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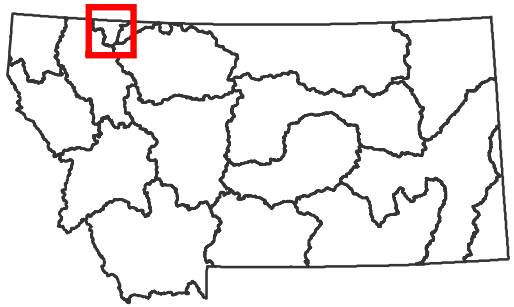
	17010212	Lower Flathead
	17010213	Lower Clark Fork

St Mary Sub-Major Basin

Missouri River Basin

USGS HUC	HUC NAME
10010001	Belly River
10010002	Saint Mary River



Montana Department of Environmental Quality

Appendix A: Impaired Waters

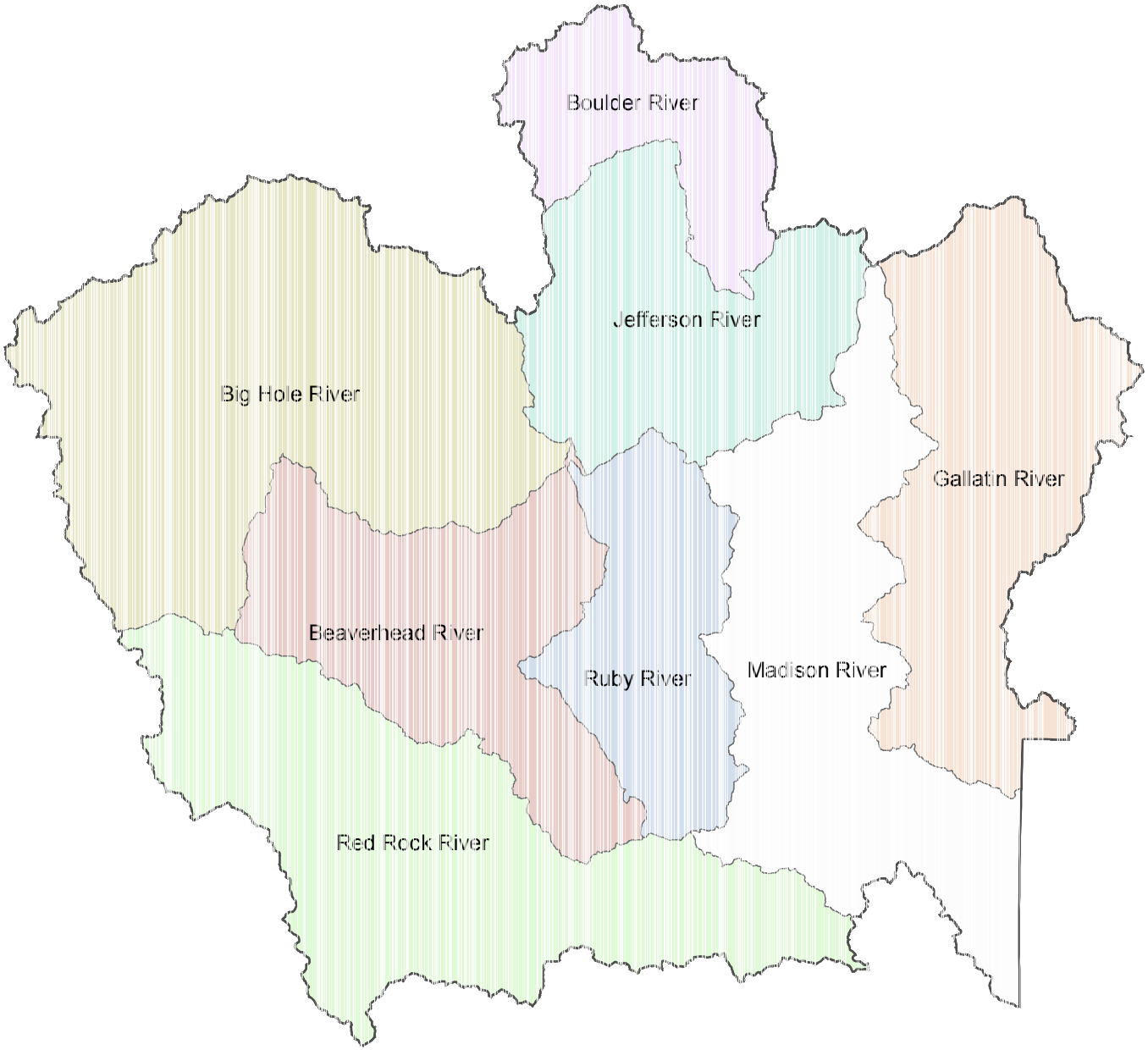
HUC 10010002 St. Mary **Watershed** Saint Mary

