104150020-01	Flat Brook (below Tillman Brook)	Escherichia coli	01440000	2014	Recreation		Medium
01	02040104150010-01	Flat Brook (Tillman Brook to Confluence)	Escherichia coli	01440000	2008	Recreation		Medium
13	02040301110030-01	Forked River (below NB incl Mid/South Br)	Escherichia coli	BT09	2014	Recreation		Medium
13	02040301110010-01	Forked River NB (above old RR grade)	Oxygen, Dissolved	01409030	2006	Aquatic Life		Medium
17	02040206110020-01	Fortesque Ck / Fishing Ck / Straight Ck	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
13	02040301130010-01	Four Mile Branch (Mill Creek)	Cause Unknown	AN0554	2014	Aquatic Life		Low
02	02020007010030-01	Franklin Pond Creek	Temperature, water	01367693	2014	Aquatic Life - Trout		Medium
19	02040202050050-01	Friendship Creek (below/incl Burrs Mill Bk)	Arsenic	01465835, 19-ra-3s	2008	Water Supply		Low
19	02040202050050-01	Friendship Creek (below/incl Burrs Mill Bk)	Escherichia coli	01465835	2008	Recreation		Medium
01	02040105090050-01	Furnace Brook	Arsenic	01445495	2012	Water Supply		Low
01	02040105090050-01	Furnace Brook	Cause Unknown	AN0042	2006	Aquatic Life		Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040105090050-01	Furnace Brook	Mercury in Fish Tissue	Furnace Lake	2012	Fish Consumption		Low
17	02040206030050-01	Game Creek (above Rt 48)	Phosphorus (Total)	01482560	2002	Aquatic Life		Medium
17	02040206030070-01	Game Creek (below Rt 48)	Oxygen, Dissolved	01482570	2010	Aquatic Life		Medium
17	02040206030070-01	Game Creek (below Rt 48)	Phosphorus (Total)	01482570	2010	Aquatic Life		Medium
19	02040202020010-01	Gaunts Brook / Hartshorne Mill Stream	Arsenic	01465950, 01465950, 19-ra-1n	2014	Water Supply		Low
19	02040202020010-01	Gaunts Brook / Hartshorne Mill Stream	Copper	01465950, 19-ra-1n	2004	Aquatic Life		Low
19	02040202020010-01	Gaunts Brook / Hartshorne Mill Stream	Lead	01465950, 19-ra-1n	1998	Water Supply		Low
15	02040302060040-01	GEH Bay/Lakes Bay/Skull Bay/Peck Bay	Oxygen, Dissolved	2507A, 2510A, 2701B, 2712A, LKS BAY, 3002A, GEH, 2714A	2006	Aquatic Life		Medium
15	02040302040080-01	GEHR (39d32m50s to Hospitality Branch)	Copper	01411110, 15-geh-3	1998	Aquatic Life		Low
15	02040302040080-01	GEHR (39d32m50s to Hospitality Branch)	pH	01411110	2006	Aquatic Life		Medium
15	02040302030010-01	GEHR (above New Freedom Rd)	pH	01410784	2002	Aquatic Life		Medium
15	02040302030020-01	GEHR (AC Expressway to New Freedom Rd)	pH	01410784, UGREA536	2002	Aquatic Life		Medium
15	02040302030040-01	GEHR (Broad Lane road to AC Expressway)	Arsenic	01410820	2014	Water Supply		Low
15	02040302030040-01	GEHR (Broad Lane road to AC Expressway)	pH	01410820	2006	Aquatic Life		Medium
15	02040302050140-01	GEHR (GEH Bay to Gibson Ck)	Oxygen, Dissolved	2801A, 2804, 2812	2010	Aquatic Life		Medium
15	02040302030080-01	GEHR (Hospitality Br to Piney Hollow Rd)	Copper	01411000, 15-geh-2	2002	Aquatic Life		Low
15	02040302030080-01	GEHR (Hospitality Br to Piney Hollow Rd)	pH	01411000	2002	Aquatic Life		Medium
15	02040302040130-01	GEHR (Lake Lenape to Mare Run)	Copper	01411110, 15-geh-3	1998	Aquatic Life		Low
15	02040302040130-01	GEHR (Lake Lenape to Mare Run)	pH	MGREA616	2002	Aquatic Life		Medium
15	02040302040110-01	GEHR (Mare Run to Rt 322)	Copper	01411110, 15-geh-3	1998	Aquatic Life		Low
15	02040302040110-01	GEHR (Mare Run to Rt 322)	pH	01411110	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
15	02040302030060-01	GEHR (Piney Hollow Rd to Broad Lane rd)	Arsenic	01410820	2012	Water Supply	A	Low
15	02040302030060-01	GEHR (Piney Hollow Rd to Broad Lane rd)	pH	01410820	2002	Aquatic Life		Medium
15	02040302040090-01	GEHR (Rt 322 to 39d32m50s)	Copper	01411110, 15-geh-3	1998	Aquatic Life		Low
15	02040302040090-01	GEHR (Rt 322 to 39d32m50s)	pH	01411110, 01411105	2002	Aquatic Life		Medium
04	02030103120050-01	Goffle Brook	Cause Unknown	AN0277, AN0277A, FIBI035a	2010	Aquatic Life		Low
04	02030103120050-01	Goffle Brook	Total Dissolved Solids (TDS)	01389850	2006	Water Supply		Medium
15	02040302050050-01	Gravelly Run (above Gravelly Run road)	Arsenic	01411208	2012	Water Supply	A	Low
14	02040301210050-01	Great Bay tribs	Oxygen, Dissolved	1924	2012	Aquatic Life		Medium
06	02030103010030-01	Great Brook (above Green Village Rd)	Cause Unknown	AN0218, AN0219, GSWA GB2, GSWA GB3, GSWA GB4	2008	Aquatic Life		Low
06	02030103010050-01	Great Brook (below Green Village Rd)	Arsenic	01378770	2012	Water Supply		Low
06	02030103010050-01	Great Brook (below Green Village Rd)	Escherichia coli	01378770	2012	Recreation		Medium
06	02030103010050-01	Great Brook (below Green Village Rd)	Oxygen, Dissolved	GSWA GB1	2010	Aquatic Life		Medium
09	02030105130010-01	Great Ditch / Pigeon Swamp	Escherichia coli	BFBM000019	2012	Recreation		Medium
14	02040301160120-01	Great Swamp Branch (above Rt 206)	Arsenic	0140941050, 0140941070	2012	Water Supply		Low
14	02040301160120-01	Great Swamp Branch (above Rt 206)	Nitrates	0140941070	2002	Aquatic Life		Medium
14	02040301160120-01	Great Swamp Branch (above Rt 206)	Oxygen, Dissolved	0140941050, 0140941070	2012	Aquatic Life		Medium
14	02040301160120-01	Great Swamp Branch (above Rt 206)	pH	0140941050, 0140941070, NGREAR30	2002	Aquatic Life		Medium
14	02040301160120-01	Great Swamp Branch (above Rt 206)	Temperature, water	0140941050	2008	Aquatic Life		Medium
14	02040301160130-01	Great Swamp Branch (below Rt 206)	Arsenic	0140941070	2012	Water Supply		Low
14	02040301160130-01	Great Swamp Branch (below Rt 206)	Nitrates	0140941070, , 0140941075, WAGREA1	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301160130-01	Great Swamp Branch (below Rt 206)	pH	0140941075, 0140941070, WAGREA1	2002	Aquatic Life		Medium
09	02030105120010-01	Green Bk (above/incl Blue Brook)	Temperature, water	BFBM000174	2014	Aquatic Life - Trout		Medium
09	02030105120130-01	Green Bk (below Bound Brook)	Oxygen, Dissolved	NJHDG-25	2012	Aquatic Life		Medium
09	02030105120130-01	Green Bk (below Bound Brook)	PCB in Fish Tissue	Bound Brook @ Shepard Rd	2006	Fish Consumption	L	Low
09	02030105120130-01	Green Bk (below Bound Brook)	pH	NJHDG-25	2014	Aquatic Life		Medium
09	02030105120130-01	Green Bk (below Bound Brook)	Phosphorus (Total)	01403900, NJHDG-25	2002	Aquatic Life		Medium
09	02030105120130-01	Green Bk (below Bound Brook)	Total Suspended Solids (TSS)	01403900, NJHDG-25	2006	Aquatic Life		High
09	02030105120040-01	Green Bk (Bound Bk to N Plainfield gage)	pH	01403470	2014	Aquatic Life		Medium
09	02030105120020-01	Green Bk (N Plainfield gage to Blue Bk)	Arsenic	01403470	2012	Water Supply		Low
09	02030105120020-01	Green Bk (N Plainfield gage to Blue Bk)	pH	01403465, 01403470	2010	Aquatic Life		Medium
09	02030105120020-01	Green Bk (N Plainfield gage to Blue Bk)	Total Dissolved Solids (TDS)	01403465	2010	Water Supply		Medium
17	02040206140030-01	Green Branch / Endless Branch	Arsenic	01411490	2012	Water Supply	A	Low
17	02040206140030-01	Green Branch / Endless Branch	Mercury in Water Column	01411490	2010	Water Supply		Low
16	02040206230040-01	Green Ck (Norburys Landng to Pierces Pt)	Oxygen, Dissolved	01411404	2006	Aquatic Life		Medium
16	02040206230040-01	Green Ck (Norburys Landng to Pierces Pt)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206230040-01	Green Ck (Norburys Landng to Pierces Pt)	Phosphorus (Total)	01411404	2007	Aquatic Life		Medium
16	02040206230040-01	Green Ck (Norburys Landng to Pierces Pt)	Total Dissolved Solids (TDS)	01411404, 01411404	2014	Water Supply		Medium
06	02030103030060-01	Green Pond Brook (below Burnt Meadow Bk)	Cause Unknown	AN0242	2006	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202030090-01	Greenwood Br (below CountryLk & MM confl)	DDT and its metabolites in Fish Tissue	Mirror Lake, Whitesbog Pond	2010	Fish Consumption	L	Low
19	02040202030090-01	Greenwood Br (below CountryLk & MM confl)	PCB in Fish Tissue	Mirror Lake, Whitesbog Pond	2008	Fish Consumption	L	Low
19	02040202030090-01	Greenwood Br (below CountryLk & MM confl)	pH	01466900	2014	Aquatic Life		Medium
06	02030103020030-01	Greystone / Watnong Mtn tribs	Cause Unknown	AN0234A	2008	Aquatic Life		Low
05	02030103170030-01	Hackensack R (above Old Tappan gage)	Arsenic	01376970, 01377000, 5-hac-2, 5-hac-3	2004	Water Supply		Low
05	02030103170030-01	Hackensack R (above Old Tappan gage)	Mercury in Fish Tissue	Tappan Lake	2008	Fish Consumption		Low
05	02030103170030-01	Hackensack R (above Old Tappan gage)	Oxygen, Dissolved	01377000	2012	Aquatic Life		Medium
05	02030103170030-01	Hackensack R (above Old Tappan gage)	Phosphorus (Total)	01377000	2006	Aquatic Life		Medium
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Dieldrin	HEP	2007	Fish Consumption	L	Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Heptachlor epoxide	HEP	2007	Fish Consumption	L	Low
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	Oxygen, Dissolved	NJHDG-14	2006	Aquatic Life		Medium
05	02030103180090-01	Hackensack R (Amtrak bridge to Rt 3)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	DDT and its metabolites in Fish Tissue	HEP	2012	Fish Consumption	L	Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Dieldrin	HEP	2008	Fish Consumption	L	Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Heptachlor epoxide	HEP	2012	Fish Consumption	L	Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	Mercury in Fish Tissue	HEP	2007	Fish Consumption		Low
05	02030103180050-01	Hackensack R (Bellmans Ck to Ft Lee Rd)	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Dieldrin	HEP	2007	Fish Consumption	L	Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Heptachlor epoxide	HEP	2007	Fish Consumption	L	Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
05	02030103180100-01	Hackensack R (below Amtrak bridge)	Oxygen, Dissolved	NJHDG-15	2006	Aquatic Life		Medium
05	02030103180100-01	Hackensack R (below Amtrak bridge)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Arsenic	01378500, 01378567	2014	Fish Consumption		Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Chlordane in Fish Tissue	HEP	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Dieldrin	HEP	2008	Fish Consumption	L	Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Enterococcus	H161	2008	Recreation		Medium
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	pH	01378567	2012	Aquatic Life		Medium
05	02030103180030-01	Hackensack R (Ft Lee Rd to Oradell gage)	Turbidity	01378567	2008	Aquatic Life		Medium
05	02030103170060-01	Hackensack R (Oradell to OldTappan gage)	Arsenic	01378475, 01377000, 5-dor-1, 5-hac-3	2004	Water Supply		Low
05	02030103170060-01	Hackensack R (Oradell to OldTappan gage)	Mercury in Fish Tissue	Oradell Reservoir	2008	Fish Consumption		Low
05	02030103170060-01	Hackensack R (Oradell to OldTappan gage)	Oxygen, Dissolved	01377000, NJHDG-13	2008	Aquatic Life		Medium
05	02030103170060-01	Hackensack R (Oradell to OldTappan gage)	Phosphorus (Total)	01377000, 01378475, NJHDG-13	2006	Aquatic Life		Medium
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Dieldrin	HEP	2007	Fish Consumption	L	Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Heptachlor epoxide	HEP	2007	Fish Consumption	L	Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
05	02030103180080-01	Hackensack R (Rt 3 to Bellmans Ck)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
11	02040105170020-01	Hakihokake Creek	Arsenic	01458100	2012	Water Supply		Low
11	02040105170020-01	Hakihokake Creek	Temperature, water	01458100, DRBCNJ0023	2012	Aquatic Life - Trout		Medium
14	02040301170010-01	Hammonton Creek (above 74d43m)	Arsenic	01409416, 14-ham-1, 14-ham-2	1998	Water Supply		Low
14	02040301170010-01	Hammonton Creek (above 74d43m)	Copper	01409414, 01409416	2008	Aquatic Life		Low
14	02040301170010-01	Hammonton Creek (above 74d43m)	Mercury in Water Column	01409414, 14-ham-1, 14-ham-2	2014	Water Supply		Low
14	02040301170010-01	Hammonton Creek (above 74d43m)	Nitrates	01409416, 0140941580, BA34	2004	Aquatic Life		Medium
14	02040301170010-01	Hammonton Creek (above 74d43m)	pH	0140941198, 01409415, 01409414, 0140941580, LHACHEST	2006	Aquatic Life		Medium
14	02040301170010-01	Hammonton Creek (above 74d43m)	Phosphorus (Total)	01409414, 01409415, 01409416, 0140941580, HC2, HC3, BA34	2002	Aquatic Life		Medium
14	02040301170010-01	Hammonton Creek (above 74d43m)	Total Suspended Solids (TSS)	0140941580, BA34	2012	Aquatic Life		Medium
14	02040301170030-01	Hammonton Creek (below Columbia Rd)	pH	01409418	2012	Aquatic Life		Medium
14	02040301170030-01	Hammonton Creek (below Columbia Rd)	Phosphorus (Total)	01409418	2012	Aquatic Life		Medium
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	Arsenic	01409416, 14-ham-1, 14-ham-2	2006	Water Supply		Low
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	Copper	01409414, 01409416	1998	Aquatic Life		Low
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	Mercury in Water Column	01409414, 14-ham-1, 14-ham-2	2014	Water Supply		Low
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	Nitrates	01409416	2004	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	pH	01409418, 01409416, LHACHEST	2006	Aquatic Life		Medium
14	02040301170020-01	Hammonton Creek (Columbia Rd to 74d43m)	Phosphorus (Total)	01409418, 01409416	2006	Aquatic Life		Medium
17	02040206170010-01	Hankins Pond trib (Millville)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206170010-01	Hankins Pond trib (Millville)	Phosphorus (Total)	Hankins Pond	2010	Aquatic Life		Medium
02	02020007010050-01	Hardistonville tribs	Temperature, water	01367726	2014	Aquatic Life		Medium
11	02040105170030-01	Harihokake Creek (and to Hakhokake Ck)	Escherichia coli	01458300	2008	Recreation		Medium
11	02040105170030-01	Harihokake Creek (and to Hakhokake Ck)	Phosphorus (Total)	01458300	2006	Aquatic Life		Medium
17	02040206060070-01	Harmony trib (Alloway Creek)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060070-01	Harmony trib (Alloway Creek)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
06	02030103010090-01	Harrisons Brook	Cause Unknown	AN0227A	2014	Aquatic Life		Low
19	02040202060030-01	Haynes Creek (below Lake Pine)	pH	Lakes Mishe-Mokwa, Birchwood, Lwr Aetna, Stockwell	2010	Aquatic Life		Medium
14	02040301160050-01	Hays Mill Creek (above Tremont Ave)	pH	01409401, 01409402, MHAATCOL	2002	Aquatic Life		Medium
08	02030105030030-01	Headquarters trib (Third Neshanic River)	Oxygen, Dissolved	01397950	2006	Aquatic Life		Medium
10	02030105110010-01	Heathcote Brook	Cause Unknown	AN0395	2014	Aquatic Life		Low
06	02030103030100-01	Hibernia Brook	Temperature, water	Lake Hudsonia	2014	Aquatic Life - Trout		Medium
04	02030103140010-01	Hohokus Bk (above Godwin Ave)	Arsenic	01390610	2012	Water Supply		Low
04	02030103140010-01	Hohokus Bk (above Godwin Ave)	Phosphorus (Total)	01390600	2008	Aquatic Life		High
04	02030103140010-01	Hohokus Bk (above Godwin Ave)	Total Dissolved Solids (TDS)	01390600	2006	Water Supply		Medium
04	02030103140030-01	Hohokus Bk (below Pennington Ave)	Nitrates	01391000, 01391050, 01391100	2010	Water Supply		Medium
04	02030103140030-01	Hohokus Bk (below Pennington Ave)	Phosphorus (Total)	01391000, 01391050, 01391100, HB001	2010	Aquatic Life		High
04	02030103140020-01	Hohokus Bk (Pennington Ave to Godwin Ave)	Cause Unknown	AN0284, AN0285, AN0286, AN0286X, AN0287	2002	Aquatic Life		Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103140020-01	Hohokus Bk (Pennington Ave to Godwin Ave)	Total Dissolved Solids (TDS)	01390800	2008	Water Supply		Medium
08	02030105040030-01	Holland Brook	pH	01398110	2012	Aquatic Life		Medium
08	02030105040030-01	Holland Brook	Phosphorus (Total)	HB1	2014	Aquatic Life		High
01	02040105100020-01	Honey Run	Oxygen, Dissolved	01445900	2004	Aquatic Life - Trout		Medium
12	02030104070010-01	Hop Brook	Arsenic	01407210	2008	Water Supply		Low
12	02030104070010-01	Hop Brook	pH	MCHD-53, 01407210	2014	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104070010-01	Hop Brook	Phosphorus (Total)	01407210, MCHD-53	2006	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104070010-01	Hop Brook	Total Suspended Solids (TSS)	01407210, MCHD-53	2006	Aquatic Life, Aquatic Life - Trout		Medium
17	02040206060100-01	Hope Creek / Artificial Island	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206060100-01	Hope Creek / Artificial Island	Total Coliform	Shellfish Network	2014	Shellfish		Medium
15	02040302040010-01	Hospitality Br (above Whitehouse Rd)	pH	01411035	2002	Aquatic Life		Medium
15	02040302040070-01	Hospitality Br (below Piney Hollow Rd)	Arsenic	01411071	2012	Water Supply	A	Low
15	02040302040070-01	Hospitality Br (below Piney Hollow Rd)	pH	01411071, HHOCAINS, HHODIAMO, HHOEIGHT, HHOCUSHM	2006	Aquatic Life		Medium
15	02040302040020-01	Hospitality Br (Rt 538 to Whitehouse Rd)	pH	01411050, HWHWHITE, HWHBLUEB, HHOWHITE, HWHSUNSE	2002	Aquatic Life		Medium
05	02030101170030-01	Hudson River (lower)	Benzo(a)pyrene (PAHs)	HEP	2010	Fish Consumption		Low
05	02030101170030-01	Hudson River (lower)	Cause Unknown	UH014	2010	Aquatic Life		Low
05	02030101170030-01	Hudson River (lower)	Chlordane in Fish Tissue	HEP	2010	Fish Consumption	L	Low
05	02030101170030-01	Hudson River (lower)	DDT and its metabolites in Fish Tissue	HEP	2010	Fish Consumption	L	Low
05	02030101170030-01	Hudson River (lower)	Dieldrin	HEP	2010	Fish Consumption	L	Low
05	02030101170030-01	Hudson River (lower)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2010	Fish Consumption		Low
05	02030101170030-01	Hudson River (lower)	Hexachlorobenzene	HEP	2010	Fish Consumption		Low
05	02030101170030-01	Hudson River (lower)	Mercury in Fish Tissue	HEP	2010	Fish Consumption		Low
05	02030101170030-01	Hudson River (lower)	PCB in Fish Tissue	HEP	2010	Fish Consumption	L	Low
05	02030101170010-01	Hudson River (upper)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
05	02030101170010-01	Hudson River (upper)	Cause Unknown	UH004, UH018, UH211, UH213	2010	Aquatic Life		Low
05	02030101170010-01	Hudson River (upper)	Chlordane in Fish Tissue	HEP	2010	Fish Consumption	L	Low
05	02030101170010-01	Hudson River (upper)	DDT and its metabolites in Fish Tissue	HEP	2012	Fish Consumption	L	Low
05	02030101170010-01	Hudson River (upper)	Dieldrin	HEP	2008	Fish Consumption	L	Low
05	02030101170010-01	Hudson River (upper)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
05	02030101170010-01	Hudson River (upper)	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
05	02030101170010-01	Hudson River (upper)	Mercury in Fish Tissue	HEP	2010	Fish Consumption		Low
05	02030101170010-01	Hudson River (upper)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
05	02030101170010-01	Hudson River (upper)	Phosphorus (Total)	North Hudson Park Lake	2014	Aquatic Life		Medium
17	02040206130030-01	Indian Branch (Scotland Run)	Oxygen, Dissolved	01411466	2012	Aquatic Life		Medium
14	02040301170090-01	Indian Cabin Creek	Oxygen, Dissolved	01409601	2006	Aquatic Life		Medium
14	02040301150030-01	Indian Mills Brook / Muskingum Brook	pH	01409444, 01409449, BINSHADW, BINSCHOO, BMULAKED	2006	Aquatic Life		Medium
17	02040206150040-01	Indian Run (Muddy Run)	Arsenic	01411695	2012	Water Supply		Low
17	02040206150040-01	Indian Run (Muddy Run)	Cause Unknown	AN0746	2006	Aquatic Life		Low
09	02030105130040-01	Ireland Brook	pH	01404470	2002	Aquatic Life		Medium
20	02040201100030-01	Jacksonville trib (above Barkers Brook)	Escherichia coli	BFBM000048	2012	Recreation		Medium
11	02040105210060-01	Jacobs Creek (above Woolsey Brook)	Arsenic	01462730, 01462739	2008	Water Supply		Low
11	02040105210060-01	Jacobs Creek (above Woolsey Brook)	Mercury in Water Column	01462739	2008	Water Supply		Low
11	02040105210060-01	Jacobs Creek (above Woolsey Brook)	Oxygen, Dissolved	01462739	2010	Aquatic Life		Medium
11	02040105210060-01	Jacobs Creek (above Woolsey Brook)	Phosphorus (Total)	01462739	2008	Aquatic Life		Medium
11	02040105210060-01	Jacobs Creek (above Woolsey Brook)	Total Suspended Solids (TSS)	01462739	2010	Aquatic Life		Medium
11	02040105210070-01	Jacobs Creek (below/incl Woolsey Brook)	Arsenic	01462800	2012	Water Supply		Low
19	02040202050070-01	Jade Run	Oxygen, Dissolved	01465847, RCW-JR1	2004	Aquatic Life		Medium
19	02040202050070-01	Jade Run	pH	01465847, RCW-JR1, SJART616	2004	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202050070-01	Jade Run	Phosphorus (Total)	01465847, 01465848, RCW-JR1	2004	Aquatic Life		Medium
13	02040301080070-01	Jakes Branch (Lower Toms River)	Escherichia coli	BT05	2014	Recreation		Medium
13	02040301080070-01	Jakes Branch (Lower Toms River)	Oxygen, Dissolved	BT05	2014	Aquatic Life		Medium
12	02030104090050-01	Jumping Brook (Monmouth Co)	Cause Unknown	AN0479, AN0480	2012	Aquatic Life		Low
20	02040201040040-01	Jumping Brook (Ocean Co)	Arsenic	01464080	2014	Water Supply		Low
20	02040201040040-01	Jumping Brook (Ocean Co)	Mercury in Fish Tissue	Crosswicks Creek	2006	Fish Consumption		Low
20	02040201040040-01	Jumping Brook (Ocean Co)	Oxygen, Dissolved	01464080	2014	Aquatic Life		Medium
13	02040301050010-01	Kettle Creek (above Lake Riviera outlet)	Arsenic	01408175	2014	Water Supply		Low
13	02040301050010-01	Kettle Creek (above Lake Riviera outlet)	Cause Unknown	AN0515	2008	Aquatic Life		Low
13	02040301050020-01	Kettle Creek (below Lake Riviera outlet)	Arsenic	01408175	2014	Water Supply	A	Low
19	02040202060010-01	Kettle Run (above Centennial Lake)	pH	Flamingo Lake, Braddocks Millpond	2008	Aquatic Life		Medium
07	02030104010020-01	Kill Van Kull West	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
07	02030104010020-01	Kill Van Kull West	Cause Unknown	NB231, NB227, NB223, NB01, NB216, NB217, NB212, NB206, NB201, NB202, NB02, NB03, NB226	2007	Aquatic Life		Low
07	02030104010020-01	Kill Van Kull West	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104010020-01	Kill Van Kull West	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104010020-01	Kill Van Kull West	Dieldrin	HEP	2007	Fish Consumption	L	Low
07	02030104010020-01	Kill Van Kull West	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104010020-01	Kill Van Kull West	Heptachlor epoxide	HEP	2007	Fish Consumption	L	Low
07	02030104010020-01	Kill Van Kull West	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
07	02030104010020-01	Kill Van Kull West	PCB in Fish Tissue	HEP	2007	Fish Consumption	L	Low
11	02040105170060-01	Kingwood Twp(Warford-Little Nishisakawk)	Phosphorus (Total)	01458710	2006	Aquatic Life		Medium
01	02040105040040-01	Lafayette Swamp tribs	Cause Unknown	AN0016	2008	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
20	02040201050010-01	Lahaway Ck (above Prospertown)	Cause Unknown	AN0123, MB-FA	2006	Aquatic Life		Low
20	02040201050020-01	Lahaway Ck (Allentwn/NE Road-Prospertown)	Arsenic	01464460	2012	Water Supply		Low
20	02040201050020-01	Lahaway Ck (Allentwn/NE Road-Prospertown)	Phosphorus (Total)	01464460	2006	Aquatic Life		Medium
01	02040105150020-01	Lake Hopatcong	PCB in Fish Tissue	Lake Hopatcong	2012	Fish Consumption	L	Low
01	02040105150020-01	Lake Hopatcong	pH	Hop 3, Hop 6	2008	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105070010-01	Lake Lenape trib	Temperature, water	01444980	2014	Aquatic Life - Trout		Medium
19	02040202060020-01	Lake Pine / Centennial Lake & tribs	pH	WHATAUNT, Wilderness Lake	2010	Aquatic Life		Medium
15	02040302050110-01	Lakes Creek (GEHR)	Oxygen, Dissolved	2803	2008	Aquatic Life		Medium
08	02030105050070-01	Lamington R (HallsBrRd-HerzogBrk)	pH	LR4, LR5	2014	Aquatic Life		High
08	02030105050070-01	Lamington R (HallsBrRd-HerzogBrk)	Phosphorus (Total)	LR5	2006	Aquatic Life		High
08	02030105050070-01	Lamington R (HallsBrRd-HerzogBrk)	Temperature, water	01399545	2004	Aquatic Life - Trout		Medium
08	02030105050130-01	Lamington R (Hertzog Brk to Pottersville gage)	Temperature, water	LR3	2010	Aquatic Life - Trout		Medium
08	02030105050020-01	Lamington R (Hillside Rd to Rt 10)	Oxygen, Dissolved	LR2	2012	Aquatic Life		Medium
08	02030105050020-01	Lamington R (Hillside Rd to Rt 10)	Phosphorus (Total)	LR2	2010	Aquatic Life		High
08	02030105050040-01	Lamington R (Pottersville gage-FurnaceRd)	Arsenic	01399320	2012	Water Supply		Low
14	02040301170100-01	Landing Creek (above Rt 563)	Arsenic	01409571	2012	Water Supply	A	Low
14	02040301170100-01	Landing Creek (above Rt 563)	pH	01409571	2014	Aquatic Life		Medium
14	02040301170110-01	Landing Creek (Indian Cabin Ck to Rt563)	pH	LLANDIND, LUNIOMOS	2014	Aquatic Life		Medium
09	02030105130020-01	Lawrence Bk (above Deans Pond dam)	Arsenic	01404302, 9-law-1	2006	Water Supply		Low
09	02030105130020-01	Lawrence Bk (above Deans Pond dam)	Cause Unknown	AN0430	2008	Aquatic Life		Low
09	02030105130070-01	Lawrence Bk (below Milltown/Herberts br)	Arsenic	01405003	2012	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105130070-01	Lawrence Bk (below Milltown/Herberts br)	Cause Unknown	AN0435	2006	Aquatic Life		Low
09	02030105130070-01	Lawrence Bk (below Milltown/Herberts br)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
09	02030105130070-01	Lawrence Bk (below Milltown/Herberts br)	PCB in Fish Tissue	Weston Mill Pond	2006	Fish Consumption	L	Low
09	02030105130050-01	Lawrence Bk (Church Lane to Deans Pond)	Arsenic	01404302, 9-law-1	1998	Water Supply		Low
09	02030105130050-01	Lawrence Bk (Church Lane to Deans Pond)	Cause Unknown	AN0431	2006	Aquatic Life		Low
09	02030105130050-01	Lawrence Bk (Church Lane to Deans Pond)	Escherichia coli	01404400	2008	Recreation		Medium
09	02030105130060-01	Lawrence Bk (Milltown to Church Lane)	Arsenic	01405003	2008	Water Supply		Low
09	02030105130060-01	Lawrence Bk (Milltown to Church Lane)	Escherichia coli	01405003	2008	Recreation		Medium
09	02030105130060-01	Lawrence Bk (Milltown to Church Lane)	Phosphorus (Total)	Farrington Lake	2014	Aquatic Life		Medium
20	02040201090030-01	LDRV tribs (Assiscunk Ck to Blacks Ck)	Cause Unknown	SHB-01AF, SHB-02SB	2014	Aquatic Life		Low
20	02040201090030-01	LDRV tribs (Assiscunk Ck to Blacks Ck)	PCB in Fish Tissue	Crystal Lake, Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
20	02040201110010-01	LDRV tribs (Beverly to Assiscunk Ck)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
20	02040201090040-01	LDRV tribs (Bustleton Creek area)	Mercury in Fish Tissue	Delaware River Tribs to Head of Tide	2008	Fish Consumption		Low
20	02040201090040-01	LDRV tribs (Bustleton Creek area)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
17	02040206020010-01	LDRV tribs (Lakeview Ave to Oldmans Ck)	PCB in Fish Tissue	DOD Lake, Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206020020-01	LDRV tribs (Marsh Pt-Main St Pennsville)	DDT and its metabolites in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206020020-01	LDRV tribs (Marsh Pt-Main St Pennsville)	Mercury in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206020020-01	LDRV tribs (Marsh Pt-Main St Pennsville)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202110070-01	LDRV tribs (Pennsauken Ck to 28th St)	Escherichia coli	BFBM000003	2012	Recreation		Medium
03	02030103110010-01	Lincoln Park tribs (Pompton River)	Arsenic	01388720	2012	Water Supply		Low
03	02030103110010-01	Lincoln Park tribs (Pompton River)	Cause Unknown	AN0269	2008	Aquatic Life		Low
19	02040202060070-01	Little Creek (above Bear Swamp River)	Arsenic	01465893	2012	Water Supply	A	Low
19	02040202060070-01	Little Creek (above Bear Swamp River)	Escherichia coli	01465893	2006	Recreation		Medium
19	02040202060070-01	Little Creek (above Bear Swamp River)	pH	01465893, WLIHAWKI	2012	Aquatic Life		Medium
19	02040202060090-01	Little Creek (below Bear Swamp River)	Escherichia coli	BFBM000015	2012	Recreation		Medium
17	02040206120010-01	Little Ease Run (above Academy Rd)	pH	01411457, 01411458	2006	Aquatic Life		Medium
17	02040206120020-01	Little Ease Run (below Academy Rd)	Arsenic	01411457, 01411458	2012	Water Supply		Low
17	02040206120020-01	Little Ease Run (below Academy Rd)	pH	01411458, 01411457	2002	Aquatic Life		Medium
01	02040104130010-01	Little Flat Brook (Beerskill and above)	Temperature, water	01439920	2006	Aquatic Life - Trout		Medium
01	02040104130030-01	Little Flat Brook (Confluence to Layton)	Temperature, water	01439920	2006	Aquatic Life - Trout		Medium
01	02040104130020-01	Little Flat Brook (Layton to Beerskill)	Temperature, water	01439920	2006	Aquatic Life - Trout		Medium
11	02040105240050-01	Little Shabakunk Creek	Arsenic	01463610, 11-as-4	2006	Water Supply		Low
11	02040105240050-01	Little Shabakunk Creek	Lead	01463610, 11-as-4	2007	Water Supply		Low
11	02040105240050-01	Little Shabakunk Creek	Mercury in Fish Tissue	Assunpink Creek	2006	Fish Consumption		Low
11	02040105240050-01	Little Shabakunk Creek	Phosphorus (Total)	01464020	2006	Aquatic Life		Medium
12	02030104080010-01	Little Silver Creek / Town Neck Creek	DDT and its metabolites in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080010-01	Little Silver Creek / Town Neck Creek	Mercury in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104080010-01	Little Silver Creek / Town Neck Creek	PCB in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
18	02040202120070-01	Little Timber Creek (Gloucester City)	Cause Unknown	AN0666	2008	Aquatic Life		Low
18	02040202120070-01	Little Timber Creek (Gloucester City)	PCB in Fish Tissue	Little Timber Creek	2006	Fish Consumption	L	Low
06	02030103010040-01	Loantaka Brook	Cause Unknown	ANO220, ANO221, GSWA-LB1, GSWA-LB3	2008	Aquatic Life		Low
06	02030103010040-01	Loantaka Brook	Escherichia coli	01378860	2008	Recreation		Medium
06	02030103010040-01	Loantaka Brook	Total Dissolved Solids (TDS)	GSWA-LB2, GSWA-LB4, GSWA-LB5, GSWA-LB6	2008	Water Supply		Medium
11	02040105200010-01	Lokatong Ck (above Rt 12)	Escherichia coli	01460860, L8a, L9a, L9b	2008	Recreation		Medium
11	02040105200010-01	Lokatong Ck (above Rt 12)	pH	L9	2008	Aquatic Life		Medium
11	02040105200030-01	Lokatong Ck (below Milltown) incl UDRV	Arsenic	01460900	2012	Water Supply		Low
11	02040105200030-01	Lokatong Ck (below Milltown) incl UDRV	Temperature, water	01460880, L3	2008	Aquatic Life - Trout		Medium
11	02040105200020-01	Lokatong Ck (Milltown to Rt 12)	Arsenic	01460870	2012	Water Supply		Low
11	02040105200020-01	Lokatong Ck (Milltown to Rt 12)	Escherichia coli	01460860, 01460870, L4, L6a	2008	Recreation		Medium
11	02040105200020-01	Lokatong Ck (Milltown to Rt 12)	pH	L3a, L4, L6	2008	Aquatic Life		Medium
11	02040105200020-01	Lokatong Ck (Milltown to Rt 12)	Temperature, water	L3	2008	Aquatic Life - Trout		Medium
02	02020007040060-01	Long House Creek/Upper Greenwood Lake	pH	Bearfort Waters-02	2010	Aquatic Life		Medium
13	02040301080080-01	Long Swamp Creek	Cause Unknown	AN0544	2012	Aquatic Life		Low
01	02040105120010-01	Lopatcong Creek (above Rt 57)	Phosphorus (Total)	Lopat 1	2010	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105120020-01	Lopatcong Creek (below Rt 57) incl UDRV	Phosphorus (Total)	Lopat 3	2010	Aquatic Life, Aquatic Life - Trout		Medium
13	BarnegatBay09	Lower Little Egg Harbor Bay	Oxygen, Dissolved	BB14	2014	Aquatic Life		Medium
13	BarnegatBay09	Lower Little Egg Harbor Bay	Turbidity	BB13, BB12	2014	Aquatic Life		Medium
19	02040202080060-01	LRDV trib- Delanco/Edgewater	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040105150040-01	Lubbers Run (above/incl Dallis Pond)	Temperature, water	AN0065	2012	Aquatic Life - Trout		Medium
01	02040105150050-01	Lubbers Run (below Dallis Pond)	Arsenic	01455780	2012	Water Supply		Low
17	02040206070020-01	Mad Horse Ck / Little Ck / Turners Fork	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206070020-01	Mad Horse Ck / Little Ck / Turners Fork	Total Coliform	Shellfish Network	2014	Shellfish		Medium
18	02040202120120-01	Main Ditch / Little Mantua Creek	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
06	02030103020060-01	Malapardis Brook	Cause Unknown	AN0238B	2008	Aquatic Life		Low
13	BarnegatBay08	Manahawkan Bay and Upper Little Egg Harbor	Turbidity	BB11a, BB10	2014	Aquatic Life		Medium
09	02030105140030-01	Manalapan Brook (below Lake Manalapan)	Arsenic	01405440, 9-man-2	2006	Water Supply		Low
09	02030105140030-01	Manalapan Brook (below Lake Manalapan)	Cause Unknown	AN0440	2008	Aquatic Life		Low
12	02030104100080-01	Manasquan R (74d07m30s to Squankum gage)	Arsenic	0140802850	2008	Water Supply	A	Low
12	02030104100080-01	Manasquan R (74d07m30s to Squankum gage)	Phosphorus (Total)	MCHD-16	2008	Aquatic Life		Medium
12	02030104100080-01	Manasquan R (74d07m30s to Squankum gage)	Temperature, water	01408029	2014	Aquatic Life - Trout		Medium
12	02030104100080-01	Manasquan R (74d07m30s to Squankum gage)	Turbidity	01408029	2014	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104100010-01	Manasquan R (above 74d17m50s road)	Arsenic	01407820	2014	Water Supply		Low
12	02030104100100-01	Manasquan R (below Rt 70 bridge)	Oxygen, Dissolved	MCHD-84, 1306A, 1308C	2014	Aquatic Life		Medium
12	02030104100020-01	Manasquan R (Rt 9 to 74d17m50s road)	Arsenic	01407846, 01407862	2012	Water Supply		Low
12	02030104100020-01	Manasquan R (Rt 9 to 74d17m50s road)	Total Suspended Solids (TSS)	01407868, 01407862, MCHD-25	2006	Aquatic Life		Medium
12	02030104100020-01	Manasquan R (Rt 9 to 74d17m50s road)	Turbidity	01407862	2014	Aquatic Life		Medium
17	02040206040010-01	Mannington Creek	Arsenic	01482645	2008	Water Supply	A	Low
17	02040206040010-01	Mannington Creek	Escherichia coli	01482645	2010	Recreation		Medium



