

June 30, 2011**Category 4d of Iowa's final 2010 Integrated Report (IR).**

Category 4 waters: water is threatened or impaired but a TMDL is not needed.

Explanations of Subcategories for Integrated Report Category 4:**Category 4d:** water is impaired by a fish kill but enforcement actions have been taken against responsible party

Waterbodies are listed hydrologically by major basin and by subbasin (i.e., by waterbody ID number).

IR Category	ADB Code	Waterbody Name	Location Description	Water-body Type	Size (miles; acres)	4d Rationale
Northeast Iowa River Basins						
4d	IA 01-NEM-0081_0	Conduit Creek	mouth (T78N R05E Sec8) to headwaters (T79N R05E Sec30) Scott Co.	River	4.1	restitution sought & or received for August 2006 fish kill caused by manure discharge
4d	IA 01-NMQ-01415_0	Unnamed Tributary to Bear Creek	mouth (T90N R3W Sec30) to headwaters (T90N R4W Sec36) Delaware Co.	River	1.2	restitution sought & or received for August 2004 fish kill caused by open feedlot runoff
4d	IA 01-NMQ-0142_0	Unnamed Tributary to Bear Creek	mouth (T90N R3W Sec33) to headwaters (T90N R3W Sec32) Delaware Co	River	0.9	restitution sought & or received for August 2005 fish kill caused by open feedlot runoff
4d	IA 01-TRK-02415_0	Unnamed Tributary to Point Hollow Creek	mouth to headwaters (T90N R2W Sec9) Dubuque Co.	River	0.9	restitution sought & or received for August 2004 fish kill caused by open feedlot runoff
4d	IA 01-TRK-0277_0	West Branch South Cedar Creek	mouth (S31 T93N R3W Clayton Co.) to confluence with unnamed tributary in S23 T93N R4W Clayton Co	River	4.1	restitution sought & or received for August 2005 fish kill caused by manure discharge from dairy operation
4d	IA 01-TRK-02775_0	Unnamed Tributary to West Branch Cedar Creek	mouth (T93N R04W Sec 36 NW) to headwaters (T93N R04W Sec27 SE) Clayton Co	River	1.5	restitution sought & or received for August 2005 fish kill caused by manure discharge from dairy operation
4d	IA 01-TRK-0340_0	South Branch Fountain Spring Creek	mouth (SW 1/4 S10 T90N R4W Delaware Co.) to west line of SW 1/4 S16 T90N R4W Delaware Co.	River	2	restitution sought & or received for September 2008 fish kill caused by open feedlot runoff

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4d	IA 01-TRK-0360_3	Roberts Creek	from confluence with Silver Cr. (S16 T94N R5W Clayton Co.) to confluence with unnamed tributary in S8 T95N R6W Clayton Co.	River	15.3	restitution sought & or received for August 2005 fish kill caused release of hog manure from an over-full storage pit
4d	IA 01-TRK-0361_0	Roberts Creek	Confluence with unnamed tributary in S8 T95N R6W Clayton Co. to headwaters (T96N R6W Sec32 SW SE Allamakee Co)	River	2.2	restitution sought & or received for August 2005 fish kill caused release of hog manure from an over-full storage pit
4d	IA 01-TRK-0419_0	Dry Branch	confluence with unnamed tributary in the N 1/2 S4 T95N R8W Fayette Co. to headwaters	River	8.9	restitution sought & or received for May 2004 fish kill caused by fertilizer spill
4d	IA 01-UIA-0346_0	Unnamed Tributary to Unnamed Tributary to Ten Mile Creek	from mouth (T98N R09W Sec5) to headwaters (T99N R10W Sec35)	River	4.1	restitution sought & or received for August 2007 fish kill caused spill of dairy manure.
4d	IA 01-WPS-0180_1	Crane Creek	mouth (S26 T90N R11W Black Hawk Co. to confluence with unnamed tributary in NW 1/4 S24 T90N R12W Black Hawk Co.	River	8.6	restitution sought & or received for August 2005 fish kill caused by spill of nitrogen fertilizer
4d	IA 01-WPS-0185_0	Unnamed Tributary to Crane Creek	mouth (T90N R11W Sec19 SW NW Black Hawk Co) to headwaters (T91N R12W Sec12 NW SW Bremer Co)	River	9.4	restitution sought & or received for August 2005 fish kill caused by spill of nitrogen fertilizer
Iowa-Cedar River Basin						
4d	IA 02-CED-0220_2	Prairie Creek	from confluence with Mud Cr. (S21 T82N R9W Benton Co.) to confluence with unnamed tributary in S13 T83N R12W Benton Co.	River	20.8	restitution sought & or received for July 2006 fish kill caused by open feedlot runoff
4d	IA 02-IOW-0086_0	Otter Creek	from confluence with unnamed tributary(T73N R3W Sec4 Louisa Co.) to headwaters (T73N R4W Sec16 Louisa Co.)	River	12.4	restitution sought & or received for August 2007 fish kill caused by a manure spill from hog confinement operation