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT40T002_010	DIVIDE CREEK, headwaters to mouth (Saint Mary River)	4C	10.55	MILES	A-1	P	P		F	F	X	X	Alterations in wetland habitats	Channelization
														Other anthropogenic substrate alterations	Highways, Roads, Bridges, Infrasturcture (New Construction)
															Site Clearance (Land Development or Redevelopment)

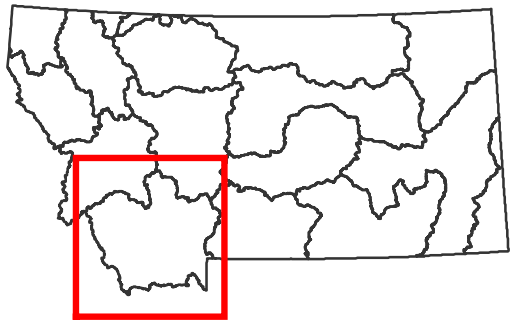
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Upper Missouri Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10020001	Red Rock River
10020002	Beaverhead River
10020003	Ruby River
10020004	Big Hole River
10020005	Jefferson River
10020006	Boulder River
10020007	Madison River
10020008	Gallatin River



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 10020001 Red Rock **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark Canyon Reservoir	5	51.81	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat
Red Rock	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	5	43.82	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A002_010	CLARK CANYON RESERVOIR	4C	4888	ACRES	B-1	P	F		F	F	F	P	Other flow regime alterations	Drought-related Impacts Irrigated Crop Production
Red Rock	MT41A003_010	MEDICINE LODGE CREEK, headwaters to mouth (Horse Prairie Creek)	5	34.64	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Red Rock	MT41A003_020	MUDDY CREEK, confluence of Sourdough and Wilson Creek to mouth (Big Sheep Creek), T14S R10W S10	5	11.08	MILES	B-1	P	P		F	F	F	P	Turbidity	Agriculture Streambank Modifications/destablization
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	5	46.67	MILES	B-1	N	N		F	F	N	P	Arsenic Cadmium Copper Lead Low flow alterations	Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10020001 Red Rock **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	5	46.67	MILES	B-1	N	N		F	F	N	P	Mercury	
														Zinc	
Red Rock	MT41A003_100	BLOODY DICK CREEK, headwaters to mouth (Horse Prairie Creek)	5	30.32	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	
														Total Kjehldahl Nitrogen (TKN)	
Red Rock	MT41A003_150	SHEEP CREEK, Muddy Creek to mouth (Red Rock River)	5	10.98	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Excess Algal Growth	Irrigated Crop Production
														Low flow alterations	Other Recreational Pollution Sources
														Nonnative Fish, Shellfish, or Zooplankton	
														Sedimentation/Siltation	
Red Rock	MT41A004_010	PRICE CREEK, headwaters to mouth (Red Rock River)	5	10.52	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
														Other flow regime alterations	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	
Red Rock	MT41A004_030	FISH CREEK, headwaters to mouth (Metzel Creek)	5	7.88	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	Unspecified Unpaved Road or Trail
														Sedimentation/Siltation	
Red Rock	MT41A004_040	CORRAL CREEK, headwaters to mouth (Red Rock Creek)	5	4.29	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Unspecified Unpaved Road or Trail
														Sedimentation/Siltation	
Red Rock	MT41A004_050	EAST FORK CLOVER CREEK, headwaters to mouth (Clover Creek)	5	5.78	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	
														Sedimentation/Siltation	
Red Rock	MT41A004_060	HELL ROARING CREEK, headwaters to mouth (Red Rock River)	4C	10.17	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A004_070	LONG CREEK, headwaters to mouth (Red Rock River)	5	23.94	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Other flow regime alterations	Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10020001 Red Rock **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A004_070	LONG CREEK, headwaters to mouth (Red Rock River)	5	23.94	MILES	B-1	N	N		F	F	F	P	Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Red Rock	MT41A004_080	O'DELL CREEK, headwaters to mouth (Lower Red Rock Lake)	5	16.09	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Turbidity	Agriculture Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat
Red Rock	MT41A004_090	PEET CREEK, headwaters to mouth (Red Rock River)	5	10.13	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Red Rock	MT41A004_100	TOM CREEK, headwaters to mouth (Upper Red Rock Lake)	5	6.6	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Red Rock	MT41A004_110	RED ROCK CREEK, headwaters to mouth (Upper Red Rock Lake)	5	18.38	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Turbidity	Agriculture Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat
Red Rock	MT41A004_130	JONES CREEK, headwaters to Winslow Creek	5	8.33	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Red Rock	MT41A004_140	BEAN CREEK, headwaters to Mouth (Red Rock River), T14S R3E S7	5	6.62	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Channelization Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	1126	ACRES	B-1	N	N		X	X	X	N	Other flow regime alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones