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206040010-01	Mannington Creek	Oxygen, Dissolved	01482645	2010	Aquatic Life		Medium
17	02040206040010-01	Mannington Creek	Phosphorus (Total)	01482645	2008	Aquatic Life		Medium
18	02040202130010-01	Mantua Creek (above Rt 47)	Cause Unknown	AN0668	2008	Aquatic Life		Low
18	02040202130060-01	Mantua Creek (below Edwards Run)	Mercury in Fish Tissue	Mantua Creek @ Paulsboro, NJ	2014	Fish Consumption		Low
18	02040202130060-01	Mantua Creek (below Edwards Run)	PCB in Fish Tissue	Delaware River/Bay at Mantua Creek mouth	2006	Fish Consumption	L	Low
18	02040202130040-01	Mantua Creek (Edwards Run to rd to Sewell)	Escherichia coli	01475042	2008	Recreation		Medium
18	02040202130040-01	Mantua Creek (Edwards Run to rd to Sewell)	Mercury in Fish Tissue	Marlton Lake, Delaware River/Bay at Mantua Creek	2008	Fish Consumption		Low
18	02040202130040-01	Mantua Creek (Edwards Run to rd to Sewell)	PCB in Fish Tissue	Marlton Lake, Delaware River/Bay at Mantua Creek	2006	Fish Consumption	L	Low
18	02040202130040-01	Mantua Creek (Edwards Run to rd to Sewell)	pH	01475042, 01407026, 01407012, MCHD-8, MCHD-65	2008	Aquatic Life		Medium
18	02040202130040-01	Mantua Creek (Edwards Run to rd to Sewell)	Phosphorus (Total)	01475045	2004	Aquatic Life		Medium
17	02040206190010-01	Manumuskin River (above/incl BigNealBr)	Arsenic	01412080	2014	Water Supply		Low
17	02040206190010-01	Manumuskin River (above/incl BigNealBr)	Oxygen, Dissolved	01412080	2014	Aquatic Life		Medium
17	02040206190030-01	Manumuskin River (below Rt 49)	Arsenic	01412080	2012	Water Supply	A	Low
17	02040206190030-01	Manumuskin River (below Rt 49)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206190020-01	Manumuskin River (Rt 49 to Big Neal Br)	Arsenic	01412080	2014	Water Supply		Low
13	02040301060040-01	Maple Root Branch (Toms River)	Escherichia coli	01408285	2014	Recreation		Medium
12	02030104100040-01	Marsh Bog Brook	Arsenic	01407988	2012	Water Supply		Low
12	02030104100040-01	Marsh Bog Brook	Cause Unknown	AN0491, AN0492, MB-2	2008	Aquatic Life		Low
03	02030103100020-01	Masonic Brook	Cause Unknown	FIBI076a	2014	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104060020-01	Matawan Creek (above Ravine Drive)	Arsenic	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Water Supply		Low
12	02030104060020-01	Matawan Creek (above Ravine Drive)	Copper	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Aquatic Life		Low
12	02030104060020-01	Matawan Creek (above Ravine Drive)	Lead	Adjacent to Matawan Creek Reach 02030104-328-0.42	1998	Water Supply, Aquatic Life		Low
12	02030104060020-01	Matawan Creek (above Ravine Drive)	PCB in Fish Tissue	HEP	1998	Fish Consumption	L	Low
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Arsenic	01407026	2012	Water Supply		Low
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060030-01	Matawan Creek (below Ravine Drive)	DDT and its metabolites in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Enterococcus	51	2008	Recreation		Medium
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Escherichia coli	MCHD-65	2014	Recreation		Medium
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Oxygen, Dissolved	MCHD-8, MCHD-51	2012	Aquatic Life		Medium
12	02030104060030-01	Matawan Creek (below Ravine Drive)	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060030-01	Matawan Creek (below Ravine Drive)	pH	01407012, 01407026, 65	2006	Aquatic Life		Medium
12	02030104060030-01	Matawan Creek (below Ravine Drive)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
09	02030105150040-01	Matchaponix Brook (above/incl Pine Bk)	Cause Unknown	AN0448, AN0449	2006	Aquatic Life		Low
09	02030105150060-01	Matchaponix Brook (below Pine Brook)	Nitrates	01405290, 01405302, MtB1	2004	Water Supply		Medium
09	02030105150060-01	Matchaponix Brook (below Pine Brook)	Oxygen, Dissolved	MtB1	2010	Aquatic Life		Medium
09	02030105150060-01	Matchaponix Brook (below Pine Brook)	Phosphorus (Total)	01405302, 01405290, MtB1	2004	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301200110-01	Mattix Run (Nacote Creek)	Arsenic	01410230	2012	Water Supply	A	Low
14	02040301200110-01	Mattix Run (Nacote Creek)	Oxygen, Dissolved	01410230	2008	Aquatic Life		Medium
17	02040206200050-01	Maurice River (below Leesburg) to EastPt	Oxygen, Dissolved	3900M	2006	Aquatic Life		Medium
17	02040206200050-01	Maurice River (below Leesburg) to EastPt	PCB in Fish Tissue	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206140010-01	Maurice River (BlkwtrBr to/incl WillowGroveLk)	Arsenic	01411500	2004	Water Supply		Low
17	02040206200040-01	Maurice River (Leesburg to Rt 548)	PCB in Fish Tissue	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206170030-01	Maurice River (Menantico Ck to UnionLake)	Arsenic	01411907	2014	Fish Consumption	A	Low
17	02040206170030-01	Maurice River (Menantico Ck to UnionLake)	Mercury in Fish Tissue	Maurice River at Mauricetown, Union Lake	2010	Fish Consumption		Low
17	02040206170030-01	Maurice River (Menantico Ck to UnionLake)	PCB in Fish Tissue	Maurice River at Mauricetown, Union Lake	2006	Fish Consumption	L	Low
17	02040206200030-01	Maurice River (Rt 548 to Menantico Ck)	PCB in Fish Tissue	Maurice River at Mauricetown	2006	Fish Consumption	L	Low
17	02040206140060-01	Maurice River (Sherman Ave to Blackwater Br)	Arsenic	01411500, 17-mau-1	2006	Water Supply		Low
17	02040206160030-01	Maurice River (Union Lake to Sherman Ave)	Arsenic	01411800, 17-mau-1	1998	Water Supply		Low
17	02040206160030-01	Maurice River (Union Lake to Sherman Ave)	Cause Unknown	AN0751	2008	Aquatic Life		Low
17	02040206160030-01	Maurice River (Union Lake to Sherman Ave)	Mercury in Fish Tissue	Union Lake	2008	Fish Consumption		Low
19	02040202030070-01	McDonalds Branch	Arsenic	01466500	2012	Water Supply	A	Low
09	02030105150030-01	McGellairds Brook (below Taylors Mills)	Phosphorus (Total)	01405180, MCHD-22, MGB1	2006	Aquatic Life		Medium
03	02030103070060-01	Meadow Brook / High Mountain Brook	Temperature, water	PQMDBK	2010	Aquatic Life - Trout		Medium
17	02040206180030-01	Menantico Creek (above Rt 552)	DDT and its metabolites in Fish Tissue	Menantico Sand Ponds	2010	Fish Consumption	L	Low
17	02040206180030-01	Menantico Creek (above Rt 552)	Dioxin (including 2, 3, 7, 8-TCDD)	Menantico Sands Pond	2010	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206180030-01	Menantico Creek (above Rt 552)	PCB in Fish Tissue	Menantico Sand Ponds	2010	Fish Consumption	L	Low
17	02040206180050-01	Menantico Creek (below Rt 552)	Arsenic	01412005	2008	Water Supply	A	Low
17	02040206180050-01	Menantico Creek (below Rt 552)	DDT and its metabolites in Fish Tissue	Menantico Sand Ponds	2010	Fish Consumption	L	Low
17	02040206180050-01	Menantico Creek (below Rt 552)	PCB in Fish Tissue	Menantico Sand Ponds	2006	Fish Consumption	L	Low
17	02040206180050-01	Menantico Creek (below Rt 552)	Phosphorus (Total)	01412005	2006	Aquatic Life		Medium
11	02040105210080-01	Mercer (Calhoun St to Jacobs Creek)	Cause Unknown	AN0107	2008	Aquatic Life		Low
01	02040105140040-01	Merrill Creek	Cause Unknown	AN0059	2010	Aquatic Life		Low
01	02040105140040-01	Merrill Creek	Chlordane in Fish Tissue	Merrill Creek Reservoir	2014	Fish Consumption	L	Low
01	02040105140040-01	Merrill Creek	Mercury in Fish Tissue	Merrill Creek Reservoir	2014	Fish Consumption		Low
01	02040105140040-01	Merrill Creek	PCB in Fish Tissue	Merrill Creek Reservoir	2014	Fish Consumption	L	Low
13	BarnegatBay03	Metedeconk and Lower Tribs - Bay	Turbidity	BB05a	2014	Aquatic Life		Medium
13	02040301040020-01	Metedeconk R (Beaverdam Ck to confl)	Arsenic	BTMUA Intake, 01408156	2008	Water Supply	A	Low
13	02040301040020-01	Metedeconk R (Beaverdam Ck to confl)	Cause Unknown	AN0514	2008	Aquatic Life		Low
13	02040301040020-01	Metedeconk R (Beaverdam Ck to confl)	Lead	BTMUA Intake	2014	Water Supply		Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Arsenic	NP, NO, NM, NK	2008	Water Supply		Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Chlordane in Fish Tissue	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	Metedeconk R NB (above I-195)	DDT and its metabolites in Fish Tissue	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Lead	NP, NO	2012	Water Supply		Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Mercury in Fish Tissue	Metedeconk River North Branch	2010	Fish Consumption		Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Oxygen, Dissolved	NO	2014	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301020010-01	Metedeconk R NB (above I-195)	PCB in Fish Tissue	Metedeconk River North Branch	2010	Fish Consumption	L	Low
13	02040301020010-01	Metedeconk R NB (above I-195)	Turbidity	NK, NM, NO	2012	Aquatic Life	R	Medium
13	02040301020050-01	Metedeconk R NB (confluence to Rt 9)	Arsenic	01408123, CB, CB-1, NA	2008	Water Supply		Low
13	02040301020050-01	Metedeconk R NB (confluence to Rt 9)	Cause Unknown	AN0502, AN0506	2012	Aquatic Life, Aquatic Life - Trout		Low
13	02040301020050-01	Metedeconk R NB (confluence to Rt 9)	Lead	NA, CB-1, CB	2012	Water Supply		Low
13	02040301020020-01	Metedeconk R NB (Rt 9 to I-195)	Cause Unknown	AN0502	2012	Aquatic Life, Aquatic Life - Trout		Low
13	02040301030020-01	Metedeconk R SB (74d19m15s to I-195 X21)	Arsenic	01408127	2014	Water Supply	A	Low
13	02040301030020-01	Metedeconk R SB (74d19m15s to I-195 X21)	Oxygen, Dissolved	01408127, SK	2014	Aquatic Life		Medium
13	02040301030020-01	Metedeconk R SB (74d19m15s to I-195 X21)	Turbidity	SK	2012	Aquatic Life	R	Medium
13	02040301030010-01	Metedeconk R SB (above I-195 exit 21 rd)	Arsenic	SL	2008	Water Supply		Low
13	02040301030010-01	Metedeconk R SB (above I-195 exit 21 rd)	Lead	SL	2012	Water Supply		Low
13	02040301030030-01	Metedeconk R SB (BennettsPd to 74d19m15s)	Arsenic	SI	2014	Water Supply		Low
13	02040301030030-01	Metedeconk R SB (BennettsPd to 74d19m15s)	Cause Unknown	AN0510A	2014	Aquatic Life		Low
13	02040301030030-01	Metedeconk R SB (BennettsPd to 74d19m15s)	Chlordane in Fish Tissue	Enno Lake (Bennetts Pond)	2010	Fish Consumption	L	Low
13	02040301030030-01	Metedeconk R SB (BennettsPd to 74d19m15s)	Mercury in Fish Tissue	Enno Lake (Bennetts Pond)	2010	Fish Consumption		Low
13	02040301030030-01	Metedeconk R SB (BennettsPd to 74d19m15s)	PCB in Fish Tissue	Enno Lake (Bennetts Pond)	2010	Fish Consumption	L	Low
13	02040301030050-01	Metedeconk R SB (confluence to Rt 9)	Arsenic	01408152, SA, SE	2008	Water Supply	A	Low
13	02040301030050-01	Metedeconk R SB (confluence to Rt 9)	Cause Unknown	AN0511, AN0512	2012	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301030050-01	Metedeconk R SB (confluence to Rt 9)	Lead	SA	2012	Water Supply		Low
13	02040301030040-01	Metedeconk R SB (Rt 9 to Bennetts Pond)	Arsenic	01408136, SI	2008	Water Supply	A	Low
13	02040301080020-01	Michaels Branch (Wrangel Brook)	pH	Keswick Lake	2010	Aquatic Life		Medium
17	02040206200010-01	Middle Branch / Slab Branch	Arsenic	01412120	2014	Water Supply		Low
17	02040206200010-01	Middle Branch / Slab Branch	Mercury in Water Column	01412120	2008	Water Supply		Low
09	02030105120180-01	Middle Brook	Arsenic	01403190	2010	Water Supply		Low
09	02030105120180-01	Middle Brook	Cause Unknown	AN0420	2012	Aquatic Life		Low
08	02030105060080-01	Middle Brook (NB Raritan River)	Cause Unknown	AN0354, AN0355	2008	Aquatic Life		Low
08	02030105060080-01	Middle Brook (NB Raritan River)	Escherichia coli	01399100	2008	Recreation		Medium
09	02030105120050-01	Middle Brook EB	Arsenic	01403075	2012	Water Supply		Low
09	02030105120050-01	Middle Brook EB	Oxygen, Dissolved	01403075	2012	Aquatic Life - Trout		Medium
09	02030105120050-01	Middle Brook EB	Phosphorus (Total)	01403075	2012	Aquatic Life, Aquatic Life - Trout		Medium
09	02030105120050-01	Middle Brook EB	Temperature, water	01403120	2014	Aquatic Life - Trout		Medium
09	02030105120050-01	Middle Brook EB	Total Dissolved Solids (TDS)	01403075	2008	Water Supply		Medium
09	02030105120060-01	Middle Brook WB	Cause Unknown	AN0416	2008	Aquatic Life		Low
17	02040206100010-01	Middle Marsh Ck (DrumboCk to Sea Breeze)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
15	02040302050120-01	Middle River / Peters Creek	Oxygen, Dissolved	2900, 2900A, 2900E	2006	Aquatic Life		Medium
09	02030105120150-01	Mile Run	Cause Unknown	AN0429, FIBI015	2006	Aquatic Life		Low
09	02030105120150-01	Mile Run	Escherichia coli	BFBM000007	2012	Recreation		Medium
15	02040302060010-01	Mill Br (above Cardiff-Bargaintown rd)	Cause Unknown	AN0618	2010	Aquatic Life		Low
13	02040301140020-01	Mill Branch (below GS Parkway)	Escherichia coli	01409305	2014	Recreation		Medium
13	02040301140020-01	Mill Branch (below GS Parkway)	Oxygen, Dissolved	01409305	2014	Aquatic Life		Medium
13	02040301140020-01	Mill Branch (below GS Parkway)	PCB in Fish Tissue	Pohatcong Lake	2010	Fish Consumption	L	Low
09	02030105160080-01	Mill Brook / Martins Creek	Cause Unknown	AN0436	2008	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105160080-01	Mill Brook / Martins Creek	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	1998	Fish Consumption	L	Low
13	02040301130020-01	Mill Ck (above GS Parkway)	pH	01409150, Fawn Lake	2006	Aquatic Life		Medium
13	02040301130030-01	Mill Ck (below GS Parkway)/Manahawkin Ck	Cause Unknown	AN0555	2014	Aquatic Life		Low
13	02040301130030-01	Mill Ck (below GS Parkway)/Manahawkin Ck	DDT and its metabolites in Fish Tissue	Lake Manahawkin	2010	Fish Consumption	L	Low
13	02040301130030-01	Mill Ck (below GS Parkway)/Manahawkin Ck	Escherichia coli	BT11	2014	Recreation		Medium
13	02040301130030-01	Mill Ck (below GS Parkway)/Manahawkin Ck	PCB in Fish Tissue	Lake Manahawkin	2010	Fish Consumption	L	Low
17	02040206090050-01	Mill Creek (below Maple House Bk)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110040-01	Mill Creek (Dividing Creek)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206110040-01	Mill Creek (Dividing Creek)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206160040-01	Mill Creek (lower)	Mercury in Fish Tissue	Union Lake	2010	Fish Consumption		Low
19	02040202080030-01	Mill Creek (Willingboro)	Arsenic	01467021	2008	Water Supply		Low
19	02040202080030-01	Mill Creek (Willingboro)	Escherichia coli	01467021, BFBM000040	2012	Recreation		Medium
19	02040202080030-01	Mill Creek (Willingboro)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202080030-01	Mill Creek (Willingboro)	Phosphorus (Total)	01467021	2004	Aquatic Life		Medium
15	02040302070060-01	Mill Creek / Back Run (Tuckahoe River)	Cause Unknown	AN0652	2014	Aquatic Life		Low
10	02030105100010-01	Millstone R (above Rt 33)	Arsenic	01400530, 01400540, 10-mil-1	1998	Water Supply		Low
10	02030105100010-01	Millstone R (above Rt 33)	Phosphorus (Total)	01400540, MCHD-5	2002	Aquatic Life		High
10	02030105100010-01	Millstone R (above Rt 33)	Total Suspended Solids (TSS)	01400540, 01400530, MCHD-5	2006	Aquatic Life		High
10	02030105110140-01	Millstone R (AmwellRd to BlackwellsMills)	Arsenic	01401900, 10-mil-5, 10-mil-6	1998	Water Supply		Low
10	02030105110140-01	Millstone R (AmwellRd to BlackwellsMills)	Phosphorus (Total)	01402000, 01401900	2004	Aquatic Life		Medium
10	02030105100020-01	Millstone R (Applegarth road to Rt 33)	Arsenic	01400540, 10-mil-1	2006	Water Supply		Low
10	02030105100020-01	Millstone R (Applegarth road to Rt 33)	Phosphorus (Total)	01400540, MCHD-5	2006	Aquatic Life		High

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
10	02030105100020-01	Millstone R (Applegarth road to Rt 33)	Total Suspended Solids (TSS)	v	2006	Aquatic Life		High
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	Arsenic	01401440, 10-mil-2	1998	Water Supply		Low
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	Escherichia coli	01401440	2006	Recreation		Medium
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	Oxygen, Dissolved	M4	2010	Aquatic Life		Medium
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	pH	01401440, BA120A	2002	Aquatic Life		Medium
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	Phosphorus (Total)	01401440, BA120A	2002	Aquatic Life		Medium
10	02030105110030-01	Millstone R (Beden Bk to Heathcote Bk)	Temperature, water	01401440	2002	Aquatic Life		Medium
10	02030105110170-01	Millstone R (below Amwell Rd)	pH	01402540, BA123A	2002	Aquatic Life		Medium
10	02030105110170-01	Millstone R (below Amwell Rd)	Phosphorus (Total)	01402540, BA123A , Spooky Brook Pond	2002	Aquatic Life		Medium
10	02030105110110-01	Millstone R (BlackwellsMills to BedenBk)	Arsenic	01460530, 01402000, 10-mil-5, 10-mil-6	2006	Water Supply		Low
10	02030105110110-01	Millstone R (BlackwellsMills to BedenBk)	Phosphorus (Total)	01402000	2002	Aquatic Life		Medium
10	02030105100060-01	Millstone R (Cranbury Bk to Rocky Bk)	Arsenic	01400640	2006	Water Supply		Low
10	02030105100060-01	Millstone R (Cranbury Bk to Rocky Bk)	Oxygen, Dissolved	UMR3	2014	Aquatic Life		High
10	02030105100060-01	Millstone R (Cranbury Bk to Rocky Bk)	Phosphorus (Total)	01400640, BA117A, UMR2	2002	Aquatic Life		High
10	02030105100060-01	Millstone R (Cranbury Bk to Rocky Bk)	Total Suspended Solids (TSS)	01400640, BA117A	2014	Aquatic Life		High
10	02030105110020-01	Millstone R (HeathcoteBk to Harrison St)	Escherichia coli	01401440	2014	Recreation		Medium
10	02030105110020-01	Millstone R (HeathcoteBk to Harrison St)	pH	01401440	2014	Aquatic Life		Medium
10	02030105110020-01	Millstone R (HeathcoteBk to Harrison St)	Phosphorus (Total)	01401440	2014	Aquatic Life		High
10	02030105110020-01	Millstone R (HeathcoteBk to Harrison St)	Temperature, water	01401440	2014	Aquatic Life		Medium



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
10	02030105100030-01	Millstone R (RockyBk to Applegarth road)	Oxygen, Dissolved	UMR1	2010	Aquatic Life		Medium
10	02030105100030-01	Millstone R (RockyBk to Applegarth road)	Phosphorus (Total)	01400560	2008	Aquatic Life		High
10	02030105100140-01	Millstone R (Rt 1 to Cranbury Bk)	Arsenic	10-mil-7	2004	Water Supply		Low
10	02030105100140-01	Millstone R (Rt 1 to Cranbury Bk)	Oxygen, Dissolved	UMR3	2010	Aquatic Life		Medium
10	02030105100140-01	Millstone R (Rt 1 to Cranbury Bk)	Phosphorus (Total)	UMR3	2010	Aquatic Life		High
12	02030104070050-01	Mine Brook (Monmouth Co)	Arsenic	01407450	2012	Water Supply		Low
12	02030104070050-01	Mine Brook (Monmouth Co)	Phosphorus (Total)	01407450, MCHD-58	2012	Aquatic Life		Medium
12	02030104100060-01	Mingamahone Brook (above Asbury Rd)	Total Suspended Solids (TSS)	01408009	2006	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104100060-01	Mingamahone Brook (above Asbury Rd)	Turbidity	01408009, MCHD-23	2006	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104100070-01	Mingamahone Brook (below Asbury Rd)	Escherichia coli	23	2012	Recreation		Medium
12	02030104100070-01	Mingamahone Brook (below Asbury Rd)	Phosphorus (Total)	01408020, MCHD-23	2014	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104100070-01	Mingamahone Brook (below Asbury Rd)	Turbidity	MCHD-23	2014	Aquatic Life, Aquatic Life - Trout		Medium
11	02040105240030-01	Miry Run (Assunpink Cr)	Arsenic	01463850	2012	Water Supply		Low
04	02030103120040-01	Molly Ann Brook	Arsenic	01389745, 01389785	2012	Water Supply		Low
04	02030103120040-01	Molly Ann Brook	Cause Unknown	AN0276	2006	Aquatic Life		Low
04	02030103120040-01	Molly Ann Brook	Total Dissolved Solids (TDS)	01389785	2008	Water Supply		Medium
16	02040302080060-01	Mommy Teal Ck / Cresse Ck / Gravelly Run	Cause Unknown	WACRESS	2014	Aquatic Life		Low
06	02030103030160-01	Montville Tribs	Cause Unknown	AN0253, AN0254	2008	Aquatic Life		Low
11	02040105210040-01	Moore Creek	Temperature, water	01462200	2014	Aquatic Life - Trout		Medium
07	02030104030010-01	Morses Creek / Piles Creek	Arsenic	01393690, 7-mor-1	2012	Water Supply		Low
07	02030104030010-01	Morses Creek / Piles Creek	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
07	02030104030010-01	Morses Creek / Piles Creek	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104030010-01	Morses Creek / Piles Creek	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104030010-01	Morses Creek / Piles Creek	Dieldrin	HEP	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
07	02030104030010-01	Morses Creek / Piles Creek	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104030010-01	Morses Creek / Piles Creek	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
07	02030104030010-01	Morses Creek / Piles Creek	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
07	02030104030010-01	Morses Creek / Piles Creek	Mercury in Fish Tissue	HEP	2008	Fish Consumption		Low
07	02030104030010-01	Morses Creek / Piles Creek	PCB in Fish Tissue	HEP	1998	Fish Consumption	L	Low
07	02030104030010-01	Morses Creek / Piles Creek	Phosphorus (Total)	01393690	2010	Aquatic Life		Medium
14	02040301200100-01	Morses Mill Stream	pH	LMOSTOCK	2014	Aquatic Life		Medium
18	02040202140040-01	Moss Branch / Little Timber Ck (Repaupo)	Cause Unknown	AN0678	2008	Aquatic Life		Low
18	02040202140040-01	Moss Branch / Little Timber Ck (Repaupo)	Mercury in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption		Low
18	02040202140040-01	Moss Branch / Little Timber Ck (Repaupo)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
01	02040105090040-01	Mountain Lake Brook	Temperature, water	01445520	2014	Aquatic Life		Medium
17	02040206150010-01	Muddy Run (above/incl Elmer Lake)	Cause Unknown	AN0741	2014	Aquatic Life		Low
17	02040206150050-01	Muddy Run (incl ParvinLk to Palatine Lk)	DDT and its metabolites in Fish Tissue	Parvin Lake	2010	Fish Consumption	L	Low
17	02040206150050-01	Muddy Run (incl ParvinLk to Palatine Lk)	PCB in Fish Tissue	Parvin Lake	2010	Fish Consumption	L	Low
08	02030105020030-01	Mulhockaway Creek	Oxygen, Dissolved	01396660	2014	Aquatic Life - Trout		Medium
08	02030105020030-01	Mulhockaway Creek	Temperature, water	01396660	2014	Aquatic Life - Trout	R	Medium
14	02040301170140-01	Mullica River ( BatstoR to Nescochague Lake)	DDT and its metabolites in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301170140-01	Mullica River ( BatstoR to Nescochague Lake)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301170140-01	Mullica River ( BatstoR to Nescochague Lake)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160140-01	Mullica River (39d40m30s to Rt 206)	Arsenic	0140940050	2012	Water Supply		Low
14	02040301160140-01	Mullica River (39d40m30s to Rt 206)	DDT and its metabolites in Fish Tissue	Mullica River from Atsion to Pleasantville	2006	Fish Consumption	L	Low
14	02040301160140-01	Mullica River (39d40m30s to Rt 206)	PCB in Fish Tissue	Mullica River from Atsion to Pleasantville	2006	Fish Consumption	L	Low
14	02040301160140-01	Mullica River (39d40m30s to Rt 206)	pH	01409387, 0140940050, MMURBRG	2006	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301160020-01	Mullica River (above Jackson Road)	DDT and its metabolites in Fish Tissue	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160020-01	Mullica River (above Jackson Road)	Mercury in Fish Tissue	Atsion Lake	2006	Fish Consumption		Low
14	02040301160020-01	Mullica River (above Jackson Road)	PCB in Fish Tissue	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160020-01	Mullica River (above Jackson Road)	pH	01409375	2002	Aquatic Life		Medium
14	02040301170040-01	Mullica River (BatstoR to PleasantMills)	DDT and its metabolites in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
14	02040301170040-01	Mullica River (BatstoR to PleasantMills)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170040-01	Mullica River (BatstoR to PleasantMills)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301210010-01	Mullica River (below GSP bridge)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301210010-01	Mullica River (below GSP bridge)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301200080-01	Mullica River (GSP bridge to Turtle Ck)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301200080-01	Mullica River (GSP bridge to Turtle Ck)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301170080-01	Mullica River (Lower Bank Rd to Rt 563)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170080-01	Mullica River (Lower Bank Rd to Rt 563)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
14	02040301160150-01	Mullica River (Pleasant Mills to 39d40m30s)	DDT and its metabolites in Fish Tissue	Mullica R, Mullical R from Atsion to Pleasantville	2006	Fish Consumption	L	Low
14	02040301160150-01	Mullica River (Pleasant Mills to 39d40m30s)	PCB in Fish Tissue	Mullica R, Mullical R from Atsion to Pleasantville	2010	Fish Consumption	L	Low
14	02040301160150-01	Mullica River (Pleasant Mills to 39d40m30s)	pH	01409411, NNEWESTM	2002	Aquatic Life		Medium
14	02040301160030-01	Mullica River (Rt 206 to Jackson Road)	DDT and its metabolites in Fish Tissue	Atsion Lake	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301160030-01	Mullica River (Rt 206 to Jackson Road)	PCB in Fish Tissue	Atsion Lake	2006	Fish Consumption	L	Low
14	02040301160030-01	Mullica River (Rt 206 to Jackson Road)	pH	01409387, MMUDI KES, MMUGOSH N	2014	Aquatic Life		Medium
14	02040301170060-01	Mullica River (Rt 563 to Batsto River)	Arsenic	01409525	2012	Water Supply	A	Low
14	02040301170060-01	Mullica River (Rt 563 to Batsto River)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170060-01	Mullica River (Rt 563 to Batsto River)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
14	02040301170130-01	Mullica River (Turtle Ck to Lower BankRd)	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption		Low
14	02040301170130-01	Mullica River (Turtle Ck to Lower BankRd)	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2006	Fish Consumption	L	Low
01	02040105160070-01	Musconetcong R (below Warren Glen)	Arsenic	01457400, 1-mus-5	2012	Water Supply		Low
01	02040105160070-01	Musconetcong R (below Warren Glen)	Oxygen, Dissolved	MR3	2014	Aquatic Life - Trout		Medium
01	02040105160020-01	Musconetcong R (Changewater to HancesBk)	Arsenic	01456200, 1-mus-3	2006	Water Supply		Low
01	02040105160020-01	Musconetcong R (Changewater to HancesBk)	pH	GDD5/SDD5	2014	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105160010-01	Musconetcong R (Hances Bk thru Trout Bk)	Arsenic	01456200, 1-mus-3	1998	Water Supply		Low
01	02040105160010-01	Musconetcong R (Hances Bk thru Trout Bk)	Temperature, water	01456210	2014	Aquatic Life - Trout		Medium
01	02040105150080-01	Musconetcong R (SaxtonFalls to Waterloo)	Arsenic	01456200, 1-mus-3	2006	Water Supply		Low
01	02040105150100-01	Musconetcong R (Trout Bk to SaxtonFalls)	Arsenic	01456200, 1-mus-3	2006	Water Supply		Low
01	02040105150100-01	Musconetcong R (Trout Bk to SaxtonFalls)	pH	GDU1/SDU1	2014	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105160060-01	Musconetcong R (Warren Glen to I-78)	Arsenic	01457120, 1-mus-4	2012	Water Supply		Low
01	02040105150070-01	Musconetcong R (Waterloo to/incl WillsBk)	Cause Unknown	AN0064	2014	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040105150030-01	Musconetcong R (Wills Bk to LkHopatcong)	Mercury in Fish Tissue	Lake Musconetcong	2012	Fish Consumption		Low
01	02040105150030-01	Musconetcong R (Wills Bk to LkHopatcong)	PCB in Fish Tissue	Lake Musconetcong	2012	Fish Consumption	L	Low
01	02040105150030-01	Musconetcong R (Wills Bk to LkHopatcong)	pH	01455500, MSA1	2002	Aquatic Lfne, Aquatic Life - Trout		Medium
01	02040105150030-01	Musconetcong R (Wills Bk to LkHopatcong)	Temperature, water	01455500	2002	Aquatic Life - Trout		Medium
17	02040206200020-01	Muskee Creek	Arsenic	01412120	2012	Water Supply	A	Low
17	02040206200020-01	Muskee Creek	Mercury in Water Column	01412120	2008	Water Supply		Low
17	02040206200020-01	Muskee Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100060-01	Nantuxent Creek (above Newport Landing)	PCB in Fish Tissue	Cedarville Ponds, Delaware Bay Tribs	2006	Fish Consumption	L	Low
17	02040206100070-01	Nantuxent Creek (below Newport Landing)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
12	02030104070110-01	Navesink R (below Rt 35)/LowerShrewsbury	DDT and its metabolites in Fish Tissue	Navesink River (At Red Bank)	2006	Fish Consumption	L	Low
12	02030104070110-01	Navesink R (below Rt 35)/LowerShrewsbury	Oxygen, Dissolved	MCHD-37	2006	Aquatic Life		Medium
12	02030104070110-01	Navesink R (below Rt 35)/LowerShrewsbury	PCB in Fish Tissue	Navesink River (At Red Bank)	2006	Fish Consumption	L	Low
12	02030104070120-01	Navesink R mouth	DDT and its metabolites in Fish Tissue	Navesink River at Fairhaven, Shrewsbury River at Oc	2010	Fish Consumption	L	Low
12	02030104070120-01	Navesink R mouth	Mercury in Fish Tissue	Navesink River at Fairhaven, Shrewsbury River at Oc	2010	Fish Consumption		Low
12	02030104070120-01	Navesink R mouth	Oxygen, Dissolved	1020B	2006	Aquatic Life		Medium
12	02030104070120-01	Navesink R mouth	PCB in Fish Tissue	Navesink River at Fairhaven, Shrewsbury River at Oc	2006	Fish Consumption	L	Low
08	02030105030070-01	Neshanic River (below Black Brk)	Arsenic	01398000, 8-ne-1	2010	Water Supply		Low
08	02030105030070-01	Neshanic River (below Black Brk)	Escherichia coli	01398060	2014	Recreation	R	Medium
08	02030105030070-01	Neshanic River (below Black Brk)	Oxygen, Dissolved	01398065	2014	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
08	02030105030070-01	Neshanic River (below Black Brk)	pH	NR2	2010	Aquatic Life		Medium
08	02030105030070-01	Neshanic River (below Black Brk)	Phosphorus (Total)	NR2	2010	Aquatic Life		High
08	02030105030060-01	Neshanic River (below FNR / SNR confl)	Arsenic	01398000, 8-ne-1	2006	Water Supply		Low
08	02030105030060-01	Neshanic River (below FNR / SNR confl)	Oxygen, Dissolved	NR1	2010	Aquatic Life		Medium
08	02030105030060-01	Neshanic River (below FNR / SNR confl)	pH	01398000, NR1	2008	Aquatic Life		Medium
08	02030105030060-01	Neshanic River (below FNR / SNR confl)	Phosphorus (Total)	01398000, NR1	2002	Aquatic Life		High
17	02040206110070-01	New England Creek (Kenny Pt to Elder Pt)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105230030-01	New Sharon Branch (Assunpink Creek)	Escherichia coli	MCHD-4	2014	Recreation		Medium
11	02040105230030-01	New Sharon Branch (Assunpink Creek)	Phosphorus (Total)	MCHD-4	2002	Aquatic Life		Medium
01	02040105070020-01	New Wawayanda Lake/Andover Pond trib	Cause Unknown	AN0036	2012	Aquatic Life		Low
01	02040105070020-01	New Wawayanda Lake/Andover Pond trib	Chlordane in Fish Tissue	Lake Aeroflex	2014	Fish Consumption	L	Low
01	02040105070020-01	New Wawayanda Lake/Andover Pond trib	Mercury in Fish Tissue	Lake Aeroflex	2014	Fish Consumption		Low
01	02040105070020-01	New Wawayanda Lake/Andover Pond trib	PCB in Fish Tissue	Lake Aeroflex	2014	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	DDT and its metabolites in Fish Tissue	HEP	2012	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Dieldrin	HEP	2007	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
07	02030104010010-01	Newark Airport Peripheral Ditch	Heptachlor epoxide	HEP	2012	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Hexachlorobenzene	HEP	2012	Fish Consumption		Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Mercury in Fish Tissue	HEP	2007	Fish Consumption		Low
07	02030104010010-01	Newark Airport Peripheral Ditch	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104010010-01	Newark Airport Peripheral Ditch	Phosphorus (Total)	Weequahic Lake	2008	Aquatic Life		Medium
17	02040206110010-01	Newport Neck (Nantuxent to Beadons Ck)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	Arsenic	01467312	2008	Water Supply		Low
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	Chlordane in Fish Tissue	Newton Lake, Newton Creek, North (at Mt Ephriam Ave)	2008	Fish Consumption	L	Low
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	DDT and its metabolites in Fish Tissue	Newton Lake, Newton Creek, North (at Mt Ephriam Ave)	2010	Fish Consumption	L	Low
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	Escherichia coli	01467312, Newton Creek at Route 130, Newton Creek nr mouth	2008	Recreation		Medium
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2008	Fish Consumption	L	Low
18	02040202120090-01	Newton Creek (LDRV-Kaighn Ave to LT Ck)	Phosphorus (Total)	01467312, Newton Ck @ Route 130, Newton Ck nr mouth	2004	Aquatic Life		Medium
20	02040201040060-01	North Run (above Wrightstown bypass)	Arsenic	01464380	2008	Water Supply		Low
20	02040201040060-01	North Run (above Wrightstown bypass)	Phosphorus (Total)	01464380	2006	Aquatic Life		Medium
12	02030104070090-01	Nut Swamp Brook	Cause Unknown	AN0464	2008	Aquatic Life		Low
12	02030104070090-01	Nut Swamp Brook	Escherichia coli	MCHD-89	2014	Recreation		Medium
09	02030105130030-01	Oakeys Brook	Cause Unknown	AN0432	2012	Aquatic Life		Low
13	02040301070060-01	Old Hurricane Brook (above 74d22m30s)	Cause Unknown	AN0531	2012	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301070060-01	Old Hurricane Brook (above 74d22m30s)	Escherichia coli	AN0531	2014	Recreation		Medium
18	02040202160010-01	Oldmans Creek (above Commissioners Rd)	Arsenic	01477440	2012	Water Supply		Low
18	02040202160060-01	Oldmans Creek (below Center Sq Rd)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202160050-01	Oldmans Creek (Center Sq Rd to KingsHwy)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2008	Fish Consumption	L	Low
18	02040202160050-01	Oldmans Creek (Center Sq Rd to KingsHwy)	Total Suspended Solids (TSS)	01477520	2006	Aquatic Life		Medium
19	02040202020020-01	Ong Run / Jacks Run	pH	01465965, Lake at the Woods	2004	Aquatic Life		Medium
17	02040206110030-01	Oranoaken Creek	Oxygen, Dissolved	R45	2006	Aquatic Life		Medium
17	02040206110030-01	Oranoaken Creek	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
14	02040301180020-01	Oswego River (above Rt 539)	Arsenic	01409880	2012	Water Supply		Low
14	02040301180020-01	Oswego River (above Rt 539)	Oxygen, Dissolved	01409880	2008	Aquatic Life		Medium
14	02040301180020-01	Oswego River (above Rt 539)	Total Suspended Solids (TSS)	01409880	2012	Aquatic Life		Medium
14	02040301180060-01	Oswego River (Andrews Rd to Sim Place Resv)	PCB in Fish Tissue	Lake Oswego	2010	Fish Consumption	L	Low
14	02040301180040-01	Oswego River (Sim Place Resv to Rt 539)	Arsenic	01409880	2012	Water Supply		Low
14	02040301180040-01	Oswego River (Sim Place Resv to Rt 539)	Oxygen, Dissolved	01409880	2008	Aquatic Life		Medium
14	02040301180040-01	Oswego River (Sim Place Resv to Rt 539)	Total Suspended Solids (TSS)	01409880	2012	Aquatic Life		Medium
05	02030103180040-01	Overpeck Creek	Chlordane in Fish Tissue	AN0212	2006	Fish Consumption	L	Low
05	02030103180040-01	Overpeck Creek	DDT and its metabolites in Fish Tissue	Overpeck Creek Lake, Overpeck Creek (at Ridgefield)	2006	Fish Consumption	L	Low
05	02030103180040-01	Overpeck Creek	Dioxin (including 2, 3, 7, 8-TCDD)	Overpeck Creek Lake, Overpeck Creek (at Ridgefield)	2006	Fish Consumption		Low
05	02030103180040-01	Overpeck Creek	Escherichia coli	HEP	2006	Recreation		Medium
05	02030103180040-01	Overpeck Creek	PCB in Fish Tissue	01378583	2006	Fish Consumption	L	Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301110050-01	Oyster Creek (below Rt 532)	Escherichia coli	Overpeck Creek Lake, Overpeck Creek (at Ridgefield)	2014	Recreation		Medium
17	02040206150030-01	Palatine Branch (Muddy Run)	Cause Unknown	BT10	2008	Aquatic Life		Low
02	02020007020070-01	Papakating Ck (below Pellettown)	Cause Unknown	AN0743, AN0744	2008	Aquatic Life		Low
02	02020007020030-01	Papakating Ck (Pellettown-Frankford Plns)	Cause Unknown	AN0307	2006	Aquatic Life		Low
18	02040202140030-01	Pargay Creek	Escherichia coli	01476625, 01476640	2008	Recreation		Medium
18	02040202140030-01	Pargay Creek	Phosphorus (Total)	01476640, 01476625	2008	Aquatic Life		Medium
19	02040202080010-01	Parkers Creek (above Marne Highway)	Phosphorus (Total)	01467011	2006	Aquatic Life		Medium
12	02030104080020-01	Parkers Creek / Oceanport Creek	DDT and its metabolites in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080020-01	Parkers Creek / Oceanport Creek	Mercury in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080020-01	Parkers Creek / Oceanport Creek	PCB in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080020-01	Parkers Creek / Oceanport Creek	pH	MCHD-32	2006	Aquatic Life		Medium
12	02030104080020-01	Parkers Creek / Oceanport Creek	Phosphorus (Total)	MCHD-32, MCHD-33	2002	Aquatic Life		Medium
17	02040206080030-01	Parsonage Run / Foster Run	Arsenic	01412710	2012	Water Supply		Low
17	02040206080030-01	Parsonage Run / Foster Run	Mercury in Water Column	01412710	2012	Water Supply		Low
17	02040206080030-01	Parsonage Run / Foster Run	Total Suspended Solids (TSS)	01412710	2010	Aquatic Life		Medium
17	02040206140070-01	Parvin Branch / Tarkiln Branch	Cause Unknown	AN0750	2006	Aquatic Life		Low
05	02030103170010-01	Pascack Brook (above Westwood gage)	Arsenic	01377358	2012	Water Supply		Low
05	02030103170020-01	Pascack Brook (below Westwood gage)	Arsenic	01377499, 01377500, 5-pas-1	2004	Water Supply		Low
05	02030103170020-01	Pascack Brook (below Westwood gage)	Oxygen, Dissolved	MB001, MB002, MB004, MB005	2010	Aquatic Life		Medium
05	02030103170020-01	Pascack Brook (below Westwood gage)	pH	MB001, MB005, MB006	2010	Aquatic Life		Medium
05	02030103170020-01	Pascack Brook (below Westwood gage)	Total Dissolved Solids (TDS)	01377500	2006	Water Supply		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Arsenic	Passaic River - Tidal	2002	Fish Consumption		Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Dieldrin	HEP	2008	Fish Consumption	L	Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	Oxygen, Dissolved	NJHDG-11	2012	Aquatic Life		Medium
04	02030103150040-01	Passaic R Lwr (4th St br to Second R)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	Arsenic	01389870, 01389880, 4-site-5	2006	Water Supply		Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	Chlordane in Fish Tissue	Dundee Lake, Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	DDT and its metabolites in Fish Tissue	Dundee Lake, Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	Escherichia coli	01389880	2014	Recreation		Medium
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	Mercury in Fish Tissue	Dundee Lake, Passaic River at Elmwood Park	2006	Fish Consumption		Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	PCB in Fish Tissue	Dundee Lake, Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120080-01	Passaic R Lwr (Dundee Dam to F.L. Ave)	pH	NJHDG-4	2014	Aquatic Life		Medium
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	Arsenic	01389895, 4-site-5	2006	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	Chlordane in Fish Tissue	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	DDT and its metabolites in Fish Tissue	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	Mercury in Fish Tissue	Passaic River at Elmwood Park	2006	Fish Consumption		Low
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	PCB in Fish Tissue	Passaic River at Elmwood Park	2006	Fish Consumption	L	Low
04	02030103120070-01	Passaic R Lwr (Fair Lawn Ave to Goffle)	pH	NJHDG-3	2014	Aquatic Life		Medium
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	Arsenic	01389500, 01389630, 4-pas-3, 4-site-6	1998	Water Supply		Low
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	Chlordane in Fish Tissue	Passaic River at Elmwood Park	2010	Fish Consumption	L	Low
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	DDT and its metabolites in Fish Tissue	Passaic River at Elmwood Park	2010	Fish Consumption	L	Low
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	Mercury in Fish Tissue	Passaic River at Elmwood Park	2010	Fish Consumption		Low
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	PCB in Fish Tissue	Passaic River at Elmwood Park	2012	Fish Consumption	L	Low
04	02030103120110-01	Passaic R Lwr (Goeffle Bk to Pump stn)	pH	NJHDG-2	2014	Aquatic Life		Medium
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	Arsenic	01389130, 4-pas-3, 4-site-6, 4-pas-4, 4-site-4	1998	Water Supply		Low
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	Chlordane in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2008	Fish Consumption	L	Low
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	DDT and its metabolites in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2006	Fish Consumption	L	Low
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	Mercury in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2006	Fish Consumption		Low
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	PCB in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103120100-01	Passaic R Lwr (Goffle Bk to Pompton R)	pH	01389005	2014	Aquatic Life		Medium
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Arsenic	Passaic River - Tidal	2014	Fish Consumption		Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Cause Unknown	NB205	2014	Aquatic Life		Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	DDT and its metabolites in Fish Tissue	HEP	2012	Fish Consumption	L	Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Dieldrin	HEP	2008	Fish Consumption	L	Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
04	02030103150050-01	Passaic R Lwr (Nwk Bay to 4th St brdg)	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Arsenic	01389895, 4-site-5	1998	Water Supply		Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Chlordane in Fish Tissue	Passaic River at Lyndhurst	2008	Fish Consumption	L	Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	DDT and its metabolites in Fish Tissue	Passaic River at Lyndhurst	2008	Fish Consumption	L	Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Dieldrin	HEP	2008	Fish Consumption	L	Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Mercury in Fish Tissue	Passaic River at Lyndhurst	2006	Fish Consumption		Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	PCB in Fish Tissue	Passaic River at Lyndhurst	2008	Fish Consumption	L	Low
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	pH	NJHDG-5, Passaic-8	2012	Aquatic Life		Medium
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Phosphorus (Total)	NJHDG-5, Passaic1, Passaic-8	2006	Aquatic Life		Medium
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Arsenic	Passaic River – Tidal	2006	Water Supply		Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Dieldrin	HEP	2008	Fish Consumption	L	Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Oxygen, Dissolved	NJHDG-8	2012	Aquatic Life		Medium
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	pH	NJHDG-7	2014	Aquatic Life		Medium
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Phosphorus (Total)	NJHDG-7	2014	Aquatic Life		Medium
04	02030103150030-01	Passaic R Lwr (Second R to Saddle R)	Total Suspended Solids (TSS)	NJHDG-7	2012	Aquatic Life		Medium
06	02030103010130-01	Passaic R Upr (40d 45m to Snyder Ave)	Arsenic	01379504, 01379500, 6-pas-2, 6-site-1	1998	Water Supply		Low
06	02030103010130-01	Passaic R Upr (40d 45m to Snyder Ave)	Total Suspended Solids (TSS)	01379500, 01379504, BA135	2006	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
06	02030103010010-01	Passaic R Upr (above Osborn Mills)	pH	NPS-IG1, NPS-PR1, NPS-FRBT	2014	Aquatic Life, Aquatic Life - Trout		Medium
06	02030103010150-01	Passaic R Upr (Columbia Rd to 40d 45m)	Arsenic	01379504, 01379500, 6-pas-2, 6-site-1	2006	Water Supply		Low
06	02030103010150-01	Passaic R Upr (Columbia Rd to 40d 45m)	Total Suspended Solids (TSS)	01379500	2006	Aquatic Life		Medium
06	02030103010070-01	Passaic R Upr (Dead R to Osborn Mills)	Arsenic	01379000, 6-pas-1, 6-site-2	1998	Water Supply		Low
06	02030103010070-01	Passaic R Upr (Dead R to Osborn Mills)	Oxygen, Dissolved	PA2	2010	Aquatic Life		Medium
06	02030103010160-01	Passaic R Upr (HanoverRR to ColumbiaRd)	Total Dissolved Solids (TDS)	01379580	2004	Water Supply		Medium
06	02030103010160-01	Passaic R Upr (HanoverRR to ColumbiaRd)	Total Suspended Solids (TSS)	01379580	2006	Aquatic Life		Medium
06	02030103010180-01	Passaic R Upr (Pine Bk br to Rockaway)	Arsenic	01382000, 6-site-3	2006	Water Supply		Low
06	02030103010180-01	Passaic R Upr (Pine Bk br to Rockaway)	Chlordane in Fish Tissue	Passaic River Great Piece	2006	Fish Consumption	L	Low
06	02030103010180-01	Passaic R Upr (Pine Bk br to Rockaway)	DDT and its metabolites in Fish Tissue	Passaic River Great Piece	2006	Fish Consumption	L	Low
06	02030103010180-01	Passaic R Upr (Pine Bk br to Rockaway)	Mercury in Fish Tissue	Passaic River Great Piece	2014	Fish Consumption		Low
06	02030103010180-01	Passaic R Upr (Pine Bk br to Rockaway)	PCB in Fish Tissue	Passaic River Great Piece	2006	Fish Consumption	L	Low
06	02030103010110-01	Passaic R Upr (Plainfield Rd to Dead R)	Arsenic	01379300, 6-pas-2, 6-site-1	2006	Water Supply		Low
06	02030103010110-01	Passaic R Upr (Plainfield Rd to Dead R)	Oxygen, Dissolved	PA3	2008	Aquatic Life		Medium
06	02030103010110-01	Passaic R Upr (Plainfield Rd to Dead R)	Total Suspended Solids (TSS)	01379500	2006	Aquatic Life		Medium
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	Arsenic	01382000, 6-site-3	1998	Water Supply		Low
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	Chlordane in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	DDT and its metabolites in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2006	Fish Consumption	L	Low
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	Mercury in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2006	Fish Consumption		Low
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	PCB in Fish Tissue	Passaic River Great Piece, Passaic River at Pompton	2008	Fish Consumption	L	Low
06	02030103040010-01	Passaic R Upr (Pompton R to Pine Bk)	Total Suspended Solids (TSS)	01382000	2014	Aquatic Life		Medium
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	Chlordane in Fish Tissue	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	DDT and its metabolites in Fish Tissue	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	Oxygen, Dissolved	PA5	2010	Aquatic Life		Medium
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	PCB in Fish Tissue	Passaic River at Hatfield Swamp	2006	Fish Consumption	L	Low
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	Total Dissolved Solids (TDS)	01379580	2004	Water Supply		Medium
06	02030103010170-01	Passaic R Upr (Rockaway to Hanover RR)	Total Suspended Solids (TSS)	01379580	2006	Aquatic Life		Medium
06	02030103010120-01	Passaic R Upr (Snyder to Plainfield Rd)	Arsenic	01379300, 6-pas-2, 6-site-1	2006	Water Supply		Low
06	02030103010120-01	Passaic R Upr (Snyder to Plainfield Rd)	Oxygen, Dissolved	PA3	2008	Aquatic Life		Medium
06	02030103010120-01	Passaic R Upr (Snyder to Plainfield Rd)	Total Suspended Solids (TSS)	01379500	2006	Aquatic Life		Medium
01	02040105040060-01	Paulins Kill (above Rt 15)	Oxygen, Dissolved	01443250	2004	Aquatic Life		Medium
01	02040105040060-01	Paulins Kill (above Rt 15)	Phosphorus (Total)	01443250	2004	Aquatic Life		Medium
01	02040105050050-01	Paulins Kill (below Blairstown gage)	Mercury in Fish Tissue	Columbia Lake	2012	Fish Consumption		Low
01	02040105050050-01	Paulins Kill (below Blairstown gage)	PCB in Fish Tissue	Columbia Lake	2012	Fish Consumption	L	Low
01	02040105050050-01	Paulins Kill (below Blairstown gage)	Temperature, water	DRBCNJ0036	2004	Aquatic Life - Trout		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040105050010-01	Paulins Kill (Blairstown to Stillwater)	Mercury in Fish Tissue	White Lake	2012	Fish Consumption		Low
01	02040105050010-01	Paulins Kill (Blairstown to Stillwater)	PCB in Fish Tissue	White Lake	2012	Fish Consumption	L	Low
01	02040105050010-01	Paulins Kill (Blairstown to Stillwater)	Temperature, water	01443500	2002	Aquatic Life - Trout		Medium
01	02040105040080-01	Paulins Kill (PK Lk outlet to Dry Brook)	Arsenic	01443441, 01443440, 1-pau-1	2004	Water Supply		Low
01	02040105040090-01	Paulins Kill (Stillwater Vil to PK Lake)	Temperature, water	01443500	2002	Aquatic Life - Trout		Medium
08	02030105060050-01	Peapack Brook (above/incl Gladstone Bk)	Cause Unknown	NB3, PB04	2014	Aquatic Life		Low
08	02030105060060-01	Peapack Brook (below Gladstone Brook)	Cause Unknown	PB08	2014	Aquatic Life		Low
04	02030103120010-01	Peckman River (above CG Res trib)	Cause Unknown	AN0275A	2008	Aquatic Life		Low
04	02030103120020-01	Peckman River (below CG Res trib)	PCB in Fish Tissue	Passic R at Pompton, Passic R at Hatfield Swamp	2006	Fish Consumption	L	Low
19	02040202040020-01	Pemberton / Ft Dix trib (NB Rancocas Ck)	Cause Unknown	AN0150	2006	Aquatic Life		Low
19	02040202040020-01	Pemberton / Ft Dix trib (NB Rancocas Ck)	Escherichia coli	BFBM000046	2012	Recreation		Medium
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Arsenic	01467082	2006	Water Supply		Low
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Chlordane in Fish Tissue	Pennsauken Creek, Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	Pennsauken Ck (below NB / SB)	DDT and its metabolites in Fish Tissue	Pennsauken Creek, Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Escherichia coli	BFBM000056	2012	Recreation		Medium
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Lead	01467082	1998	Water Supply		Low
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Oxygen, Dissolved	01467082	2008	Aquatic Life		Medium



