

Appendix D: Impairment Cause Changes from 2002 to 2004.

Planning Area	Major Basin	HUC #	ID Number	Segment Name - Description	Listed Cause	Drop / Add
Beaverhead	Upper Missouri	10020002	MT41B001_020	BEAVERHEAD RIVER from Grasshopper Cr to mouth (Jefferson R)	Mercury	-
					Metals	-
					Riparian degradation	+
					Thermal modifications	+
Ruby	Upper Missouri	10020003	MT41C002_030	INDIAN CREEK from headwaters to mouth (Mill Cr-Ruby R)	Dewatering	+
					Fish habitat degradation	+
					Flow alteration	+
					Other habitat alterations	+
Ruby	Upper Missouri	10020003	MT41C002_050	RAMSHORN CREEK from headwaters to mouth (Ruby R)	Riparian degradation	+
					Lead	+
					Metals	+
					Siltation	+
Ruby	Upper Missouri	10020003	MT41C002_090	CALIFORNIA CREEK tributary of Ruby R T-5S R-4W	Bank erosion	+
					Other habitat alterations	+
					Siltation	+
					Riparian degradation	+
Ruby	Upper Missouri	10020003	MT41C002_100	GARDEN CREEK, Headwaters to mouth at Ruby Reservoir	Bank erosion	+
					Other habitat alterations	+
					Riparian degradation	+
					Other habitat alterations	+
Ruby	Upper Missouri	10020003	MT41C002_110	MORMAN CREEK, Headwaters to mouth (Upper end of Ruby R Reservoir)	Siltation	+
					Bank erosion	+
					Other habitat alterations	+
					Riparian degradation	+
Ruby	Upper Missouri	10020003	MT41C003_020	COAL CREEK from headwaters to mouth (Middle Fork Ruby R)	Thermal modifications	+
					Bank erosion	+
					Other habitat alterations	+
					Riparian degradation	+
Ruby	Upper Missouri	10020003	MT41C003_050	WARM SPRINGS CREEK from headwaters to mouth (Ruby R)	Bank erosion	+
					Other habitat alterations	+
					Riparian degradation	+
					Siltation	+
N.F. Big Hole	Upper Missouri	10020004	MT41D004_060	TIE CREEK from headwaters to mouth (North Fork Big Hole R)	Copper	-
					Metals	-
					Other habitat alterations	+
					Lead	-
Lower Gallatin	Upper Missouri	10020008	MT41H001_010	GALLATIN RIVER from Spanish Cr to the mouth (Missouri R)	Metals	-
Teton	Lower Missouri	10030205	MT41O002_020	DEEP CREEK from Willow Cr to the mouth (Teton R)	Bank erosion	-
Bullwhacker-Dog	Lower Missouri	10040101	MT41T002_020	DOG CREEK from Cutbank Cr to the mouth (Missouri R)	Siltation	+
					Nutrients	+
					Cyanide	+
					Metals	+
Judith - Arrow	Lower Missouri	10040103	MT41S002_100	LAST CHANCE CREEK headwaters to mouth (Moccasin cr)	Selenium	+
					Metals	+
					PCB's	+
					Nutrients	+
Big Springs	Lower Missouri	10040103	MT41S004_010	BIG SPRING CREEK from East Fork Big Spring Cr to Casino Cr	Cadmium	+
Landusky	Lower Missouri	10040104	MT40E002_010	MONTANA GULCH, Headwaters (Gold Bug & Yellow Boy Mine Adits) to mouth (Rock Cr)	Zinc	-
					Nitrate	-
Landusky	Lower Missouri	10040104	MT40E002_050	ALDER GULCH T26N R24E SEC 13 TO T26N R25E SEC 16. Headwaters to Ruby Cr.	Nutrients	-
					Metals	-
Big & Little Dry	Lower Missouri	10040105	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	Other habitat alterations	+
					Riparian degradation	+
					Arsenic	+
					Cadmium	+
Landusky	Lower Missouri	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation	Metals	+
					Zinc	+
					Metals	+
					Zinc	+