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Appendix A: Impaired Waters

HUC 10020001 Red Rock **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	1126	ACRES	B-1	N	N		X	X	X	N		Low Water Crossing
															Rangeland Grazing
															Upstream Source
Red Rock	MT41A005_030	UPPER RED ROCK LAKE	5	2206.1	ACRES	B-1	N	N		X	X	X	N	Other flow regime alterations	Agriculture
														Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
															Rangeland Grazing
															Upstream Source

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Appendix A: Impaired Waters

HUC 10020002 Beaverhead **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B001_010	BEAVERHEAD RIVER, Clark Canyon Dam to Grasshopper Creek	5	12.32	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations	Agriculture Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Beaverhead	MT41B001_020	BEAVERHEAD RIVER, Grasshopper Creek to mouth (Jefferson River)	5	66.04	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)
Beaverhead	MT41B002_010	GRASSHOPPER CREEK, headwaters to mouth (Beaverhead River)	5	60.18	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Low flow alterations Zinc	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mine Tailings Streambank Modifications/destablization
Beaverhead	MT41B002_020	FARLIN CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S7	5	6.1	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_030	BLACKTAIL DEER CREEK, headwaters to mouth (Beaverhead River)	5	42.88	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Temperature, water	Channelization Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Livestock (Grazing or Feeding Operations)
Beaverhead	MT41B002_040	EAST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	4C	21.24	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	5	19.07	MILES	B-1	P	P		N	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones

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Appendix A: Impaired Waters

HUC 10020002 Beaverhead **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	5	19.07	MILES	B-1	P	P		N	F	N	P	Chlorophyll-a Sedimentation/Siltation	Mine Tailings
Beaverhead	MT41B002_070	WEST FORK DYCE CREEK, headwaters to mouth (Dyce Creek)	5	3.95	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Manganese Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Placer Mining Silviculture Harvesting
Beaverhead	MT41B002_080	SPRING CREEK, headwaters to mouth (Beaverhead River)	5	15.67	MILES	B-1	P	P		P	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Low flow alterations Nitrogen (Total) Sedimentation/Siltation	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Beaverhead	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	5	9.52	MILES	B-1	P	P		F	F	N	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Subsurface (Hardrock) Minining
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	5	17.95	MILES	A-1	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Nitrogen (Total)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Subsurface (Hardrock) Minining

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Appendix A: Impaired Waters

HUC 10020002 Beaverhead **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	5	17.95	MILES	A-1	P	P		F	F	N	F	Phosphorus (Total) Sedimentation/Siltation	
Beaverhead	MT41B002_100	FRENCH CREEK, headwaters to mouth (Rattlesnake Creek)	5	6.55	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_110	CLARK CANYON CREEK, headwaters to mouth (Beaverhead River), T9S R10W S28	5	8.07	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	5	12.76	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	5	6.53	MILES	B-1	P	P		P	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Agriculture Crop Production (Crop Land or Dry Land) Surface Mining Unspecified Unpaved Road or Trail
Beaverhead	MT41B002_132	STONE CREEK, Left Fork and Middle Fork to confluence of un-named tributary, T6S R7W S34	5	7.07	MILES	B-1	P	P		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrates Sedimentation/Siltation Turbidity	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastrucrture (New Construction) Irrigated Crop Production
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	5	4.13	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production