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202100060-01	Pennsauken Ck (below NB / SB)	PCB in Fish Tissue	Pennsauken Creek, Pennsauken Creek @ Forked Landing	2006	Fish Consumption	L	Low
18	02040202100060-01	Pennsauken Ck (below NB / SB)	Phosphorus (Total)	01467082	2002	Aquatic Life		Medium
18	02040202100010-01	Pennsauken Ck NB (above NJTPK)	Arsenic	01467069, 18-pe-1, 18-pe-2	2014	Water Supply		Low
18	02040202100010-01	Pennsauken Ck NB (above NJTPK)	Cause Unknown	AN0179	2014	Aquatic Life		Low
18	02040202100030-01	Pennsauken Ck NB (below Strawbridge Lk)	Arsenic	01467069, 18-pe-1, 18-pe-2	2006	Water Supply		Low
18	02040202100020-01	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	Arsenic	01467069, 18-pe-1, 18-pe-2	1998	Water Supply		Low
18	02040202100020-01	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	Chlordane in Fish Tissue	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100020-01	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	DDT and its metabolites in Fish Tissue	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100020-01	Pennsauken Ck NB (incl StrwbrdgLk-NJTPK)	PCB in Fish Tissue	Strawbridge Lake at Moorestown	2008	Fish Consumption	L	Low
18	02040202100040-01	Pennsauken Ck SB (above Rt 41)	Arsenic	01467080, 01467075, 18-pe-3	1998	Water Supply		Low
18	02040202100040-01	Pennsauken Ck SB (above Rt 41)	Oxygen, Dissolved	Penn-SBPCB	2008	Aquatic Life		Medium
18	02040202100040-01	Pennsauken Ck SB (above Rt 41)	Phosphorus (Total)	01467080, Penn-SBPC2/SBPC3/SBPC4/SBPCB	2006	Aquatic Life		Medium
18	02040202100040-01	Pennsauken Ck SB (above Rt 41)	Total Suspended Solids (TSS)	01467081	2006	Aquatic Life		Medium
18	02040202100050-01	Pennsauken Ck SB (below Rt 41)	Arsenic	01467080, 01467081, 0146708130, 18-pe-3	2006	Water Supply		Low
18	02040202100050-01	Pennsauken Ck SB (below Rt 41)	Phosphorus (Total)	01467080, Penn-SBPC4	2006	Aquatic Life		Medium
18	02040202100050-01	Pennsauken Ck SB (below Rt 41)	Total Suspended Solids (TSS)	01467081	2006	Aquatic Life		Medium
15	02040302030070-01	Penny Pot Stream (GEHR)	pH	UPENN8TH	2006	Aquatic Life		Medium
03	02030103050030-01	Pequannock R (above OakRidge Res outlet)	Arsenic	01382170	2012	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
03	02030103050030-01	Pequannock R (above OakRidge Res outlet)	Escherichia coli	01382170	2012	Recreation		Medium
03	02030103050030-01	Pequannock R (above OakRidge Res outlet)	Oxygen, Dissolved	01382210	2014	Aquatic Life - Trout		Medium
03	02030103050080-01	Pequannock R (below Macopin gage)	Chlordane in Fish Tissue	Pompton R at Pequannock R	2008	Fish Consumption	L	Low
03	02030103050080-01	Pequannock R (below Macopin gage)	DDT and its metabolites in Fish Tissue	Pompton R at Pequannock R	2006	Fish Consumption	L	Low
03	02030103050080-01	Pequannock R (below Macopin gage)	PCB in Fish Tissue	Pompton R at Pequannock R	2008	Fish Consumption	L	Low
03	02030103050080-01	Pequannock R (below Macopin gage)	Temperature, water	01382800, PQ10/15/14, Pqblmr, Pqmltb, Pqbtlr, Pqrmdl	2002	Aquatic Life - Trout		Medium
03	02030103050050-01	Pequannock R (Charlotteburg to OakRidge)	Arsenic	01382310	2012	Water Supply		Low
03	02030103050050-01	Pequannock R (Charlotteburg to OakRidge)	Oxygen, Dissolved	01382310	2012	Aquatic Life - Trout		Medium
03	02030103050060-01	Pequannock R (Macopin gage to Charl'brg)	Cause Unknown	AN0263, AN0264	2012	Aquatic Life		Low
01	02040105070030-01	Pequest R (above Brighton)	Oxygen, Dissolved	Muckshaw Ponds	2010	Aquatic Life		Medium
01	02040105090060-01	Pequest R (below Furnace Brook)	Arsenic	01446400, 01445500, 1-peq-3	1998	Water Supply		Low
01	02040105090060-01	Pequest R (below Furnace Brook)	pH	01446400, DRBCNJ0033	2014	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105090030-01	Pequest R (Furnace Bk to Cemetary Road)	Cause Unknown	FIBI003	2014	Aquatic Life		Low
01	02040105070040-01	Pequest R (Trout Brook to Brighton)	Escherichia coli	01444990	2008	Recreation		Medium
01	02040105070040-01	Pequest R (Trout Brook to Brighton)	pH	Turtle Pond	2014	Aquatic Life		Medium
09	02030105080010-01	Peters Brook	Cause Unknown	AN0376, FIBI025	2006	Aquatic Life		Low
12	02030104060060-01	Pews Creek to Shrewsbury River	Arsenic	01407090	2012	Water Supply		Low
12	02030104060060-01	Pews Creek to Shrewsbury River	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060060-01	Pews Creek to Shrewsbury River	DDT and its metabolites in Fish Tissue	HEP	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104060060-01	Pews Creek to Shrewsbury River	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
12	02030104060060-01	Pews Creek to Shrewsbury River	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060060-01	Pews Creek to Shrewsbury River	Phosphorus (Total)	01407090	2010	Aquatic Life		Medium
12	02030104060060-01	Pews Creek to Shrewsbury River	Total Coliform	Shellfish Network	2014	Shellfish		Medium
17	02040206070090-01	Phillips Creek / Jacobs Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
10	02030105110080-01	Pike Run (above Cruser Brook)	Cause Unknown	AN0402, AN0404, AN0405	2008	Aquatic Life		Low
10	02030105110100-01	Pike Run (below Cruser Brook)	Phosphorus (Total)	01401700	2008	Aquatic Life		High
12	02030104070080-01	Pine Brook / Hockhockson Brook	Arsenic	01407520	2012	Water Supply		Low
12	02030104070080-01	Pine Brook / Hockhockson Brook	Phosphorus (Total)	MCHD-34, MCHD-75	2014	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104070080-01	Pine Brook / Hockhockson Brook	Temperature, water	AN0475	2012	Aquatic Life - Trout		Medium
17	02040206090090-01	Pine Mount Creek	Cause Unknown	AN0717	2008	Aquatic Life		Low
08	02030105040020-01	Pleasant Run	Cause Unknown	AN0340, SBWA15	2006	Aquatic Life		Low
08	02030105040020-01	Pleasant Run	Escherichia coli	01398090	2006	Recreation	R	Medium
01	02040105140010-01	Pohatcong Ck (above Rt 31)	Temperature, water	01455135	2004	Aquatic Life - Trout		Medium
01	02040105140070-01	Pohatcong Ck (below Springtown) incl UDRV	Phosphorus (Total)	DRBCNJ0027	2004	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105140020-01	Pohatcong Ck (Brass Castle Ck to Rt 31)	Arsenic	01455200	2012	Water Supply		Low
01	02040105140020-01	Pohatcong Ck (Brass Castle Ck to Rt 31)	Total Suspended Solids (TSS)	01455200	2008	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105140030-01	Pohatcong Ck (Edison Rd-Brass Castle Ck)	Arsenic	01455200	2012	Water Supply		Low
01	02040105140030-01	Pohatcong Ck (Edison Rd-Brass Castle Ck)	pH	01455200	2002	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105140030-01	Pohatcong Ck (Edison Rd-Brass Castle Ck)	Phosphorus (Total)	01455200	2002	Aquatic Life, Aquatic Life - Trout		Medium
01	02040105140030-01	Pohatcong Ck (Edison Rd-Brass Castle Ck)	Total Suspended Solids (TSS)	01455200	2008	Aquatic Life, Aquatic Life - Trout		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040105140050-01	Pohatcong Ck (Merrill Ck to Edison Rd)	Arsenic	01455200	2012	Water Supply		Low
01	02040105140050-01	Pohatcong Ck (Merrill Ck to Edison Rd)	pH	01455200	2008	Aquatic Life		Medium
01	02040105140050-01	Pohatcong Ck (Merrill Ck to Edison Rd)	Phosphorus (Total)	01455200	2002	Aquatic Life		Medium
01	02040105140050-01	Pohatcong Ck (Merrill Ck to Edison Rd)	Total Suspended Solids (TSS)	01455200	2008	Aquatic Life		Medium
01	02040105140060-01	Pohatcong Ck (Springtown to Merrill Ck)	Arsenic	01455240	2012	Water Supply		Low
19	02040202030060-01	Pole Bridge Br (CountryLk dam - Co line)	Oxygen, Dissolved	01466130	2014	Aquatic Life		Medium
18	02040202090020-01	Pompeston Creek (above Rt 130)	Escherichia coli	BFBM000034	2008	Recreation		Medium
18	02040202090020-01	Pompeston Creek (above Rt 130)	Oxygen, Dissolved	PM 003	2010	Aquatic Life		Medium
18	02040202090020-01	Pompeston Creek (above Rt 130)	pH	PM 002, PM 003	2010	Aquatic Life		Medium
18	02040202090020-01	Pompeston Creek (above Rt 130)	Phosphorus (Total)	PM 002, PM 003	2008	Aquatic Life		Medium
18	02040202090030-01	Pompeston Creek (below Rt130/Swede to 40d)	Cause Unknown	AN0177	2006	Aquatic Life		Low
18	02040202090030-01	Pompeston Creek (below Rt130/Swede to 40d)	Escherichia coli	BFBM000034	2012	Recreation		Medium
18	02040202090030-01	Pompeston Creek (below Rt130/Swede to 40d)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
03	02030103110020-01	Pompton River	Cause Unknown	AN0270, AN0268	2012	Aquatic Life		Low
03	02030103110020-01	Pompton River	Chlordane in Fish Tissue	Passaic River at Pompton	2008	Fish Consumption	L	Low
03	02030103110020-01	Pompton River	DDT and its metabolites in Fish Tissue	Passaic River at Pompton	2006	Fish Consumption	L	Low
03	02030103110020-01	Pompton River	Escherichia coli	01388850	2008	Recreation		Medium
03	02030103110020-01	Pompton River	Lead	01388600, 3-site-7, 01388500	2007	Water Supply		Low
03	02030103110020-01	Pompton River	PCB in Fish Tissue	Passaic River at Pompton	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
16	02040206230070-01	Pond Creek / Cape May Canal West	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
11	02040105240040-01	Pond Run	Total Suspended Solids (TSS)	01463920	2006	Aquatic Life		Medium
11	02040105240040-01	Pond Run	Turbidity	01463920	2010	Aquatic Life		Medium
12	02030104090020-01	Poplar Brook	Phosphorus (Total)	01407630	2002	Aquatic Life		Medium
12	02030104070100-01	Poricy Bk/Swimming R(below SwimmingR Rd)	DDT and its metabolites in Fish Tissue	Navesink River at Fairhaven	2006	Fish Consumption	L	Low
12	02030104070100-01	Poricy Bk/Swimming R(below SwimmingR Rd)	Oxygen, Dissolved	MCHD-41	2006	Aquatic Life		Medium
12	02030104070100-01	Poricy Bk/Swimming R(below SwimmingR Rd)	PCB in Fish Tissue	Navesink River at Fairhaven	2006	Fish Consumption	L	Low
08	02030105050050-01	Pottersville trib (Lamington River)	Temperature, water	01399520	2012	Aquatic Life - Trout		Medium
04	02030103120030-01	Preakness Brook / Naachtpunkt Brook	Cause Unknown	AN0272, AN0273	2006	Aquatic Life		Low
08	02030105020090-01	Prescott Brook / Round Valley Reservoir	Arsenic	01397160	2012	Water Supply		Low
08	02030105020090-01	Prescott Brook / Round Valley Reservoir	Escherichia coli	BFBM000027	2012	Recreation		Medium
06	02030103010020-01	Primrose Brook	Arsenic	01378780	2012	Water Supply		Low
06	02030103010020-01	Primrose Brook	Oxygen, Dissolved	PB2	2010	Aquatic Life - Trout		Medium
06	02030103010020-01	Primrose Brook	pH	PB1, PB2, PRB, NPS-WP1/WP2/CSP/JB2	2010	Aquatic Life, Aquatic Life - Trout		Medium
06	02030103010020-01	Primrose Brook	Temperature, water	PRB, PB2	2010	Aquatic Life - Trout		Medium
06	02030103010020-01	Primrose Brook	Turbidity	PRB	2012	Aquatic Life, Aquatic Life - Trout		Medium
14	02040301160070-01	Pump Branch (above 74d53m road)	pH	01409408	2002	Aquatic Life		Medium
14	02040301160080-01	Pump Branch (below 74d53m road)	pH	01409408, NPUMDIKE, NPUHALUW	2002	Aquatic Life		Medium
02	02020007030020-01	Quarryville Brook	Temperature, water	BFBM000188	2014	Aquatic Life - Trout		Medium
18	02040202150060-01	Raccoon Ck (below Swedesboro rd)/BirchCk	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2014	Fish Consumption	L	Low
18	02040202150020-01	Raccoon Ck (Rt 45 to/incl Clems Run)	pH	0147710950	2014	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
18	02040202150020-01	Raccoon Ck (Rt 45 to/incl Clems Run)	Phosphorus (Total)	01477110	2010	Aquatic Life		Medium
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	Arsenic	01477110, 01477120, 18-rac-1	2006	Water Supply		Low
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	Chlordane in Fish Tissue	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	DDT and its metabolites in Fish Tissue	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	PCB in Fish Tissue	Raccoon Creek at Swedesboro	2006	Fish Consumption	L	Low
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	pH	01477110	2014	Aquatic Life		Medium
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	Phosphorus (Total)	01477120, 0147710950	2002	Aquatic Life		Medium
18	02040202150040-01	Raccoon Ck (Russell Mill Rd to Rt 45)	Turbidity	01477120	2006	Aquatic Life		Medium
18	02040202150050-01	Raccoon Ck (Swedesboro rd-RussellMillRd)	Phosphorus (Total)	Basgalore Lake	2014	Aquatic Life		Medium
18	02040202150030-01	Raccoon Ck SB	Cause Unknown	AN0682	2014	Aquatic Life		Low
17	02040206070070-01	Raccoon Ditch (Stow Creek)	Oxygen, Dissolved	R51	2012	Aquatic Life		Medium
17	02040206070070-01	Raccoon Ditch (Stow Creek)	PCB in Fish Tissue	Delaware Bay Tribs	2008	Fish Consumption	L	Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Chlordane in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	DDT and its metabolites in Fish Tissue	HEP	2012	Fish Consumption	L	Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Dieldrin	HEP	2008	Fish Consumption	L	Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Heptachlor epoxide	HEP	2012	Fish Consumption	L	Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Hexachlorobenzene	HEP	2012	Fish Consumption		Low
07	02030104050100-01	Rahway River (below Robinsons Branch)	Mercury in Fish Tissue	HEP	2010	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
07	02030104050100-01	Rahway River (below Robinsons Branch)	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104050040-01	Rahway River (Kenilworth Blvd to EB / WB)	Arsenic	01394500	2006	Water Supply		Low
07	02030104050040-01	Rahway River (Kenilworth Blvd to EB / WB)	Phosphorus (Total)	01394500	2004	Aquatic Life		Medium
07	02030104050060-01	Rahway River (Robinsons Br to KenilworthBlvd)	Arsenic	01395000, 7-rah-1	2004	Water Supply		Low
07	02030104050060-01	Rahway River (Robinsons Br to KenilworthBlvd)	Mercury in Fish Tissue	Rahway R at Valley Road Pond	2008	Fish Consumption		Low
07	02030104050060-01	Rahway River (Robinsons Br to KenilworthBlvd)	Oxygen, Dissolved	Rahway River Park Lake, Nomahegan Park Lake	2010	Aquatic Life		Medium
07	02030104050060-01	Rahway River (Robinsons Br to KenilworthBlvd)	Phosphorus (Total)	01395000, 01394630, Rahway Park Lake, Bloodgoods Pond	2002	Aquatic Life		Medium
07	02030104050090-01	Rahway River SB	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104050090-01	Rahway River SB	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
07	02030104050090-01	Rahway River SB	Phosphorus (Total)	01396030	2004	Aquatic Life		Medium
07	02030104050090-01	Rahway River SB	Total Dissolved Solids (TDS)	01396030	2006	Water Supply		Medium
07	02030104050010-01	Rahway River WB	Phosphorus (Total)	01393960, Campbells Pond	2002	Aquatic Life		Medium
07	02030104050010-01	Rahway River WB	Sulfates	01393960	2006	Water Supply		Low
07	02030104050010-01	Rahway River WB	Total Dissolved Solids (TDS)	01393960	2002	Water Supply		Medium
03	02030103100010-01	Ramapo R (above 74d 11m 00s)	Oxygen, Dissolved	RA1	2010	Aquatic Life		Medium
03	02030103100030-01	Ramapo R (above Fyke Bk to 74d 11m 00s)	Temperature, water	BFBM000189	2014	Aquatic Life - Trout		Medium
03	02030103100040-01	Ramapo R (Bear Swamp Bk thru Fyke Bk)	pH	Bear Swamp Lake 2	2010	Aquatic Life		Medium
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	Chlordane in Fish Tissue	Pompton Lake, Ramapo Lake, Ramapo River at Pompton Falls	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	DDT and its metabolites in Fish Tissue	Pompton Lake, Ramapo Lake, Ramapo River at Pompton Falls	2008	Fish Consumption	L	Low
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	Mercury in Fish Tissue	Pompton Lake, Ramapo Lake, Ramapo River at Pompton Falls	2010	Fish Consumption		Low
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	PCB in Fish Tissue	Pompton Lake, Ramapo Lake, Ramapo River at Pompton Falls	2010	Fish Consumption	L	Low
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	pH	01388100, 01388000, PRTMDL-RA3, DROUGHT5	2004	Aquatic Life		Medium
03	02030103100070-01	Ramapo R (below Crystal Lake bridge)	Temperature, water	01388000	2014	Aquatic Life		Medium
03	02030103100050-01	Ramapo R (Crystal Lk br to BearSwamp Bk)	Temperature, water	01387700	2014	Aquatic Life - Trout		Medium
19	02040202080050-01	Rancocas Ck (below Rt 130)	Mercury in Fish Tissue	Rancocas Creek at Riverside	2014	Fish Consumption		Low
19	02040202080050-01	Rancocas Ck (below Rt 130)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2010	Fish Consumption	L	Low
19	02040202080020-01	Rancocas Ck (Martins Beach to NB/SB)	Escherichia coli	BFBM000020	2012	Recreation		Medium
19	02040202080020-01	Rancocas Ck (Martins Beach to NB/SB)	Mercury in Fish Tissue	Rancocas Creek at Centerton	2014	Fish Consumption		Low
19	02040202080020-01	Rancocas Ck (Martins Beach to NB/SB)	Oxygen, Dissolved	RCW-M1	2014	Aquatic Life		Medium
19	02040202080020-01	Rancocas Ck (Martins Beach to NB/SB)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202080020-01	Rancocas Ck (Martins Beach to NB/SB)	Phosphorus (Total)	01467011, RCW-M1	2004	Aquatic Life		Medium
19	02040202080040-01	Rancocas Ck (Rt 130 to Martins Beach)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202040050-01	Rancocas Ck NB (below Smithville)	Arsenic	01467005, 19-ra-4n	2004	Water Supply		Low
19	02040202040050-01	Rancocas Ck NB (below Smithville)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202040050-01	Rancocas Ck NB (below Smithville)	Phosphorus (Total)	01467005, RCW-N1, RCW-N3	2002	Aquatic Life		Medium
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Arsenic	01465950, 19-ra-1n	2012	Water Supply	A	Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Chlordane in Fish Tissue	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Copper	01465950, 19-ra-1n	2004	Aquatic Life		Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	DDT and its metabolites in Fish Tissue	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Lead	01465950, 19-ra-1n	1998	Water Supply		Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	Mercury in Fish Tissue	Mirror Lake	2008	Fish Consumption		Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	PCB in Fish Tissue	Mirror Lake	2012	Fish Consumption	L	Low
19	02040202020030-01	Rancocas Ck NB (incl Mirror Lk-GauntsBk)	pH	01465970, NNOMIRRS	2002	Aquatic Life		Medium
19	02040202020040-01	Rancocas Ck NB (NL dam to Mirror Lk)	Arsenic	01467000, 01465950, 19-ra-1n, 19-ra-3n	2014	Water Supply		Low
19	02040202020040-01	Rancocas Ck NB (NL dam to Mirror Lk)	Copper	01467000, 01465950, 19-ra-1n, 19-ra-3n	2014	Aquatic Life		Low
19	02040202020040-01	Rancocas Ck NB (NL dam to Mirror Lk)	Escherichia coli	01465970	2006	Recreation		Medium
19	02040202020040-01	Rancocas Ck NB (NL dam to Mirror Lk)	Mercury in Fish Tissue	Mirror Lake	2012	Fish Consumption		Low
19	02040202020040-01	Rancocas Ck NB (NL dam to Mirror Lk)	pH	01465970, NNOMIRRS, NNONEWLI, RCW-NBRanc1	2002	Aquatic Life		Medium
19	02040202040010-01	Rancocas Ck NB (Pemberton br to NL dam)	Arsenic	01467000, 19-ra-3n	2008	Water Supply		Low
19	02040202040010-01	Rancocas Ck NB (Pemberton br to NL dam)	Copper	01467000, 19-ra-3n	2002	Aquatic Life		Low
19	02040202040010-01	Rancocas Ck NB (Pemberton br to NL dam)	pH	RCW-NBRanc1	2014	Aquatic Life		Medium
19	02040202040030-01	Rancocas Ck NB (Rt 206 to Pemberton br)	Arsenic	01467000, 19-ra-3n, 19-ra-4n	2006	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202040030-01	Rancocas Ck NB (Rt 206 to Pemberton br)	Copper	01467000, 19-ra-3n	2002	Aquatic Life		Low
19	02040202040030-01	Rancocas Ck NB (Rt 206 to Pemberton br)	Phosphorus (Total)	RCW-NBRanc2/NBRanc3/NBRanc4/IR1	2006	Aquatic Life		Medium
19	02040202040040-01	Rancocas Ck NB (Smithville to Rt 206)	Arsenic	01467005, 19-ra-4n	2006	Water Supply		Low
19	02040202040040-01	Rancocas Ck NB (Smithville to Rt 206)	Phosphorus (Total)	0146700350, RCW-PR1, RCW-PRB	2006	Aquatic Life		Medium
19	02040202040040-01	Rancocas Ck NB (Smithville to Rt 206)	Turbidity	RCW-PRB	2014	Aquatic Life		Medium
19	02040202050060-01	Rancocas Ck SB (above Friendship Ck)	Arsenic	01465835	2008	Water Supply		Low
19	02040202050060-01	Rancocas Ck SB (above Friendship Ck)	Escherichia coli	01465835	2008	Recreation		Medium
19	02040202050060-01	Rancocas Ck SB (above Friendship Ck)	PCB in Fish Tissue	Rancocas Tributary between Vincetown/BuDDxown	2006	Fish Consumption	L	Low
19	02040202050060-01	Rancocas Ck SB (above Friendship Ck)	pH	01465835	2008	Aquatic Life		Medium
19	02040202050060-01	Rancocas Ck SB (above Friendship Ck)	Phosphorus (Total)	01465835	2008	Aquatic Life		Medium
19	02040202070030-01	Rancocas Ck SB (below Rt 38)	Arsenic	01465915, 19-ra-1s	2006	Water Supply		Low
19	02040202070030-01	Rancocas Ck SB (below Rt 38)	Escherichia coli	01465915	2006	Recreation		Medium
19	02040202070030-01	Rancocas Ck SB (below Rt 38)	Oxygen, Dissolved	01465915	2012	Aquatic Life		Medium
19	02040202070030-01	Rancocas Ck SB (below Rt 38)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202070030-01	Rancocas Ck SB (below Rt 38)	Phosphorus (Total)	01465915	2002	Aquatic Life		Medium
19	02040202050090-01	Rancocas Ck SB (BobbysRun to Vincentown)	Arsenic	01465854, 01465850, 19-ra-1s	2006	Water Supply		Low
19	02040202050090-01	Rancocas Ck SB (BobbysRun to Vincentown)	PCB in Fish Tissue	Rancocas Tributary between Vincetown/BuDDxown	2006	Fish Consumption	L	Low
19	02040202050090-01	Rancocas Ck SB (BobbysRun to Vincentown)	pH	01465850, RCW-SB1	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202050090-01	Rancocas Ck SB (BobbysRun to Vincentown)	Phosphorus (Total)	01465854, 01465850, RCW-SBRanc1/SBRanc2/SB1/SB2	2006	Aquatic Life		Medium
19	02040202070020-01	Rancocas Ck SB (Rt 38 to Bobbys Run)	Arsenic	01465915, 19-ra-1s	2004	Water Supply		Low
19	02040202070020-01	Rancocas Ck SB (Rt 38 to Bobbys Run)	Escherichia coli	01465915	2006	Recreation		Medium
19	02040202070020-01	Rancocas Ck SB (Rt 38 to Bobbys Run)	Oxygen, Dissolved	01465915	2012	Aquatic Life		Medium
19	02040202070020-01	Rancocas Ck SB (Rt 38 to Bobbys Run)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202070020-01	Rancocas Ck SB (Rt 38 to Bobbys Run)	Phosphorus (Total)	01465915	2002	Aquatic Life		Medium
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	Arsenic	01465835, 19-ra-3s	2008	Water Supply		Low
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	Escherichia coli	01465835	2008	Recreation		Medium
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	Oxygen, Dissolved	01465835, Vincentown Millpond	2008	Aquatic Life		Medium
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	PCB in Fish Tissue	Rancocas Tributary between Vincetown/BuDDxown	2006	Fish Consumption	L	Low
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	pH	01465835	2008	Aquatic Life		Medium
19	02040202050080-01	Rancocas Ck SB (Vincentown-FriendshipCk)	Phosphorus (Total)	01465835, Vincentown Millpond	2006	Aquatic Life		Medium
19	02040202060080-01	Rancocas Ck SW Branch (above Medford br)	Arsenic	01465857	2008	Water Supply		Low
19	02040202060080-01	Rancocas Ck SW Branch (above Medford br)	Nitrates	SBR3	2008	Aquatic Life		Medium
19	02040202060080-01	Rancocas Ck SW Branch (above Medford br)	pH	SBR2, SBR3	2008	Aquatic Life		Medium
19	02040202060080-01	Rancocas Ck SW Branch (above Medford br)	Phosphorus (Total)	01465857, SBR0, SBR2, SBR3	2006	Aquatic Life		Medium
19	02040202060080-01	Rancocas Ck SW Branch (above Medford br)	Total Suspended Solids (TSS)	SBR0	2008	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
19	02040202060100-01	Rancocas Ck SW Branch (below Medford br)	Arsenic	01465882, 19-ra-2s	2004	Water Supply		Low
19	02040202060100-01	Rancocas Ck SW Branch (below Medford br)	Oxygen, Dissolved	01465882, RCW-SRB, RCW-SWBRanc1, RCW-SR1	2008	Aquatic Life		Medium
19	02040202060100-01	Rancocas Ck SW Branch (below Medford br)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
19	02040202060100-01	Rancocas Ck SW Branch (below Medford br)	pH	01465882, RCW-SWBRanc1	2008	Aquatic Life		Medium
19	02040202060100-01	Rancocas Ck SW Branch (below Medford br)	Phosphorus (Total)	01465900, 01465884, 01465882, RCW-SWBRanc1/SRB/SR1	2006	Aquatic Life		Medium
12	02030104910030-01	Raritan Bay ( deep water)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
12	02030104910030-01	Raritan Bay ( deep water)	Cause Unknown	RB024, RB027, RB203, RB210, RB216	2014	Aquatic Life		Low
12	02030104910030-01	Raritan Bay ( deep water)	Chlordane in Fish Tissue	Raritan Bay @ Keansburg, Sandy Hook Bay	2006	Fish Consumption	L	Low
12	02030104910030-01	Raritan Bay ( deep water)	DDT and its metabolites in Fish Tissue	Raritan Bay @ Keansburg, Sandy Hook Bay	2012	Fish Consumption	L	Low
12	02030104910030-01	Raritan Bay ( deep water)	Dieldrin	HEP	2008	Fish Consumption	L	Low
12	02030104910030-01	Raritan Bay ( deep water)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
12	02030104910030-01	Raritan Bay ( deep water)	Mercury in Fish Tissue	Raritan Bay @ Keansburg, Sandy Hook Bay	2008	Fish Consumption		Low
12	02030104910030-01	Raritan Bay ( deep water)	PCB in Fish Tissue	Raritan Bay @ Keansburg, Sandy Hook Bay	2008	Fish Consumption	L	Low
12	02030104910030-01	Raritan Bay ( deep water)	Total Coliform	Shellfish Network	2008	Shellfish		Medium
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Chlordane in Fish Tissue	Raritan River Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	DDT and its metabolites in Fish Tissue	Raritan River Lower at Union Beach	2012	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Dieldrin	HEP	2008	Fish Consumption	L	Low
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Oxygen, Dissolved	NJHDG-28	2014	Aquatic Life		Medium
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	PCB in Fish Tissue	Raritan River Lower at Union Beach	2006	Fish Consumption	L	Low
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	pH	Passaic-25	2014	Aquatic Life		Medium
12	02030104910010-01	Raritan Bay (west of Thorns Ck)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Chlordane in Fish Tissue	Raritan River Upper at Rt 1, Raritan @ Rt 35	2008	Fish Consumption	L	Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	DDT and its metabolites in Fish Tissue	Raritan River Upper at Rt 1, Raritan @ Rt 35	2012	Fish Consumption	L	Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Dieldrin	HEP	2008	Fish Consumption	L	Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Enterococcus	NJHDG-27	2012	Recreation		Medium
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Mercury in Fish Tissue	Raritan River Upper at Rt 1, Raritan @ Rt 35	2010	Fish Consumption		Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	PCB in Fish Tissue	Raritan River Upper at Rt 1, Raritan @ Rt 35	2006	Fish Consumption	L	Low
09	02030105160100-01	Raritan R Lwr (below Lawrence Bk)	Total Coliform	Shellfish Network	2014	Shellfish		Medium
09	02030105120140-01	Raritan R Lwr (I-287 Piscatway-Millstone)	Arsenic	01403300	2004	Water Supply		Low
09	02030105120140-01	Raritan R Lwr (I-287 Piscatway-Millstone)	Benzene	01403300	2006	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105120140-01	Raritan R Lwr (I-287 Piscatway-Millstone)	pH	R4	2014	Aquatic Life		Medium
09	02030105120140-01	Raritan R Lwr (I-287 Piscatway-Millstone)	Phosphorus (Total)	01403300	2002	Aquatic Life		Medium
09	02030105120140-01	Raritan R Lwr (I-287 Piscatway-Millstone)	Total Suspended Solids (TSS)	01403300	2006	Aquatic Life		High
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Arsenic	01404170	2002	Water Supply		Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Chlordane in Fish Tissue	Raritan River @ Route 1 Bridge, Raritan River Upper	2008	Fish Consumption	L	Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	DDT and its metabolites in Fish Tissue	Raritan River @ Route 1 Bridge, Raritan River Upper	2012	Fish Consumption	L	Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Dieldrin	HEP	2008	Fish Consumption	L	Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2008	Fish Consumption		Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Enterococcus	NJHDG-26	2012	Recreation		Medium
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Mercury in Fish Tissue	Raritan River @ Route 1 Bridge, Raritan River Upper	2010	Fish Consumption		Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	PCB in Fish Tissue	Raritan River @ Route 1 Bridge, Raritan River Upper	2008	Fish Consumption	L	Low
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	pH	Passaic-23	2014	Aquatic Life		Medium
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Phosphorus (Total)	01404170	2002	Aquatic Life		Medium
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Temperature, water	Passaic-23	2014	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105120170-01	Raritan R Lwr (Lawrence Bk to Mile Run)	Total Suspended Solids (TSS)	01404170	2006	Aquatic Life		Medium
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	Arsenic	01403300, 01404170	2004	Water Supply		Low
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	Benzene	01403300	2006	Water Supply		Low
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	PCB in Fish Tissue	Raritan R at Millstone	2006	Fish Consumption	L	Low
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	pH	01460595	2014	Aquatic Life		Medium
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	Phosphorus (Total)	01403300, 01404170	2006	Aquatic Life	R	Medium
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	Temperature, water	01460595	2014	Aquatic Life	R	Medium
09	02030105120160-01	Raritan R Lwr (MileRun to I-287 Pisctwy)	Total Suspended Solids (TSS)	01403300, 01404170	2006	Aquatic Life	R	Medium
09	02030105080030-01	Raritan R Lwr (Millstone to Rt 206)	pH	R1	2010	Aquatic Life		Medium
09	02030105080030-01	Raritan R Lwr (Millstone to Rt 206)	Phosphorus (Total)	RR1	2014	Aquatic Life		High
09	02030105080030-01	Raritan R Lwr (Millstone to Rt 206)	Temperature, water	01400500	2014	Aquatic Life		Medium
09	02030105080030-01	Raritan R Lwr (Millstone to Rt 206)	Total Suspended Solids (TSS)	RR1	2014	Aquatic Life		High
09	02030105080030-01	Raritan R Lwr (Millstone to Rt 206)	Turbidity	01400500	2014	Aquatic Life		Medium
09	02030105080020-01	Raritan R Lwr (Rt 206 to NB / SB)	pH	01400500, R1	2014	Aquatic Life		Medium
09	02030105080020-01	Raritan R Lwr (Rt 206 to NB / SB)	Phosphorus (Total)	Japanese Garden A, Lake 31A	2010	Aquatic Life		High
09	02030105080020-01	Raritan R Lwr (Rt 206 to NB / SB)	Temperature, water	01400500	2014	Aquatic Life		Medium
09	02030105080020-01	Raritan R Lwr (Rt 206 to NB / SB)	Turbidity	01400500	2014	Aquatic Life		Medium
08	02030105070030-01	Raritan R NB (below Rt 28)	Arsenic	01400000	2012	Water Supply		Low
08	02030105070030-01	Raritan R NB (below Rt 28)	pH	01400000, NBRR7	2012	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
08	02030105060030-01	Raritan R NB (incl McVickers to India Bk)	Oxygen, Dissolved	NBRR1	2012	Aquatic Life - Trout		Medium
08	02030105060030-01	Raritan R NB (incl McVickers to India Bk)	Temperature, water	NBRR1	2010	Aquatic Life - Trout		Medium
08	02030105060070-01	Raritan R NB (incl Mine Bk to Peapack Bk)	Arsenic	01398900	2012	Water Supply		Low
08	02030105060070-01	Raritan R NB (incl Mine Bk to Peapack Bk)	Cause Unknown	AN0352	2008	Aquatic Life		Low
08	02030105060090-01	Raritan R NB (Lamington R to Mine Bk)	Oxygen, Dissolved	NBRR6	2012	Aquatic Life		Medium
08	02030105060040-01	Raritan R NB (Peapack Bk to McVickers Bk)	Total Suspended Solids (TSS)	NBRR4-Rlo	2014	Aquatic Life, Aquatic Life - Trout		High
08	02030105070010-01	Raritan R NB (Rt 28 to Lamington R)	Arsenic	01399820	2012	Water Supply		Low
08	02030105070010-01	Raritan R NB (Rt 28 to Lamington R)	Cause Unknown	AN0371	2008	Aquatic Life		Low
08	02030105010060-01	Raritan R SB (Califon br to Long Valley)	Oxygen, Dissolved	SBR4	2010	Aquatic Life - Trout		Medium
08	02030105010060-01	Raritan R SB (Califon br to Long Valley)	pH	SBR4	2014	Aquatic Life, Aquatic Life - Trout		High
08	02030105010060-01	Raritan R SB (Califon br to Long Valley)	Temperature, water	SBR4	2006	Aquatic Life - Trout		Medium
08	02030105010050-01	Raritan R SB (LongValley br to 74d44m15s)	Cause Unknown	SBWA02	2014	Aquatic Life		Low
08	02030105040040-01	Raritan R SB (NB to Pleasant Run)	Arsenic	01398102, 8-sb-6	1998	Water Supply		Low
08	02030105040040-01	Raritan R SB (NB to Pleasant Run)	pH	SBRR10, 01398102	2010	Aquatic Life		High
08	02030105040040-01	Raritan R SB (NB to Pleasant Run)	Phosphorus (Total)	01398102, SBRR10	2006	Aquatic Life		High
08	02030105040010-01	Raritan R SB (Pleasant Run-Three Bridges)	Arsenic	01397415	2006	Water Supply		Low
08	02030105040010-01	Raritan R SB (Pleasant Run-Three Bridges)	Phosphorus (Total)	SBRR9, 01397415	2006	Aquatic Life		High
08	02030105020080-01	Raritan R SB (Prescott Bk to River Rd)	Arsenic	01397000, 8-sb-3	2004	Water Supply		Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
08	02030105020080-01	Raritan R SB (Prescott Bk to River Rd)	pH	01397000	2014	Aquatic Lfpe, Aquatic Life - Trout		Medium
08	02030105020080-01	Raritan R SB (Prescott Bk to River Rd)	Temperature, water	SBRR8	2006	Aquatic Life - Trout		Medium
08	02030105020070-01	Raritan R SB (River Rd to Spruce Run)	Phosphorus (Total)	SBRR6, SBRR7	2010	Aquatic Lfpe, Aquatic Life - Trout		High
08	02030105020070-01	Raritan R SB (River Rd to Spruce Run)	Temperature, water	SB1, SBRR6, SBRR7	2010	Aquatic Life - Trout	R	Medium
08	02030105020070-01	Raritan R SB (River Rd to Spruce Run)	Total Suspended Solids (TSS)	SBRR6, SBRR7	2010	Aquatic Life, Aquatic Life - Trout		High
08	02030105010080-01	Raritan R SB (Spruce Run-StoneMill gage)	Temperature, water	01396535	2002	Aquatic Life - Trout		Medium
08	02030105010070-01	Raritan R SB (StoneMill gage to Califon)	Arsenic	01396350	2012	Water Supply		Low
08	02030105010070-01	Raritan R SB (StoneMill gage to Califon)	Cause Unknown	AN0316	2014	Aquatic Life		Low
08	02030105020100-01	Raritan R SB (Three Bridges-Prescott Bk)	pH	01397000	2014	Aquatic Lfpe, Aquatic Life - Trout		Medium
08	02030105020100-01	Raritan R SB (Three Bridges-Prescott Bk)	Phosphorus (Total)	SBRR9	2010	Aquatic Life		High
08	02030105020100-01	Raritan R SB (Three Bridges-Prescott Bk)	Temperature, water	SBRR8	2006	Aquatic Life - Trout		Medium
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Chlordane in Fish Tissue	Raritan Bay at Rt 35	2008	Fish Consumption	L	Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	DDT and its metabolites in Fish Tissue	Raritan Bay at Rt 35	2012	Fish Consumption	L	Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Dieldrin	HEP	2008	Fish Consumption	L	Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Heptachlor epoxide	HEP	2008	Fish Consumption	L	Low
09	02030105160090-01	Red Root Creek / Crows Mill Creek	Mercury in Fish Tissue	Raritan Bay at Rt 35	2010	Fish Consumption		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105160090-01	Red Root Creek / Crows Mill Creek	PCB in Fish Tissue	Raritan Bay at Rt 35	2006	Fish Consumption	L	Low
15	02040302010010-01	Reeds Bay / Absecon Bay & tribs	Oxygen, Dissolved	2400A, 2503, 2412A, 2307B, 2408A, 2305C, 2301, 2306C	2012	Aquatic Life		Medium
18	02040202140050-01	Repaupo Ck (below Tomlin Sta Rd)/CedarSwamp	Mercury in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption		Low
18	02040202140050-01	Repaupo Ck (below Tomlin Sta Rd)/CedarSwamp	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
13	02040301070040-01	Ridgeway Br (below Hope Chapel Rd)	Arsenic	01408492	2012	Water Supply	A	Low
13	02040301070040-01	Ridgeway Br (below Hope Chapel Rd)	Escherichia coli	01408492	2014	Recreation		Medium
13	02040301070040-01	Ridgeway Br (below Hope Chapel Rd)	pH	01408492	2006	Aquatic Life		Medium
16	02040206210010-01	Riggins Ditch (Moores Beach to East Pt)	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
07	02030104050070-01	Robinsons Br Rahway R (above Lake Ave)	Phosphorus (Total)	01395500	2008	Aquatic Life		Medium
07	02030104050080-01	Robinsons Br Rahway R (below Lake Ave)	Arsenic	01396003, 7-Rob-1	2004	Water Supply		Low
07	02030104050080-01	Robinsons Br Rahway R (below Lake Ave)	Phosphorus (Total)	01395500, 01396003, 01395200	2002	Aquatic Life		Medium
10	02030105110070-01	Rock Brook (below Camp Meeting Ave)	Arsenic	01401595, 10-ro-1	2012	Water Supply		Low
10	02030105110070-01	Rock Brook (below Camp Meeting Ave)	Cause Unknown	AN0400	2012	Aquatic Life		Low
08	02030105050080-01	Rockaway Ck (above McCrea Mills)	Arsenic	01399570, 01399565	2012	Water Supply		Low
08	02030105050080-01	Rockaway Ck (above McCrea Mills)	Temperature, water	01399565	2014	Aquatic Life - Trout		Medium
08	02030105050090-01	Rockaway Ck (below McCrea Mills)	Arsenic	01399570, 8-ro-1	2012	Water Supply		Low
08	02030105050090-01	Rockaway Ck (below McCrea Mills)	Escherichia coli	BFBM000044	2012	Recreation		Medium
08	02030105050090-01	Rockaway Ck (below McCrea Mills)	pH	NBRC1	2010	Aquatic Life, Aquatic Life - Trout		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
08	02030105050090-01	Rockaway Ck (below McCrea Mills)	Phosphorus (Total)	01399700	2010	Aquatic Life		High
08	02030105050100-01	Rockaway Ck SB	Escherichia coli	BFBM000016	2012	Recreation		Medium
08	02030105050100-01	Rockaway Ck SB	Phosphorus (Total)	01399650, SBRC1-Cli, SBRC3-Clo	2006	Aquatic Life, Aquatic Life - Trout		High
08	02030105050100-01	Rockaway Ck SB	Temperature, water	01399650	2012	Aquatic Life - Trout		Medium
08	02030105050100-01	Rockaway Ck SB	Total Suspended Solids (TSS)	SBRC3-Clo	2014	Aquatic Life, Aquatic Life - Trout		High
06	02030103030030-01	Rockaway R (above Longwood Lake outlet)	pH	Sun Air Campground	2012	Aquatic Life		Medium
06	02030103030150-01	Rockaway R (Boonton dam to Stony Brook)	Arsenic	01380450, 01380500, 6-site-11	1998	Water Supply		Low
06	02030103030150-01	Rockaway R (Boonton dam to Stony Brook)	Chlordane in Fish Tissue	Boonton Reservoir, Rockaway River	2008	Fish Consumption	L	Low
06	02030103030150-01	Rockaway R (Boonton dam to Stony Brook)	DDT and its metabolites in Fish Tissue	Boonton Reservoir, Rockaway River	2008	Fish Consumption	L	Low
06	02030103030150-01	Rockaway R (Boonton dam to Stony Brook)	PCB in Fish Tissue	Boonton Reservoir, Rockaway River	2008	Fish Consumption	L	Low
06	02030103030150-01	Rockaway R (Boonton dam to Stony Brook)	Tetrachloroethylene	01380450, 01380500, 6-site-11	1998	Water Supply		Low
06	02030103030170-01	Rockaway R (Passaic R to Boonton dam)	Oxygen, Dissolved	RO2	2010	Aquatic Life		Medium
06	02030103030170-01	Rockaway R (Passaic R to Boonton dam)	Tetrachloroethylene	01381200, 6-roc-1, 6-site-10	1998	Water Supply		Low
06	02030103030040-01	Rockaway R (Stephens Bk to Longwood Lk)	Cause Unknown	AN0240	2006	Aquatic Life		Low
06	02030103030140-01	Rockaway R (Stony Brook to BM 534 brdg)	Arsenic	01380450, 6-site-11	2006	Water Supply		Low
06	02030103030140-01	Rockaway R (Stony Brook to BM 534 brdg)	Cause Unknown	AN0248	2006	Aquatic Life		Low
06	02030103030140-01	Rockaway R (Stony Brook to BM 534 brdg)	Tetrachloroethylene	01380500, 01380450, 6-site-11	1998	Water Supply		Low
10	02030105100040-01	Rocky Brook (above Monmouth Co line)	Arsenic	01400585	1998	Water Supply		Low
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Arsenic	01400599, 01400598, 10-roc-1, 10-roc-2	2004	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Chlordane in Fish Tissue	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	DDT and its metabolites in Fish Tissue	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Mercury in Fish Tissue	Peddie Lake	2012	Fish Consumption		Low
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Oxygen, Dissolved	RB4	2010	Aquatic Life		Medium
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	PCB in Fish Tissue	Peddie Lake	2012	Fish Consumption	L	Low
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Phosphorus (Total)	RB4, Peddie Lake	2006	Aquatic Life		High
10	02030105110150-01	Royce Brook (above Branch Royce Brook)	Cause Unknown	AN0411	2008	Aquatic Life		Low
10	02030105110150-01	Royce Brook (above Branch Royce Brook)	Escherichia coli	BFBM000028	2014	Recreation		Medium
10	02030105110160-01	Royce Brook (below/incl Branch Royce Bk)	Cause Unknown	AN0412, AN0413	2006	Aquatic Life		Low
10	02030105110160-01	Royce Brook (below/incl Branch Royce Bk)	Escherichia coli	BFBM000045	2012	Recreation		Medium
06	02030103030010-01	Russia Brook (above Milton)	Temperature, water	01379615	2014	Aquatic Life - Trout		Medium
04	02030103140040-01	Saddle River (above Ridgewood gage)	pH	01390500	2014	Aquatic Life		Medium
04	02030103140040-01	Saddle River (above Ridgewood gage)	Total Suspended Solids (TSS)	01390500	2014	Aquatic Life		High
04	02030103140070-01	Saddle River (below Lodi gage)	Arsenic	01391500, 01391550, 4-SAD-1, 4-SITE-13, 4-SITE-12	1998	Water Supply		Low
04	02030103140070-01	Saddle River (below Lodi gage)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103140070-01	Saddle River (below Lodi gage)	PCB in Fish Tissue	Passaic River Lower, with tribs and Estuary	2006	Fish Consumption	L	Low
04	02030103140070-01	Saddle River (below Lodi gage)	Phosphorus (Total)	01391500, 01391540, NJHDG-6, Passaic-7	2006	Aquatic Life		High
04	02030103140070-01	Saddle River (below Lodi gage)	Total Dissolved Solids (TDS)	01391500, 01391550	2004	Water Supply		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
04	02030103140070-01	Saddle River (below Lodi gage)	Total Suspended Solids (TSS)	01391500, NJHDG-6	2014	Aquatic Life		High
04	02030103140080-01	Saddle River (Hohokus to Ridgewood gage)	Arsenic	01390518	2010	Water Supply		Low
04	02030103140080-01	Saddle River (Hohokus to Ridgewood gage)	pH	01390500	2014	Aquatic Life		Medium
04	02030103140080-01	Saddle River (Hohokus to Ridgewood gage)	Phosphorus (Total)	SR001	2010	Aquatic Life		High
04	02030103140080-01	Saddle River (Hohokus to Ridgewood gage)	Total Suspended Solids (TSS)	01390500	2014	Aquatic Life		High
04	02030103140060-01	Saddle River (Lodi gage to Rt 4)	Arsenic	01391500, 4-SAD-1, 4-SITE-13, 4-SITE-12	1998	Water Supply		Low
04	02030103140060-01	Saddle River (Lodi gage to Rt 4)	Phosphorus (Total)	01391500	2006	Aquatic Life		High
04	02030103140060-01	Saddle River (Lodi gage to Rt 4)	Total Dissolved Solids (TDS)	01391500	2004	Water Supply		Medium
04	02030103140060-01	Saddle River (Lodi gage to Rt 4)	Total Suspended Solids (TSS)	01391500	2014	Aquatic Life		High
04	02030103140050-01	Saddle River (Rt 4 to Hohokus)	Arsenic	01391110, 01391200, 4-sad-1, 4-site-13, 4-site-12	1998	Water Supply		Low
04	02030103140050-01	Saddle River (Rt 4 to Hohokus)	pH	01391200	2014	Aquatic Life		Medium
04	02030103140050-01	Saddle River (Rt 4 to Hohokus)	Phosphorus (Total)	01391110	2006	Aquatic Life		High
17	02040206030080-01	Salem Canal	Oxygen, Dissolved	01482580, BFBM000064	2010	Aquatic Life		Medium
17	02040206030080-01	Salem Canal	Phosphorus (Total)	01482580	2010	Aquatic Life		Medium
17	02040206030080-01	Salem Canal	Temperature, water	01482580	2014	Aquatic Life		Medium
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	Mercury in Fish Tissue	Salem River near Carneys Point	2014	Fish Consumption		Low
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	Oxygen, Dissolved	01482537	2014	Aquatic Life		Medium
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	PCB in Fish Tissue	Salem River near Carneys Point	2014	Fish Consumption	L	Low
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	pH	01482537	2012	Aquatic Life		Medium
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	Phosphorus (Total)	01482537	2006	Aquatic Life		High
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	Total Suspended Solids (TSS)	01482537	2012	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
17	02040206030010-01	Salem R (above Woodstown gage)	pH	01482500, S2, S3, S8, S9, S10	2006	Aquatic Life		Medium
17	02040206030010-01	Salem R (above Woodstown gage)	Total Suspended Solids (TSS)	S8, S9, S10	2010	Aquatic Life	R	Medium
17	02040206040040-01	Salem R (below Fenwick Creek)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
17	02040206030030-01	Salem R (CountyHomeRd to Woodstown gage)	Oxygen, Dissolved	01482500, 01482505	2010	Aquatic Life		Medium
17	02040206030030-01	Salem R (CountyHomeRd to Woodstown gage)	pH	01482500	2006	Aquatic Life		Medium
17	02040206030030-01	Salem R (CountyHomeRd to Woodstown gage)	Phosphorus (Total)	01482500, 01482503, 01482505, 01482508	2006	Aquatic Life		High
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	Arsenic	01482520, 01482530	2008	Water Supply		Low
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	Oxygen, Dissolved	01482530, 01482537	2008	Aquatic Life		Medium
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	pH	01482537	2008	Aquatic Life		Medium
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	Phosphorus (Total)	01482537, 01482519, 01482530, 01482520	2006	Aquatic Life		High
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	Total Suspended Solids (TSS)	01482537	2006	Aquatic Life		Medium
17	02040206030040-01	Salem R (CoursesLanding to CountyHomeRd)	Turbidity	01482530	2012	Aquatic Life		Medium
17	02040206040030-01	Salem R (Fenwick Ck to 39d40m14s dam)	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Benzo(a)pyrene (PAHs)	HEP	2008	Fish Consumption		Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Cause Unknown	RB016/030/032/033/202/211/214/003/011	2014	Aquatic Life		Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Chlordane in Fish Tissue	Raritan Bay at Lower Bay, E. Raritan Bay at Keansbu	2006	Fish Consumption	L	Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	DDT and its metabolites in Fish Tissue	Raritan Bay at Lower Bay, E. Raritan Bay at Keansbu	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Dieldrin	HEP	2008	Fish Consumption	L	Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	PCB in Fish Tissue	Raritan Bay at Lower Bay, E. Raritan Bay at Keansbu	2008	Fish Consumption	L	Low
12	02030104910020-01	Sandy Hook Bay (east of Thorns Ck)	Total Coliform	Shellfish Network	2008	Shellfish		Medium
16	02040206210050-01	Savages Run (above East Creek Pond)	Cause Unknown	AN0766	2014	Aquatic Life		Low
08	02030105030020-01	Second Neshanic River	Cause Unknown	AN0331	2012	Aquatic Life		Low
04	02030103150020-01	Second River	Escherichia coli	Passaic-5	2004	Recreation		Medium
04	02030103150020-01	Second River	pH	01392520, NJHDG-9, Passaic-5	2006	Aquatic Life		Medium
04	02030103150020-01	Second River	Phosphorus (Total)	NJHDG-9	2006	Aquatic Life		Medium
11	02040105240010-01	Shabakunk Creek	Arsenic	01463810	2012	Water Supply		Low
11	02040105240010-01	Shabakunk Creek	Mercury in Fish Tissue	Assunpink Creek	2006	Fish Consumption		Low
11	02040105240010-01	Shabakunk Creek	Phosphorus (Total)	Colonial Lake	2010	Aquatic Life		Medium
11	02040105240020-01	Shabakunk Creek WB	Arsenic	01463810	2014	Water Supply		Low
11	02040105240020-01	Shabakunk Creek WB	Cause Unknown	AN0114	2014	Aquatic Life		Low
11	02040105240020-01	Shabakunk Creek WB	Mercury in Fish Tissue	Assunpink Creek	2014	Fish Consumption		Low
20	02040201070030-01	Shady Brook/Spring Lake/Rowan Lake	Mercury in Fish Tissue	Spring Lake, Delaware Bay Tribs	2006	Fish Consumption		Low
20	02040201070030-01	Shady Brook/Spring Lake/Rowan Lake	PCB in Fish Tissue	Spring Lake, Delaware Bay Tribs	2006	Fish Consumption	L	Low
10	02030105100100-01	Shallow Brook (Devils Brook)	Cause Unknown	AN0388	2008	Aquatic Life		Low
13	02040301070010-01	Shannae Brook	pH	01408480	2002	Aquatic Life		Medium
12	02030104090040-01	Shark River (above Remsen Mill gage)	Arsenic	01407670	2012	Water Supply		Low
12	02030104090040-01	Shark River (above Remsen Mill gage)	Chlordane in Fish Tissue	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090040-01	Shark River (above Remsen Mill gage)	DDT and its metabolites in Fish Tissue	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090040-01	Shark River (above Remsen Mill gage)	PCB in Fish Tissue	Shark River at Belmar	2008	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104090060-01	Shark River (below Remsen Mill gage)	Chlordane in Fish Tissue	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090060-01	Shark River (below Remsen Mill gage)	DDT and its metabolites in Fish Tissue	Shark River at Belmar	2006	Fish Consumption	L	Low
12	02030104090060-01	Shark River (below Remsen Mill gage)	Mercury in Fish Tissue	Shark River at Belmar	2006	Fish Consumption		Low
12	02030104090060-01	Shark River (below Remsen Mill gage)	Oxygen, Dissolved	1217A	2006	Aquatic Life		Medium
12	02030104090060-01	Shark River (below Remsen Mill gage)	PCB in Fish Tissue	Shark River at Belmar	2006	Fish Consumption	L	Low
01	02040104090030-01	Shimers Brook	Arsenic	01438399	2012	Water Supply		Low
01	02040104090030-01	Shimers Brook	Phosphorus (Total)	Clove Lake	2014	Aquatic Life		Medium
01	02040104090030-01	Shimers Brook	Temperature, water	01438399, DRBC/NPS47	2008	Aquatic Life - Trout		Medium
11	02040105230060-01	Shipetaukin Creek	Escherichia coli	01463661	2008	Recreation		Medium
11	02040105230060-01	Shipetaukin Creek	Oxygen, Dissolved	01463661	2010	Aquatic Life		Medium
12	02030104080040-01	Shrewsbury River (above Navesink River)	DDT and its metabolites in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
12	02030104080040-01	Shrewsbury River (above Navesink River)	Mercury in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption		Low
12	02030104080040-01	Shrewsbury River (above Navesink River)	PCB in Fish Tissue	Shrewsbury River at Oceanport	2006	Fish Consumption	L	Low
10	02030105110120-01	Sixmile Run (above Middlebush Rd)	Escherichia coli	BFBM000017	2012	Recreation		Medium
10	02030105110120-01	Sixmile Run (above Middlebush Rd)	Phosphorus (Total)	01401900	2006	Aquatic Life		Medium
10	02030105110130-01	Sixmile Run (below Middlebush Rd)	Phosphorus (Total)	SMR1	2010	Aquatic Life		Medium
14	02040301150020-01	Skit Branch (Batsto River)	Arsenic	01409437	2014	Water Supply		Low
14	02040301150020-01	Skit Branch (Batsto River)	Lead	01409437	2014	Water Supply		Low
14	02040301160170-01	Sleeper Branch	DDT and its metabolites in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160170-01	Sleeper Branch	Mercury in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption		Low
14	02040301160170-01	Sleeper Branch	PCB in Fish Tissue	Mullica River between Green Bank and Batsto	2010	Fish Consumption	L	Low
14	02040301160060-01	Sleeper Branch (Rt 206 to Tremont Ave)	Arsenic	0140940200	2012	Water Supply	A	Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
14	02040301160060-01	Sleeper Branch (Rt 206 to Tremont Ave)	pH	01409402, 0140940200, 0140940370, MWIBURNT, MCOIMPNT,	2002	Aquatic Life		Medium
06	02030103010190-01	Slough Brook	Arsenic	01379525	2014	Water Supply		Low
06	02030103010190-01	Slough Brook	Cause Unknown	AN0231C	2002	Aquatic Life		Low
06	02030103010190-01	Slough Brook	Total Dissolved Solids (TDS)	01379530, 01379525	2010	Water Supply		Medium
16	02040206220020-01	Sluice Creek	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
09	02030105120080-01	South Fork of Bound Brook	PCB in Fish Tissue	New Market Pond, Bound Brook	2006	Fish Consumption	L	Low
09	02030105120080-01	South Fork of Bound Brook	Phosphorus (Total)	01403385	2002	Aquatic Life		Medium
15	02040302050030-01	South River (above 39d26m15s)	Arsenic	01411220	2014	Water Supply		Low
15	02040302050030-01	South River (above 39d26m15s)	Oxygen, Dissolved	01411220	2014	Aquatic Life		Medium
15	02040302050030-01	South River (above 39d26m15s)	pH	LSOESTEL, LSOUT552	2006	Aquatic Life		Medium
15	02040302050040-01	South River (below 39d26m15s)	Arsenic	01411220, 01411221	2012	Water Supply	A	Low
15	02040302050040-01	South River (below 39d26m15s)	pH	01411221, 01411220, LSOFORTY	2002	Aquatic Life		Medium
09	02030105160070-01	South River (below Duhernal Lake)	Arsenic	304(l)	1998	Water Supply		Low
09	02030105160070-01	South River (below Duhernal Lake)	Cadmium	304(l)	1998	Aquatic Life, Fish Consumption		Low
09	02030105160070-01	South River (below Duhernal Lake)	Chromium (total)	304(l)	1998	Fish Consumption		Low
09	02030105160070-01	South River (below Duhernal Lake)	Copper	304(l)	1998	Aquatic Life		Low
09	02030105160070-01	South River (below Duhernal Lake)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
09	02030105160070-01	South River (below Duhernal Lake)	Lead	304(l)	1998	Water Supply		Low
09	02030105160070-01	South River (below Duhernal Lake)	Mercury in Water Column	304(l)	1998	Water Supply, Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
09	02030105160070-01	South River (below Duhernal Lake)	PCB in Fish Tissue	South River at Sayreville, South River at Old Bridg	2006	Fish Consumption	L	Low
20	02040201040020-01	South Run (above 74d35m) (Ft Dix)	pH	Willow Pond	2010	Aquatic Life		Medium
20	02040201040030-01	South Run (Jumping Brook to 74d35m)	Arsenic	01464280	2012	Water Supply		Low
20	02040201040030-01	South Run (Jumping Brook to 74d35m)	Escherichia coli	01464280	2006	Recreation		Medium
20	02040201040030-01	South Run (Jumping Brook to 74d35m)	pH	01464280, 01464290	2006	Aquatic Life		Medium
20	02040201040050-01	South Run (North Run to Jumping Brook)	Mercury in Fish Tissue	Crosswicks Creek	2006	Fish Consumption		Low
20	02040201040050-01	South Run (North Run to Jumping Brook)	Phosphorus (Total)	01464300	2006	Aquatic Life		Medium
05	02030101170020-01	Sparkill Brook	Arsenic	01376273	2012	Water Supply		Low
05	02030101170020-01	Sparkill Brook	Escherichia coli	01376273	2012	Recreation		Medium
05	02030101170020-01	Sparkill Brook	Phosphorus (Total)	01376273	2008	Aquatic Life		Medium
01	02040105040050-01	Sparta Junction tribs	Temperature, water	01443276, BFBM000176	2012	Aquatic Life - Trout		Medium
09	02030105120090-01	Spring Lake Fork of Bound Brook	PCB in Fish Tissue	Spring Lake (NMP)	2006	Fish Consumption	L	Low
09	02030105120090-01	Spring Lake Fork of Bound Brook	Phosphorus (Total)	01403385	2002	Aquatic Life		Medium
14	02040301150040-01	Springers Brook / Deep Run	Arsenic	01409455	2012	Water Supply		Low
14	02040301150040-01	Springers Brook / Deep Run	pH	01409455, BSPRDIKE	2002	Aquatic Life		Medium
08	02030105020010-01	Spruce Run (above Glen Gardner)	Temperature, water	01396550	2002	Aquatic Life - Trout		Medium
08	02030105020020-01	Spruce Run (Reservior to Glen Gardner)	Temperature, water	01396588	2008	Aquatic Life - Trout		Medium
08	02030105020040-01	Spruce Run Reservior / Willoughby Brook	pH	01396800, Clinton WMA Pond	2002	Aquatic Life, Aquatic Life - Trout		Medium
08	02030105020040-01	Spruce Run Reservior / Willoughby Brook	Phosphorus (Total)	01396800	2002	Aquatic Life, Aquatic Life - Trout		Medium
08	02030105020040-01	Spruce Run Reservior / Willoughby Brook	Temperature, water	01396800	2002	Aquatic Life - Trout		Medium
15	02040302030050-01	Squankum Branch (GEHR)	Arsenic	01410890	2014	Water Supply	A	Low
15	02040302030050-01	Squankum Branch (GEHR)	Mercury in Water Column	01410865	2010	Water Supply		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
15	02040302030050-01	Squankum Branch (GEHR)	pH	01410865, 01410890	2006	Aquatic Life		Medium
15	02040302050080-01	Stephen Creek (GEHR)	Arsenic	01411230	2012	Water Supply	A	Low
15	02040302050080-01	Stephen Creek (GEHR)	PCB in Fish Tissue	Maple Lake	2010	Fish Consumption	L	Low
15	02040302050080-01	Stephen Creek (GEHR)	pH	01411230, LSTMAPLE	2006	Aquatic Life		Medium
17	02040206120050-01	Still Run (WillowGroveLk - SilverLakeRd)	Cause Unknown	AN0730, AN0732	2008	Aquatic Life		Low
18	02040202140020-01	Still Run/London Br(above Tomlin Sta Rd)	Arsenic	01476600	2012	Water Supply		Low
18	02040202140020-01	Still Run/London Br(above Tomlin Sta Rd)	Phosphorus (Total)	01476600	2012	Aquatic Life		Medium
03	02030103050070-01	Stone House Brook	Temperature, water	Pqkakebk	2010	Aquatic Life - Trout		Medium
10	02030105090020-01	Stony Bk (74d 48m 10s to 74d 49m 15s)	Arsenic	01400860, 01400870	2012	Water Supply		Low
10	02030105090020-01	Stony Bk (74d 48m 10s to 74d 49m 15s)	Escherichia coli	01400870	2008	Recreation	R	Medium
10	02030105090020-01	Stony Bk (74d 48m 10s to 74d 49m 15s)	Oxygen, Dissolved	01400860	2012	Aquatic Life		Medium
10	02030105090040-01	Stony Bk (74d46m dam to/incl Baldwins Ck)	Escherichia coli	BFBM000018	2012	Recreation		Medium
10	02030105090010-01	Stony Bk (above 74d 49m 15s)	Escherichia coli	BFBM000010	2012	Recreation	R	Medium
10	02030105090030-01	Stony Bk (Baldwins Ck to 74d 48m 10s)	Escherichia coli	BFBM000011	2012	Recreation		Medium
10	02030105090070-01	Stony Bk (Harrison St to Rt 206)	Arsenic	01401000, 10-sto-1, 10-sto-4	2006	Water Supply		Low
10	02030105090070-01	Stony Bk (Harrison St to Rt 206)	Phosphorus (Total)	01401000	2002	Aquatic Life		High
10	02030105090050-01	Stony Bk (Province Line Rd to 74d46m dam)	Arsenic	01401000, 10-sto-1, 10-sto-4	2006	Water Supply		Low
10	02030105090050-01	Stony Bk (Province Line Rd to 74d46m dam)	Phosphorus (Total)	01401000	2002	Aquatic Life		High
10	02030105090060-01	Stony Bk (Rt 206 to Province Line Rd)	Arsenic	01401000, 10-sto-1, 10-sto-4	1998	Water Supply		Low
10	02030105090060-01	Stony Bk (Rt 206 to Province Line Rd)	Phosphorus (Total)	01401000	2002	Aquatic Life		High
10	02030105090090-01	Stony Bk- Princeton drainage	Arsenic	01401000, 10-sto-1, 10-sto-4	2010	Water Supply		Low
10	02030105090090-01	Stony Bk- Princeton drainage	Phosphorus (Total)	01401000	2010	Aquatic Life		High