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Landusky	Lower Missouri	10050009	MT40I001_050	LODGE POLE CREEK headwaters to Fort Belknap Reservation boundary	Cadmium	+
					Cause Unknown	+
					Mercury	+
					Metals	+
					Other habitat alterations	+
Paradise	Yellowstone	10070001	MT43B002_010	REESE CREEK from the state border to the mouth (Yellowstone R)	Riparian degradation	+
					Dewatering	-
					Flow alteration	-
Paradise	Yellowstone	10070002	MT43B004_120	MOL HERON CREEK, Yellowstone National Park boundary to mouth (Yellowstone R)	Other habitat alterations	+
					Nonpriority organics	-
Boulder - Big Timber	Yellowstone	10070002	MT43B004_131	BOULDER RIVER from the mouth (Yellowstone R) five miles upstream	Thermal modifications	-
					Dewatering	-
Boulder - Big Timber	Yellowstone	10070002	MT43B004_142	EAST BOULDER RIVER from NF boundary to Elk Cr	Metals	+
Clarks Fork Yellowstone	Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Cr to mouth (Yellowstone R)	Flow alteration	+
					Algal Grwth/Chlorophyll a	+
					Nutrients	+
					Other habitat alterations	+
Fisher	Columbia	17010102	MT76C001_010	FISHER RIVER from the Silver Butte / Pleasant Valley junction to the mouth (Kootenai R)	Suspended solids	+
					Nutrients	-
					Other	-
					Salinity/TDS/chlorides	-
Upper Clark Fork	Columbia	17010201	MT76G003_030	GERMAN GULCH headwaters to mouth (Silver Bow Cr)	Siltation	-
Upper Clark Fork	Columbia	17010201	MT76G003_031	BEEFSTRAIGHT CREEK Minnesota Gulch to mouth (German Gulch)	Selenium	+
Rock	Columbia	17010202	MT76E002_010	ROCK CREEK mainstem from headwaters to mouth (Clark Fork)	Cyanide	+
					Metals	-
					Other habitat alterations	-
Flint	Columbia	17010202	MT76E003_012	FLINT CREEK from Boulder Cr to mouth (Clark Fork)	Siltation	-
					Phosphorus	-
Lower Blackfoot	Columbia	17010203	MT76F001_033	BLACKFOOT RIVER from Belmont Cr. to mouth (Clark Fork)	Metals	-
					Total toxics	-
					Unionized Ammonia	+
Middle Blackfoot	Columbia	17010203	MT76F005_060	BLANCHARD CREEK from the North Fork to the mouth (Clearwater R)	Flow alteration	+
Middle Clark Fork	Columbia	17010204	MT76M001_010	CLARK FORK RIVER from the Flathead R to Fish Cr	Cadmium	-
					Lead	+
Middle Clark Fork	Columbia	17010204	MT76M001_020	CLARK FORK RIVER from Fish Cr to Rattlesnake Cr	Phosphorus	+
					Copper	+
Bitterroot	Columbia	17010205	MT76H001_010	BITTERROOT RIVER from the east and west forks to Skalkaho Cr	Metals	+
					Copper	+
Lolo	Columbia	17010205	MT76H001_030	BITTERROOT RIVER from Eightmile Cr to the mouth (Clark Fork R)	Lead	+
					Metals	+
					Metals	+
Bitterroot	Columbia	17010205	MT76H004_190	RYE CREEK, No Fork to mouth (Bitterroot R)	Nitrogen	+
					Phosphorus	+
Bitterroot	Columbia	17010205	MT76H005_080	NORTH CREEK, from headwaters to mouth (Granite Cr)	Other habitat alterations	-
					Siltation	-
					Flow alteration	+
Flathead - Stillwater	Columbia	17010210	MT76P001_030	LOGAN CREEK above Tally Lake	Other habitat alterations	+
					Siltation	+
Prospect Creek	Columbia	17010213	MT76N003_020	PROSPECT CREEK from headwaters to the mouth (Clark Fork R)	Salinity/TDS/sulfates	-
Prospect Creek	Columbia	17010213	MT76N003_021	ANTIMONY CREEK DRAINAGE headwaters to mouth (Prospect Creek)	Arsenic	+
					Lead	+

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					Metals	+
Prospect Creek	Columbia	17010213	MT76N003_022	COX GULCH headwaters to mouth (Prospect Cr)	Lead	+
					Metals	+
Thompson	Columbia	17010213	MT76N005_010	FISHTRAP CREEK from headwaters to the mouth (Thompson R)	Other habitat alterations	+
					Siltation	+