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Appendix A: Impaired Waters

HUC 10020002 Beaverhead **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	5	4.13	MILES	B-1	P	P		F	F	F	P	Total Kjehldahl Nitrogen (TKN)	
Beaverhead	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscol Creek), T6S R12W S18	5	3.66	MILES	B-1	N	N		P	N	N	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Arsenic	Subsurface (Hardrock) Minining
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Solids (Suspended/Bedload)	
Beaverhead	MT41B002_170	TAYLOR CREEK, headwaters to mouth (Grasshopper Creek)	5	11.73	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Beaverhead	MT41B002_180	SCUDDER CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S19	5	5.62	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Nitrogen (Total)	
														Sedimentation/Siltation	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10020003 Ruby **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ruby	MT41C001_010	RUBY RIVER, Ruby Dam to mouth (Beaverhead River)	5	48.03	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Ruby	MT41C001_020	RUBY RIVER, confluence of East, West, and Middle Forks to Ruby Reservoir	5	41.79	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Ruby	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	5	13.14	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Low flow alterations Mercury Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mine Tailings Unspecified Unpaved Road or Trail
Ruby	MT41C002_020	MILL CREEK, headwaters to mouth (Ruby River)	5	21.68	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Unspecified Unpaved Road or Trail
Ruby	MT41C002_030	INDIAN CREEK, headwaters to mouth (Leonard Slough)	4A	12.44	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Unspecified Unpaved Road or Trail
Ruby	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	5	20.65	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Dredge Mining

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HUC 10020003 Ruby **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ruby	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	5	20.65	MILES	B-1	N	N		F	F	F	P	Chlorophyll-a Lead Manganese Mercury Physical substrate habitat alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Mill Tailings Mine Tailings Placer Mining
Ruby	MT41C002_050	RAMSHORN CREEK, headwaters to mouth (Ruby River)	5	15.2	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mine Tailings Placer Mining Unspecified Unpaved Road or Trail
Ruby	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	5	3.72	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Mine Tailings Unspecified Unpaved Road or Trail
Ruby	MT41C002_090	CALIFORNIA CREEK, headwaters to mouth (Ruby River), T5S R4W S30	5	10.94	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Placer Mining
Ruby	MT41C002_100	GARDEN CREEK, headwaters to mouth (Ruby Reservoir)	5	7.72	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail

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HUC 10020003 Ruby **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ruby	MT41C002_110	MORMON CREEK, headwaters to mouth (Upper end of Ruby River Reservoir)	5	7.86	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_020	COAL CREEK, headwaters to mouth (Middle Fork Ruby River)	4A	9.35	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_030	COTTONWOOD CREEK, headwaters to mouth (Ruby River)	5	11.15	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Irrigated Crop Production Rangeland Grazing Unspecified Unpaved Road or Trail
Ruby	MT41C003_040	EAST FORK RUBY RIVER, headwaters to mouth (Ruby River)	5	10.3	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_050	WARM SPRINGS CREEK, headwaters to mouth (Ruby River)	4A	8.48	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Ruby	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	5	24.72	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Temperature, water	Irrigated Crop Production Rangeland Grazing Unspecified Unpaved Road or Trail
Ruby	MT41C003_080	WEST FORK RUBY RIVER, headwaters to mouth (Ruby River)	4A	7.92	MILES	B-1	F	P		F	F	F	F	Sedimentation/Siltation	Rangeland Grazing
Ruby	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	5	11.82	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

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HUC 10020003 Ruby **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ruby	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	5	11.82	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Unspecified Unpaved Road or Trail
Ruby	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	5	6.2	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Cadmium Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Natural Sources Placer Mining Rangeland Grazing
Ruby	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	5	5.4	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	5	5.62	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_140	HAWKEYE CREEK, headwaters to mouth (Middle Fork Ruby River)	5	4.23	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones Source Unknown
Ruby	MT41C003_150	SHOVEL CREEK, headwaters to mouth (Cabin Creek)	4A	5.61	MILES	B-1	F	P		F	F	F	F	Sedimentation/Siltation	Rangeland Grazing