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
06	02030103030130-01	Stony Brook (Boonton)	Arsenic	01380270, 01380320	2012	Water Supply		Low
06	02030103030130-01	Stony Brook (Boonton)	Mercury in Water Column	01380270	2012	Water Supply		Low
06	02030103030130-01	Stony Brook (Boonton)	Oxygen, Dissolved	01380270	2010	Aquatic Life		Medium
09	02030105120030-01	Stony Brook (North Plainfield)	Arsenic	01403575	2012	Water Supply		Low
09	02030105120030-01	Stony Brook (North Plainfield)	Cause Unknown	AN0422	2006	Aquatic Life		Low
17	02040206070050-01	Stow Creek (above Jericho Road)	Cause Unknown	AN0705	2014	Aquatic Life		Low
17	02040206070080-01	Stow Creek (below Canton Rd)	Oxygen, Dissolved	R53, R54	2006	Aquatic Life		Medium
17	02040206070080-01	Stow Creek (below Canton Rd)	PCB in Fish Tissue	Stow Creek Canton	2006	Fish Consumption	L	Low
17	02040206070060-01	Stow Creek (Canton Road to Jericho Road)	Oxygen, Dissolved	R54	2012	Aquatic Life		Medium
17	02040206070060-01	Stow Creek (Canton Road to Jericho Road)	PCB in Fish Tissue	Stow Creek Canton	2006	Fish Consumption	L	Low
11	02040105210030-01	Swan Creek (Moore Ck to Alexauken Ck)	Escherichia coli	BFBM000012	2012	Recreation		Medium
01	02040105030020-01	Swartswood Lake and tribs	Arsenic	01443466, 01443470	2012	Water Supply		Low
01	02040105030020-01	Swartswood Lake and tribs	PCB in Fish Tissue	Swartswood Lake	2012	Fish Consumption	L	Low
01	02040105030020-01	Swartswood Lake and tribs	Temperature, water	01443466	2014	Aquatic Life - Trout		Medium
01	02040105030010-01	Swartswood trib(41-06-06 thru Lk Owassa)	pH	Mecca Lake	2010	Aquatic Life		Medium
18	02040202090010-01	Swede Run	Arsenic	01467027	2008	Water Supply		Low
18	02040202090010-01	Swede Run	Escherichia coli	BFBM000051	2012	Recreation		Medium
18	02040202090010-01	Swede Run	Oxygen, Dissolved	01467027	2008	Aquatic Life		Medium
18	02040202090010-01	Swede Run	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
12	02030104070070-01	Swimming River Reservoir / Slope Bk	Chlordane in Fish Tissue	Swimming River Reservoir, Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	Swimming River Reservoir / Slope Bk	DDT and its metabolites in Fish Tissue	Swimming River Reservoir, Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	Swimming River Reservoir / Slope Bk	PCB in Fish Tissue	Swimming River Reservoir, Marlu Lake (Thompson Park)	2010	Fish Consumption	L	Low
12	02030104070070-01	Swimming River Reservoir / Slope Bk	Phosphorus (Total)	MCHD-56	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104070070-01	Swimming River Reservoir / Slope Bk	Total Suspended Solids (TSS)	MCHD-56	2006	Aquatic Life		Medium
15	02040302070050-01	Tarkiln Brook (Tuckahoe River)	pH	TTAR548S	2012	Aquatic Life		Medium
05	02030103170040-01	Tenakill Brook	Arsenic	01378387, 5-ten-2	2004	Water Supply		Low
05	02030103170040-01	Tenakill Brook	pH	TB2, TB3, TB4	2014	Aquatic Life		Medium
05	02030103170040-01	Tenakill Brook	Phosphorus (Total)	DB1, TB1, TB2, TB3, TB4	2010	Aquatic Life	R	Medium
05	02030103170040-01	Tenakill Brook	Total Suspended Solids (TSS)	TB3, DB1	2010	Aquatic Life	R	Medium
08	02030105030040-01	Third Neshanic River	Oxygen, Dissolved	01397950	2006	Aquatic Life		Medium
04	02030103150010-01	Third River	Chlordane in Fish Tissue	Passaic River at Lyndhurst	2014	Fish Consumption	L	Low
04	02030103150010-01	Third River	DDT and its metabolites in Fish Tissue	HEP	2014	Fish Consumption	L	Low
04	02030103150010-01	Third River	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
04	02030103150010-01	Third River	Mercury in Fish Tissue	Passaic River at Lyndhurst	2014	Fish Consumption		Low
04	02030103150010-01	Third River	PCB in Fish Tissue	Passaic River at Lyndhurst	2006	Fish Consumption	L	Low
04	02030103150010-01	Third River	Phosphorus (Total)	Clarks Pond	2010	Aquatic Life		Medium
15	02040302040060-01	Three Pond Branch (Hospitality Branch)	Arsenic	01411073	2014	Water Supply		Low
13	BarnegatBay04	Toms R Estuary	Oxygen, Dissolved	BB04a	2014	Aquatic Life		Medium
13	BarnegatBay04	Toms R Estuary	Chlordane in Fish Tissue	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	BarnegatBay04	Toms R Estuary	DDT and its metabolites in Fish Tissue	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	BarnegatBay04	Toms R Estuary	PCB in Fish Tissue	Barnegat Bay at Toms River	2012	Fish Consumption	L	Low
13	BarnegatBay04	Toms R Estuary	Mercury in Fish Tissue	Barnegat Bay at Toms River	2012	Fish Consumption		Low
13	02040301060020-01	Toms River (74-22-30 rd to Francis Mills)	Arsenic	01408253, 01408260	2012	Water Supply		Low
13	02040301060010-01	Toms River (above Francis Mills)	Oxygen, Dissolved	MCHD-7	2014	Aquatic Life		Medium
13	02040301060010-01	Toms River (above Francis Mills)	Phosphorus (Total)	MCHD-7	2002	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301060030-01	Toms River (Bowman Rd to 74-22-30 road)	Arsenic	01408260	2014	Water Supply		Low
13	02040301060030-01	Toms River (Bowman Rd to 74-22-30 road)	Temperature, water	AN0520	2014	Aquatic Life - Trout		Medium
13	02040301060080-01	Toms River (Oak Ridge Parkway to Rt 70)	Cause Unknown	AN0535	2014	Aquatic Life		Low
13	02040301080060-01	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	Cause Unknown	AN0535	2012	Aquatic Life		Low
13	02040301080060-01	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	Chlordane in Fish Tissue	Toms River at Ridgeway Branch, Barnegat Bay at Tom	2007	Fish Consumption	L	Low
13	02040301080060-01	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	DDT and its metabolites in Fish Tissue	Toms River at Ridgeway Branch, Barnegat Bay at Tom	2006	Fish Consumption	L	Low
13	02040301080060-01	Toms River Lwr (Rt 166 to Oak Ridge Pkwy)	PCB in Fish Tissue	Toms River at Ridgeway Branch, Barnegat Bay at Tom	2006	Fish Consumption	L	Low
01	02040105070050-01	Trout Brook / Lake Tranquility	Mercury in Fish Tissue	Allamuchy Pond	2014	Fish Consumption		Low
01	02040105070050-01	Trout Brook / Lake Tranquility	PCB in Fish Tissue	Allamuchy Pond	2014	Fish Consumption	L	Low
01	02040105070050-01	Trout Brook / Lake Tranquility	pH	Allamuchy Pond, Lake Tranquility	2012	Aquatic Life		Medium
06	02030103020080-01	Troy Brook (above Reynolds Ave)	Cause Unknown	AN0236	2008	Aquatic Life		Low
06	02030103020090-01	Troy Brook (below Reynolds Ave)	Cause Unknown	AN0237	2014	Aquatic Life		Low
15	02040302070020-01	Tuckahoe River (39d19m52s to Cumberland Ave)	pH	01411290	2004	Aquatic Life		Medium
15	02040302070010-01	Tuckahoe River (above Cumberland Ave)	pH	01411290	2006	Aquatic Life		Medium
15	02040302070040-01	Tuckahoe River (Rt 49 to 39d19m52s)	Arsenic	01411295	2012	Water Supply	A	Low
15	02040302070040-01	Tuckahoe River (Rt 49 to 39d19m52s)	Oxygen, Dissolved	01411300	2014	Aquatic Life		Medium
15	02040302070040-01	Tuckahoe River (Rt 49 to 39d19m52s)	pH	01411295	2006	Aquatic Life		Medium
14	02040301190060-01	Tulpehocken Creek	Cause Unknown	AN0599	2014	Aquatic Life		Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
01	02040104110010-01	UDRV tribs (Dingmans Ferry to 206 bridg)	Temperature, water	01438517	2014	Aquatic Life - Trout		Medium
13	02040301070090-01	Union Branch (below Blacks Br 74d22m05s)	Arsenic	01408380, 01408495	2012	Water Supply	A	Low
13	02040301070090-01	Union Branch (below Blacks Br 74d22m05s)	Cause Unknown	AN0530	2014	Aquatic Life		Low
13	02040301070090-01	Union Branch (below Blacks Br 74d22m05s)	Chlordane in Fish Tissue	Horicon Lake	2010	Fish Consumption	L	Low
13	02040301070090-01	Union Branch (below Blacks Br 74d22m05s)	DDT and its metabolites in Fish Tissue	Horicon Lake	2010	Fish Consumption	L	Low
13	02040301070090-01	Union Branch (below Blacks Br 74d22m05s)	PCB in Fish Tissue	Horicon Lake	2010	Fish Consumption	L	Low
01	02040105100010-01	Union Church trib	Escherichia coli	BFBM000120	2014	Recreation		Medium
01	02040105100010-01	Union Church trib	Phosphorus (Total)	Glovers Pond	2014	Aquatic Life		Medium
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Benzo(a)pyrene (PAHs)	HEP	2007	Fish Consumption		Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Cause Unknown	NB207, NB218, NB228, UH019, UH022	2007	Aquatic Life		Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Chlordane in Fish Tissue	HEP	2007	Fish Consumption	L	Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	DDT and its metabolites in Fish Tissue	HEP	2008	Fish Consumption	L	Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Dieldrin	HEP	2007	Fish Consumption	L	Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Heptachlor epoxide	HEP	2010	Fish Consumption	L	Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	Hexachlorobenzene	HEP	2008	Fish Consumption		Low
07	02030104010030-01	Upper NY Bay / Kill Van Kull (74d07m30s)	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
01	02040104240010-01	Van Campens Brook	Mercury in Fish Tissue	Blue Mountain Lakes	2012	Fish Consumption		Low
12	02030104060050-01	Waackaack Creek	Arsenic	01407065	2008	Water Supply	A	Low
12	02030104060050-01	Waackaack Creek	Chlordane in Fish Tissue	HEP	2006	Fish Consumption	L	Low
12	02030104060050-01	Waackaack Creek	DDT and its metabolites in Fish Tissue	HEP	2006	Fish Consumption	L	Low

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
12	02030104060050-01	Waackaack Creek	Mercury in Fish Tissue	HEP	2006	Fish Consumption		Low
12	02030104060050-01	Waackaack Creek	Oxygen, Dissolved	MCHD-35	2006	Aquatic Life		Medium
12	02030104060050-01	Waackaack Creek	PCB in Fish Tissue	HEP	2008	Fish Consumption	L	Low
14	02040301200030-01	Wading River (below Rt 542)	Mercury in Fish Tissue	Wading River	2010	Fish Consumption		Low
14	02040301200020-01	Wading River (Rt 542 to Oswego River)	Mercury in Fish Tissue	Wading River	2006	Fish Consumption		Low
14	02040301190050-01	Wading River WB (Jenkins Rd to Rt 563)	Arsenic	01409790	2012	Water Supply		Low
14	02040301190050-01	Wading River WB (Jenkins Rd to Rt 563)	Oxygen, Dissolved	01409790	2008	Aquatic Life		Medium
14	02040301190050-01	Wading River WB (Jenkins Rd to Rt 563)	Phosphorus (Total)	01409790	2012	Aquatic Life		Medium
14	02040301190070-01	Wading River WB (Oswego R to Jenkins Rd)	Arsenic	01409812	2014	Water Supply		Low
14	02040301190070-01	Wading River WB (Oswego R to Jenkins Rd)	Mercury in Fish Tissue	Wading River	2006	Fish Consumption		Low
14	02040301190070-01	Wading River WB (Oswego R to Jenkins Rd)	Phosphorus (Total)	01409812, 01409815, R21	2012	Aquatic Life		Medium
02	02020007030010-01	Wallkill R (41d13m30s to Martins Road)	Total Suspended Solids (TSS)	01367770	2014	Aquatic Life		Medium
02	02020007010080-01	Wallkill R (Franklin Pond to Ogdensburg)	Cause Unknown	AN0298	2008	Aquatic Life		Low
02	02020007010070-01	Wallkill R (Martins Rd to Hamburg SW Bdy)	Cause Unknown	AN0300, AN0302	2014	Aquatic Life		Low
02	02020007030030-01	Wallkill River (Owens gage to 41d13m30s)	Total Suspended Solids (TSS)	01368000	2014	Aquatic Life		Medium
02	02020007030040-01	Wallkill River (stateline to Owens gage)	Total Suspended Solids (TSS)	01368000	2014	Aquatic Life		Medium
03	02030103070070-01	Wanaque R/Posts Bk (below reservior)	Temperature, water	PQBKBCH, PQBLWR	2012	Aquatic Life - Trout		Medium
03	02030103070050-01	Wanaque Reservior (below Monks gage)	Temperature, water	Erskine Lake	2006	Aquatic Life - Trout		Medium
13	02040301120010-01	Waretown Creek / Lochiel Creek	Arsenic	01409108	2014	Water Supply	A	Low
13	02040301120010-01	Waretown Creek / Lochiel Creek	Mercury in Water Column	01409108	2014	Water Supply		Low
02	02020007040050-01	Wawayanda Creek & tribs	Arsenic	01368820	2012	Water Supply		Low



WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
02	02020007040050-01	Wawayanda Creek & tribs	Phosphorus (Total)	01368900	2004	Aquatic Life, Aquatic Life - Trout		Medium
09	02030105150010-01	Weamaconk Creek	Arsenic	01405185	2012	Water Supply		Low
09	02030105150010-01	Weamaconk Creek	Oxygen, Dissolved	WC2-WL	2010	Aquatic Life		Medium
09	02030105150010-01	Weamaconk Creek	Phosphorus (Total)	MCHD-9, MCHD-69, Weamaconk Lake	2002	Aquatic Life		Medium
09	02030105150010-01	Weamaconk Creek	Total Suspended Solids (TSS)	01405185, MCHD-69	2006	Aquatic Life		Medium
13	02040301090010-01	Webbs Mill Branch	Oxygen, Dissolved	01408800	2014	Aquatic Life		Medium
01	02040105150010-01	Weldon Brook/Beaver Brook	Temperature, water	01455350	2014	Aquatic Life - Trout		Medium
03	02030103070040-01	West Brook/Burnt Meadow Brook	Oxygen, Dissolved	01386000, WB1	2008	Aquatic Life - Trout		Medium
03	02030103070040-01	West Brook/Burnt Meadow Brook	Temperature, water	Pqkakebk, WB1, WB2, WB3, WB4, WB5, WB6	2004	Aquatic Life - Trout		Medium
16	02040206210020-01	West Ck (above Rt 550)	Oxygen, Dissolved	01411444	2014	Aquatic Life		Medium
16	02040206210040-01	West Ck (below PaperMillRd) to MooresBch	PCB in Fish Tissue	Delaware Bay Tribs	2006	Fish Consumption	L	Low
16	02040206210030-01	West Ck (Paper Mill Rd to Rt 550)	Oxygen, Dissolved	01411444	2014	Aquatic Life		Medium
13	02040301130060-01	Westecunk Creek (below GS Parkway)	Escherichia coli	BT12	2014	Recreation		Medium
12	02030104090010-01	Whale Pond Brook	Cause Unknown	AN0477	2008	Aquatic Life		Low
06	02030103020010-01	Whippany R (above road at 74d 33m)	Arsenic	01381235, 01381260, 01381330	2012	Water Supply		Low
06	02030103020010-01	Whippany R (above road at 74d 33m)	Temperature, water	01381260	2012	Aquatic Life - Trout		Medium
06	02030103020050-01	Whippany R (Malapardis to Lk Pocahontas)	Arsenic	01381515, 6-whi-1	2012	Water Supply		Low
06	02030103020100-01	Whippany R (Rockaway R to Malapardis Bk)	Lead	01381800, 6-whi-2	2007	Water Supply		Low
06	02030103020020-01	Whippany R (Wash. Valley Rd to 74d 33m)	Arsenic	01381330	2012	Water Supply		Low
17	02040206170020-01	White Marsh Run (Millville)	Arsenic	01411907	2014	Water Supply		Low
11	02040105200040-01	Wickecheoke Creek (above Locktown)	Arsenic	01461250	2012	Water Supply		Low
11	02040105200040-01	Wickecheoke Creek (above Locktown)	pH	01461250, W1, W2, W3, W9b	2010	Aquatic Life		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
11	02040105200040-01	Wickecheoke Creek (above Locktown)	Total Suspended Solids (TSS)	W8	2010	Aquatic Life		Medium
11	02040105200060-01	Wickecheoke Creek (below Locktown)	pH	W1/2/3	2014	Aquatic Life, Aquatic Life - Trout		Medium
11	02040105200060-01	Wickecheoke Creek (below Locktown)	Temperature, water	01461300	2002	Aquatic Life - Trout		Medium
12	02030104070020-01	Willow Brook	Phosphorus (Total)	MCHD-52	2002	Aquatic Life		Medium
12	02030104070020-01	Willow Brook	Total Suspended Solids (TSS)	MCHD-52	2006	Aquatic Life		Medium
14	02040301160040-01	Wisickaman Creek	Cause Unknown	AN0563	2006	Aquatic Life		Low
07	02030104050110-01	Woodbridge Creek	Benzo(a)pyrene (PAHs)	HEP	2014	Fish Consumption		Low
07	02030104050110-01	Woodbridge Creek	Chlordane in Fish Tissue	New York Harbor Tribs	2014	Fish Consumption	L	Low
07	02030104050110-01	Woodbridge Creek	DDT and its metabolites in Fish Tissue	HEP	2014	Fish Consumption	L	Low
07	02030104050110-01	Woodbridge Creek	Dieldrin	HEP	2014	Fish Consumption	L	Low
07	02030104050110-01	Woodbridge Creek	Dioxin (including 2, 3, 7, 8-TCDD)	HEP	2006	Fish Consumption		Low
07	02030104050110-01	Woodbridge Creek	Heptachlor epoxide	HEP	2014	Fish Consumption	L	Low
07	02030104050110-01	Woodbridge Creek	Hexachlorobenzene	HEP	2014	Fish Consumption		Low
07	02030104050110-01	Woodbridge Creek	Mercury in Fish Tissue	New York Harbor Tribs	2014	Fish Consumption		Low
07	02030104050110-01	Woodbridge Creek	PCB in Fish Tissue	HEP	2006	Fish Consumption	L	Low
18	02040202120100-01	Woodbury Creek (above Rt 45)	Chlordane in Fish Tissue	Stewart Lake at Woodbury Creek	2008	Fish Consumption	L	Low
18	02040202120100-01	Woodbury Creek (above Rt 45)	DDT and its metabolites in Fish Tissue	Stewart Lake at Woodbury Creek	2010	Fish Consumption	L	Low
18	02040202120100-01	Woodbury Creek (above Rt 45)	PCB in Fish Tissue	Stewart Lake at Woodbury Creek	2008	Fish Consumption	L	Low
18	02040202120100-01	Woodbury Creek (above Rt 45)	pH	01474730	2006	Aquatic Life		Medium
18	02040202120110-01	Woodbury Creek (below Rt 45)/LDRV to B T Ck	PCB in Fish Tissue	Delaware River Tribs to Head of Tide	2006	Fish Consumption	L	Low
18	02040202120110-01	Woodbury Creek (below Rt 45)/LDRV to B T Ck	pH	01474730	2004	Aquatic Life		Medium
13	02040301080050-01	Wrangel Brook (below Michaels Branch)	Arsenic	01408598	2012	Water Supply	A	Low
13	02040301080050-01	Wrangel Brook (below Michaels Branch)	Escherichia coli	BT04	2014	Recreation		Medium

WMA	Assessment Unit Number	Assessment Unit Name	Parameter	Station Number	Cycle 1st Listed	Designated Use	Sublist 5 Subpart (A, R, L)	Priority Ranking for TMDL
13	02040301080050-01	Wrangel Brook (below Michaels Branch)	Mercury in Water Column	01408598	2010	Water Supply		Low
13	02040301080050-01	Wrangel Brook (below Michaels Branch)	Oxygen, Dissolved	01408598	2010	Aquatic Life		Medium
12	02030104090070-01	Wreck Pond Brook (above Rt 35)	Phosphorus (Total)	MCHD-14, Osborne Pond	2010	Aquatic Life	R	Medium
12	02030104090080-01	Wreck Pond Brook (below Rt 35)	Arsenic	01407806	2012	Water Supply	A	Low
12	02030104090080-01	Wreck Pond Brook (below Rt 35)	Phosphorus (Total)	Spring Lake, Wreck Pond, Como Lake	2008	Aquatic Life	R	Medium
12	02030104090080-01	Wreck Pond Brook (below Rt 35)	Total Coliform	Shellfish Network	2014	Shellfish	R	Medium
01	02040105050040-01	Yards Creek	Oxygen, Dissolved	01443890	2010	Aquatic Life - Trout		Medium
01	02040105050040-01	Yards Creek	pH	01443890	2014	Aquatic Life, Aquatic Life - Trout		Medium
12	02030104070040-01	Yellow Brook (above Bucks Mill)	Cause Unknown	AN0471	2008	Aquatic Life		Low
12	02030104070060-01	Yellow Brook (below Bucks Mill)	Cause Unknown	AN0472	2006	Aquatic Life		Low
14	02040301180010-01	Yellow Dam Branch	Arsenic	01409880	2012	Water Supply		Low
14	02040301180010-01	Yellow Dam Branch	Oxygen, Dissolved	01409880	2008	Aquatic Life		Medium
14	02040301180010-01	Yellow Dam Branch	Total Suspended Solids (TSS)	01409880	2012	Aquatic Life		Medium

**Agency Responses to Public Comments on the  
Draft 2014 303(d) List of Water Quality Limited Waters (303(d) List)**

---

Commenters:

1. Tom Amidon, Kleinfelder on behalf of Montgomery Township (MT)
2. Tom Amidon, Kleinfelder on behalf of Rockaway Valley Regional Sewerage Authority (RVRSA)
3. Tom Amidon, Kleinfelder on behalf of Somerset Raritan Valley Sewerage Authority (SRVSA)
4. Tom Amidon, Kleinfelder on behalf of Stony Brook Regional Sewerage Authority (SBRSA)
5. Karen Argenti, citizen (KA)
6. Richard Balla, U.S. Environmental Protection Agency, Region 2 (USEPA)
7. Richard G. Bizub and Ryan Rebozo, Ph. D, Pinelands Preservation Alliance (PPA)
8. Brick Township MUA (BTMUA)
9. L. Stanton Hales, Jr., Ph. D, Barnegat Bay Partnership (BBP)
10. Laura Kelm, Great Swamp Watershed Association (GSWA)
11. William Kibler, Raritan Headwaters (RH)
12. Zachary Lees, Clean Ocean Action (COA)
13. Andrea Leshak on behalf of the NY/NJ Baykeeper and the Hackensack Riverkeeper (AL1)
14. Andrea Leshak on behalf of the NY/NJ Baykeeper, Clean Ocean Action, Hackensack Riverkeeper, Pinelands Preservation Alliance, Raritan Headwaters Association, and Stony Brook-Millstone Watershed Association (AL2)
15. Abel Valdivia, Ph. D, Center for Biological Diversity (CBD)
16. Britta Wenz, Save Barnegat Bay (SBB)
17. Bill Wolfe, citizen (BW)

GENERAL COMMENTS

**Timing of the Integrated Report and Public Comment Period**

1. **Comment:** Three commenters criticize the lateness of the Draft 2014 303(d) List and Integrated Report. A five-year delay between collecting the data and implementing TMDLs, watershed based plans, and critical updates to water quality standards is unacceptable, and puts public safety and environmental health at serious risk. Commenters express concern that the pattern of adopting 303(d) lists three years behind schedule that occurred with the 2012 and 2014 Integrated Reports will continue and that NJDEP will not meet its 2016 reporting requirements. The continued delay of reporting is a serious concern, and also symptomatic of much larger issues with water quality in New Jersey. (KA, COA, SBB)

**Response:** The New Jersey Department of Environmental Protection (Department) appreciates the commenters concerns about timely publication of the biennial 303(d) List and Integrated Report. Please note that delays in the submission of the Draft 2014 303(d) List and Integrated Report do not result in delays in “implementing TMDLs, watershed based plans, and critical updates to water quality standards”. The development and implementation of TMDLs and

watershed based plans is a long-term process that depends on many factors, including availability of financial resources, funding priorities and the State contracting process, among others. While the lag between data collection and assessment reporting may delay the identification of new water quality impairment, work continues concurrently throughout the listing cycle to address previously identified impairment, which often take years if not decades to complete. Additionally, updates to water quality standards occur on a completely separate timetable that is not dependent on the 303(d) Listing process. Section 303(c) of the federal Clean Water Act requires states to conduct public hearings at least once every three years “for the purpose of reviewing applicable water quality standards and, as appropriate, modifying and adopting standards.” It is during this “triennial review process” that USEPA and states must identify and address any “critical updates to water quality standards” that need to be addressed – not under the Section 303(d) or 305(b) biennial assessment/reporting processes.

Delayed submission of the 303(d) List and Integrated Report is not unique to New Jersey and is actually the subject of a national dialogue between USEPA Headquarters, Regions, States, Territories and Tribes (see USEPA report entitled “Reducing Reporting Burden under Clean Water Act Sections 303(d) and 305(b) dated February 2013). This report was followed by a USEPA-driven initiative to redesign the national reporting system, known as the “Assessment and Total Maximum Daily Load Tracking and Implementation System” (ATTAINS), and the launch of a new approach to identify and prioritize waterbodies for restoration and protection entitled, “A Long-Term Vision for Assessment, Restoration and Protection under the Clean Water Act Section 303(d) Program”<sup>1</sup>. This new guidance requires states to engage stakeholders in a process that focuses on achieving meaningful outcomes (e.g., water quality restoration) rather than outputs (e.g., identification of water quality impairment).

Appendix G, “New Jersey’s Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act”, articulates how New Jersey is implementing the new federal vision through a process initiated in 2012 to enhance and refine the water quality assessment process, improve efficiencies and achieve greater confidence in the assessment outcomes, expand the identification of causes and sources of impairment to include restoration strategies and resources, identify improving and declining trends in water quality, identify appropriate enhancement or protection measures to prevent impairment before it occurs, and engage regional stakeholders as partners with the Department in identifying water quality concerns as well as strategies and measures to improve and protect water quality. The transition to a rotating basin approach is one example of improvements already made, along with automating data management and portions of the assessment process. The Department will continue to work with our federal and state counterparts to refine and improve the assessment process and to strive for more timely submissions of the 303(d) List and Integrated Reports.

2. **Comment:** Commenters request an extension of the public comment period. A 30-day comment period is insufficient for the public to review and comment on over 550 pages of highly technical information. Furthermore, because the comment period for the Draft 2016 Methods Document overlaps with the Draft 2014 Integrated Report comment period by two

---

<sup>1</sup>Available on USEPA’s website at [https://www.epa.gov/sites/production/files/2015-07/documents/vision\\_303d\\_program\\_dec\\_2013.pdf](https://www.epa.gov/sites/production/files/2015-07/documents/vision_303d_program_dec_2013.pdf)

weeks, the ability for the public to meaningfully review and comment on both of these critically important sets of documents has been substantially reduced. Commenters request that NJDEP conduct a series of information sessions and/or public hearings held across the State to enable the public to participate in, review, and comment on the Draft 2014 Integrated Report and 303(d) List. (KA, RH, COA, AL1, AL2, BW).

**Response:** The Department believes that since all the relevant information is now available on the Department’s website in various formats that are both searchable and sortable, thirty calendar days is sufficient time to review and comment on the draft 303(d) List and the draft Methods Document. Extending the public comment period to 60 days for this cycle would require publication of another notice in the New Jersey Register and would further delay approval of the final 2014 303(d) List as well publication of the draft 2016 303(d) List, creating additional concerns as expressed in Comment #1.

3. **Comment:** Commenters request that NJDEP conduct information sessions throughout the state to explain the information to the public and request a longer comment period for the 2016 Integrated Report to ensure that the 2016 Integrated Report process allows for adequate public review and comment. (KA, RH, COA, AL1, AL2)

**Response:** As stated in response to Comment #2, the Department believes that, since all the relevant information is now available on the Department’s website in various formats that are both searchable and sortable, a public information session is not necessary for adequate public review and comment. Attendance at public information sessions held in the past declined significantly once the Department redesigned the Integrated Report format and posted all supporting documents on the Department’s website, beginning with the 2008 Integrated Report. The Department is planning to hold public information sessions in the future as part of the rotating basin approach; however, these sessions would be held prior to rather than after publication of the Integrated Report in order to solicit input from the stakeholder on preliminary assessment results, priority concerns, and potential implementation strategies in the focus Region for each listing cycle. This process would further support New Jersey’s response to USEPA’s new Vision process discussed in response to Comment #1.

4. **Comment:** New Jersey must dedicate more resources towards protecting water quality. To that end, the commenter requests that NJDEP, in collaboration with the State Legislature and the Governor’s Office, immediately hold a public hearing on the state of water quality in New Jersey. (COA)

**Response:** This comment is beyond the scope of the 2014 303(d) List. The Department does not have the authority to require action on the part of the New Jersey Legislature or the Governor’s Office. However, the Clean Water Council of New Jersey, established by the New Jersey Legislature in 1967 to serve as an advisory board to the Department, convened a public hearing in 2015 on “Using Partnerships to Improve Water Quality in NJ”, which recommended using the Barnegat Bay Partnership as a model for providing additional resources to the Department’s water quality efforts statewide. The proceedings from this hearing and additional information about the Clean Water Council is available on the Department’s website at <http://www.nj.gov/dep/cleanwatercouncil/>.

### **Integrated Report Format, Organization and Ease of Use**

5. **Comment:** Page ii, Figure ES-1: AUs Fully Supporting One or More Uses: To appropriately gauge progress towards the CWA goal of restoring and maintaining the integrity of the Nation's waters, a complementary graphic should be included that shows the AUs that support all designated uses. (USEPA)

**Response:** The map in Figure ES-1 will be updated in future Integrated Reports to include assessment units that meet all designated uses as well as AUs with at least one designated use fully supporting.

6. **Comment:** It would be helpful to add town and county to the Draft 2014 Integrated List of Waters (Excel format) so people could find the waterbody closest to them and see if it was improved from the last list. (KA)

**Response:** The Department agrees with this comment in theory and is working to develop such a capability as an interactive feature on our assessment website for future Integrated Reports. In the interim, the Department has created a look-up tool on its website at <http://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm> that will display a list of watersheds and established, approved or adopted total maximum daily loads (TMDLs) associated with the selected municipality/county. While this tool cannot be used to identify all impaired waters by municipality and county, it can be used to identify impaired waters covered by an approved TMDL on a municipal or county basis.

7. **Comment:** We recognize that this Integrated Report has pulled together a tremendous amount of data, including considerable data from ongoing components of the Governor's Ten Point Plan for the Barnegat Bay and from the state's other waters. We found the Department's providing of the entire Integrated Report as a single electronic document *and* the many Appendices of the report as separate electronic documents to be very helpful in conducting our review. Revising the Appendices into tabular formats compared to the narrative format used in previous reports was also a substantial improvement. (BBP)

**Response:** The Department appreciates the commenters' support.

8. **Comment:** The new organization of Assessment Units (AUs) within the Report's appendices in alphabetical order makes finding Assessment Units of concern user-friendly. However, Appendix D was arranged by AU, and it would be easier if it was also arranged alphabetically. In addition, having the pertinent information about the status of those AUs spread amongst all of the appendices (rather than having the information in one appendix as it has been in past Reports), makes finding all the relevant information for one AU more time consuming and difficult. (GSWA)

**Response:** Appendix D has been reformatted to present the results in alphabetical order by AU, as requested. However, as explained in response to Comment #5, assessment results are reported in accordance with the corresponding USEPA guidance and recommended format, which has changed over time from the ADB-generated reports preferred by the commenter to

the current tabular format. This format is expected to change again for either the 2016 or the 2018 Integrated Report to conform with the redesigned ATTAINS platform, once it has been fully implemented by USEPA.

9. **Comment:** A future directions component that identifies both monitoring needs and actions to improve attainment should be incorporated in this report given the overall water quality conditions described therein. (PPA)

**Response:** Previous Integrated Reports contained a chapter on Next Steps that discussed future needs and actions to support water quality monitoring and assessment. Such content is being incorporated into the Department's pending update to the Long Term Monitoring and Assessment Strategy prepared pursuant to CWA Section 106(e)(1) and in accordance with USEPA guidance, "Elements of a State Water Monitoring and Assessment Program" (March 2003). As explained on page 64 of the 2014 Draft Integrated Report, the long-term strategy outlines the various characteristics of New Jersey's monitoring and assessment programs for a ten-year period, including goals and objectives, monitoring and assessment needs and forthcoming improvements.

#### **Assessment Methods and Data**

10. **Comment:** The 2014 Integrated Report debuts a new regional approach to water quality assessment, in which the Department focuses more intensive evaluation on one of the five water regions, beginning with the Atlantic Coastal Region. This makes sense, allowing the Department to focus limited resources on one water region per assessment cycle for more comprehensive assessment. (MT, RVRSA, SRVSA, SBRSA)
11. **Comment:** We commend the NJDEP for its commitment to monitoring water quality in the Barnegat Bay and its tributaries, which ultimately leads to a better recognition of the bay's overall condition, its specific problems, and our collaborative efforts to address the problems and improve its overall condition. (BBP)

**Response to Comments 10 and 11:** The Department appreciates the commenters' support.

12. **Comment:** The NJDEP stated throughout the 2014 Integrated Report that the main focus of the report was to assess water quality in the Atlantic Coastal Region. Many listing/delisting decisions during this 2014 cycle were made outside of the Atlantic Coastal Region. Explain why assessments were made for certain waterbodies outside of the Atlantic Coastal Region. (USEPA)

**Response:** Sections 303(d) and 305(b) require states to biennially list all waters of the State that are not meeting applicable surface water quality standards and to report on water quality and designated use support statewide. As explained in Section 2.0 of the 2014 Methods Document, the 2014 Integrated Report includes an assessment of water quality data collected from all waters of the State but provides a more comprehensive assessment of water quality in the Atlantic Coastal Region based on "across-the-board watershed information and water chemistry, physical, and biological data to produce a robust assessment of environmental



conditions affecting water quality” in this water region. “Although this more in-depth analysis is limited to the primary region in a given cycle, water quality data from sampling completed in other regions are also evaluated. Stations located outside the primary region must meet the target sample size identified in the section ‘Target and Minimum Number of Samples’ in order to support a new or revised assessment decision.” See Section 4.1 of the 2014 Methods Document for a detailed description of targeted and minimum data thresholds.

13. **Comment:** Explain what is meant by “generally” in the following statement: “The 2014 Integrated Report (IR) describes the overall quality of New Jersey’s surface waters based on existing, readily available data collected generally between January 1, 2008 and December 2012.” Did the NJDEP make any listing/delisting decisions based on data collected outside of the data solicitation period? (USEPA)

**Response:** This statement refers to Section 3.1 of the 2014 Methods Document, which states: “The Department considers five years of readily available data collected during the reporting period to characterize current conditions. In the primary assessment water region, older data may also be used in conjunction with newer data to demonstrate water quality trends where appropriate analytical methods have been applied and results can easily be compared with more recent data and the older data enhances the Department’s ability to assess current conditions.” Data previously submitted in prior Integrated Report cycles was used in the 2014 assessment process for comprehensive assessment of the Atlantic Coastal Region. Data from as far back as January 1, 2002 was used at stations within the Atlantic Coastal Region to validate final assessment results as part of the comprehensive assessment process. See the 2014 Methods Document Section 2.0 and 3.1 for more details on the use of data older.

14. **Comment:** NJDEP operates several probability-based monitoring networks. The role of these networks and the use of those data in the IR process should be discussed under Page 1, Introduction. (USEPA)

**Response:** As requested, a brief description of the Department’s probability-based monitoring networks has been added to Section 1.1 of the final 2014 Integrated Report. All data from these networks were used to generate the 2014 Integrated Report and 303(d) List. The data from the Department’s probabilistic networks are incorporated with all other data used to generate the 2014 Integrated Report and 303(d) List, which provides a robust and comprehensive data set for evaluating waters of the State. Additionally, data from the probabilistic monitoring networks are used to generate statistical estimates of statewide water quality conditions necessary to populate USEPA’s statistical surveys of national water quality. The results of the statistical surveys for New Jersey waters can be found on the USEPA ATTAINS website at [https://ofmpub.epa.gov/waters10/attains\\_state.control?p\\_state=NJ](https://ofmpub.epa.gov/waters10/attains_state.control?p_state=NJ).

15. **Comment:** Did the NJDEP use results obtained through a water quality model or dynamic model to assess use support and/or remove an assessment unit/pollutant combination from its 303(d) list? (USEPA)

**Response:** For the 2014 303(d) List, no pollutants were added or removed based on modeling. However, heptachlor epoxide in two Raritan Bay AUs were administratively removed from

the 2014 303(d) List that were mistakenly added to the 2012 303(d) List. An administrative mistake accidentally added the two AUs (see table below) in 2012 although there was no new data or modeling results to support such listing. These two AU/pollutant combinations were delisted in 2014 and moved from Sublist 5 to Sublist 2 based on the Contamination Assessment and Reduction Project (CARP) modeling that showed full support. (see Appendix C: 2014 Causes Removed from Sublist 5/303(d) List (Delisted Waters)).

Assessment Unit Number	Assessment Unit Name	Parameter	Original Listing Station	Delisting Reason	Explanation
02030104910030-01	Raritan Bay (deep water)	Heptachlor epoxide	HEP	Applicable WQS attained; original basis for listing was incorrect.	Administrative error, Raritan Bay should have never been listed in 2012.
02030104910010-01	Raritan Bay (west of Thorns Ck)	Heptachlor epoxide	HEP	Applicable WQS attained; original basis for listing was incorrect.	Administrative error, Raritan Bay should have never been listed in 2012.

16. **Comment:** Did the NJDEP determine that there was sufficient information to determine if a waterbody is threatened and the NJDEP listed the water as impaired due to the trend assessment? (USEPA)

**Response:** As explained in Section 3.2 of the 2014 Methods Document, the Department is required to identify all “threatened and impaired” waters on the 303(d) List.

“Threatened waters” are defined as waters that currently meet water quality standards but are likely to exceed standards by the time the next 303(d) List is generated. Assessing threatened waters requires sufficient existing and readily available data and information on adverse declining trends to predict future water quality. This means a dataset must be sufficiently robust to support the evaluation of short-and long-term statistical trends. The Department maintains a series of long-term monitoring locations, which support statistical trends assessments developed by the USGS. Assessments to determine if waters are threatened are conducted by the Department wherever sufficient data and trends assessments are available to make such predictions.”

To date, there has been insufficient data to support an assessment of any waters of the State as “threatened”; however, the Department is developing an assessment tool to help detect trends that may support listing waters as threatened on future 303(d) Lists.

17. **Comment:** Barnegat Bay has over 86 subwatersheds and NJDEP has segmented these connected waterbodies. It is clear that this is one large waterbody connected to a wide geographic area and NJDEP should designate it as such. If one part is impaired, others will follow. (KA)

**Response:** It would not be scientifically justified to assume that one pollutant in one waterbody would have the same impact throughout the entire Barnegat Bay Watershed. By segmenting the Barnegat Bay Watershed, the impacts of different pollutants can be identified on a smaller scale, the extent of the impacts can be assessed, prioritized, and restoration/protection actions

implemented. This is the case for all large waterbodies which is why the Integrated Report shows its results by assessment units whose scale and/or boundaries are refined over time as we develop a better understanding of the hydrological conditions of the assessed waterbodies. The Barnegat Bay Watershed is divided into 86 Assessment Units representing the freshwater tributaries and lakes, tidal tributaries marshes, and the open bay. While the bay is hydrologically connected to all 86 AUs as part of the larger watershed of the Barnegat Bay Estuary, the impact of pollutants on water quality vary from very localized impacts to more wide ranging effects depending on the hydrology/hydrodynamics, stream classifications and designated uses of the waters in each AU (e.g., freshwater vs. saline). The 2014 Methods Document explains the Department revised the assessment units in the Barnegat Bay, based on hydrologic and water quality data, to more accurately reflect conditions within the bay.

18. **Comment:** For continuous monitoring (all parameters): How did the NJDEP determine that for criteria expressed as “not less than at any time” it is sufficient to only list an excursion when the concentration is below the criteria for at least one hour? (USEPA)

**Response:** As explained in Section 4.1 of the 2014 Methods Document, “Continuous Monitoring”:

For SWQS criteria expressed as either a minimum or “not less than at any time”, an excursion relative to the minimum criteria occurs when the concentration over a 24-hour period is below the criterion for at least a one-hour duration. For assessment purposes, a minimum of two such excursions at the same location during two or more 24-hour periods may be considered as an exceedance. For large continuous datasets, relative frequency and magnitude of the exceedances within the dataset are also considered to determine non-support of the designated use.

Water quality standards for dissolved oxygen (DO) were developed in an era when continuous or semi-continuous monitoring of DO was non-existent. Recently, continuous monitoring probes have become more common and have been deployed at many sites. The practice of using a one-hour duration was established to reflect the capability of older continuous monitoring probes, which could only save DO measurements at a rate of once an hour. With the advancement of data storage technology, DO measurements can now be saved more frequently; however, this capability led to the following issues:

- The toxicological studies used in the development of standards typically used durations of at least 24 hours and up to 96 hours<sup>2</sup>; therefore, such studies will not support a determination of biological impairment over shorter durations.
- When grab samples were used for compliance determination, non-attainment were cited only if the measurement was less than the never-to-exceed criteria. As a result, the criteria

---

<sup>2</sup> U.S. Environmental Protection Agency, “Ambient Aquatic Life Water Quality Criteria for Dissolved Oxygen (Saltwater): Cape Cod to Cape Hatteras”, November 2000

becomes much more stringent for continuous data than previously applied using grab samples.

- There could be very short term excursions from the standards as a temporary effect of flow, instrument operation and other site specific impacts.

Without any biological studies to definitively determine the exact duration of the excursion to be actually representative of an impaired condition, it was determined that the use of the criteria as a never to exceed threshold for the continuous data is inappropriate. Based on best professional judgement, excursions must remain for at least a one-hour duration to be considered an actual exceedance. Over the past few years, the Department's Science Advisory Board (SAB) was asked to consider whether the one-hour duration was appropriate and their preliminary findings confirmed that it was a very conservative threshold of the DO water quality standard. Although SAB's findings were for DO only, the justification is valid for other water quality parameters such as temperature, pH, turbidity and nitrate, for which continuous monitoring data has been generated with a very high frequency of recordings.

19. **Comment:** The draft 2014 Integrated Report relies in part on data from two organizations that preceded the Raritan Headwaters Association: The South Branch Watershed Association (SBWA) and the Upper Raritan Watershed Association (URWA). SBWA and URWA (like RHA) each collected data from their stream monitoring sites annually. The draft 2014 Integrated Report relies on data from 2008 to 2012. However, Appendix B indicates that DEP used SBWA monitoring data only from 2010 and URWA data only from 2009-2010. Was SBWA and URWA data from years other than 2009 and 2010 used? If not, why not? The monitoring network established by SBWA and URWA is extensive, currently including 62 monitoring sites. Was data from all SBWA and URWA monitoring sites used, or only select data? If only select data was used, what data was excluded and why? (RH)

**Response:** Commenter is referring to Draft 2014 Integrated Report Appendix E: Data Sources, which shows that the Department used SBWA macroinvertebrate data collected in 2010 from the South Branch Raritan River watershed and URWA macroinvertebrate data collected in 2009-2010 from the North Branch Raritan River watershed. The Department has used the SBWA and URWA macroinvertebrate data for many years for the Integrated Report. For the 2014 Integrated Report, the focus was on the Atlantic Coastal Water Region and only readily available data between 2009 and 2010 were used from SBWA and URWA for this report due to a delay in receiving the 2011 and 2012 data. In anticipation of the 2016 Integrated Report where the Raritan Water Region is the focus, the Department opted to wait to use the most recent data for the comprehensive assessment in 2016 to get the most accurate and detailed review of the Upper Raritan Watershed. This decision was based on avoiding conflicts between 2014's less comprehensive assessment to 2016's detailed assessment.

20. **Comment:** It appears that the development of a benthic index for coastal and estuary waters has still not been completed, although underway since before the 2012 IR. Since the NJDEP is now going to a rotating basin approach, clarify if the application of an ocean and/or estuary benthic index will wait until the next time the Atlantic Coastal Water Region (ACR) comes around in the cycle. (USEPA)

**Response:** The commenter is correct that the work initiated in 2012 to develop biological indices for estuarine and nearshore ocean indices was not completed in time for the 2014 assessment; however, the Benthic Macroinvertebrate Index for Barnegat Bay was recently finalized during the summer of 2016 and will be used for the 2016 assessment. The description and justification of the Barnegat Bay Index will be detailed in the revised draft 2016 Methods Document when it is published in early 2017. The ocean index, in contrast, has not yet been validated and will require additional monitoring data that encompasses a full disturbance gradient. The Department is working with USEPA's Office of Research and Development to explore options to validate the ocean index so it can be finalized.

### **Nutrients**

21. **Comment:** Since 2002, the Department has made substantial technical improvements to the manner in which it applies its nutrient criteria, and to the criteria themselves, as documented in the Department's Technical Manual for Phosphorus Evaluations (2008); Passaic River Basin and Raritan River Basin TMDLs; Proposed SWQS Amendments, December 21, 2009; Adoption of SWQS Amendments, December 21, 2010; 2010 Assessment Methods Document; Nutrient Criteria Enhancement Plan – 2010 Progress Report; and NJ Nutrient Criteria Enhancement Plan, 2013. However, this report appears to reverse this progress in assessment of nutrient impairment. Phosphorus impairment designations were made solely based on instream Total Phosphorus (TP) concentrations, without any evaluation of whether the narrative criteria are satisfied (and therefore whether the instream TP criterion is applicable). This assessment is premature and lacking in scientific basis. Section 4.4 (Assessment of Nutrient Impacts) of the Methods document had been utilized during the 2010 and 2012 assessment cycles, and proposed for use again in the 2014 assessment cycle. However, the Department removed Section 4.4 from the Final Assessment Methods Document for 2014. This change leaves no mechanism to evaluate whether the instream TP criterion applies to a given waterbody. The DEP's rationale for this change is a lack of the required data, as well as concerns raised in the past and in the current cycle regarding the use of DO swing and chlorophyll a levels to assign a specific pollutant cause to impaired macroinvertebrate communities. The commenter believes sufficient diurnal DO data exists to identify locations where the instream TP criterion does not apply and to provide a more realistic assessment of waters that may be impaired by nutrients. The Department did not specify what concerns were raised about the use of a DO swing to rule out phosphorus causation. (MT, RVRSA, SRVSA, SBRSA)

**Response:** The method for assessing impacts of nutrients on water quality and identifying where the aquatic life use was impaired due to nutrients, Section 4.4 Assessment of Nutrient Impacts was first introduced in the 2010 Methods Document. However, in attempting to implement this new method over the subsequent assessment cycles, the Department determined that sufficient information was rarely available to apply this method. The Department also concluded that the nutrient assessment methodology within the context of the Integrated Report assessment process represented an over-simplification of highly complex processes. Furthermore, both the Department and USEPA determined that this methodology was not adequately protective of downstream receiving waters exposed to long-term nutrient enrichment.

The Department has since concluded that the in-depth analysis required to assess nutrient impacts on a specific waterbody cannot be conducted as part of a statewide or regional water quality assessment but rather should be conducted as part of the TMDL process. A waterbody- or watershed-specific TMDL study would generate sufficient data and targeted analysis to evaluate impacts on an extended time-series (accounting for various flow/temperature scenarios) through modeling. The removal of Section 4.4 (Assessment of Nutrient Impacts) from the Methods Document is consistent with the Department's current approach to determining nutrient impacts through water quality modeling, sampling and detailed analysis conducted for TMDL development, which will enable an improved understanding of nutrient impacts on water quality in specific waterbodies. The Department has established nutrient TMDLs for the Passaic River Basin and the Raritan River Basin as well as numerous rivers and lakes throughout the State (see "Table of New Jersey TMDLs and Approval Status" on the Department's website at <http://www.state.nj.us/dep/wms/bears/tmdls.html>).

The updated (2013) New Jersey Nutrient Criteria Enhancement Plan (NCEP) provides a detailed description of the Department's strategy for enhancing the existing nutrient criteria for freshwaters and developing new nutrient criteria for coastal waters through an assessment of the complex relationships. Nutrient criteria, which may include numeric criteria and numeric translators of narrative criteria, will be developed to address existing and future nutrient-related impairment in New Jersey waters. The 2013 NCEP is located on the Department's website at [http://www.state.nj.us/dep/wms/bears/nutrient\\_criteria.htm](http://www.state.nj.us/dep/wms/bears/nutrient_criteria.htm).

22. **Comment:** Since waters have not been assessed based on the State's recently adopted narrative nutrient criteria and only a portion of the State's freshwaters are covered by the numeric Total Phosphorus criteria, it is important that the NJDEP provides a specific timeframe for the adoption of the numeric Total Phosphorus and Total Nitrogen criteria to protect all of the waters of the state from nutrient eutrophication. The best place for this information would be the Nutrient Criteria Enhancement Plan (NCEP) document. Both the Methods and Integrated Reporting documents could then refer to the NCEP for the specific schedule. (USEPA)
23. **Comment:** Although significant amount of work is being described for the Barnegat Bay in the Integrated Report, it is important to point out that this waterbody is not presently being assessed for nutrient impairments because only the narrative nutrient criteria applies. This is another reason why the NCEP should be revised ASAP to include detailed plans not only for the derivation, but also for the numeric criteria adoption, including the specific schedule. (USEPA)
24. **Comment:** The commenters request that NJDEP establish numeric nutrient standards, specifically for Barnegat Bay. (BBP, COA, SBB)
25. **Comment:** The Integrated Report document states the following: "Numeric water quality standards already exist for some parameters in estuarine waters; and on December 21, 2010, the NJDEP adopted narrative nutrient criteria for coastal waters. However, developing numeric translators for narrative nutrient criteria is a complex and challenging task that has not yet been completed." (Page 94) According to the Methods Document, nutrients

(phosphorus and nitrate) are assessed based only on the existing current numeric criteria, which for total phosphorus is limited to FW2 lakes and streams, and for nitrates, which is limited to human health criteria related to drinking water supplies. New Jersey also adopted the narrative nutrient criterion which is applicable to all of the state's waters. The explanation should be provided why this criterion is not presently being used for assessment purposes. (USEPA)

**Response to Comments 22 thru 25:** All New Jersey's waters including Barnegat Bay are assessed based upon the current surface water quality standards and criteria promulgated under the New Jersey Surface Water Quality Standards rules, N.J.A.C. 7:9B. Although numeric translators for the narrative nutrient criteria have not yet been developed to determine conditions in all waters, the Department has established a chlorophyll-a translator for the non-tidal Passaic River Basin as part of the TMDL adopted in April 2008 ([http://www.nj.gov/dep/wms/bears/docs/passaic\\_tmdl.pdf](http://www.nj.gov/dep/wms/bears/docs/passaic_tmdl.pdf)) and is working with USGS on developing the nutrient numeric criteria/translators for the Barnegat Bay. In conjunction with the modeling work with USGS, the Department has funded research work in recent years on biological indicators for nutrient criteria development. It is expected that, once the numeric nutrient criteria/translators are developed and adopted for Barnegat Bay, additional research will determine the applicability of the new standards to other estuaries in the State.

Additionally, the Department is working with the Delaware River Basin Commission (DRBC) to develop a water quality model for phosphorus criteria for the Delaware River and its tributaries. The new criteria developed in this effort will apply to New Jersey's freshwater tidal tributaries to the Delaware River as well as the mainstem Delaware River, which is a major component of the Department's plan to develop nutrient criteria for all waters of the State. In the meantime, the Department continues to implement the existing total phosphorus criteria of 0.1 mg/L in all freshwater rivers and tributaries upstream of the head of tide and 0.05 mg/l in all freshwater lakes. A more detailed description of the Department's plan to address nutrient criteria development and enhancements is found in the 2013 New Jersey Nutrient Criteria Enhancement Plan (NCEP) located on the Department's website at [http://www.state.nj.us/dep/wms/bears/nutrient\\_criteria.htm](http://www.state.nj.us/dep/wms/bears/nutrient_criteria.htm). A major revision to the NCEP for 2016 is currently underway and will be posted on the same webpage upon its completion.

26. **Comment:** Page 64 the Integrated Report document states as following: "The NCEP explains the details of each of these steps by waterbody type, including priorities, milestones, and where possible, timelines for further study." The expectation of the reader in this section is to learn about the applicable numeric nutrient criteria. This statement is misleading because the NCEP, as presently written, does not include specific schedule for nutrient criteria derivation, nor adoption. (USEPA)

**Response:** The Department believes that priorities and a time frame are provided in the Nutrient Criteria Enhancement Plan (NCEP) representing essential studies and our best estimates as to their completion dates based upon the information we had at the time the 2013 NCEP was drafted. In 2016, the Department is providing a major revision to the document with significant updates to lake, non-tidal river, and Barnegat Bay nutrient criteria development. The revised NCEP will provide more detailed progress schedules based on

recent studies and research. The 2013 NCEP is located on the Department's website at [http://www.state.nj.us/dep/wms/bears/nutrient\\_criteria.htm](http://www.state.nj.us/dep/wms/bears/nutrient_criteria.htm).

### **Naturally Occurring Parameters**

27. **Comment:** Low DO is often naturally occurring due to mucky stream bottoms in sediment accumulation areas. NJDEP needs to discriminate between natural and anthropogenic causes of DO impairment in order to provide a more realistic assessment of water quality. Two commenters specifically stated that this is the case in the lower Millstone River. (MT, RVRSA, SRVSA, SBRSA)

**Response:** The Department's water quality assessment methods include protocols for distinguishing between natural and anthropogenic causes of impairment; however, USEPA guidance establish a very high threshold for confirming naturally occurring causes of impairment, including ambient water quality data and effluent data from any NJPDES-permitted facilities discharging within the assessment unit. Thus, there are many cases where the Department suspects naturally occurring causes to be the source of use impairment but is unable to support delisting the pollutant without additional sampling and/or further detailed analysis. In the Lower Millstone River, both natural and anthropogenic (e.g. sedimentation from TSS runoff) causes may be the source of low DO in the waterbody; therefore, the Department cannot conclude that the cause is entirely naturally occurring (i.e. sediment oxygen demand). The Department may reevaluate such assessments based on additional data or more detailed analysis conducted through a TMDL or Watershed Restoration Plan when it is developed to address the impairment.

28. **Comment:** The DEP acknowledges that many temperature "impairments" may actually reflect natural conditions, and promises a more in-depth analysis. The commenters recommend that AUs with temperature impairments but without any thermal discharges be placed on Sublist 3 (insufficient data) until such an in-depth analysis of natural conditions is performed. (MT, RVRSA, SRVSA, SBRSA)

29. **Comment:** The Integrated Report states the following: "A more in-depth analysis of these impaired AUs is planned to determine if temperature reflects natural conditions or actual use impairment." (p. 16) How will the "natural" temperature level be determined for the individual areas? For consistency reasons, it would be important to provide detailed information on this procedure either in the Methodology or IR documents. This approach will most likely be used in the future for other areas. (USEPA)

**Response to Comments 28 and 29:** As part of the Department's initiative to better understand natural conditions in the Pinelands, continuous temperature monitoring has been initiated in pristine watersheds throughout the Pinelands to determine natural conditions. Nine temperature probes were deployed in June 2015 and will be deployed for at least two years year-round except December to February, to prevent damage from freezing. Detailed information will be provided after the Department has collected, analyzed and determined the appropriate natural condition range for Pineland waters. Until natural conditions are verified in waterbodies not meeting their criteria, they will remain on the 303(d) List as impaired.



### **Insufficient Data**

30. **Comment:** Waters listed as “insufficient data” in the Draft 2014 Integrated Report that were listed as impaired in the 2012 Integrated Report should be included in the calculation of impaired waters for the Draft 2014 Integrated Report. (COA)

**Response:** USEPA guidance requires placement on Category 3 (Sublist 3 of New Jersey’s Integrated List) of any waters for which there are insufficient data to assess compliance with the applicable surface water quality standards (SWQS) because without sufficient data there is no scientific basis to support a determination that the SWQS are not being met or that water quality is impaired and not supporting the applicable designated uses (see Sections 5.0, 6.0 and 7.0 of the 2014 Methods Document and USEPA Guidance for Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act on the USEPA website at <https://www.epa.gov/tmdl/integrated-reporting-guidance>). In assessing all readily available data for the 2014 Integrated Report, the Department determined that some waterbodies were incorrectly assessed as impaired when there was actually insufficient data available to support such a conclusion. These waterbodies were delisted and moved from Sublist 5/303(d) List to Sublist 3. The explanation of these delistings is provided in the 2014 Integrated Report, Appendix C (Delisted Waters, With Reasons and Explanations). Examples of such delistings include: correction of an administrative error that resulted in a 303(d) listed AU/pollutant combination for which there is no sampling data available for that pollutant in that AU; change in assessment method for a 303(d) listed AU/pollutant combination that resulted from invalid application of a freshwater biological metric in waters subject to tidal influences or located below a lake outlet; and administrative error that resulted in 303(d) listings for arsenic based on a dataset that contained more than 50% censored data, which should not have been used as a basis for assessment (see 2014 Methods Document Section 4.1, “Computations Using Censored Data”).