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4d	IA 02-IOW-01885_0	Unnamed Tributary to Walnut Creek	mouth to headwaters Poweshiek Co	River	1.2	restitution sought & or received for March 2005 fish kill caused a trencher that ruptured a fuel pipeline
4d	IA 02-IOW-0342_0	School Creek	mouth (S28 T89N R20W Hardin Co.) to confluence with unnamed tributary in S16 T89N R20W Hardin Co.	River	2	restitution sought & or received for July 2006 fish kill caused by a spill that contained fatty acids, glycerin, and soybean oil.
4d	IA 02-IOW-0450_0	Short Creek	from mouth (T75N R04W Sec19) to headwaters(T75N R06W Sec3)	River	13.4	restitution sought & or received for August 2007 fish kill caused by a manure spill an open hog feedlot
4d	IA 02-IOW-0451_0	Unnamed Tributary to Short Creek	from mouth (T75N R04W Sec19) to headwaters(T75N R05W Sec36)	River	3	restitution sought & or received for June 2007 fish kill caused by a manure release from an abandoned hog confinement operation
4d	IA 02-WFC-0150_0	Unnamed Tributary to West Fork Cedar River	mouth to headwaters Franklin Co	River	8.2	restitution sought & or received for June 2005 fish kill caused by a spill of ammonia fertilizer
Skunk River Basin						
4d & 4c	IA 03-NSK-0030_0	North Skunk River	from confluence with Sugar Cr. (S20 T78N R16W Poweshiek Co.) to confluence with Snipe Cr. in S22 T81N R19W Jasper Co.	River	47.1	restitution sought & or received for August 2006 fish kill caused by runoff from an open hog feedlot
4d	IA 03-SKU-0116_0	Crow Creek	from tributary(T72N R9W 31) to headwaters (T72N R10W Sec11); Jefferson Co. near Fairfield	River	5.7	restitution sought & or received for September 2007 fish kill caused by discharge of fertilizer and pesticides from a fertilizer plant
4d	IA 03-SKU-01651_0	Unnamed Tributary to Unnamed Tributary to Richland Creek	from mouth (T74N R10W Sec32) to headwaters (T73N R11W Sec12)	River	0.7	restitution sought & or received for May 2008 fish kill caused by discharge of liquid hog manure

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4d	IA 03-SSK-0130_0	Unnamed Tributary to South Skunk River	from mouth (T86N R24W Sec24) to headwaters (T86N R23W Sec17) Hamilton Co.	River	2.9	restitution sought & or received for November 2007 fish kill caused by animal waste from a hog confinement
Des Moines River Basin						
4d	IA 04-LDM-0119_0	Sugar Creek	mouth (NE 1/4 S32 T72N R13W Wapello Co.) to headwaters in S6 T72N R13W Wapello Co.	River	6.2	restitution sought & or received for June 2004 fish kill caused by spill of an industrial chemical (sulfuric acid)
4d	IA 04-RAC-0130_2	Lake Creek	E In S12T86NR34W to DD-65/9&13 Calhoun	River	20.3	restitution sought & or received for August 2006 fish kill caused by manure runoff
4d	IA 04-RAC-01700_0	Lateral 6	from mouth (T92N R36W Sec17) to headwaters (T92N R37W Sec4) Buena Vista Co.	River	7.1	restitution sought & or received for August 2007 fish kill caused by a spill from an industrial truck wash lagoon
4d	IA 04-UDM-0240_2	Eagle Creek	DD 9->L Eagle Cr S9T91NR25W Wright Co	River	5.6	restitution sought & or received for August 2008 fish kill caused by discharge of liquid fertilizer
4d	IA 04-UDM-02415_0	Little Eagle Creek	from mouth (T91N R25W Sec9) to headwaters (T93N R25W Sec36)	River	9.8	restitution sought & or received for August 2008 fish kill caused by discharge of liquid fertilizer
4d	IA 04-UDM-02417_0	Unnamed Tributary to Little Eagle Creek	from mouth (T92N R25W Sec34) to headwaters (T92N R25W Sec35)	River	0.9	restitution sought & or received for August 2008 fish kill caused by discharge of liquid fertilizer
Southern Iowa River Basins						
4d	IA 05-NSH-0034_0	Mill Creek	Confluence with trib S15T67NR41W Fremont Co. to headwaters	River	9.8	restitution sought & or received for August 2008 fish kill caused by discharge of liquid fertilizer
Western Iowa River Basins						
4d	IA 06-BOY-0025_0	Picayune Creek	mouth to headwaters	River	16.3	restitution sought & or received for a November 2004 fish kill caused by spill of ammonia fertilizer

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4d	IA 06-BOY-0045_0	Elk Creek	mouth (T80N R43W Sec11 Harrison Co.) to headwaters (T81N R42W Sec7) Harrison Co.	River	8.4	restitution sought & or received for a March 2007 fish kill caused by spill of hog manure
4d	IA 06-BSR-0095_0	Moon Creek	mouth to headwaters	River	6.7	restitution sought & or received for a March 2004 fish kill caused by runoff of animal waste from an open feedlot
4d	IA 06-LSR-0125_0	New Farmer Ditch (AKA Garretson Outlet Ditch)	from mouth (T84N R45W Sec12) to headwaters (T85N R45W Sec5) Monona Co.	River	9.1	restitution sought & or received for an August 2007 fish kill caused by herbicides used to control aquatic vegetation
4d	IA 06-LSR-01485_0	Unnamed Tributary to Pierson Creek	mouth to headwaters	River	7.8	restitution sought & or received for a November 2004 fish kill caused by spill of ammonia fertilizer
4d	IA 06-LSR-01487_0	Unnamed Tributary to Unnamed Tributary to Pierson Creek	mouth to headwaters	River	5.9	restitution sought & or received for a November 2004 fish kill caused by spill of ammonia fertilizer
4d	IA 06-LSR-0185_0	Mud Creek	from mouth (T94N R41W Sec17) to headwaters (T94N R42W Sec5)	River	14.5	restitution sought & or received for a July 2008 fish kill caused by leachate of dairy waste into a storm water ditch that discharges to Mud Creek.
4d	IA 06-LSR-0271_0	Stony Creek	Trib S27T98NR38W Dickinson Co. to Stony Lake	River	7	restitution sought & or received for an August 2006 fish kill caused by animal waste

4d: 38
4d & 4c: 1
Total: 39