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Big Hole	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	5	49.27	MILES	B-1	N	N		F	F	N	P	Cadmium Copper Lead Low flow alterations Physical substrate habitat alterations Temperature, water Zinc	Acid Mine Drainage Dam Construction (Other than Upstream Flood Control Projects) Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Streambank Modifications/destablization
Middle Big Hole	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	4A	44.39	MILES	A-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Copper Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Rangeland Grazing
Upper Big Hole	MT41D001_030	BIG HOLE RIVER, headwaters to Pintlar Creek	4A	65.16	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Temperature, water	Agriculture Highways, Roads, Bridges, Infrasturcture (New Construction) Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	4A	18.98	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead	Acid Mine Drainage Channelization Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	4A	18.98	MILES	B-1	N	N		F	F	N	P	Low flow alterations	Irrigated Crop Production
														Physical substrate habitat alterations	Mine Tailings
														Sedimentation/Siltation	Unspecified Unpaved Road or Trail
														Zinc	
Lower Big Hole	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	5	15.6	MILES	B-1	P	P		P	P	N	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Arsenic	Impacts from Abandoned Mine Lands (Inactive)
														Low flow alterations	Irrigated Crop Production
														Nitrogen (Total)	Unspecified Unpaved Road or Trail
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Solids (Suspended/Bedload)	
Lower Big Hole	MT41D002_030	CANYON CREEK, headwaters to mouth (Big Hole River)	4C	18.41	MILES	B-1	X	X		X	F	X	P	Low flow alterations	Agriculture
															Irrigated Crop Production
Lower Big Hole	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	4A	13.99	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Low flow alterations	Flow Alterations from Water Diversions
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	
Lower Big Hole	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	4A	16.99	MILES	B-1	N	N		X	F	X	P	Low flow alterations	Irrigated Crop Production
														Sedimentation/Siltation	
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	4A	4.93	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Nitrogen (Total)	Crop Production (Crop Land or Dry Land)
														Other flow regime alterations	Unspecified Unpaved Road or Trail
														Phosphorus (Total)	

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	4A	4.93	MILES	B-1	P	P		F	F	F	P	Sedimentation/Siltation	
Lower Big Hole	MT41D002_070	SASSMAN GULCH, headwaters to the end of the stream reach in T4S R9W S9	5	3.89	MILES	B-1	N	N		F	F	F	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
Lower Big Hole	MT41D002_090	BIRCH CREEK, headwaters to National Forest Boundary	4A	13.91	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization
Lower Big Hole	MT41D002_100	BIRCH CREEK, National Forest Boundary to mouth (Big Hole River)	4A	10.67	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Channelization Dam or Impoundment Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Lower Big Hole	MT41D002_110	WILLOW CREEK, headwaters to mouth (Big Hole River), T4S R8W S1	4C	23.39	MILES	B-1	X	X		X	X	X	P	Low flow alterations	Agriculture Irrigated Crop Production
Lower Big Hole	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	5	4.09	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Bottom Deposits Copper Lead Mercury Phosphorus (Total)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Subsurface (Hardrock) Minining
Lower Big Hole	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	4A	8.24	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	5	4.06	MILES	A-1	P	P		F	F	F	F	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	5	4.06	MILES	A-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	4A	14.92	MILES	B-1	P	P		F	F	N	F	Arsenic Copper Lead Mercury Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Minining
Lower Big Hole	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	4A	7.84	MILES	B-1	P	P		P	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Mine Tailings Rangeland Grazing Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	5	12.69	MILES	A-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Copper Excess Algal Growth Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems) Rangeland Grazing Silviculture Activities Site Clearance (Land Development or Redevelopment)
Middle Big Hole	MT41D003_030	DELANO CREEK, headwaters to mouth (Jerry Creek)	4A	2.32	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Middle Big Hole	MT41D003_040	DEEP CREEK, headwaters to mouth (Big	4A	9.21	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral	Irrigated Crop Production

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D003_040	DEEP CREEK, headwaters to mouth (Big Hole River)	4A	9.21	MILES	A-1	P	P		F	F	F	F	vegetative covers	Rangeland Grazing
														Low flow alterations	Streambank Modifications/destablization
														Sedimentation/Siltation	
Middle Big Hole	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	4A	10.08	MILES	A-1	N	N		X	F	N	X	Arsenic	Acid Mine Drainage
														Copper	Atmospheric Depositon - Toxics
														Sedimentation/Siltation	Contaminated Sediments
															Impacts from Abandoned Mine Lands (Inactive)
Middle Big Hole	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	5	8.28	MILES	B-1	N	N		N	P	N	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Arsenic	Atmospheric Depositon - Toxics
														Copper	Contaminated Sediments
														Iron	Grazing in Riparian or Shoreline Zones
														Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
														Other anthropogenic substrate alterations	Impacts from Hydrostructure Flow Regulation/modification
														Physical substrate habitat alterations	Irrigated Crop Production
														Sedimentation/Siltation	Natural Sources
														Turbidity	Placer Mining
															Rangeland Grazing
															Silviculture Activities
															Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	5	3.09	MILES	A-1	N	N		N	F	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
														Arsenic	Agriculture
														Copper	Atmospheric Depositon - Toxics
														Lead	Channelization
														Other anthropogenic substrate alterations	Dredge Mining
														Physical substrate habitat alterations	Erosion from Derelict Land (Barren Land)
														Sedimentation/Siltation	Forest Roads (Road Construction and Use)
															Highways, Roads, Bridges, Infrasturcture (New Construction)