31. **Comment:** NJDEP has not made satisfactory progress in addressing the numerous “insufficient data” Sublist 3 listings from the 2012 report to the 2014 report. This report should discuss what will be done in the future to address the issue of insufficient data that was cited throughout the document as limiting proper designated use assessment. For example, will there be an increase in funding and support for citizen science initiatives? (COA, PPA, RH)

**Response:** As stated in response to Comment #9, previous Integrated Reports contained a chapter on Next Steps that discussed future needs and actions to support water quality monitoring and assessment, including strategies to fill data gaps such as waters on Sublist 3 of the Integrated List. Such strategies are being incorporated into the Department’s pending update to the Long Term Monitoring and Assessment Strategy prepared pursuant to CWA Section 106(e)(1) and in accordance with USEPA guidance “Elements of a State Water Monitoring and Assessment Program” (March 2003). Funding and support for citizen science initiatives is beyond the scope of the Integrated Report.

## RESULTS OF THE 2014 INTEGRATED WATER QUALITY ASSESSMENT

### **Current Statewide Water Quality Conditions and Key Findings**

32. **Comment:** It is apparent from this quick comparison of AUs that attain all designated uses in the State from 2008 to 2014 that, not only are water quality improvements not occurring, but in fact, we are witnessing the continued decline of water quality statewide. Furthermore, the Integrated Report “shows median concentrations of [total dissolved solids], chlorides, dissolved nitrate plus nitrite and total nitrogen increased statewide during the assessment period.” This is unacceptable from a societal, ethical, and public health point of view, as well as with the Clean Water Act’s anti-degradation requirements. (COA)

**Response:** A “quick comparison” of key findings from the 2008 Integrated Report to the 2014 Integrated Report would not provide an accurate indication of water quality trends over time. Many changes have been implemented in both the methods for and the scale of assessment, including changes in assessment unit boundaries and station associations – not to mention changes in surface water quality criteria – that would render such a comparison as “apples to oranges”; which is among the reasons why each Integrated Report includes a “snapshot” of conditions over a five-year period, as well as a longer-term trends assessment that evaluates data over longer periods and allows the Department to identify water quality trends and acute conditions (see Chapter 3: Water Quality Trends). Chapter 3 summarizes the results of several longer-term water quality studies published by the U.S. Geological Survey (USGS). As stated in the chapter conclusion, “When results are viewed from the longer time period beginning from the mid 1970’s, the overall water quality trend indicate that nutrient levels as reflected in total phosphorus and total nitrogen have improved over time – most likely due to the upgrade and regionalization of wastewater treatment plants that occurred throughout the State in the late 1980’s through the early 1990’s. Changes in total phosphorus in the more recent period observed on a site specific basis are mixed and likely reflect more localized land use changes. More recent trends for nitrogen show that increases in nitrate accompany decreases in ammonia. This increase in nitrate is most likely due to the successful efforts of the Department to reduce ammonia discharges from wastewater treatment facilities by oxidizing it to nitrate.”

The 2014 Integrated Report’s key finding from these long-term trend studies was, contrary to the almost exclusive national and state focus on nutrients, primarily phosphorus and nitrogen, as the primary cause of water quality impairment, conditions for these parameters appear to be improving statewide, except for certain very localized land use impacts. More importantly, the only clearly declining trends in water quality were for two parameters, TDS and chlorides, which are generally associated with runoff from urban and agricultural areas, especially runoff of salt used to control ice on roadways. It should also be noted that the declining conditions documented in the USGS long-term trend studies have not yet resulted in designated use impairment in the assessment units that were monitored. This finding should support state and local stormwater management, nonpoint source pollution control and alternative road de-icing measures necessary to mitigate this declining trend and prevent future water quality impairment.

33. **Comment:** The results of the 2014 Integrated Report should not be seen as a positive for water quality in the State: only 14 of the 958 Assessment Units in the state meet all designated uses. This means that over 98% of the waters in the State fail to fully meet water quality standards. Furthermore, the fish consumption designated use is left out entirely. The commenter requests that NJDEP redraft these statements throughout the Draft 2014 Integrated Report to portray a more realistic view of the water quality issues found throughout New Jersey. This redrafting would include the use of the statement “98% of waters in the State fail to meet water quality standards” as opposed to the use of a single designated use percentage. (COA)
34. **Comment:** Commenters were dissatisfied with the statement that “55% of New Jersey’s 958 AUs fully support at least one designated use.” They expressed that it would be more accurate to say that 45% of New Jersey’s 958 AUs either: 1) cannot fully support even one designated use; or 2) have insufficient data to determine their status. Meeting just one of the five designated uses does not mean a water body meets federal Clean Water Act standards and this is unacceptable. What percentage of AUs statewide fully support all designated uses? This statistic should be included in the 2014 Integrated Report. (RH, KA)
35. **Comment:** The Water Quality Assessment Report can benefit from improved discussion throughout the text. While changes since the 2012 report are explained, the overall status of nearly half of all assessment units unable to fully support even one designated use should be addressed. (PPA)

**Response to Comments 33 thru 35:** The Integrated Report presents the results of the Department’s assessment of overall water quality conditions for all waters of the State and their support of designated uses, as required under Section 305(b) of the federal Clean Water Act. The 2014 Integrated Report presents the results of such assessment by indicating the percentage of assessment units statewide that fully support their applicable designated uses, as well as the percentage that do not support such uses and the percentage for which insufficient information is available to assess such uses. Whether the executive summary and key findings emphasizes the percentage of designated use support rather than the percentage of non-support is a matter of personal preference since all of the information is provided in an objective and scientifically supported manner. The corresponding Methods Document describes the comprehensive approach and assessment protocols that are used to determine attainment of applicable SWQS and support of applicable designated uses. It should be noted that the Integrated Assessment is iterative and refinements are made to assessment methods as well as design and presentation of assessment results in the Integrated Report each reporting cycle. The Department currently exploring the use of new reporting tools and formats that are expected to provide information in a more detailed yet easier to understand, user-friendly, interactive format that can be accessed through the Department’s website. We hope to launch these new tools for the 2016 or 2018 Integrated Reports.

36. **Comment:** While the second Key Finding states that “Statewide, 205 miles of rivers and streams, and 2,197 acres of lakes located within 14 of New Jersey’s 958 subwatersheds fully support all designated uses (except for fish consumption),” it is still important to raise the

designated use to the actual use of each subwatershed. How will NJDEP be addressing this issue in future 303(d) lists? (KA)

**Response:** The Key Findings provide highlights of the Integrated Report. The Integrated Report provides all of the results for assessment of all designated uses in all waters of the State on an assessment unit basis. Designated uses are established under the SWQS rules at N.J.A.C. 7:9B-1.12 and include all existing uses; however, not all waters are designated for all uses. The assessment results for all applicable designated uses, including the fish consumption use, are provided for each of New Jersey's 958 AUs in Appendix A, "Integrated List of Waters". These results are summarized in Chapter 2 and in the Executive Summary of the full Integrated Report.

37. **Comment:** The third Key Finding states: "2,111 miles of rivers and streams and 11,917 acres of lakes, or 16% of New Jersey's subwatersheds, fully support the aquatic life designated use. Aquatic life use impairment is mostly due to nutrient over-enrichment." Better management practices and simple life adjustments could help aquatic life impairment. How has NJDEP addressed this issue in the past and what will change for the next reporting period. (KA)

**Response:** Since 2002, all Integrated Reports have included a chapter summarized New Jersey's Water Quality Management Programs and steps taken, underway or planned to address water quality impairment, including aquatic life use impairment from nutrient over-enrichment. Chapter 4 of the 2014 Integrated Report provides substantial details on such programs, including TMDLs, NJPDES permits, Stormwater Management, and CSO controls, to name a few. In addition, the New Jersey Nonpoint Source Management Program Plan (2015-2016) at highlights the key actions that New Jersey and its partners will use to address water quality impairment caused by nonpoint source pollution, including nutrient over-enrichment (see [http://www.nj.gov/dep/wms/bears/docs/nps\\_plan\\_2015.pdf](http://www.nj.gov/dep/wms/bears/docs/nps_plan_2015.pdf)). The Plan identifies New Jersey's strategies to protect, maintain and improve water quality impacted by nonpoint source pollution. These include strategies that range in scale from statewide, such as the NJ Fertilizer Law N.J.S.A. 58:10A-61 et sq., to watershed-based restoration activities, such as source controls and combined sewer overflow permits requiring development and implementation of long term control plans.

38. **Comment:** As the 2014 Integrated Report states: "The most frequent cause of water quality impairment is the result of pathogens, which include E. coli, enterococcus, fecal coliform and total coliform..." Elevated bacteria in stormwater runoff and during wet-weather flow conditions in urban streams is well documented. Much of the bacterial impairments can be attributed to non-point source storm water runoff. This indicates that NJDEP must do a better job and identify and implement actions that have been successful. Can NJDEP predict if there have been improvements in the delayed 2016 List that should be out this year? (COA, KA)

**Response:** The Department has not yet completed the integrated assessment for the 2016 Integrated Report or 303(d) List so we cannot predict what changes will result in assessment outcomes for any pollutant or assessment unit. As explained in response to Comment #37, Chapter 4 of the Integrated Report summarizes the Department's programs that are responsible for protecting and restoring water quality, including many that regulate point and

nonpoint sources of bacteria discharges, including wet-weather flows, stormwater runoff, and other nonpoint sources. Over 80% of pathogen impairments identified in the 2014 cycle are already covered by TMDLs that include load allocations requiring reduction in nonpoint sources of bacteria. Additionally, permit requirements for Combined Sewer Overflows (CSOs) include development and implementation of Long Term Control Plans that identify nonpoint sources as well as point sources of bacteria and other pollutants causing water quality impairment. The Department also conducts pathogen source track down studies to identify sources of bacterial contamination of shellfish waters and develop plans to alleviate the problem. The Department's Nonpoint Permitting Program issues permits to municipalities and industries requiring pollution prevention plans, source controls, and other best management practices (BMP) such as those published in the Department's Stormwater BMP manual (see [http://www.njstormwater.org/bmp\\_manual2.htm](http://www.njstormwater.org/bmp_manual2.htm)), which describes proven practices and techniques to reduce stormwater contamination to our waterways.

### **Water Quality Conditions in the Atlantic Coastal**

39. **Comment:** Clarify why the Atlantic Coastal Region (ACR) and especially Barnegat Bay, were intensively sampled for this Integrated Report, and there are still several AUs that have "insufficient data" for the aquatic life use (see Pg. 49, Figure 2.26: Comparison of General Aquatic Life and Recreation Uses 2012-2014). (USEPA)

**Response:** The Barnegat Bay has "Insufficient Data" for aquatic life designated use based on the requirement for biological index data results that had not been developed yet for the 2014 Integrated Report. The biological indicator is needed to fully assess the aquatic life use along with applicable chemical data. The Department recently completed developing a scientifically-supported biological index based on benthic macroinvertebrates that can be used to assess biological conditions in the saline waters of Barnegat Bay that will be incorporated into the 2016 Methods Document as explained in Comment #20. In the meantime, 2014 assessments in Barnegat Bay will be reported as "Insufficient Data" for aquatic life use in situations that biological data is required. In the 2014 Integrated Report there exists two in-bay assessment units, Barnegat Bay Central Bottom and Barnegat Bay Central East, evaluated to be "Insufficient Data".

### **Water Quality Conditions in Barnegat Bay**

40. **Comment:** In 2013, Dr. Michael Kennish authored a report by the Rutgers Institute of Marine and Coastal Sciences that showed that pollution was worse in the Barnegat Bay than previously thought as a result of nitrate and phosphorous pollution and eutrophication. This report should have concluded the research phase of the Barnegat Bay Ten Point Action Plan and served as clear and irrefutable final proof that Barnegat Bay exceeds narrative nutrient criteria SWQS and should be listed as impaired. However, the Draft 2014 Integrated Report fails to list the Barnegat Bay as impaired due to nutrients. This is unacceptable. Even absent the implementation of numeric criteria, there is more than enough evidence to list the Bay as impaired due to exceedance of narrative nutrient criteria. The commenter urges the NJDEP to list the Barnegat Bay on the 303(d) as impaired in the 2014 integrated report. (COA)

41. **Comment:** The recent intensive monitoring and assessment conducted by the NJDEP and partners has confirmed that Barnegat Bay is in a state of eutrophication due to urban development and stormwater pollution. Barnegat Bay is an impaired waterbody is economically and socially important. Over-development, soil compaction, stormwater run-off and in particular, nutrient pollution are the primary stressors causing the eutrophic conditions. This gives cause for serious concern that the waterbody could be reaching an ecological tipping point. Barnegat Bay is an estuary of national significance. It should be treated with more serious priority status than an inconsistent effort to monitor and report. The longer the NJDEP delays the appropriate, consistent methodologies and remedies, the more exacerbated the conditions in the bay become. Barnegat Bay continues to decline and is increasingly becoming a public health issue. (SBB)
42. **Comment:** We applaud the Department's efforts to improve monitoring and assessment of the Barnegat Bay's health. However, many of the assessment units within the bay continue to violate the narrative nutrient standard, as pointed out in our comment letter on the 2012 Integrated Report. Once the nutrient narrative criteria have numeric translators, it would also be reasonable to expect additional impairments to be officially recognized. We believe that the bay clearly should be identified as a high priority under the criteria set forth in the Monitoring and Assessment Methods document. (BBP)

**Response to Comments 40 thru 42:** The Department recognizes that observed effects in the Barnegat Bay, such as seagrass declines, algal blooms, high macroalgal densities, shellfish declines, and sea nettle population rises are well documented; however, current research does not conclusively establish that these observed effects are caused by nutrient over-enrichment rather than other causes or sources. In addition to nutrients, such as nitrogen, other stressors that can cause similar effects include reduced light penetration from boat traffic, circulation patterns, temperature and salinity levels, sediment contamination, over-harvesting of shellfish, and habitat changes. Although excessive nitrogen has been reported throughout the media as the cause for Barnegat Bay's degraded condition, no scientific studies have concluded that nitrogen is the only cause for current conditions in the Bay

The Department has sponsored studies of the Barnegat Bay that will help us better understand the physical, chemical, and biological processes in the estuary in order to understand the role played by nutrients and other factors in manifesting the observed conditions in the Bay. These studies will investigate various biotic trophic levels and communities for condition and relationship to stressors, including diatoms, phytoplankton, zooplankton, benthic organisms, clams, crabs, and fish. There are also studies underway to evaluate the possible causes for increased abundance of sea nettles, the role of marshes and wetlands, and the effect of conservation zones. More details about these and other studies in the Barnegat Bay sponsored by the Department can be found on the Department's website at <http://www.nj.gov/dep/barnegatbay/plan-research.htm>. Through these studies, the Department is working to develop thresholds and indicators for various biological communities as well as establishing cause/response relationships so that the means to interpret and apply the narrative nutrient criteria in estuarine waters can be determined. The Department is also conducting comprehensive monitoring and modeling work, which will be used to establish linkages between pollutant loadings, water quality, and biotic community response, using information

from the research projects, where feasible. More details about this work can be found on the Department's website at <http://www.nj.gov/dep/barnegatbay/plan-wqstandards.htm>. The Department will continue to integrate the information acquired from the biologic community studies along with monitoring and modeling work to assess the degree to which the Bay meets numeric and narrative water quality criteria and supports designated uses.

As stated above, studies are currently underway that should verify correlations between suspected sources and observed conditions and help us understand the various stressors and their relative importance in to water quality in the Bay. The Department's work to understand the causes of observed conditions is important so that the most effective restoration actions can be implemented. Nevertheless, the Department is not waiting until nutrient thresholds, biological indexes and cause/response relationships are established to begin working on improving conditions in Barnegat Bay. Common sense actions that will advance the overall objective of restoring the Bay have already been undertaken. These include establishing a statewide fertilizer law, retrofitting stormwater basins to promote recharge and reduce nutrients, and acquiring open space. The Water Quality Monitoring Project for Barnegat Bay will be used to develop and calibrate a model that can then be used to simulate future conditions. Once the model is available, the Department will be able to evaluate various actions and, if the cause/response relationships are clearly defined, we should be able to determine the success of the selected actions.

43. **Comment:** Chapter 5 of the report does an excellent job of explaining how the Barnegat Bay Ten Point Plan Action Plan items #3, #7, and #9 relate to water quality. However, it lacks any update or discussion regarding seven of the ten points (action items 1, 2, 4, 5, 6, 8, and 10). In particular, addressing #2 (Fund Stormwater Runoff Mitigation Projects) and #4 (Require Post-Construction Soil Restoration) could have a substantial impact on water quality within Barnegat Bay. This report should 1) emphasize the importance of working with the Barnegat Bay Partnership (BBP) and its partners to identify our collective priorities and to leverage commitments to protect and restore the bay; and 2) update what actions have been taken since 2010 to implement all points of the plan and their impact on water quality. (PPA, BBP)

**Response:** This comment is beyond the scope of the 2014 303(d) List. While the focus area for the 2014 Integrated Report is the Atlantic Coastal Water Region, which includes the Barnegat Bay, the purpose of the Integrated Report is not to provide updates on the Governor's 10-point action plan for the Barnegat Bay, known as the Comprehensive Plan of Action. The Integrated Report is intended to meet the Department's reporting requirements on statewide water quality pursuant to Sections 303(d) and 305(b) of the federal Clean Water Act. As acknowledged by the commenters, Chapter 5 – and other sections - of the Integrated Report do discuss the elements of the Barnegat Bay related to water quality standards and assessment; however, the other action items, in particular, funding Stormwater Runoff Mitigation Projects and Post-Construction Soil Restoration are beyond the scope of the Integrated Report. Updates and status reports on the Barnegat Bay Action Plan are provided on the Department's website at <http://www.nj.gov/dep/barnegatbay/>.

44. **Comment:** What the bay needs now is a quantitative approach to limiting the sources of nitrogen and phosphorus inputs. The most widely accepted method of reaching quantitative

results is through the use of TMDLs. The commenter believes there is a high level of public and political support for development of TMDLs for the bay. Actions undertaken by citizens and non-profit organizations and proposed legislation demonstrate the support for scientific study and the development of sound public policy to protect and restore Barnegat Bay. (SBB)

45. **Comment:** Barnegat Bay should be placed on the TMDL priority list (Appendix B). A history of impairments, an increase in the number of recognized impairments as a result of the Department's increased monitoring activities in the bay, coupled with new modeling and other efforts, have clarified the broad extent of the bay's problems. New Jersey should institute high priority status for Barnegat Bay and develop TMDLs as required. While much of the impairment to Barnegat Bay is contributed by non-point sources, relying on voluntary watershed based plans to alleviate water quality issues is problematic. While it will take a suite of approaches to effectively address the health of Barnegat Bay, a TMDL provides an opportunity to begin addressing issues with defined standards which are currently lacking in the bay. (PPA, BBP)
46. **Comment:** EPA asks that NJDEP prioritize Barnegat Bay and commit to developing TMDLs or alternative restoration control strategies to address nutrient related impacts in the Bay. (USEPA)

**Response for 44 thru 46:** The findings from the ecological research projects funded by the Department under Comprehensive Action Plan Item #9, along with USGS's modeling work, are being used to develop site-specific criteria designed to support the health of the ecological community. Once the appropriate numeric water quality criteria are finalized, the Department will be in a position to assess support of aquatic life uses and identify the means to remedy any verified use impairment. This remedy may include a TMDL and/or watershed restoration plans. Prioritization of TMDLs and alternative restoration strategies for Barnegat Bay will be considered as part of the Department's new 303(d) visioning and prioritization process, including public and stakeholder input, for the 2016 Integrated Report as required by USEPA. New Jersey's "Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act" is provided in Appendix G of the 2014 Integrated Report.

#### WATER QUALITY TRENDS AND OTHER ASSESSMENTS

47. **Comment:** The draft 2014 Integrated Report demonstrates a trend toward "Fair" water quality (water quality in our most impaired waters is improving, while water quality in our least impaired waters is getting worse), which suggests a violation of the Clean Water Act's anti-degradation policy. Does the Department have an explanation for this apparent move to mediocrity? NJDEP should clearly explain why the percentages of AUs fully supporting Aquatic Life-General and Shellfish Harvest for Consumption have decreased. The Integrated Report demonstrates that there is a trend toward degradation of non-impaired waters, which raises significant concerns regarding New Jersey's obligations under the Clean Water Act to develop and adopt a statewide anti-degradation policy that maintains and protects existing water uses and the level of water quality necessary to protect the existing uses. The trend of degraded water quality among our least impaired waters means New Jersey is not meeting the



anti-degradation standards of the federal Clean Water Act. What steps, if any, is the Department taking to address this failure to meet anti-degradation standards? (RH, AL1)

**Response:** Section 3.2 of the 2014 Integrated Report states that macroinvertebrate data collected from four rounds of sampling collected by the Department’s Ambient Biological Monitoring Network (AMNET) shows “very little change [statewide] from 1989 to 2014, although there was a slight negative trend toward impaired conditions” indicated by a decrease in the number of sampling stations reporting either “excellent” or “poor” biological conditions and an increase in the number of stations reporting “fair” conditions. The reasons behind both sets of changes are not fully understood. We do know that biotic impairments are generally due to a broad suite of causes including excess nutrients, habitat alteration, sedimentation, elevated temperature, low flow, storm flow, metals and toxics. Often sites are impacted by several of these problems simultaneously; therefore, being able to improve the biological condition requires that we identify all the significant causes on a site-specific basis. As stated at the end of Section 3.4, “Further investigation is necessary to determine why an individual site’s biological assessment declined or improved, and if these changes are related to water quality or to events such as droughts and floods; however, the AMNET data show a correlation between benthic macroinvertebrate community impairment and different physiographic land types, land uses, and other anthropogenic factors.”

The macroinvertebrate communities that show impairment are identified on the 303(d) List as “Cause Unknown” if there is insufficient or no water chemistry data showing exceedances of applicable water quality criteria as the cause of the degraded biological conditions. In future Integrated Reports, the Department will identify both biological and chemical causes of impairment. The need to identify sources and causes of biological impairment has been identified as a significant data gap to be addressed in the pending update to the Department’s Long Term Monitoring and Assessment Strategy. By identifying the specific sources and causes of degradation among biotic communities, the Department can develop effective restoration strategies tailored to the biological impairment in each waterbody. The Department is actively pursuing expansion of its watershed restoration and nonpoint source pollution control efforts through Clean Water Act Section 319(h) grants as well as other funding sources to address a myriad of causes, including habitat and flow issues where stream impairments are identified on the 303(d) List, as well as watershed protection plans to maintain high quality waters and enhance water quality in unimpaired waters with declining conditions. These efforts are expected to achieve significant improvements in biological conditions over time by directly addressing the sources and causes of biological impairment.

Shellfish harvesting waters have shown steadily improving trends since the 1970s. While the 2014 Integrated Report showed an increase in the number of AUs not supporting the shellfish harvest for consumption use compared to the 2012 Integrated Report, the increase was due to a change in the shellfish use assessment method to better align with USEPA’s determination of waters covered by approved Shellfish TMDLs rather than a decline in water quality conditions since 2012 (see Section 2.2. “Shellfish Harvest for Consumption”).

48. **Comment:** The text in the Macroinvertebrate Data section on Page 37 states, “Macroinvertebrate data showed that 28% of Atlantic Coastal Region (ACR) assessment units

are not impaired .... Pinelands waters showed much healthier biological communities (60% were not impaired) than ACR waters outside the Pinelands (30%).” It appears as if one of the stated percentages is inaccurate, because if 60% of Pinelands waters are not impaired, and 30% of ACR waters outside of the Pinelands are not impaired, the total percentage of unimpaired waters in the ACR cannot be 28%. (PPA)

**Response:** The original text in the Integrated Report failed to explain that the 60% of Pineland waters and 30% of non-Pineland waters fully attaining for macroinvertebrates is based on only waters with sufficient data to make an assessment. Because 45% of the AUs did not have sufficient data for an assessment, the overall percentage of full support was 28%, 81 of 293 AUs. However, if only looking at AUs with sufficient macroinvertebrate data for an assessment, the overall percentage of full support is 50%, 81 of 161 AUs, with the Pineland waters showing 66 of 102 AUs fully supporting and non-Pineland waters showing 15 of 59 fully supporting. These new numbers change the Pineland waters to 65% fully attaining and non-Pineland waters to 25% fully attaining. This section of the final Integrated Report has been revised as follows:

Macroinvertebrate data showed that 28% of ACR AUs are not impaired/attain applicable WQS (compared to 26% statewide), 27%% were impaired (36% statewide), and 45% had insufficient information (38% statewide). However, Pinelands waters showed much healthier biological communities than ACR waters outside the Pinelands. When examining AUs with sufficient macroinvertebrate data for an assessment (161 of the 293 AUs in the ACR), Pinelands waters show 65% fully supporting (66 of 102 AUs) while non-Pineland waters are only 25% fully supporting (15 of 59 AUs). This difference correlates with the disparity in land use. Land cover within the Pinelands is mostly forested and wetlands with intact riparian buffers, while the majority of the landuse outside the Pinelands is heavily impacted by urbanization and agriculture. AUs with biological impairment but no corresponding pollutant exceedances are assessed as not supporting the aquatic life use due to “cause unknown”. The majority of new 303(d) listings for cause unknown within the ACR (87%) are located outside of the Pinelands. A significant percentage of waters within the ACR have insufficient information to assess the general aquatic life use. This is because current biological assessment methods apply only to freshwaters. The Department is currently developing a benthic macroinvertebrate index for coastal and estuary waters. Once this new index is available, the Department will be able to assess the general aquatic life use in all waters of the ACR.

DESIGNATED USE ASSESSMENT RESULTS – 2014 DRAFT  
INTEGRATED LIST OF WATERS (SUBLISTS 1-5)

49. **Comment:** The Report does not provide information on the Designated Uses which are impacted by the Sublist 4 impairments. (GSWA)

**Response:** The “Integrated List of Waters (Integrated List) – Sublists 1-5” in Appendix A identifies final designated use results for all AUs, which includes those on Sublist 4 as well as

those on Sublist 5 and its subparts (5A, 5L, 5R). However, it does not specify whether the AU is on Sublist 4 or 5 it only states “Non Support”. The addition of the table, “2014 Sublist 4 List with Subpart and TMDL ID”, to Appendix B provides additional information to explain the cause of the non supporting AUs by identifying all AUs, parameters, and designated uses on Sublist 4.

### **Sublist 5A (Naturally Occurring Arsenic)**

50. **Comment:** As the Integrated Report acknowledges, arsenic is the predominant (82%) cause of water supply use impairment. The human health criterion is 0.017 µg/L, well below levels of analytical detection, while levels of arsenic in surface waters are commonly observed in the range of 1-4 µg/L. To address this, DEP created a new Sublist 5A for waters where arsenic levels exceed standards but are consistent with naturally occurring conditions. Unfortunately, the effort falls short for various reasons: 1) Only watersheds in the Inner and Outer Coastal Plains were assessed for whether the arsenic concentration is due to natural occurrence, and 2) The range of arsenic concentrations considered natural (0.36-0.70 µg/L) is much too narrow for surface waters in New Jersey. Given the uncertainties with regard to natural occurrence of arsenic, the commenters recommend that the Department apply the drinking water MCL of 5 µg/L for arsenic as a basis for impairment designation. (MT, RVRSA, SRVSA, SBRSA)
51. **Comment:** Sublist 5A does not belong in Sublist 5 at all. The Integrated Report states: “Because arsenic criteria are human health based, EPA does not allow the SWQS provision of ‘naturally occurring’ to supersede the established criteria.” The Department should refuse to accept EPA’s policy in this regard, because it would lead NJDEP to improperly designate surface waters with naturally occurring levels of arsenic as impaired. List 5 means impairment, and exceedance of criteria due to natural occurrence is not impairment [N.J.A.C. 7:9B-1.5(c)1]. This issue matters because wastewater treatment plants could end up having end-of-pipe limits for arsenic imposed because they discharge to a receiving water that is inappropriately designated as “impaired.” (MT, RVRSA, SRVSA, SBRSA)
52. **Comment:** We understand that natural background levels of arsenic exceed the State’s human health criteria in certain waters, and this is not only an issue in NJ but also around the country. However, EPA’s national policy does not allow human health-based criteria to be modified based on natural conditions. Currently, the EPA and the NJDEP staff are exploring an alternative plan to address these impairments through the permitting process that might result in the issuance and implementation of long term variances, until EPA develops new nationally recommended human health criteria for Arsenic. (USEPA)
53. **Comment:** The commenters do not agree with the use of Sublist 5A to identify AUs where arsenic levels exceed standards but are consistent with naturally occurring conditions. NJDEP must provide a more detailed and in depth rationale behind their decision to create a new Sublist 5A and must undertake further research into the causes of arsenic impairments before it has enough information to determine if the high levels of arsenic found across New Jersey are naturally occurring or human caused. (COA, RH)

**Response to Comments 50 thru 53:** Section 303(d) of the federal Clean Water Act requires states to identify water quality-limited waters that require development of TMDLs because they are not meeting applicable surface water quality standards (SWQS) despite the implementation of technology-based effluent limits. The promulgated surface water quality standard for arsenic is 0.017 ug/L (see N.J.A.C. 7:9B-1.14(f)7). This standard was derived based on the potential risk to human health from exposure to arsenic in drinking water; however, in accordance with the federal Clean Water Act and the New Jersey Water Pollution Control Act, this standard is applied to ambient water quality – without consideration of cost or availability of treatment technology. The maximum contaminant level (MCL) for arsenic was also derived based on the potential risk to human health from exposure to arsenic in drinking water; however, in accordance with the federal and state Safe Drinking Water Acts, the final MCL is less stringent than the health-based MCL and is based on the availability of treatment technology as well as the federally promulgated MCL for arsenic. Therefore, the Department cannot assess arsenic based on compliance with the arsenic MCL and must assess arsenic based on the promulgated SWQS of 0.017 ug/L until/unless the arsenic SWQS is amended.

USEPA’s national policy does not allow human health-based criteria to be modified based on natural conditions. Currently, USEPA Region 2 is working with the Department to explore an alternative approach (other than TMDLs) to address water quality impairments caused by naturally-occurring arsenic while USEPA revises national guidance or standards for arsenic. This alternative approach would include issuance and implementation of long-term variances to the SWQS for arsenic (in accordance with amended provisions of the SWQS rules currently under development), pursuant to the recently adopted amendments to the federal WQS rules (see 40 CFR 131)<sup>3</sup>. Since USEPA has the final authority to approve, remand or disapprove state 303(d) Lists under the Section 303(d) of the federal Clean Water Act, the Department cannot simply “refuse to accept EPA’s policy”, as suggested by some of the commenters, without risking USEPA disapproval or remand of the 2014 303(d) List and the potential withholding of funds authorized under New Jersey’s Performance Partnership Agreement with USEPA Region 2. For the time being, the Department has created a new subpart of Sublist 5 for AUs that are impaired by arsenic that is naturally occurring. AUs on Sublist 5A are considered a very low priority for TMDL development and are instead intended to be addressed by an alternative approach such as the variances mentioned earlier.

54. **Comment:** The commenters request further research and documentation of 1) historical use of arsenical pesticides as a significant contributor of arsenic in surface water; 2) trends in arsenic in surface and groundwater; 3) the relationship between arsenic in groundwater and arsenic in surface water; 4) potential mechanisms causing arsenic to be mobilized from deposits in the Piedmont or Highlands; and 5) arsenic in all regions of the state. Although naturally-occurring deposits of arsenic may be contributing to arsenic impairments, a trend of increasing arsenic concentrations would not be explained by “natural causes” and suggests New Jersey is not meeting the anti-degradation standards of the federal Clean Water Act. What

---

<sup>3</sup> USEPA 40 CFR 131 EPA-HQ-OW-2010-0606; FRL-9921-21-OW available from the USEPA website at <https://www.epa.gov/wqs-tech/final-rulemaking-update-national-water-quality-standards-regulation>

steps, if any, is the DEP taking to address this failure to meet anti-degradation standards? (COA, RH)

**Response:** The Department also recognizes the impacts that arsenic has had on surface and ground water quality and has completed studies conducted under contract with the USGS to determine natural levels of arsenic in the Coastal Plain. Additionally, we hope to continue further studies in the future including the important topics suggested by the commenter. Although the Integrated Report has shown the number of impairments has increased over the years it may not be indicative of a trend but the result of improved laboratory detection at lower concentrations that exceed the criteria of 0.017 ug/l. In situations where it is known that the anti-degradation standards are being violated, the Department will take enforcement action primarily through the permitting and enforcement programs. Additionally, the Department and USEPA are collaborating to explore an alternative approach (other than TMDLs) to address water quality impairments caused by naturally-occurring arsenic (see Response to Comments 50 to 53).

55. **Comment:** Exceedance of human health criterion should not automatically result in impairment designation for freshwaters, since water supply use is defined in SWQS (7:9B-1.12(c)4) as “potable water supply after conventional filtration treatment.” Commenters believe that constituents with a significant particulate fraction, such as arsenic, would be reduced by conventional filtration treatment. (MT, RVRSA, SRVSA, SBRSA)

**Response:** Conventional treatment is defined in the Surface Water Quality Standards rules at N.J.A.C. 7:9B-1.12 (b)3 as “... a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituent(s) or disinfection.” Data analysis indicates that the dissolved fraction in total arsenic can be more prevalent than the particulate fraction although the fractions change depending upon site conditions. Hence, conventional filtration treatment capability to remove arsenic is not accepted as a means to treat for elevated arsenic levels. Additional treatment technologies such as reverse osmosis, ion exchange, and adsorptive media have proven through studies and application to be effective means to remove arsenic from the water column. See also response to Comments 50 thru 53.

56. **Comment:** The following assessment units, which are currently on Sublist 5, are designated as impaired due to arsenic, even though the commenters believe observed levels of arsenic are consistent with natural levels (i.e. Sublist 5A). Until the Department improves its methodology for assessing arsenic concentrations relative to natural levels, these assessment units should be assigned to Sublist 3 (insufficient data) with regard to arsenic so that inappropriate effluent limits are not imposed on wastewater dischargers to these waters:

- 02030105090050-01 Stony Bk (Province Line Rd to 74d46m dam)
- 02030105110030-01 Millstone R (Beden Bk to Heathcote Bk)
- 02030105110050-01 Beden Brook (below Province Line Rd)
- 02030105110110-01 Millstone R (BlackwellsMills to BedenBk)

(MT, RVRSA)

**Response:** All of the AUs above are located in the Piedmont physiographic region where natural levels of arsenic have not been determined. Until studies are conducted that conclusively establish the range of naturally-occurring concentrations of arsenic, the Department must place all of the AUs that exceeding the human health criterion for arsenic on Sublist 5. AUs located within the Inner and Outer Coastal Plain, where USGS has determined the range of naturally-occurring arsenic to be 0.36-0.70 ug/l and 0.24-0.61 ug/l, respectively, will be placed on Sublist 5A if arsenic concentrations fall within the applicable range.

### **Sublist 5L (Legacy Pollutants)**

57. **Comment:** The Department’s designations of Sublists 5L (“Legacy” impairment) and 5R (NPS impairment addressed by a Watershed Based Plan) make a great deal of sense, and prevent the Department from having to develop TMDLs that may not be the most appropriate management solution. (MT, RVRSA, SRVSA, SBRSA)

**Response:** The Department appreciates the commenters’ support.

58. **Comment:** Waters on Sublist 5L have been identified and listed due to legacy contamination where the predominant source of contamination is in-place sediment. However, data and modeling analysis conducted in areas such as the NY-NJ Harbor and Delaware Estuary indicate that ongoing sources from storm water, CSOs, and sewage treatment plants, also contribute to excursions of water quality standards, and these ongoing sources may cause recontamination once hazardous waste sites or in-place sediments are cleaned up. EPA recommends that NJDEP evaluate current data to determine sources and develop and implement alternative restoration strategies, such as pollutant minimization plans, for continuing sources such as sewage treatment plants. (USEPA)

**Response:** The Department agrees with the comment and in the 2014 Methods Document, Section 7.0 Integrated Listing Guidance, has stated the need for alternative approaches such as pollution minimization plans for reductions. The description of Sublist 5L in the Methods Document states:

Impairments that are attributed to parameters that are banned from production or use are placed on this subpart. The cause of these impairments is historical in nature; these pollutants linger in the environment long after new anthropogenic sources have ceased. Thus, the TMDL/regulatory response path envisioned under the CWA is not an effective means to address these impairments. Instead, follow-through on site remediation plans, development/implementation of pollutant minimization plans for incidental introduction into regulated discharges and natural attenuation are the main mechanisms for reduction.

### **Sublist 5R (Restoration)**

59. **Comment:** NJ’s integrated report includes a category 5R: “impaired waters identified for restoration strategies other than TMDLs.” While these waters have been identified for

restoration, a schedule for completion of strategies should also be provided. The IR states the following: “Sublist 5R is used to recognize that not all impaired waterbodies are most effectively addressed through a TMDL. For example, where impairment can be attributed primarily to nonpoint sources.” How is “primarily” determined? For example, if one or more small point sources are present in an assessment unit (AU) impaired by Total Phosphorus, how does the state determine if those point sources are not contributing to the excess of nutrients? (USEPA)

**Response:** As stated in Chapter 7.0 of the 2014 Methods Document, AU/pollutant combinations are placed on Sublist 5R only where the “Designated use is not supporting and restoration activities have been identified in an approved Watershed Based Plan to address the parameter for which water quality standards are not attained.” In an approved Watershed Based Plan (WBP), sources and loads are determined and actions to reduce loads are identified in accordance with USEPA requirements under the Section 319(h) Nonpoint Source Pollution Control Grant Program, including nine key elements critical for achieving improvements in water quality. These requirements do not include “a schedule for completion of strategies” contained in each WBP. Instead, USEPA’s new collaborative framework for implementing CWA Section 303(d) Program with States, “A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act 303(d) Program” allows states to pursue the most effective and appropriate restoration strategy for each listed pollutant cause of water quality impairment as part of its Integrated Assessment. New Jersey’s “Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act” is provided in Appendix G of the final 2014 Integrated Report and includes a schedule of anticipated completion dates for priority TMDLs, watershed restoration plans and watershed protection plans developed by the Department for the years 2016 through 2022. This schedule will be updated annually and submitted to USEPA to meet reporting requirements for Water Quality Measure No. 27 in accordance with New Jersey’s Performance Partnership Agreement with USEPA.

A WBP will not be developed for any watersheds with major dischargers, such as municipal wastewater treatment facilities, that are contributing to the pollutant load of concern. If a minor discharger(s) is located within the watershed, the load contribution will be calculated. Based on that calculation, the Department will determine if the load contribution from the discharger is insignificant or if a wasteload reductions is required from that discharger. If the Department determines that the applicable WQS can be achieved through reductions in nonpoint sources of the pollutant(s) established through the WBP, then the AU/pollutant combination will be placed on Sublist 5R. However, if a discharger’s load is significant and wasteload allocations are required to attain the SWQS, then a TMDL will be required.

60. **Comment:** DEP has placed 74 AU/pollutant combinations on Sublist 5R, which is a list that identifies AUs for water quality impairment “not effectively addressed by TMDLs, such as nonpoint source pollution that will be controlled under an approved watershed restoration plan or 319(h) Watershed Based Plan.” While EPA has envisioned the use of Sublist 5R, EPA has made clear that “current statutory and regulatory CWA 303(d) obligations (including development of TMDLs) remain unchanged, and EPA expects TMDL development to be a primary feature of the [303(d)] Program.” Thus, while alternative approaches to improving

water quality (including 319(h) funded projects, best management practices, and other strategies) may be incorporated in TMDLs, placing AU/pollutant combinations on Sublist 5R does not negate DEP's obligation to prepare and implement TMDLs and monitor their effectiveness if water quality impairments are not addressed in the short-term through a Watershed Based Plan. (RH, AL1)

**Response:** As with Sublist 5A, AU/pollutant combinations placed on Sublist 5R are still considered to require development of a TMDL; however, USEPA has agreed to a national policy that allows such TMDL development to be considered a lower priority for scheduling purposes. Such a policy was first established nationally by USEPA with the creation of Sublist 5M for mercury TMDLs back in the late 1990's. This policy allows states to direct its limited resources to implementing restoration actions that are more likely to result in restoration and attainment of WQS before any TMDL work has been initiated. This approach does not negate the Department's obligation to develop and implement TMDLs if Watershed Based Plans are not effective. However, because waters placed on Sublist 5R are impaired predominantly by nonpoint sources of pollution, the Department has opted to pursue WBPs/watershed restoration plans as the preferred path to reduce loads and attain water quality standards.

CAUSES OF USE NON-SUPPORT, 2014 DRAFT 303(D) LIST, PRIORITY RANKING OF  
TMDL DEVELOPMENT AND TWO-YEAR TMDL SCHEDULE

61. **Comment:** NJDEP's 2012 Final 303(d) list included 1770 waterbody/pollutant combinations. NJDEP's draft 2014 303(d) list includes 1945 waterbody/pollutant combinations. NJDEP Table 2.1A in the 2014 draft integrated report with appendices reports a net change in 189. However, based on the total waters for 2012 and 2014 the net change is 175. Please review and provide justification for the following differences from NJDEP Table 2.1A and the 303(d) list. See tables below. (USEPA)



Delistings (On NJ 2012 303(d) List but not on 2014)		
Cause	Actual	IR TABLE 2.1A
Arsenic	4	4
Cause Unknown	31	14
Chlordane in Fish Tissue	11	11
DDT in Fish Tissue	6	4
Dieldrin	7	7
Enterococcus	1	1
Escherichia coli	4	4
Fecal Coliform	1	1
heptachlor epoxide	2	2
lead	1	1
Mercury in Fish Tissue	10	8
Mercury in Water Column	3	3
oxygen, dissolved	9	9
PCB in Fish Tissue	24	23
pH	10	11
Phosphorus (Total)	15	15
Total Dissolved Solids	1	1
Total Suspended Solids (TSS)	3	3
Turbidity	3	3
<b>TOTAL</b>	<b>146</b>	<b>125</b>

2014 New Listings		
Parameter	Actual	IR TABLE 2.1A
Aluminum	2	2
Arsenic	32	31
benzo(a)pyrene (PAHs)	1	1
Cause Unknown	32	33
Chlordane in Fish Tissue	6	6
Copper	3	3
DDT and its metabolites in Fish Tissue	5	3
Dieldrin	1	1
Escherichia coli	27	27
Heptachlor epoxide	3	3
hexachlorobenzene	1	1
lead	2	2
Mercury in Fish Tissue	14	12
Mercury in Water Column	4	4
oxygen, dissolved	32	31
PCB in Fish Tissue	9	8
pH	44	44
Phosphorus (Total)	20	19
Temperature, water	34	34
Total Coliform	22	22
Total Dissolved Solids	1	1
Total Suspended Solids (TSS)	11	11
Turbidity	15	15
<b>TOTAL</b>	<b>321</b>	<b>314</b>

**Response:** The following changes/corrections were made to the final 303(d) List and corresponding documents including the final 2014 Integrated Report and Appendix A through D:

Assessment Unit Number	Assessment Unit Name	Parameter	Changes
02020007040020-01	Black Creek (below G. Gorge Resort trib)	Arsenic	New listing to the final 303(d) List.
02030103010040-01	Loantaka Brook	Cause Unknown	First listed in 2008. Not a delisting; returned to final 303(d) List and removed from Delisting Document.
Assessment Unit Number	Assessment Unit Name	Parameter	Changes
02030104090060-01	Shark R (below Remsen Mill gage)	Cause Unknown	DO still listed on the final 303(d) List, this is not a new listing.
02030105020060-01	Cakepoulin Creek	DDT and metabolites in Fish Tissue	Not delisted for DDT in Fish Tissue – Returned to final 303(d) List and removed from Delisting Document.
BarneгатBay04	Toms R Estuary	DDT and metabolites in Fish Tissue, Mercury in Fish Tissue, PCB in Fish Tissue	Listings carried over from 02040301080090-01 Toms R Lwr (below Rt 166). Not new listings.
02030105100090-01	Cranbury Brook (below NJ Turnpike)	Dissolved Oxygen	Not a new listing. AU association changed to 02030105100060-01 Millstone R (Cranbury Bk to Rocky Bk).
02030104090030-01	Deal Lake	pH	Not a delisting. First listed in 2008. Returned to final 2014 303(d) List

			and removed from Delisting Document.
02030105100090-01	Cranbury Brook (below NJ Turnpike)	Phosphorus (Total)	Was listed twice. Corrected on final 303(d) List.

The final 2014 303(d) List was revised for the following 16 AUs to replace “Cause Unknown” with a chemical pollutant as the cause of the aquatic life use non-support. A biological impairment still exists but, according to the Methods Document, “Cause Unknown” is only placed on the 303(d) List when there is no chemical data showing exceedance of the applicable aquatic life use criteria. We anticipate changing the assessment methods for the 2016 Integrated Report to list both chemical exceedances and biological impairment as causes of aquatic life use non-support, as applicable.

Assessment Unit Number	Assessment Unit Name	Original Parameter (2012)	New Parameter (2014)	Original Listing Station	New Listing Station
02030104060040-01	Chingarora Creek to Thorns Creek	Cause Unknown	Oxygen, Dissolved	AN0459	MCHD-36
02040301160090-01	Clark Branch (above/incl Price Branch)	Cause Unknown	Oxygen, Dissolved	AN0567	0140940480
02020007020060-01	Clove Brook (Papakating Ck)	Cause Unknown	Temperature, Water	AN0309	AN0308
02040105040010-01	Culvers Creek	Cause Unknown	Temperature, Water	AN0017	BFBM000126
02030105120040-01	Green Bk (Bound Bk to N Plainfield gage)	Cause Unknown	pH	AN0423	01403470
02040202030090-01	Greenwood Br(below CountryLk & MM confl)	Cause Unknown	pH	AN0148	01466900
02040301080070-01	Jakes Branch (Lower Toms River)	Cause Unknown	Oxygen, Dissolved	AN0543	BT05
02040301170100-01	Landing Creek (above Rt 563)	Cause Unknown	pH	AN0590	01409571
02030105130060-01	Lawrence Bk (Milltown to Church Lane)	Cause Unknown	Phosphorus (Total)	AN0434	Farrington Lake-09
02040105160010-01	Musconetcong R (Hances Bk thru Trout Bk)	Cause Unknown	Temperature, Water	AN0070	01456210
02040105150100-01	Musconetcong R (Trout Bk to SaxtonFalls)	Cause Unknown	pH	AN0068	GDU1/SDU1
02040105050050-01	Paulins Kill (below Blairstown gage)	Cause Unknown	Temperature, Water	AN0032A	DRBCNJ0036
02040105040090-01	Paulins Kill (Stillwater Vil to PK Lake)	Cause Unknown	Temperature, Water	AN0022	01443500
02030103030030-01	Rockaway R (above Longwood Lake outlet)	Cause Unknown	pH	AN0240	Sun Air Campground
02030103140040-01	Saddle River (above Ridgewood gage)	Cause Unknown	pH	AN0281	01390500
02020007030010-01	Wallkill R(41d13m30s to Martins Road)	Cause Unknown	Total Suspended Solids (TSS)	AN0302	01367770

62. **Comment:** The Department should create another sublist for impairment due to pathogen indicators, which are better managed through track-down studies than TMDLs. (MT, RVRSA, SRVSA, SBRSA)

**Response:** The Department continues to conduct track down studies to determine the sources of pathogen contamination. However, since the studies only identify potential sources and do not have any requirement or regulatory ability to impose reductions, these impairments will still require TMDLs or other regulatory or enforcement action, and will remain on the 303(d) List rather than a subpart of Sublist 5 until water quality standards are met.

63. **Comment:** Waterbody/pollutant combinations identified in Sublist 4 should be designated as either 4A, 4B or 4C. (USEPA)

**Response:** The Sublist 4 table has been updated to include a designation for 4A, 4B or 4C. At this time, all of the listings on Sublist 4 are in 4A.

### **Raritan**

64. **Comment:** The two assessment units of the Raritan River downstream of the Millstone River confluence (02030105120140-01 and 02030105120160-01) were both designated as impaired for water supply due to benzene. Assessment for both units was based on data from the Raritan River at Queens Bridge (01403300). The former American Cyanamid Superfund site is located along the banks of the Raritan River a short distance upstream of the Queens Bridge sampling location. Lagoons on the site contain a number of VOCs, including extremely high concentrations of benzene. Benzene concentrations of 20 ppm (20,000 µg/L) have been measured in the Raritan River at the immediate point of seepage discharge. While remediation efforts have been instituted, SRVSA notes that the source has not been removed. Given the location and characteristics of this Superfund site, why would NJDEP designate the source of benzene contamination as “Source Unknown?” In addition, why is this designated as a low priority for NJDEP? (SRVSA)

**Response:** Appendix B: Sources of Parameters Causing Use Impairment (Sublists 4 and 5) has been corrected to show Cercla NPL (Superfund) Sites as the source of benzene exceedances in 02030105120140-01 Raritan R Lwr (I-287 Piscatway-Millstone) and 02030105120160-01 Raritan R Lwr (MileRun to I-287 Pisctwy). While we agree that the environmental clean-up of the site is a high priority, it is not a high priority for development of a TMDL since the contamination is already being addressed through the site remediation process.

65. **Comment:** The commenter notes that Cranbury Brook (below NJ Turnpike) (02030105100090-01) is incorrectly listed as located in WMA 8, when it is actually in WMA10. This error is located in “Appendix B: 2014 Draft 303(d) List of Water Quality Limited Waters with Sublist 5 Subpart and Priority Ranking for TMDL Development,” “Appendix B: 2014 Two-Year TMDL Schedule,” and “Appendix B: Sources of Parameters Causing Use Impairment (Sublists 4 and 5).” (RH)

**Response:** The commenter is correct and all three tables have been revised to show that the 02030105100090-01 Cranbury Brook (below NJ Turnpike) is located within WMA 10.

66. **Comment:** Appendix B: Sources of Parameters Causing Use Impairment identifies Industrial Point Source Discharge as a source for phosphorus in Passaic River Upper (above Osborn Mills). The commenter is unaware of any such point source discharges within this AU, and did not see any potential phosphorus point source dischargers on NJ GeoWeb, using a query for NJPDES discharge points – surface water. (GSWA)

**Response:** We agree with the commenter and the table has been corrected to show “Urban Runoff/Storm Sewers” as the source of total phosphorus exceedances in 02030103010010-01 Passaic R Upr (above Osborn Mills).

67. **Comment:** The majority of the assessment units provided in the 2-year schedule are included in the non-tidal Raritan River TMDLs which have already been submitted to EPA for review. Additional waters should be included beyond those already identified on the schedule. Also, the assessment unit Cranbury Brook (below NJ Turnpike) (NJ02030105110050) is included, presumably because it is included as part of the non-tidal Raritan River TMDLs. However, it is not covered under NJDEP’s non-tidal Raritan River TMDL submittal and should not be included on this list; it should remain in category 5 and given a new priority for TMDL development. (USEPA)

**Response:** Dissolved oxygen for AU, 02030105100090-01 Cranbury Brook (below NJ Turnpike), was added to the draft 2014 303(d) List in error. Based on information from the USEPA-approved Raritan TMDL, wastewater discharged from the Princeton Meadows STP is impacting the downstream AU, 02030105100060-01 Millstone R (Cranbury Bk to Rock Bk), which was added to the final 2014 303(d) List for Dissolved Oxygen (DO). DO in 02030105100090-01 Cranbury Brook (below NJ Turnpike) was removed from the final 2014 303(d) List (Appendix B).

68. **Comment:** Assessment Units 02030105110030-01, 02030105110110-01, 02030105110140-01 and 02030105110170-01 of the lower Millstone River, which extend from Carnegie Lake to the Raritan River, are designated in the Draft 2014 303(d) List as impaired by phosphorus. The Phase II Raritan River Basin Nutrient TMDL Study (Kleinfelder/Omni, 2013) shows the diurnal monitoring performed in the lower Millstone River. This report was approved by NJDEP and forms the technical basis for the Raritan River Basin TMDL. The Department concurred with the conclusions of both the phosphorus evaluation study and the TMDL study that the instream phosphorus criterion of 0.1 mg/L does not apply to the lower Millstone River because the narrative nutrient criteria are satisfied. (MT, RVRSA)

69. **Comment:** The lower Millstone River from Beden Brook to Heathcote Brook (02030105110030-01) is designated as impaired by pH, dissolved oxygen, and temperature. The diurnal data (Millstone/Raritan Phosphorus Evaluation Study, 2004, pages B1 to B-4) clearly demonstrate that this segment is not impaired by pH. The levels of pH are closer to 6.5 than 8.5 s.u. and this appears to be a natural condition. Appendix Q of the Raritan TMDL Technical Report recommends that NJDEP delist this segment for pH based on data at

site M4. (MT, RVRSA)

70. **Comment:** The lower Millstone River from Beden Brook to Heathcote Brook (02030105110030-01) is designated as impaired by pH, dissolved oxygen, and temperature. Appendix B of the Integrated Report identifies “Municipal Point Source Discharges” as a source of impairment for DO, pH and temperature. The commenters disagree with this source, and assert that this segment of the lower Millstone River is naturally low in DO due to the deep sediment muck that accumulates due to the flatness of the channel and that imposes a significant oxygen demand. Furthermore, productivity is very low, making it impossible for the low DO to be the result of nutrient impacts. Montgomery Township Stage II treatment plant data show that the plant supplies oxygen well in excess of the minimum DO criterion of 4.0 mg/L, and also pH and temperature that meet criteria at end of pipe, and is therefore not a source of DO, pH or temperature impairments in the lower Millstone River. (MT, RVRSA)

**Response to Comments 68 thru 70:** The Raritan River TMDL (formally referred to as “Total Maximum Daily Load for the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments for Watershed Management Areas 8, 9 and 10”) approved by USEPA and adopted by the Department did not address TP in AUs 02030105110030-01, 02030105110110-01, 02030105110140-01 and 02030105110170-01. Table 2 of the adopted TMDL shows these AU/pollutant combinations as “deferred” (see the Department’s TMDL website at [http://www.nj.gov/dep/wms/bears/docs/raritan\\_tmdl\\_adopted.pdf](http://www.nj.gov/dep/wms/bears/docs/raritan_tmdl_adopted.pdf)); therefore, TP in these AUs will remain on the 303(d) List until additional TMDL work is completed that indicates otherwise. Similarly, the adopted TMDL did not make a determination regarding whether pH, DO or temperature in these AUs are naturally-occurring. The Department will be developing a more thorough analysis and report addressing these parameters in the Lower Millstone River and the downstream Raritan River in a future TMDL.

As stated in response to Comment #27, the Department’s water quality assessment process attempts to distinguish between natural and anthropogenic causes of impairment; however, sufficient information on causes and sources of impairment is not always available for a given assessment cycle and may require additional data collection and analysis in future cycles. Both natural and anthropogenic sources (e.g. sedimentation from TSS runoff), along with other causes, may be the cause of low DO in the Lower Millstone River, however, sufficient information was not available to make such determinations on the 2014 303(d) List.

### **TMDL Priority and Two-Year TMDL Schedule**

71. **Comment:** Appendix B: Sources of Parameters Causing Use Impairments (Sublists 4 & 5) notes that the Great Swamp Branch (WMA 14) is impaired for dissolved oxygen, temperature, pH, nitrate, arsenic and E. Coli. The Pinelands Commission states, “Great Swamp Branch was clearly the most degraded stream sampled during the 3-year period..... Median calcium, magnesium, sulfate, and nitrite plus nitrate concentrations were the highest reported for the Mullica River Basin.” Given that the Great Swamp Branch is located within the Pinelands and the Pinelands National Reserve was recognized as an area of National significance by the U.S. Department of Interior, it would seem appropriate that these impacted streams be placed on the

2014 Two-Year TMDL Schedule (Appendix B). (PPA)

**Response:** A TMDL may not be the best tool to address these types of sources/pollutants in the Great Swamp Branch. As described in Appendix G, “New Jersey’s Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program”, the Department recognizes watershed restoration plans (WRPs) as alternative tools for water quality restoration when the predominant source of impairment is nonpoint source pollution/stormwater. As explained in response to Comments #59 and 60, while the Department is still required to place such AU/pollutant combinations on the 303(d) List as needing a TMDL, we consider them a low priority for TMDL development since the causes of impairment are better addressed by a WRP. The Department believes that the Great Swamp Branch would be an ideal candidate for development of a WRP, which would identify projects to address the impairments caused by NPS and stormwater runoff in the entire watershed. The Department encourages the Pinelands Commission or other appropriate entity to seek funding for WRP development under the next nonpoint source restoration grants funding cycle or through other funds that become available for watershed restoration and/or NPS pollution control. (Additional information on WRP funding is provided on the Department’s Nonpoint Source Management Grant Program website at [http://www.state.nj.us/dep/wms/bears/319\\_grant\\_program.htm](http://www.state.nj.us/dep/wms/bears/319_grant_program.htm).)

72. **Comment:** For several listing cycles, NJDEP identified a large number of high priority waters on its two-year schedule for TMDL development. The commenters strongly encourage NJDEP to complete these TMDLs and submit them to USEPA before the next listing cycle. (USEPA, COA, AL1)

**Response:** In prior Integrated Reports, the Two-Year Schedule for TMDL Development included all AU/pollutant combinations on the 303(d) List that were considered to be a high priority for TMDL development based on a variety of factors articulated in the corresponding Methods Document. Despite their high priority rank, few of these TMDLs were completed within the expected timeframe due to the complexity of the water quality issues, the vast amount of data and modeling required to develop effective TMDLs, and the limited amount of staff and financial resources available. For instance, the Passaic and Raritan TMDLs each required a comprehensive, regional, multi-parameter water quality study state-of-the art modeling that was highly complex and involved an extensive peer review and stakeholder process. USEPA participated in this process and was advised of our progress as we moved towards completion of these TMDLs, which now address nutrient impairment in a large portion of New Jersey’s waters.

USEPA has since advised the Department that the Two-Year TMDL Schedule should include only those TMDLs that can actually be completed prior to the next listing cycle. To that end, the Two-Year Schedule for TMDL Development in the 2014 Integrated Report includes only those impairments for which TMDLs are already under development and are expected to be completed before the 2016 Integrated Report is approved by USEPA. Future Two-Year TMDL Schedules may also include fewer TMDLs as alternatives restoration measures are explored in accordance with USEPA’s new “Long-Term Vision for Assessment, Restoration and Protection under the Clean Water Act Section 303(d) Program” (see response to Comment #1).

73. **Comment:** Thus far, NJDEP has identified priority waters in the Raritan and Barnegat Bay watersheds for TMDLs and protection plans, areas in which the majority of planning work has already been completed. In addition, the category 5R of the list identifies 72 assessment unit/pollutant combinations where Section 319 watershed plans have already been completed. We therefore ask that NJDEP submit additional priorities for TMDL development or alternative control restoration strategies and engage the public in identifying these priorities. Specifically, we strongly suggest that NJDEP list the New York-New Jersey Harbor as a priority. Areas of the Harbor are impaired with respect to nutrient, pathogen and toxic pollutants. As you know, EPA, with the support of New York and New Jersey, have invested a significant amount of resources in developing preliminary TMDL analyses for reducing these contaminants and there is significant stakeholder interest in moving forward with actions to address water pollution in the Harbor. We are committed to working with New York and New Jersey to develop a bi-state strategy to restore water quality in the New York-New Jersey Harbor and expect that NJDEP shares this important goal. (USEPA)

**Response:** As explained in response to comment #72, the 2014 Two-Year TMDL Schedule was developed in response to USEPA's directive to only include TMDLs on this schedule that can reasonably be expected to be completed prior to the 2016 listing cycle. Therefore, this schedule includes only those impairments for which TMDLs are already under development and are expected to be completed before the 2016 Integrated Report is approved by USEPA. The Department's prioritization of the Atlantic Coastal Water Region for the 2014 Integrated Report was based on the Department's shift to the comprehensive regional assessment approach introduced in the 2014 cycle, in part to take advantage of the significant efforts dedicated to the Barnegat Bay under Governor Christie's Action Plan and the large amount of data generated by the intensive monitoring conducted by the Department and the Barnegat Bay Partnership. The Department's prioritization of the Raritan Water Region for the 2016 Integrated Report was similarly based on the efforts already underway and the data generated for development of the Raritan TMDL.

USEPA's new "vision" for the 303(d) process affords states the flexibility needed to align existing programs and work within their current regulatory framework and to achieve water quality objectives with an emphasis on results achieved through both restoration and protection efforts. Accordingly, the Department will continue to work with all of our partners, including USEPA, to identify and prioritize water quality restoration efforts based on the needs and issues specific to New Jersey (see response to Comment #1).

While the regulatory authority to propose and adopt a TMDL for the New Jersey waters of the NY/NJ Harbor Estuary remains with the Department, the Department does not have primary responsibility for TMDL development in interstate waters. The Department is not the lead agency for the NY/NJ Harbor Estuary Program (HEP), which was reassigned by USEPA to the Hudson River Foundation, and cannot proceed with TMDL development independent of the HEP's technical workgroup, which has only recently reconvened. In the meantime, the Department is actively implementing other water quality restoration measures in the New Jersey waters of the NY/NJ Harbor Estuary through issuance of NJPDES permits and funding of green infrastructure restoration projects that address stormwater and CSOs that discharge to

the Harbor. The Department is committed to working with USEPA, New York City and State, the Hudson River Foundation and other partners to pursue a bi-state strategy to addressing impairment of the NY/NJ Harbor Estuary; however, New Jersey cannot commit to a timeline for TMDL development in the Harbor for a process that requires consensus among all major partners. More information about the programs and actions being implemented collectively through HEP can be found on its website at <http://www.harborestuary.org>.

74. **Comment:** Are there time limits that AUs can be on Sublist 4? How is Sublist 4 prioritized with respect to the 303d list for additional action? (BBP)

**Response:** All waters on Sublist 4 of the final 2014 Integrated List are on Sublist 4A, which means that they are covered by a USEPA-approved TMDL. These waters will remain on Sublist 4A until data is available showing that applicable SWQS are attained and fully supporting the applicable designated use(s). There is no time limit on how long a waterbody may remain on Sublist 4A. There is no prioritization process for waters on Sublist 4A since TMDLs are already being implemented through the permitting of point source dischargers that should result in water quality restoration as described in the TMDL implementation plan. Additionally, the implementation of TMDLs remain a priority for nonpoint source restoration grant approvals to address nonpoint pollutants as identified in the request for proposals found on the Department’s website, [http://www.state.nj.us/dep/wms/bears/319\\_grant\\_program.htm](http://www.state.nj.us/dep/wms/bears/319_grant_program.htm).

**Source(s) of Parameter(s) Causing Use Impairment (Sublists 4 and 5)**

75. **Comment:** Appendix B: Sources of Parameters Causing Use Impairment (Sublists 4 and 5) shows the Metedeconk River being listed 8 times for Arsenic. What is the reason that upstream areas have sources from Agricultural, Urban Runoff/Storm Sewers, and Industrial Point Source Discharge while areas downstream of these are listed as Natural Sources (Please see the following table with AUs going from the headwaters to Beaverdam/confluence)? Is it possible that all areas could be Natural? Is there numerical data supporting the Industrial Discharge for AU 02040301020010-01? Is there definite numerical data that supports Agriculture and Urban Runoff/Storm Sewers as the source for AUs 02040301030010-01, 02040301030030-01 and 02040301020050-01? Are these assumptions based on land-use maps without appropriate data? (BTMUA)

Assessment Unit Number	Assessment Unit Name	Source	Appendix B Page	Appendix B Page Row
02040301030010-01	Metedeconk R SB 74d19m15s to I-195 exit 21 rd	Agriculture and Urban Runoff/Storm Sewers	72 of 163	9
02040301030020-01	Metedeconk R SB 74d19m15s to I-195 X21	Natural Sources	72 of 163	5
02040301030030-01	Metedeconk R SB Bennetts Pond to 74d19m15s	Urban Runoff/Storm Sewers and Agriculture	72 of 163	10
02040301030040-01	Metedeconk R SB Rt 9 to Bennetts Pond	Natural Sources	73 of 163	6



02040301030050-01	Metedeconk R SB Confluence to Rt 9	Natural Sources	73 of 163	2
02040301020010-01	Metedeconk R NB above I-195	Industrial Point Source Discharge	71 of 163	7
02040301020050-01	Metedeconk R NB confluence to Rt 9	Urban Runoff/Storm Sewers	72 of 163	2
02040301040020-01	Metedeconk R Beaverdam to confl	Natural Sources	70 of 163	17

**Response:** All of the sources in Appendix B: Sources of Parameters Causing Use Impairment table are preliminary and based on GIS coverages such as land use, dischargers, and remediation sites. A more detailed analysis of sources will be conducted when a TMDL or Watershed Restoration Plan is developed. Several of the AUs were found to have arsenic concentrations below natural levels, while the other AUs had concentrations above natural levels and possible sources have been included in addition to natural sources. The table has been corrected to show the following sources.

Assessment Unit Number	Assessment Unit Name	Parameter	Source	Page Number
02040301030010-01	Metedeconk R SB (above I-195 exit 21 rd)	Arsenic	Natural Sources, Agriculture and Urban Runoff/Storm Sewers	52
02040301030020-01	Metedeconk R SB (74d19m15s to I-195 X21)	Arsenic	Natural Sources	52
02040301030030-01	Metedeconk R SB (Bennetts Pond to 74d19m15s )	Arsenic	Natural Sources, Urban Runoff/Storm Sewers and Agriculture	52
02040301030040-01	Metedeconk R SB (Rt 9 to Bennetts Pond)	Arsenic	Natural Sources	53
02040301030050-01	Metedeconk R SB (Confluence to Rt 9)	Arsenic	Natural Sources	53
02040301020010-01	Metedeconk R NB (above I-195)	Arsenic	Natural Sources, Industrial Point Source Discharge	52
02040301020050-01	Metedeconk R NB (confluence to Rt 9)	Arsenic	Natural Sources, Urban Runoff/Storm Sewers	52
02040301040020-01	Metedeconk R (Beaverdam to confl)	Arsenic	Natural Sources	51

CAUSES REMOVED FROM SUBLISTS 4 OR 5

**Causes Removed from Sublist 4**

76. **Comment:** Assessment unit/pollutant combinations on Sublist 4A were placed into this category because those impairments were addressed by a TMDL. During the TMDL process, the impairment status of these waterbody/pollutant combinations was confirmed through water quality modeling and/or monitoring data. At the time of TMDL development there was sufficient information not only to confirm the impairment status of these waters, but to determine the waterbody's assimilative capacity and loading calculations to meet water quality standards. NJDEP is now claiming that, in light of a new assessment method, there is

insufficient information to determine the attainment status of many of these waters. Because there is an applicable TMDL in place, removing these waters from Category 4A will be confusing to the public and the permitting authority. To ensure that these TMDLs continue to be implemented, these waters should remain on Sublist 4A and NJDEP should continue to monitor these waters based on the new method until sufficient data indicates attainment status of these waters. If a water was placed on the 303(d) list, a TMDL was developed, and subsequent information indicate that the water was then (at the time it was placed on the list), and is now, attaining water quality standards, the TMDL should be withdrawn and the water should be placed onto Sublist 1. (USEPA)

**Response:** Thirty-seven of the AUs proposed for delisting from Sublist 4A for fecal coliform are administrative corrections. In the early 2000’s, when TMDLs were developed to address fecal coliform on the 303(d) List, the Department’s practice was to place all AUs upstream of an impaired AU on Sublist 4A although some AUs had no fecal coliform data and were not covered by the downstream fecal coliform TMDL. This practice has since been refined to list only AUs with sufficient data to confirm impairment and to only place such AUs on Sublist 4A when they are explicitly covered by a USEPA-approved TMDL. Since there is insufficient or no data to confirm fecal coliform impairment in these AUs and they are not covered by a TMDL, these AU/pollutant combinations were removed from Sublist 4A and moved to Sublist 3. These AUs have also been prioritized for future sampling to generate sufficient data to determine recreational use attainment. Any AUs that are covered by a USEPA-approved TMDL remain on Sublist 4A. See table below for AUs removed from Sublist 4A based on insufficient data.

<b>WMA</b>	<b>Assessment Unit Number</b>	<b>Assessment Unit Name</b>	<b>Parameter</b>
07	02030104050030-01	Baltusrol trib (above Springfield Sta)	Fecal Coliform
02	02020007010060-01	Beaver Run	Fecal Coliform
17	02040206140020-01	Burnt Mill Branch / Hudson Branch	Fecal Coliform
08	02030105050060-01	Cold Brook	Fecal Coliform
17	02040206060010-01	Cool Run	Fecal Coliform
03	02030103100060-01	Crystal Lake/Pond Brook	Fecal Coliform
09	02030105120070-01	Cuckels Brook	Fecal Coliform
06	02030103010080-01	Dead River (above Harrisons Brook)	Fecal Coliform
01	02040105090050-01	Furnace Brook	Fecal Coliform
06	02030103030050-01	Green Pond Brook (above Burnt Meadow Bk)	Fecal Coliform
06	02030103010090-01	Harrisons Brook	Fecal Coliform
06	02030103030100-01	Hibernia Brook	Fecal Coliform
15	02040302040070-01	Hospitality Br (below Piney Hollow Rd)	Fecal Coliform
01	02040105040040-01	Lafayette Swamp tribs	Fecal Coliform
01	02040105040030-01	Lake Kemah tribs	Fecal Coliform

03	02030103100020-01	Masonicus Brook	Fecal Coliform
01	02040105150090-01	Mine Brook (Morris Co)	Fecal Coliform
01	02040105090040-01	Mountain Lake Brook	Fecal Coliform
07	02030104050050-01	Nomahegan Brook	Fecal Coliform
17	02040206140070-01	Parvin Branch / Tarkiln Branch	Fecal Coliform
04	02030103120090-01	Passaic R Lwr (Saddle R to Dundee Dam)	Fecal Coliform
18	02040202100030-01	Pennsauken Ck NB (below Strawbridge Lk)	Fecal Coliform
11	02040105240040-01	Pond Run	Fecal Coliform
02	02020007030020-01	Quarryville Brook	Fecal Coliform
18	02040202150020-01	Raccoon Ck (Rt 45 to/incl Clems Run)	Fecal Coliform
18	02040202150030-01	Raccoon Ck SB	Fecal Coliform
19	02040202040040-01	Rancocas Ck NB (Smithville to Rt 206)	Fecal Coliform
10	02030105100050-01	Rocky Brook (below Monmouth Co line)	Fecal Coliform
06	02030103030010-01	Russia Brook (above Milton)	Fecal Coliform
06	02030103030020-01	Russia Brook (below Milton)	Fecal Coliform
17	02040206030060-01	Salem R (39-40-14 dam-CoursesLndg)/Canal	Fecal Coliform
08	02030105030020-01	Second Neshanic River	Fecal Coliform
01	02040105040050-01	Sparta Junction tribs	Fecal Coliform
10	02030105090090-01	Stony Bk- Princeton drainage	Fecal Coliform
01	02040105030010-01	Swartswood trib(41-06-06 thru Lk Owassa)	Fecal Coliform
01	02040105030030-01	Trout Brook	Fecal Coliform
01	02040105050040-01	Yards Creek	Fecal Coliform

**Causes Removed from Sublist 5/2014 Draft Delisted Waters**

77. **Comment:** Did the NJDEP delist or not list any waterbody/pollutant combinations and place these waterbody/pollutant combinations into category 4B or 4C? If so, please provide the waterbody/pollutant combination and the delisting justification. (USEPA)

**Response:** No waterbody/pollutant combinations were delisted from the 303(d) List and placed in category 4B or 4C. Sublist 4 only has sublist category 4A.

78. **Comment:** Did the NJDEP delist any waters because the applicable narrative nutrient criteria was met? (USEPA)

**Response:** No waterbodies/parameters were delisted because the applicable narrative nutrient criteria was met. The narrative nutrient criteria were not applied to any waters since translators have not been developed to interpret the data.

79. **Comment:** Did the NJDEP de-list any waters because the natural condition was met even though the water exceeded the applicable numeric water quality criteria? (USEPA)

**Response:** No waterbodies/parameters were delisted because natural conditions were met and the applicable numeric criteria was exceeded. However, a number of waterbodies were not placed on the 303(d) List for pH due to natural conditions although the criteria was exceeded. These situations are described in Appendix D: Justification for pH Not Listed Due to Natural Conditions.

80. **Comment:** The Integrated Report states the following: “Delisted based on administrative correction or assessment methods change.” (Page 28, Footnote #5) These two potential reasons for the delisting should be separated out, so the reader knows which parameters are being delisted due to changes in the assessment methodology vs ones being delisted due to the administrative correction. Table 7.2 in the “Methodology” lists the delisting codes and associated reasons for delisting. For consistency reasons, this table could also be incorporated into the IR document and the same numbers could be used for different scenario. (USEPA)

81. **Comment:** Over 125 AU/pollutant combinations were delisted from the 2014 303(d) List. Fifty-nine of the delistings were due to administrative correction or assessment methods changes; fifty-six of the delistings were because of attainment of applicable water quality standards; and eleven of the delistings were due to the approval of a TMDL. DEP should clarify what it means by “administrative correction or assessment methods changes” and should specify in each case what exactly is the correction or assessment methods change that prompted each delisting. Additionally, where DEP provides that AU/pollutant combinations were delisted because the “original basis for listing was incorrect,” DEP should explain what this means and how the original basis was incorrect. (AL1)

**Response for 80 and 81:** This comment refers to Table 2.1.A “2014 Sublist 5/303(d) New Listings and Delistings” (see page 30 in the final 2014 Integrated Report), which provides a numeric breakdown of new listings and delistings for the 2014 cycle. Detailed descriptions for the delistings are provided in Appendix C: 2014 Final Causes Removed from Sublist 5/303(d) List (Delisted Waters).

82. **Comment:** Please provide delisting justifications for the following waterbody/pollutant combinations that are removed from the 2014 list and justifications were not provided in Appendix C of the Integrated Report. (USEPA)

Waterbody/Pollutant combinations removed from 2012 list but not included in Appendix C		
AU ID	AU Name	Cause
2030104060040	Chingarora Creek to Thorns Creek	Cause Unknown
2040301160090	Clark Branch (above/incl Price Branch)	Cause Unknown
2020007020060	Clove Brook (Papakating Ck)	Cause Unknown
2040105040010	Culvers Creek	Cause Unknown
2030105120040	Green Bk (Bound Bk to N Plainfield gage)	Cause Unknown
2040202030090	Greenwood Br (below CountryLk & MM confl)	Cause Unknown
2040301080070	Jakes Branch (Lower Toms River)	Cause Unknown
2040301170100	Landing Creek (above Rt 563)	Cause Unknown
2030105130060	Lawrence Bk (Milltown to Church Lane)	Cause Unknown
2030103010040	Loantaka Brook	Cause Unknown
2040105160010	Musconetcong R (Hances Bk thru Trout Bk)	Cause Unknown
2040105150100	Musconetcong R (Trout Bk to SaxtonFalls)	Cause Unknown
2040105050050	Paulins Kill (below Blairstown gage)	Cause Unknown
2040105040090	Paulins Kill (Stillwater Vil to PK Lake)	Cause Unknown
2030103030030	Rockaway R (above Longwood Lake outlet)	Cause Unknown
2030103140040	Saddle River (above Ridgewood gage)	Cause Unknown
2020007030010	Wallkill R (41d13m30s to Martins Road)	Cause Unknown
Delaware 18	Delaware River 5A	DDT in Fish Tissue
2040301080060	Toms River Lwr (below Rt 166)	DDT in Fish Tissue
Delaware 18	Delaware River 5A	Mercury in Fish Tissue
2040301080090	Toms River Lwr (below Rt 166)	Mercury in Fish Tissue
2040301080090	Toms River Lwr (below Rt 166)	PCB in Fish Tissue

**Response:** As shown below, most of the changes to the 303(d) List cited in the comment were actually replacements of “Cause Unknown” with a chemical pollutant as the cause of the aquatic life use non-support. A biological impairment still exists but, according to the Methods Document, “Cause Unknown” is only placed on the 303(d) List when there is no chemical data showing exceedance of the applicable aquatic life use criteria. Since these were not actual “delistings”, they were not included in Appendix C. We anticipate changing the assessment methods for the 2016 Integrated Report to include both chemical exceedances and biological impairment as causes of aquatic life use non-support, as applicable.

Assessment Unit Number	Assessment Unit Name	Original Parameter (2012)	New Parameter (2014)	Original Listing Station	New Listing Station
02030104060040-01	Chingarora Creek to Thorns Creek	Cause Unknown	Oxygen, Dissolved	AN0459	MCHD-36
02040301160090-01	Clark Branch (above/incl Price Branch)	Cause Unknown	Oxygen, Dissolved	AN0567	0140940480
02020007020060-01	Clove Brook (Papakating Ck)	Cause Unknown	Temperature, Water	AN0309	AN0308
02040105040010-01	Culvers Creek	Cause Unknown	Temperature, Water	AN0017	BFBM000126
02030105120040-01	Green Bk (Bound Bk to N Plainfield gage)	Cause Unknown	pH	AN0423	01403470

02040202030090-01	Greenwood Br(below CountryLk & MM confl)	Cause Unknown	pH	AN0148	01466900
02040301080070-01	Jakes Branch (Lower Toms River)	Cause Unknown	Oxygen, Dissolved	AN0543	BT05
02040301170100-01	Landing Creek (above Rt 563)	Cause Unknown	pH	AN0590	01409571
02030105130060-01	Lawrence Bk (Milltown to Church Lane)	Cause Unknown	Phosphorus (Total)	AN0434	Farrington Lake-09
02040105160010-01	Musconetcong R (Hances Bk thru Trout Bk)	Cause Unknown	Temperature, Water	AN0070	01456210
02040105150100-01	Musconetcong R (Trout Bk to SaxtonFalls)	Cause Unknown	pH	AN0068	GDU1/SDU1
02040105050050-01	Paulins Kill (below Blairstown gage)	Cause Unknown	Temperature, Water	AN0032A	DRBCNJ0036
02040105040090-01	Paulins Kill (Stillwater Vil to PK Lake)	Cause Unknown	Temperature, Water	AN0022	01443500
02030103030030-01	Rockaway R (above Longwood Lake outlet)	Cause Unknown	pH	AN0240	Sun Air Campground
02030103140040-01	Saddle River (above Ridgewood gage)	Cause Unknown	pH	AN0281	01390500
02020007030010-01	Wallkill R(41d13m30s to Martins Road)	Cause Unknown	Total Suspended Solids (TSS)	AN0302	01367770

The only exception to the “cause unknown” delistings was Loantaka Brook that was not a delisting and was returned to the 303(d) List.

Assessment Unit Number	Assessment Unit Name	Original Parameter (2012)	Justification
02030103010040-01	Loantaka Brook	Cause Unknown	Not a delisting, added to 303(d) List

The final five questionable delisting are addressed in the table below:

Assessment Unit Number	Assessment Unit Name	Original Parameter (2012)	Justification
Delaware River 5A	Delaware River 5A	DDT and its metabolites in Fish Tissue, Mercury in Fish Tissue	These AU/pollutant combinations were not included in Appendix C because these pollutants were not delisted; however, the boundaries of the Delaware River AUs were changed in 2014 and these listings are now associated with new AU Delaware River Zone 5.
02040301080090-01	Toms River Lwr (below Rt 166)	DDT in Fish Tissue, Mercury in Fish Tissue, PCB in Fish Tissue	These AU/pollutant combinations were not included in Appendix C because these pollutants were not delisted; however, the boundaries of the Barnegat Bay AUs were changed in 2014 and these listings are now

			associated with new AU BarnegatBay04 Toms R Estuary.
--	--	--	---

83. **Comment:** Cakepoulin Creek (NJ02030105020060-01) - DDT and metabolites in Fish Tissue” is being proposed for delisting into category 4B (other pollution control requirements) with the only explanation being, “remediation at contaminated site.” Until the NJDEP provides sufficient justification and a demonstration that supports the NJDEPs conclusion that there are “other pollution control requirements” sufficiently stringent to achieve applicable water quality standards within a reasonable period of time, this waterbody/pollutant combination must remain on NJ’s 303(d) list. Specifically, the rationale must include at a minimum: a statement of the problem causing the impairment, a description of the proposed implementation strategy and supporting pollution controls necessary to achieve water quality standards, including the identification of point and nonpoint source loadings that when implemented assure the attainment of all applicable water quality standards, an estimate or projection of time when water quality standards will be met, a reasonable schedule for implementing the necessary pollution controls, a description of, and schedule for, monitoring milestones for tracking and reporting progress to EPA on the implementation of the pollution controls, and a commitment to revise as necessary the implementation strategy and corresponding pollution controls if progress towards meeting water quality standards is not being shown. (USEPA)

**Response:** This delisting was in error. DDT and metabolites in fish tissue in Cakepoulin Creek (02030105020060-01) was returned to the final 2014 303(d) List.

84. **Comment:** “Cox Hall Creek/Mickels Run (to Villas) (NJ02040206230060-01)- Enterococcus” is being proposed for delisting and the reason is “Applicable WQS attained; reason for recovery unspecified” with the explanation of, “No longer a monitored beach...” If there is no new data within the assessment unit to assess and the NJDEP decides to use adjacent monitoring stations to assess an unmonitored assessment unit, then this waterbody should be placed into the insufficient information category until the NJDEP can monitor this assessment unit. (USEPA)

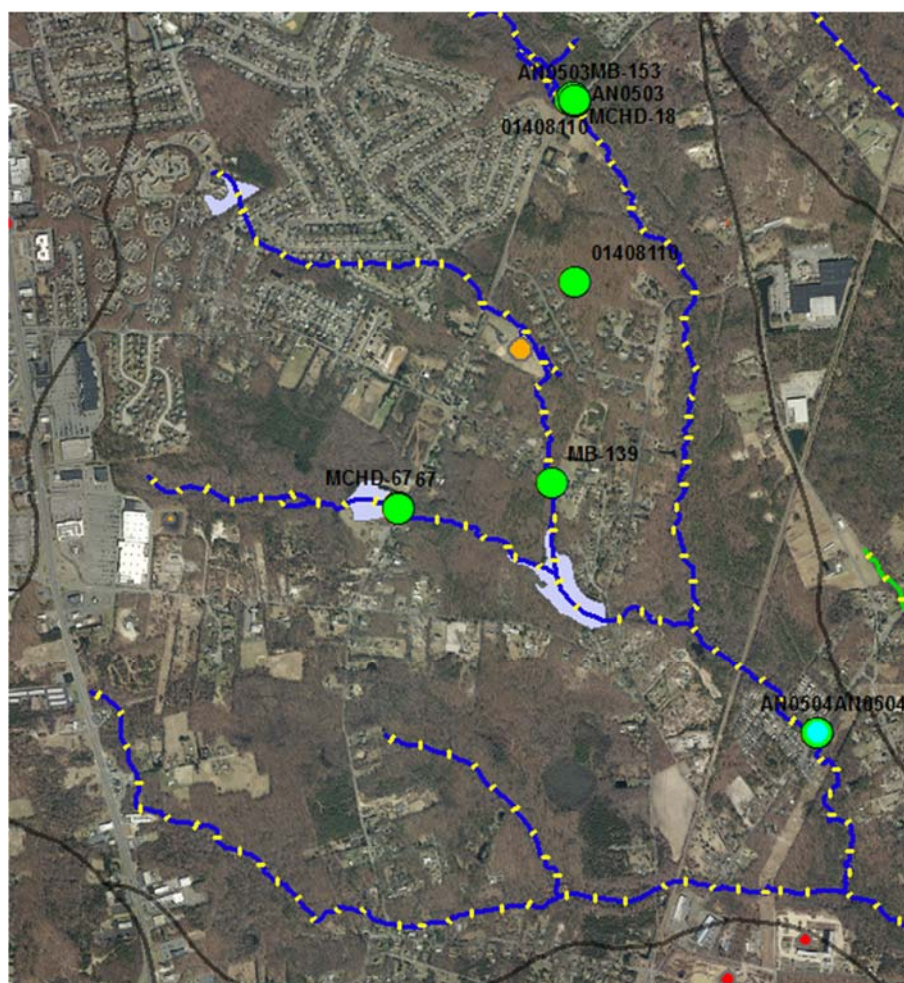
**Response:** Cox Hall Creek/Mickels Run (to Villas) (NJ02040206230060-01) has been placed on Sublist 3 for the Recreational Use based on two conditions. Although Station CC1147 is no longer monitored, data from other nearby beach monitoring stations meet the applicable WQS for enterococcus (see table below). This would normally place the AU on Sublist 2, however, as with all beaches along the Delaware Bay, the beaches previously associated with the land AUs are now associated with Delaware Bay Zone 6 (New Jersey portion). Therefore, Cox Hall Creek/Mickels Run is placed on Sublist 3 and Delaware Bay Zone 6 is placed on Sublist 2.

<b>Recreation Designated Use Result</b>		
<b>Station Number</b>	<b>Name</b>	<b>Enterococci</b>
CC1148	Cape May Point Borough at Brainard	Fully Attain
CC1137	Cape May Point Borough at Sunset	Fully Attain
CC1173	Cape May Point Borough at Whildin	Fully Attain

Recreation Designated Use Result		
Station Number	Name	Enterococci
CC1174	Cape May Point Borough at Ocean	Fully Attain

85. **Comment:** “Haystack Brook (NJ02040301020030-01)- Cause Unknown” is being proposed for delisting with the explanation of, “Trumped by more recent data at AN0504 that shows fully supporting for aquatic life.” Is station AN0504 within this assessment unit? (USEPA)

**Response:** This AU was originally listed based on biological data from Station MB-139 that was collected in the early 2000’s. More recent data from Station AN0504, which is located downstream in the same AU and was listed as impaired on the 2002 303(d) List, shows that biology is no longer impaired. The more recent data from the downstream station is more representative of overall water quality in this AU; therefore, it was assessed as fully supporting the aquatic life designated use.



86. **Comment:** “Manahawkin/LEH Bay (MillCrk-TurtleCove) - Oxygen, Dissolved” is being proposed for delisting with the explanation of, “Diurnal Data only available in 2007, low reading appears to be instrument malfunction...” Please further explain what the NJDEP means by, “low reading appears to be instrument malfunction?” (USEPA)



**Response:** The continuous monitoring data at station MB was invalidated and not used for the 2014 assessment due to inadequate maintenance of the equipment and the absence of an approved QAPP. The 2007 diurnal data showed evidence of biofouling such as between 7/6/2007 to 7/11/2007 when dissolved oxygen levels fall below 2 mg/l for the entire period and then suddenly on 7/11/2007 at 10:00 am values jump from 1.6 mg/l to 6.4 mg/l at 10:15 am. Additional monitoring between 2008 to 2012 shows that all of the other sampling stations within the AU, including intensive sampling at stations BB10, BB11 and BB11a, fully attain for dissolved oxygen and are depicted in the table below:

Station	Total Samples	Total Attain	Total Exceedances	Comments
BB10	99	99	0	
BB11	39	39	0	
BB11a	52	52	0	
1675	7	6	1	
1683C	7	7	0	
1700A	10	9	1	
1703	8	7	1	
1703C	11	11	0	
1704	11	11	0	
1706	12	12	0	
1707C	12	11	1	
1712	8	8	0	
1718B	12	10	2	More recent data at nearby stations BB11 and BB11a show no exceedances.
1719E	10	10	0	
1721	12	11	1	
<b>Total</b>	<b>310</b>	<b>303</b>	<b>7</b>	

87. **Comment:** “Metedeconk R NB (Rt9 to I-195) (NJ02040301020020-01)- Arsenic” is being proposed for delisting with the explanation stating, “Unable to make an assessment and placed on Sublist 3.” However, the Delisting reason states, “Applicable WQS attained; original basis for listing was incorrect.” This waterbody/pollutant combination should be listed as, “Data and/or information lacking to determine WQ status; original basis for listing was incorrect.” (USEPA)

**Response:** The Department agrees with this comment and has revised Appendix C: 2014 Final Causes Removed from the Sublist 5/303(d) List (Delisted Waters) to show that Arsenic in 02040301020020-01 Metedeconk R NB(Rt 9 to I-195) was delisted because “Data and/or information lacking to determine WQ status”. The original listing was based Arsenic data from Station NK; however, as explained in Appendix C, NK does not represent this AU. Station NK is associated with the upstream AU 02040301020010-01 Metedeconk R NB (above I-195), which on the 303(d) List for Arsenic.

88. **Comment:** “Mullica River (above Jackson Road) (NJ02040301160020-01) - Oxygen, Dissolved” is being proposed for delisting with the explanation stating, “Diurnal Data 2003- Meets criteria by low values....” Please explain “low values” and if the data show contravention of the criteria? (USEPA)

**Response:** The “low values” explanation was a note that this AU should be resampled in the future with continuous monitoring since although the criteria was not exceeded, the DO levels are a concern. The low values included DO levels below 4.25 mg/l but higher than 4.0 mg/l.

89. **Comment:** “Rahway River (below Robinsons Branch) (NJ02030104050100-01)- Oxygen Dissolved” is being proposed for delisting based on monitoring data from the New Jersey Harbor Dischargers Group (NJHDG). Recently EPA commented on NJHDG’s QAPP sampling plan to better understand if the NJHDG sampling plan is set up to ensure that its samples are capturing the critical DO time points. The NJHDG response was, “The NJHDG sampling plan is designed to capture long term trends in water quality, similar to the NYCDEP Survey. It is not designed to capture critical periods of low dissolved oxygen. The Dissolved Oxygen samples are collected at the same frequency as is the case for all of the other parameters. Because the NJHDG monitoring program was designed to collect ambient water quality data over long period of time (years), trends for all of the measured parameters (including DO) are being established that allow comparisons of the ranges of temperature, salinity, tidal conditions and weather patterns.” Thus this data was not necessarily collected during critical periods that would more accurately display the current dissolved oxygen status of this waterbody. NJHDG’s data appears to be more applicable for a long term assessment data set. Therefore, unless the NJDEP can provide further information that the data was sampled during a period of time that is capturing the critical DO time periods that will accurately characterize this assessment unit, this waterbody/pollutant combination should be on the 303(d) list. (USEPA)

**Response:** Data used for the Integrated Report is ambient data with an approved QAPP. Since routine monitoring data was deemed sufficient to support listing DO in this AU, including data collected under NJHDG’s Department-approved QAPP, then such data should also be sufficient to support delisting DO in this AU. This delisting decision is also supported by the 2014 Methods Document, which states that while the Department strives to get data from critical time period (i.e. before dawn), this is not always possible. The critical period for DO can only be captured by continuous monitors or very time specific intensive sampling, which is not routinely available due to cost, resource, and equipment constraints. If USEPA determines that the critical time period must be captured in order to accurately assess DO or any other physical or chemical parameter, then most of the waters of the State would have insufficient data to assess. If it is suspected that surface water quality criteria are being exceeded during certain critical periods, the Department will make every reasonable effort to monitor during those periods. In the meantime, if data meets the Method Document requirements for quality, quantity, and duration then the Department will make a decision based on the available data.

90. **Comment:** “Raritan Bay (deep water) (NJ02030104910030-01) - Heptachlor epoxide”; is being proposed for delisting with the explanation of, “Administrative error, Raritan Bay should

have never been listed in 2012.” The NJDEP needs to explain the Administrative error. What data is there to support this listing/delisting? (USEPA)

91. **Comment:** “Raritan Bay (west of Thorns Ck) (NJ02030104910010-01)- Heptachlor epoxide” is being proposed for delisting with the explanation of, “Administrative error, Raritan Bay should have never been listed in 2012.” The NJDEP needs to explain the Administrative error. Is there data to support this listing/delisting? (USEPA)

**Response to Comments 90 and 91:** As explained in response to Comment #15, the two Raritan Bay AUs, 2030104910030-01 Raritan Bay (Deep Water) and 02030104910010-01 Raritan Bay (west of Thorns Ck), were delisted from the 2014 303(d) List. An administrative mistake accidently added the two AUs to the 303(d) List in 2012 although there was no new data or modeling results to support such listing. Consequently, these two AU/pollutant combinations were delisted in 2014 and moved from Sublist 5 to Sublist 2 based on the Contamination Assessment and Reduction Project (CARP) modeling that showed full support. (see Appendix C: 2014 Final Causes Removed from Sublist 5/303(d) List (Delisted Waters)).

92. **Comment:** A TMDL for the following delisted waterbody/pollutant combinations were not found. Please identify the TMDLs that cover the following waterbody/pollutant combinations:

- 02040202120030-01 Big Timber Creek SB (above Lakeland Rd) – TP
- 02040105200010-01 Lockatong Ck(above Rt 12) – TP
- 02040105200020-01 Lockatong Ck (Milltown to Rt 112) – TP
- 02030103170010-01 Pascack Brook (above Westwood gage) – TP
- 02030103170020-01 Pascack Brook (below Westwood gage) – TP
- 02030104090040-01 Shark River (above Remsen Mill gage) – TP
- 02030103170060-01 Hackensack River (Oradell to Old Tappan gage) E coli
- 02030104070050-01 Mine Brook (Monmouth County) E coli

(USEPA)

**Response:** The TMDLs are identified in the table below, along with links to the TMDL documents posted on the Department’s TMDL website.

Assessment Unit	AU Name	Parameter	TMDL	TMDL Number
02040202120030-01	Big Timber Creek SB (above Lakeland Rd)	TP	<a href="#">Total Maximum Daily Loads for Phosphorus to Address 5 Stream Segments in the Lower Delaware Water Region</a>	12344
02040105200010-01	Lockatong Ck (above Rt 12)	TP	<a href="#">Total Maximum Daily Loads for Phosphorus to Address Seven (7) Stream Segments in the Northwest Water Region</a>	12369
02040105200020-01	Lockatong Ck (Milltown to Rt 12)	TP	<a href="#">Total Maximum Daily Loads for Phosphorus to Address Seven (7) Stream Segments in the Northwest Water Region</a>	12369
02030103170010-01	Pascack Brook (above Westwood gage)	TP	<a href="#">Total Maximum Daily Loads for Phosphorus to Address Three (3) Stream Segments in the Northeast Water Region</a>	12359
02030103170020-01	Pascack Brook (below Westwood gage)	TP	<a href="#">Total Maximum Daily Loads for Phosphorus to Address Three (3) Stream Segments in the Northeast Water Region</a>	12359

02030104090040-01	Shark River (above Remsen Mill gage)	TP	<u>Total Maximum Daily Loads for Phosphorus to Address 3 Stream Segments in the Atlantic Coastal Water Region</u>	12329
02030103170060-01	Hackensack River (Oradell to Old Tappan gage)	E coli	<u>Total Maximum Daily Loads for Fecal Coliform to Address 32 Streams in the Northeast Water Region</u>	31394
02030104070050-01	Mine Brook (Monmouth County)	E coli	<u>Five Total Maximum Daily Loads for Total Coliform to Address Shellfish-Impaired Waters in Watershed Management Area 12 Atlantic Coastal Water Region</u>	10544

93. **Comment:** Table 2.1A on NJDEP’s 2014 Draft Integrated Report with Appendices identifies 11 TMDL delisted waters, however, Appendix C: Causes Removed from the Sublist 5/303(d) List (Delisted Waters) only provides justification for 10 waterbody/pollutant combinations. The delisting document only provides justification for 2 Escherichia coli impaired waters in which it is covered by a TMDL. However, Table 2.1A identifies 3 Escherichia coli impaired waters that are being proposed for delisting based on a TMDL. The NJDEP needs to provide adequate justification for the additional proposed TMDL delisting. (USEPA)

**Response:** The Department did not find the discrepancy cited by the commenter. Both the draft and final versions of both documents cited show 11 new delistings based on an approved TMDL, including three for Escherichia coli, 02030103170060-01 Hackensack R (Oradell to Old Tappan gage), 02030104070050-01 Mine Brook (Monmouth Co), and 02030103070050-01 Wanaque Reservoir (below Monks gage) and 8 for Total Phosphorous. The explanation for each delisting is provided in Appendix C.

94. **Comment:** AU 02040301130090-01 Manahawkin/LEH Bay (MillCrk-TurtleCove) is included in Appendix C-Delisted Waters as attaining WQS standards for dissolved oxygen, with sufficient justification. It is unclear, however, how this translates into the current AUs for the Barnegat Bay watershed. There is no 2014 AU with that number or name, though it is close to AU Barnegat Bay08 in name. Please clarify this inconsistency. (BBP)

**Response:** Appendix C-Delisted Waters was updated to show that the AU, 02040301130090-01 Manahawkin/LEH Bay (MillCrk-TurtleCove), is now represented by BarnegatBay08 Manahawkin Bay and Upper Little Egg Harbor.

95. **Comment:** AU02040301020020-01 Metedeconk River NB is delisted for Arsenic with the justification that station NK does not represent the AU, but that station NG, within the AU, does. Furthermore, NG has over 50% censored data, so the Department is unable to make an assessment. This raises two questions. First, is NK not within the AU, and if it is not, why was it used to list the AU as “Not supporting” instead of “Insufficient data”? Second, if using NG leads to a determination that there are insufficient data, is the delisting reason “Data and/or Information lacking to determine WQ status” instead of “Applicable WQS attained”? (BBP)

**Response:** Station NK is associated with the upstream AU 02040301020010-01 Metedeconk R NB (above I-195) that is listed on the 303(d) List for Arsenic. Appendix C-Delisted Waters was corrected to show that the reason for delisting arsenic in 02040301020020-01 Metedeconk River NB (Rt 9 to I-195) as “Data and/or information lacking to determine WQ status”. This AU remains on Sublist 5 for the aquatic life use based on macroinvertebrate

data from AN0502, which shows that biology is impaired and Cause Unknown remains on the 303(d) List for this AU.

96. AU 02040301090010-01 Webbs Mill Branch is delisted for “Cause unknown” with the justification that there are no biological stations available in the AU. The delisting reason should be “Data and/or information lacking to determine WQ status”, not “Applicable WQS attained”. This is supported by Appendix D (decisions to not list causes), which identifies this AU parameter as Sublist 3. (BBP)

**Response:** Appendix C-Delisted Waters was updated to show the “Cause Unknown” delisting reason for 02040301090010-01 Webbs Mill Branch as “Data and/or information lacking to determine WQ status”.

97. **Comment:** The text in the PCB in Fish Tissue/Total Coliform section on Page 30 explains that, “Delistings of PCB in fish tissue are all based on refinement of the assessment method,” yet the refinements used for the delistings are not described. Similarly, all total coliform removals were the result of undescribed refinements to assessment methods. Additional language is needed to provide justification for delistings. (PPA)

**Response:** The rationale for the delistings of PCB in fish tissue is provided in Section 2.1 of the 2014 Integrated Report under “Fish Consumption”:

In 2014, the Department delisted PCB in fish tissue from all ocean waters. These waters were assessed as impaired based upon PCB body burdens in migratory fish, such as bluefish and striped bass, which are caught off the New Jersey coast. However, in view of the migratory nature of these fish and the distances they travel along the eastern coastal waters, and because it has not been established where along the eastern seaboard these fish acquired the contaminants, the Department will no longer assess the fish consumption use in New Jersey’s ocean waters based on PCB in fish tissue.

Total coliform delistings are also explained in Section 2.1 of the Integrated Report under “Shellfish”, which states “...some AUs previously assessed as not supporting due to administrative closures of shellfish waters were re-assessed as insufficient information because the closures were precautionary and not based on water quality data.”, as well as under Section 6.4 of the 2014 Methods Document:

Administrative closures of shellfish waters are established in restricted areas around potential pollution sources, such as sewage treatment plant outfalls, marinas, and outfalls as a preventive measure to avoid the harvest of shellfish that could become contaminated by sewage, boat wastes or stormwater runoff. Where shellfish harvest is special restricted or seasonal due to an administrative closure, such restricted areas are not based on water quality and are regarded as “insufficient information”.

98. **Comment:** Even though the intra-state waters of the Delaware River are assessed by the Delaware River Basin Commission (DRBC), if the NJDEP is making listing or delisting decisions based on DRBC’s assessment, the NJDEP needs to provide justification for the listing/delisting; simply stating “DRBC delisting” is not a sufficient explanation for delisting. Please provide an adequate justification for the delisting of the NJ Delaware river segments. (USEPA)

**Response:** The Department agrees that more detailed information must be provided for DRBC assessment decisions that result in the listing or delisting of parameters to the 303(d) List. This information will be provided in either Appendix B for new listings or Appendix C for delistings. For the 2014 Delisting Document, all of the chlordane and dieldrin fish tissue delistings for Delaware River and Bay have been placed back on the 303(d) List. The DRBC Integrated Report had listed fish advisories for these waters but did not identify the specific toxic parameter. All of these fish advisories are based on previous NJDEP data and do not reflect new listings, therefore, there are no changes to New Jersey’s 2014 303(d) List for fish consumption-related parameters since the 2012 303(d) List. There has been no recent fish tissue sampling in the Delaware River and Bay. The following AU/pollutant combinations were returned to the final 2014 303(d) List:

<b>Assessment Unit Number</b>	<b>Assessment Unit Name</b>	<b>Parameter</b>
DELAWARE RIVER 2	Delaware River 1C	Chlordane in Fish Tissue
DELAWARE RIVER 8	Delaware River 1D	Chlordane in Fish Tissue
DELAWARE RIVER 14	Delaware River 1E	Chlordane in Fish Tissue
DELAWARE RIVER 15	Delaware River 2	Chlordane in Fish Tissue
DELAWARE RIVER 15	Delaware River 2	Dieldrin
DELAWARE RIVER 16	Delaware River 3	Chlordane in Fish Tissue
DELAWARE RIVER 16	Delaware River 3	Dieldrin
DELAWARE RIVER 17	Delaware River 4	Chlordane in Fish Tissue
DELAWARE RIVER 17	Delaware River 4	Dieldrin
DELAWARE RIVER 18	Delaware River 5A	Chlordane in Fish Tissue
DELAWARE RIVER 18	Delaware River 5A	Dieldrin
DELAWARE RIVER 6	Delaware Bay Zone 6 (New Jersey portion)	Chlordane in Fish Tissue
DELAWARE RIVER 6	Delaware Bay Zone 6 (New Jersey portion)	Dieldrin

CAUSES NOT ADDED TO SUBLIST 5/303(d)

**2014 Draft Decisions to Not List**

99. **Comment:** Barnegat Bay Central East (BarnegatBay06): DO: The NJDEP is proposing to not list this segment based on “24-hour average above 5mg/l during all 4 days of both intensive sampling events during summer period.” Do other data sets collected within the data solicitation period exceed the DO criteria for this assessment unit? Did the data collected

during all 4 days of both intensive summer sampling events exceed the DO criteria of not less than 4.0 mg/l at any time? If so, Barnegat Central East for Oxygen, Dissolved needs to be added to the 303(d) list. (USEPA)

**Response:** BarnegatBay06 - Barnegat Bay Central East was assessed based on DO data collected at seven stations: BB06, BB08, 1645G, 1651D, 1661F, 1688B, and 1691E over a five-year period. A majority of the data was collected at Stations BB06 and BB08 with 2 of 91 samples at Station BB08 exceeding the DO criterion. However, when assessing the data collected from all seven stations, only three out of 270 samples exceeded the applicable DO criterion. In addition, more recent intensive monitoring data was collected over three consecutive days at Station BB08 capturing the critical time period (before dawn) and the critical season (summer). The 24-hour average DO during all four days of both sets of intensive sampling was above 5 mg/l, indicating full attainment of the applicable water quality criterion over the critical time period. Therefore, the data did not support listing this AU as impaired for DO.

100. **Comment:** Forked River (below NB incl Mid/South Br) (NJ02040301110030-01) - pH: This waterbody/pollutant combination is listed in the “draft decision to not list appendix” on pages 4 and 5. First on page 4 it is noted that only 16 out of 49 exceedances and then on page 5 it is noted that there are 38 out of 41 exceedances. Please revise. (USEPA)

**Response:** Appendix D: Final Decisions to Not list Causes on the 2014 303(d) List correctly shows that 02040301110030-01 Forked River (below NB incl Mid/South Br) was not listed for pH because low pH values collected at two stations, BT08 and BT09, reflected natural conditions for waters influenced by the natural acidity of Pinelands. Station BT08 had 38 of 41 samples below the pH range for South Jersey waters but within the acceptable pH range for Pinelands waters. Similarly, Station BT09 had 16 of 49 samples below the pH range for South Jersey waters but within the acceptable pH range for Pinelands waters. This decision to not list pH is explained in more detail in Appendix D: 2014 Final Justification for pH Not Listed Due to Natural Conditions.

101. **Comment:** Appendix D: Draft Decisions to Not List Causes on the 2014 303(d) List, page 1 of 11, third row shows AU 2030104100010-01, Manasquan R (above 74d17ms50s road) Station AN0458, Manasquan R at off Turkey Swamp Rd in Freehold as being in WMA 13 when it should be WMA 12. (BTMUA)

**Response:** This mistake has been corrected to reflect that the AU is in WMA 12 in Appendix D Draft Decisions to Not List Causes on the 2014 303(d) List.

### **Justification for pH Not Listed Due to Natural Conditions**

102. **Comment:** Until the NJDEP develops and adopts a new EPA approved pH standard for the segments that fall outside of the Pineland designated waters, these waterbody/pollutant combinations will need to be added to the 303(d) list since they violate their current water quality standards. Many of the proposed pH impaired waterbody/pollutant combinations that the NJDEP is proposing to not list due to Natural Conditions are exceeding pH high Criteria

for the Pinelands pH criteria and exceeding the pH low criteria for the South Jersey pH Criteria. Natural Conditions for these waters could be demonstrated when the NJDEP develops adequate low and high pH criteria for these waters. Currently, NJDEP is trying to assess based on the highest and lowest ends of both current criteria, and there is no justification to support that these high and low pH values are protective of its designated uses. (USEPA)

103. **Comment:** Cedar Creek (below GS Parkway) (NJ02040301090060-01) – pH: Data show 28 exceedances of the applicable pH standard out of 28 samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
104. **Comment:** Forked River NB (below old RR grade) (NJ02040301110020-01)- pH: Data show 21 exceedances of the applicable pH standard out of 49 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
105. **Comment:** Forked River NB (below NB incl Mid/South Br) (NJ02040301110030-01)- pH: Data show 16 exceedances of the applicable pH standard out of 49 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
106. **Comment** Indian Branch (Scotland Run) (NJ02040206130030-01)– pH: Data show 10 exceedances of the applicable pH standard out of 49 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
107. **Comment:** Mattix Run (Nacote Creek) (NJ02040301200110-01)– pH: Data show 7 exceedances of the applicable pH standard out of 15 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
108. **Comment:** Mill Branch (below GS Parkway) (NJ02040301140020-01)- pH: Data show 6 exceedances of the applicable pH standard out of 19 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
109. **Comment:** Oyster Creek (below Rt 532) (NJ02040301110050-01)- pH: Data show 17 exceedances of the applicable pH standard out of 49 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are



impacted from Pineland waters. (USEPA)

110. **Comment:** Waretown Creek/Lochiel Creek (NJ02040301120010-01)– pH: Data show 19 exceedances of the applicable pH standard out of 19 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
111. **Comment:** Westecunk Creek (below GS Parkway) (NJ02040301130060-01) - pH: Data show 13 exceedances of the applicable pH standard out of 49 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)
112. **Comment:** Wrangel Brook (below Michaels Branch) (NJ02040301080050-01) - pH: Data show 15 exceedances of the applicable pH standard out of 44 total samples. This waterbody/pollutant combination needs to go on the 303(d) list until NJDEP revises water quality standards for assessment units outside of the designated Pineland boundaries that the NJDEP believes are impacted from Pineland waters. (USEPA)

**Response to Comments 102 thru 112:** Appendix D: Justification for pH Not Listed Due to Natural Conditions provides the rationale for not listing pH in the AUs identified in Comments #102-112. All of the perceived pH impairments occurring in these waterbodies are due to natural conditions where low pH waters flowing from the Pinelands boundary (below the South Jersey pH low criteria of 4.5) enter the watersheds located outside of the Pinelands. Consequently, all of these low pH values are not exceedances but natural conditions influenced by headwater watersheds that are not anthropogenically impacted. Waters flowing out of the Pinelands through the South Jersey transition zone are anticipated to have increasing pH values through the natural process where waters exhibit low pH levels naturally found in the upstream Pineland waters but because of changing soils, vegetation, and groundwater as the waters flow away from the Pinelands they are expected to show increasing pH values. Due to the excellent upstream conditions observed including healthy biological communities, the Department regards these waters as fully supporting the designated aquatic life use as long as the pH level do not exceed the high South Jersey criteria of 7.5.

#### ASSESSMENT OF NATURAL CONDITIONS

113. **Comment:** The commenter supports NJDEPs justification for not listing Pinelands water bodies with low pH (Appendix D). Streams that are located in undisturbed areas of the Pinelands are acidic with pH values typically less than 5, and exhibit low concentrations of nutrients and dissolved solids. The Pinelands Commission’s long-term environmental monitoring program has determined that there is a strong relationship between water quality and land use patterns. Degraded waters typically have higher pH and elevated concentrations of dissolved solids and nitrate-nitrogen. There is also a good relationship between the community-level indicators and watershed-level indicators: Nonnative fish, frogs and plant species are typically only found within watersheds characterized by elevated pH and higher

concentrations of dissolved solids. (PPA)

**Response:** The Department appreciates the commenters support and understanding of the science behind not listing the Pineland influenced waters for exceeding water quality criteria due to low pH levels.

114. **Comment:** Ocean acidification is an overarching threat to ocean ecosystems and fisheries that depend on a healthy environment. New Jersey should provide leadership on ocean acidification. The state has an opportunity to take steps to address this important water quality problem before it is too late. The commenters request that New Jersey amend its Draft 2014 303(d) List to include waters impaired by ocean acidification such as Delaware Bay and interior estuarine waters. Ocean acidification is already causing measurable impacts on coastal and bay waters. The state has a duty to look at the information that is available to it to evaluate the condition of its coastal waters in the face of ocean acidification. New Jersey should list its waters as threatened or impaired under the Clean Water Act. The available information shows that water quality has changed in excess of New Jersey's standard due to anthropogenic inputs. Moreover, aquatic life uses are and will continue to be compromised by ocean acidification. Delaying action will only allow the problem and impacts to become more severe. (COA, CBD)

**Response:** New Jersey's ocean waters are classified as SC with an adopted pH criterion of "natural conditions shall prevail". The Department has not determined what the natural pH range should be and does not have an adequate data set to assess the condition. The Delaware Bay is classified by the Delaware River Basin Commission (DRBC), which established a pH criterion for Delaware Bay of 6.5-8.5. DRBC determined that 98% of the samples met the criterion in its *2014 Delaware River and Bay Integrated List Water Quality Assessment Report*. The remaining 2% exceeded the upper end of the criterion range. The Department concurred with DRBC's assessment and did not list Delaware Bay as impaired for pH.

USEPA has addressed this issue on a national basis in litigation settled with the Center for Biological Diversity (CBD). CBD challenged USEPA's approval of Washington State's 2008 303(d) List because it failed to include coastal waters as impaired for marine pH (CBD v. EPA, No. 2:09-cv-00670-JCC (W.D.Wash)] As a condition of the settlement agreement, USEPA issued a Memorandum of Agreement on November 15, 2010 describing how they will proceed with addressing ocean acidification in the 303(d) Program (see [http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/upload/oa\\_memo\\_nov2010.pdf](http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/upload/oa_memo_nov2010.pdf).) The Memorandum, entitled: "Integrated Reporting and Listing Decisions Related to Ocean Acidification", states:

EPA has concluded that States should list waters not meeting water quality standards, including marine pH WQC, on their 2012 303(d) lists ... using the current 303(d) listing program framework. This Memorandum does not elevate in priority the assessment of waters for OA, but simply recognizes that waters should be listed for OA when data are available. EPA recognizes that information is absent or limited for OA parameters and impacts at this point in time and, therefore, listings for OA may be absent or limited in many States ... EPA will provide additional 303(d) guidance to the States when future OA

research efforts provide the basis for improved monitoring and assessment methods, including approaches being developed under two significant Federal efforts ... that will begin in early 2011.

The attachment to the Memorandum includes a section on assessment of marine pH water quality criteria (WQC) as a “natural condition”. It states:

Most states do not have detailed monitoring protocols, assessment methods, or high-resolution equipment needed to quantify natural conditions within their coastal waters, which is needed to implement such criteria. This absence is due to the fact that marine pH concentrations can vary by depth, time of day, season, and location, making it difficult to monitor accurately. Additionally, historical pH datasets typically lack the necessary detail for States to establish accurate baselines.

While New Jersey’s Surface Water Quality Standards establish pH criteria for ocean waters, the criteria are narrative (“natural conditions shall prevail”) and the Department has no assessment method or numeric translator for determining compliance with this narrative criterion. USEPA’s guidance does not require states to develop numeric pH criteria for ocean waters and the Department does not have sufficient data collected in New Jersey’s ocean waters to support pH criteria development at this time. Therefore, ocean waters cannot be added the 2014 303(d) List for pH.

115. **Comment:** Commenter has several comments concerning Appendix D – pH Natural Conditions (BBP):

- AMNET station AN0615 Mattix Run is listed as being within AU 02040301130060-01 Westecunk Creek (below GS Parkway), AU 02040301110020-01 Forked River NB, and AU 02040301200110-01 Mattix Run (Nacote Creek). The AMNET stations should be corrected as appropriate and the assessments verified using the correct data.
- #4 Forked River NB – There are three excursions from the Pinelands criteria range (13-Oct-11, 12-Mar-13, 27-Mar-13), contrary to the assertion that all data fall within range. However, we still agree that the natural pH conditions present do not warrant listing.
- #5 Forked River (below NB) – There are more excursions outside of the Pinelands criteria range listed in the table (BT08 13-Oct-11, BT09 26-Jul-12, BT09 06-Dec-12, BT09 17-Dec-12) than the one exceedance described in the text. However, we still agree that the natural pH conditions present do not warrant listing.
- #7 – Waretown Creek on Rt 9 - There are four excursions from the Pinelands criteria range (06- Sep-05, 27-Nov-07, 23-Aug-11, 03-Jan-13), contrary to the assertion that all data fall within range. However, we still agree that the natural pH conditions present do not warrant listing.

- #8 – Westecunk Creek (Below GS Parkway) There are five exceedances of the Pinelands high pH criteria (06-June 11, 08-Aug-11, 25-Aug- 11, 10-Jan-12, 03-Apr-12), not three as suggested in the text. There is also a 6th exceedance that is noted, but that specific exceedance (21-Mar-13) appears to fall outside the timeframe of this assessment.

**Response:** Appendix D: Final Decisions to Not List Causes on the 2014 303(d) List and 2014 Final Justification for pH Not Listed Due to Natural Conditions have been revised to reflect the correct information provided by the commenter; however, the assessment outcome has not changed. The following changes were made in station associations with their respective AUs: AN0615 was corrected to be only within the AU 02040301200110-01 Mattix Run (Nacote Creek). AU 02040301110020-01 Forked River NB was corrected to show AN0551 was located within the HUC. AU 02040301130060-01 Westecunk Creek (below GS Parkway) was corrected to show AN0558 was located within the HUC.

NEW JERSEY’S WATER QUALITY MANAGEMENT PROGRAMS - PROTECTING AND RESTORING WATER QUALITY

116. **Comment:** The Key Findings state: “...localized changes in water quality are usually associated with changes in land use. Generally, water quality declines as the intensity of land use increases. The largest concentrations of high quality waters are located in the least developed regions of the State, specifically the upper northwest and the Pinelands region.” The commenter asked why NJDEP can’t limit large land use changes that impact the water quality, or if NJDEP cannot stop it, why NJDEP can’t mitigate it by enforcing the stormwater regulations. (KA)
117. **Comment:** Over a decade after the MS4 program was rolled out, the draft 2016 MS4 permit once again fails to address TMDL pollution control reductions in waterbodies adjacent to MS4 outfalls. Numerous TMDLs continue to rely on these regulatory measures, despite over 10 years of evidence to show that these permits are ineffective to implement TMDL reductions. NJDEP has authority to impose stricter regulations on stormwater and non-point pollution; and NJDEP needs to exercise it to reduce pathogen impairments due to non-point source storm water runoff. (COA)
118. **Comment:** DEP is not adequately implementing the TMDLs that have been developed, as evidenced by permits that do not incorporate TMDLs into the permit terms. For instance, the preliminary draft permit of the Tier A MS4 NJPDES permit, released earlier this year, does not include limitations necessary to implement applicable TMDLs. The permit merely states the permittees “certify in each annual report that approved or adopted TMDLs have been identified and reviewed, opportunities identified and strategies/Optional Measures developed and incorporated into the SPPP.” This type of language does not ensure that permits include the limitations necessary to implement TMDLs. It is not enough for DEP to develop TMDLs, but then never require the necessary limitations that will translate the TMDL into actual pollutant reductions. (AL1)
119. **Comment:** The commenter expressed frustration over their perception that the NJDEP issues permits to new construction easily, but has not developed a plan to protect the water quality,

which they deemed NJDEP's most important mission. (KA)

120. **Comment:** NJDEP must use regulations to implement nonpoint source control measures to reduce impairment listings. NJDEP is not effectively implementing or enforcing many of the stormwater-based TMDLs already developed, as evident by numerous pathogen listings that remain years after TMDLs have been approved. There are stormwater regulations and Water Quality Management Planning regulations that TMDLs are designed to inform but are not being used. (COA)
121. **Comment:** We are concerned about the continued pathogen impairments and the effectiveness of these TMDLs in making load reductions. Several of the TMDLs that were developed were done so before the MS4 program was well established; moreover, they do not place significant, or if any, additional regulatory requirements on stormwater plans and permits, or WQMPs, or other means to reduce non-point source loadings. How can the regulatory process be used to ensure reductions are indeed made? (BBP)
122. **Comment:** Degradation of New Jersey's non-impaired waters suggests violations of the anti-degradation policy. Additionally, the fact that DEP has issued rule proposals in recent months that would risk further degradation of water quality – including the MS4 Stormwater, Water Quality Management Planning, Flood Hazard Area Control, and Capacity Assurance Program Proposals – poses substantial concern. Unless the DEP reverses its efforts to roll back water quality protections, we expect water quality to continue to degrade in New Jersey, in clear violation of the Clean Water Act's anti-degradation policy. (AL1)
123. **Comment:** Efforts undertaken to streamline regulations at the state level, (i.e. rewriting and “streamlining” of coastal zone rules, flood hazard rules and stormwater rules), are additionally putting critical water resources at risk. (SBB)
124. **Comment:** The cumulative effects of the many rollbacks, streamlining, and inaction of NJDEP in a wide variety of water quality issues is adversely affecting New Jersey. “Streamlining” of the Coastal Area Facility Review Act (CAFRA) and Waterfront Development Act (WDA); neglect of Water Supply Master Plan duties (WSMP); “streamlining” of the Flood Hazard Area Control Act (FHACA) and “updating” the Water Quality Management Planning (WQMP) regulations remove water quality protections and cause water quality issues. (COA)

**Response to Comments 116 thru 124:** These comments are beyond the scope of the Integrated Report. The Integrated Report is prepared to meet the federal Clean Water Act requirements of assessing the health of the State's waters, identifying waters that are impaired and the causes of impairment, and prioritizing impaired waters for development of TMDLs or other restoration measures. Implementation of water quality protection and restoration falls under the purview of other Department programs in accordance with other state and federal mandates, including other sections of the Clean Water Act as well as the New Jersey Water Pollution Control Act and the New Jersey Water Quality Planning Act. A complete description of these programs and how they work together to meet federal and state goals of protecting, enhancing and restoring waters of the State is provided in the New Jersey Continuing Planning

Process document, which is posted on the Department's website at <http://www.nj.gov/dep/wrm/docs/cpp.pdf>.

125. **Comment:** On page 87 the Long Swamp Creek is listed as one of "17 Watershed Based Plans (WBPs) approved by the Department and deemed to meet all nine elements by USEPA." This contradicts the most recent 319(h) funding guidance, which does not list Long Swamp Creek as an approved plan. Please clarify the status of this plan as it has an impact on its inclusion on Sublist 5R as well as its eligibility for CWA Section 319(h) funding. (BBP)

**Response:** This comment refers to Section 4.3 of the draft 2014 Integrated Report, which explains Watershed Based Plans as a component of the Department's non-regulatory water pollution control programs. In State Fiscal Year (SFY) 2006, the Department began issuing Section 319(h) grants to fund planning and implementation of projects that would address water quality impairment through implementation of NPS pollution controls, including Watershed Restoration and Protection Plans, also referred to as Watershed Based Plans (WBPs). As of June 2007, WBPs were required to include nine minimum components set forth in the USEPA's "Handbook for Developing Watershed Plans to Restore and Protect Our Waters" (USEPA, 2005) to be eligible for Section 319(h) grant funds. For the 2014 Integrated Report, the Department created Subpart 5R for AUs impaired primarily by pollutants addressed by approved WBPs that include these nine minimum components as an effective alternative to a TMDL.

For the final 2014 Integrated List, the Department re-evaluated the list of approved WBPs and removed Long Swamp Creek because it was not an approved, nine-element plan since it was completed before the requirement by EPA. Although it is not on Sublist 5R, Long Swamp Creek is an approved watershed plan by the Department and will continue to be eligible for 319(h) funding.

Based on their date of approval, the final 2014 Integrated Report identifies the following 17 WBPs as the basis for Subpart 5R:

- Alexauken Creek Watershed Plan
- Assiscunk Creek Watershed Plan
- Cedar Grove Watershed Plan
- Clove Brook Watershed Plan
- Deal Lake Watershed Plan
- Manalapan Watershed Restoration Plan
- Metedeconk River Watershed Plan
- Mulhockaway Creek Watershed Plan
- Musquapsink Brook Watershed Plan
- Neshanic River Watershed Plan
- Papakating Creek Watershed Plan
- Pleasant Run and Holland Brook Watershed Plan
- Sidney Brook Protection Plan
- Sourland Mountain Watershed Plan
- Tenakill Brook Watershed Plan

- Upper Cohansey River Watershed Plan
- Upper Salem River Watershed Plan

The following sections of the final 2014 Integrated Report were revised accordingly: Figure 2.1A Spatial Extent of Sublist 5R, Section 4.3 “Watershed Based Plans” List of approved WBPs, and Appendix A: 2014 Final Integrated List of Waters, Sublists 1-5. The Department’s WBP website has also been updated (see <http://www.state.nj.us/dep/wms/bears/wbplans.htm>)

126. **Comment:** The 2014 Integrated Report states that the most effective method of addressing nonpoint source pollution and making meaningful strides towards water quality improvements is through watershed based plans (WBP). Taking the responsibility for reducing these pollutant loads from the regulatory or oversight arena and placing the water quality protections into a voluntary WBP places too much risk in unfunded, voluntary programs. While there is merit in a flexible approach to addressing water quality impairments, the mechanism for implementing these plans is still vague. As WBPs are voluntary and plan development is currently not a priority for 319(h) funds, who will develop the WBPs and how will their development be prioritized? Barnegat Bay currently has 96 AUs and 11 of those are covered by a WBP (the Metedeconk Watershed Plan). That plan took years to develop and lacked funding for any of the prioritized projects prior to hurricane Sandy. The commenters have concerns regarding the use of Watershed Based Plans (WBPs) to address impairments within watersheds that lack regulated point sources. (BBP, SBB)

**Response:** In Appendix G, “New Jersey’s Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program”, the Department recognizes watershed based plans and protection plans as additional water quality tools to restore and protect water quality and will continue to explore funding opportunities to develop new plans. Watershed restoration plans as well as TMDLs are identified in the WQMP rules as appropriate assessment approaches to address nonpoint source impacts. As with TMDLs, the Department may adopt watershed based plans and/or protection plans to the appropriate Water Quality Management Plan(s).

127. **Comment:** EPA’s Long-Term Vision incorporates the concept of adaptive management, placing emphasis on the need for States to take ownership and set their own priorities, including allowing flexibility for States to emphasize water resource protection efforts if, and how, they see fit. The Vision also promotes goals relating to the scope of future assessment, enhanced public engagement in the 303(d) process and integrated implementation among programs of the Clean Water Act, other statutory EPA programs, and programs of the Federal, State and local agencies. EPA Region 2 continues to work with NJDEP on the new 303(d) program Vision effort, which includes: Prioritization; Assessment; Protection; Alternatives; Engagement; and Integration. Based on discussions with NJDEP, the EPA Region 2 expected that the 2014 Integrated Reporting document would fulfill the Engagement goal of EPA’s Long-Term Vision. However, the NJDEP 2014 Integrated Reporting document does not outline any of the NJDEP’s prioritized waters or describe how the public and stakeholders were actively engaged, as demonstrated by documented, inclusive, transparent or consistent communication on the state’s framework or strategy for achieving its Vision goals. (USEPA)

**Response:** Because USEPA’s “Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program”<sup>4</sup> was not published until December 2013; the initial draft 2014 Integrated Report the Department did not include its new vision and strategy for defining and achieving New Jersey’s water quality goals under the new federal framework. Since then the Department has developed the “New Jersey’s Approach for Assessment, Restoration and Protection of Water Resources under the Clean Water Act Section 303(d) Program” found in Appendix G that articulates how the Department has continually refined the water quality assessment process to improve efficiencies in the process and achieve greater confidence in the assessment outcomes. The transition to a rotating basin approach is one example of improvements completed, along with automating data management and portions of the assessment process. The document also explains the Department’s plans to develop a process for prioritizing waters through public participation that engages stakeholders in an inclusive, transparent manner.

128. **Comment:** Many TMDLs that have been approved still need to be formally adopted. (COA)

**Response:** The Water Quality Management Planning Rules, N.J.A.C. 7:15, require the Department to adopt TMDLs as amendments to the applicable area wide Water Quality Management Plan (WQM plan) so they can serve as a basis for ensuring consistency of activities requiring certain permits or approvals with the WQM plan. However, TMDL implementation can commence as soon as USEPA issues its approval. All TMDLs that include a wasteload allocation intended for NJPDES permit implementation have been adopted by the Department. A table of all completed TMDLs and their approval/adoption status is available on the Department’s website at <http://www.state.nj.us/dep/wms/bears/tmdls.html>.

129. **Comment:** The U.S. Geological Survey (USGS) has confirmed that runoff from the developed landscape (and turf in particular) contributes substantially to nutrient loading in waterways. The failure of the N.J. Department of Agriculture to implement a soil restoration law is clearly limiting the efficacy of the state fertilizer law. We strongly encourage the DEP to work with the Department of Agriculture to take the steps necessary to ensure implementation of an effective soil restoration law. In addition, the USGS report makes clear the need to 1) control runoff from impervious surfaces, and 2) strengthen the requirements of the MS4 regulatory program to reduce non-point source loadings to the Barnegat Bay and other coastal waters. (BBP)

**Response:** This comment is beyond the scope of the Integrated Report. The Department recognizes the importance of promulgating standards for soil restoration and its relationship to water quality, which is why the Department participated in subcommittees formed by the State Soil Conservation Committee to formulate standards that will enhance soil restoration for specific proposed land uses as well as topsoiling and land grading standards through amendments to the rules for Soil Erosion and Sediment Control on Land Disturbance Activities at N.J.A.C. N.J.A.C. 2:90-1.3, 1.4, 1.9, and 1.14. These proposed amendments were published in the New Jersey Register on September 19, 2016 (see 48 N.J.R. 1847). Additional

---

<sup>4</sup> USEPA. [A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303\(d\) Program](http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/programvision.cfm). December 2013. <http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/programvision.cfm>.



information on this rule proposal is available on the Department of Agriculture’s website at <http://www.state.nj.us/agriculture/rule/>. The Department continues to address runoff from impervious surfaces through its Nonpoint Pollution Control Program, Nonpoint Source Program Plan, and Stormwater Management Regulation Program. Specifically, the Department is exploring different approaches to strengthen MS4 permits within the Barnegat Bay Watershed to help reduce nutrient loading to the Barnegat Bay. Information on these new approaches will be provided as updates to the Barnegat Bay Action Plan (see <http://www.nj.gov/dep/barnegatbay/>).

#### OTHER COMMENTS

130. **Comment:** On page 98, the website for the BBP (<http://bbp.ocean.edu>) is incorrectly listed as [www.bbep.org](http://www.bbep.org). (BBP)

**Response:** The BBP website address has been corrected in the Final 2014 Integrated Report.

#### AGENCY-INITIATED CHANGES

1. The Data Sources table provided in Appendix B of the Draft 2014 Integrated Report was revised to remove the row referencing only 2009 conventional chemical/physical data collected statewide by the NJDEP Bureau of Freshwater and Biological Monitoring. Data collected in 2009 is already cited in the prior row, which referenced such data collected between 2008–2012. Fish data collected by the NJDEP Bureau of Freshwater and Biological Monitoring was also added to the table.
2. The note above the table in Appendix A: Changes in Designated Use Assessment Results from 2012 Integrated List” was inadvertently cut off when the document was converted to PDF format for posting on the Department’s website. This document was corrected to include the entire note, which reads: “This table shows AUs whose designated use assessments changed from Not Supporting on the 2012 Integrated List to Fully Supporting or Insufficient Information on the 2014 Integrated List but the associated parameter assessment results remained the same. For example: In Hakhokake Creek (and to Hakhokake Ck), total phosphorus exceedances occurred in non-trout waters but attained the total phosphorus criterion in trout waters; therefore, the trout aquatic life use was changed to fully supporting. Phosphorus remains on the 303(d) List as a cause of general aquatic life use non-support.