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	5	3.09	MILES	A-1	N	N		N	F	N	F		Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Mine Tailings Natural Sources Silviculture Activities Streambank Modifications/destablization Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_090	SIXMILE CREEK, headwaters to mouth (California Creek)	4A	4.4	MILES	A-1	P	P		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Rangeland Grazing Silviculture Activities Streambank Modifications/destablization Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_110	SEVENMILE CREEK, headwaters to mouth (Deep Creek)	4A	6.43	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Natural Sources Rangeland Grazing Streambank Modifications/destablization
Middle Big Hole	MT41D003_120	TWELVEMILE CREEK, headwaters to mouth (Deep Creek)	5	9.09	MILES	A-1	P	P		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Middle Big Hole	MT41D003_130	CORRAL CREEK, headwaters to mouth (Deep Creek)	4A	5.2	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation	Natural Sources Rangeland Grazing Silviculture Activities
Middle Big Hole	MT41D003_160	FISHTRAP CREEK, confluence of West & Middle Forks to mouth (Big Hole River)	5	5.85	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
Middle Big Hole	MT41D003_170	PINTLAR CREEK, headwaters to mouth (Big Hole River)	5	21.25	MILES	A-1	P	P		F	F	F	P	Low flow alterations Other flow regime alterations	Grazing in Riparian or Shoreline Zones

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D003_170	PINTLAR CREEK, headwaters to mouth (Big Hole River)	5	21.25	MILES	A-1	P	P		F	F	F	P	Physical substrate habitat alterations Temperature, water	Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Natural Sources
Middle Big Hole	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	4A	26.67	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing
Middle Big Hole	MT41D003_210	PATTENGAIL CREEK, headwaters to mouth (Wise River)	4A	20.04	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation	Dam Construction (Other than Upstream Flood Control Projects) Highways, Roads, Bridges, Infrasturcture (New Construction)
Middle Big Hole	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	4A	7.52	MILES	A-1	N	N		F	F	F	F	Arsenic Cadmium Copper Lead Sedimentation/Siltation Zinc	Impacts from Abandoned Mine Lands (Inactive) Mill Tailings Mine Tailings
Middle Big Hole	MT41D003_230	GOLD CREEK, headwaters to mouth (Wise River)	5	4.92	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
North Fork Big Hole	MT41D004_010	NORTH FORK BIG HOLE RIVER, headwaters to mouth (Big Hole River)	4A	25.92	MILES	A-1	P	P		X	X	X	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
North Fork Big Hole	MT41D004_010	NORTH FORK BIG HOLE RIVER, headwaters to mouth (Big Hole River)	4A	25.92	MILES	A-1	P	P		X	X	X	P	Low flow alterations Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Loss of Riparian Habitat Silviculture Activities
North Fork Big Hole	MT41D004_020	MUSSIGBROD CREEK, headwaters to mouth (North Fork Big Hole River)	5	14.62	MILES	A-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Natural Sources Rangeland Grazing
North Fork Big Hole	MT41D004_030	JOHNSON CREEK, headwaters to mouth (North Fork Big Hole River)	5	15.7	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Harvesting
North Fork Big Hole	MT41D004_040	SCHULTZ CREEK, headwaters to mouth (Johnson Creek)	5	3.28	MILES	A-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting
North Fork Big Hole	MT41D004_060	TIE CREEK, headwaters to mouth (North Fork Big Hole River)	5	16.49	MILES	A-1	P	P		F	F	F	F	Nitrogen (Total) Physical substrate habitat alterations Sedimentation/Siltation	Rangeland Grazing Silviculture Activities Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	4A	13.07	MILES	A-1	N	N		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities

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Appendix A: Impaired Waters

HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
North Fork Big Hole	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	4A	13.07	MILES	A-1	N	N		F	F	F	F		Streambank Modifications/destablization Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth (North Fork Big Hole River)	4A	10.88	MILES	A-1	P	P		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities Streambank Modifications/destablization Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_090	JOSEPH CREEK, headwaters to mouth (Trail Creek)	5	7.29	MILES	A-1	P	P		F	F	N	F	Copper Lead Physical substrate habitat alterations Sedimentation/Siltation	Channelization Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Silviculture Harvesting
North Fork Big Hole	MT41D004_100	RUBY CREEK, headwaters to mouth (North Fork Big Hole River)	4A	18.8	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Dredge Mining Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing Silviculture Activities Unspecified Unpaved Road or Trail
Upper Big Hole	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	5	24.51	MILES	A-1	P	P		F	P	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat
Upper Big Hole	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	5	25.62	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture

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Appendix A: Impaired Waters

HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Big Hole	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	5	25.62	MILES	A-1	P	P		F	F	F	F	Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat
Upper Big Hole	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	4A	21.88	MILES	A-1	P	P		I	F	I	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Upper Big Hole	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	5	18.91	MILES	A-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Copper Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat
Upper Big Hole	MT41D004_160	PINE CREEK, headwaters to mouth (Andrus Creek)	5	5.37	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Rangeland Grazing
Upper Big Hole	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	5	6.85	MILES	A-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Upper Big Hole	MT41D004_180	WARM SPRINGS CREEK, headwaters to mouth (Big Hole River)	5	20	MILES	A-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat
Upper Big Hole	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	5	16.69	MILES	A-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones

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HUC 10020004 Big Hole **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Big Hole	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	5	16.69	MILES	A-1	N	N		F	F	N	P	Low flow alterations Nitrogen (Total) Other anthropogenic substrate alterations Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing
Upper Big Hole	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	4A	8.81	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Upper Big Hole	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	5	9.48	MILES	A-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Upper Big Hole	MT41D004_220	DOOLITTLE CREEK, headwaters to mouth (Big Hole River)	4A	5.59	MILES	A-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Agriculture Highways, Roads, Bridges, Infrasturcture (New Construction) Irrigated Crop Production
Middle Big Hole	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	5	4.79	MILES	A-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail

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HUC 10020005 Jefferson **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Jefferson	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	5	66.3	MILES	B-1	N	N		F	P	N	P	Copper Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload) Temperature, water	Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Natural Sources Streambank Modifications/destablization
Upper Jefferson	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	5	53.6	MILES	B-1	N	N		F	P	N	P	Copper Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload) Temperature, water	Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Natural Sources Streambank Modifications/destablization
Upper Jefferson	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	5	22.46	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers Cause Unknown Nitrogen (Total) Other anthropogenic substrate alterations Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Total Suspended Solids (TSS)	Agriculture Channelization Dam or Impoundment Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Irrigated Crop Production Loss of Riparian Habitat Municipal Point Source Discharges Sediment Resuspension (Clean Sediment) Source Unknown

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HUC 10020005 Jefferson **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Jefferson	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	5	22.46	MILES	B-1	P	P		F	P	F	P		Streambank Modifications/destablization Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_020	HALFWAY CREEK, headwaters to mouth (Big Pipestone Creek-Jefferson River)	5	7.9	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_030	HELLS CANYON CREEK, headwaters to mouth (Jefferson River)	4A	13.28	MILES	B-1	P	P		F	F	F	P	Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Silviculture Activities Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	5	16.86	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Channelization Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related)
Lower Jefferson	MT41G002_050	NORTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	17.62	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Mercury Physical substrate habitat alterations	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Natural Sources Subsurface (Hardrock) Minining
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	5	23.32	MILES	B-1	P	P		F	F	F	P	Arsenic Copper Lead Low flow alterations	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification

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HUC 10020005 Jefferson **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	5	23.32	MILES	B-1	P	P		F	F	F	P	Mercury Phosphorus (Total)	Mine Tailings
Lower Jefferson	MT41G002_080	WILLOW CREEK, North and South Fork confluence to mouth (Jefferson River)	5	15.28	MILES	B-1	N	F		F	F	F	P	Low flow alterations Temperature, water Zinc	Acid Mine Drainage Flow Alterations from Water Diversions Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Lower Jefferson	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	5	10.82	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Upper Jefferson	MT41G002_100	FISH CREEK, headwaters to mouth (Jefferson Canal), T1S R5W S12	4A	19.87	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Upper Jefferson	MT41G002_110	CHERRY CREEK, headwaters to mouth (Jefferson River)	5	6.88	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Zinc	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Source Unknown
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	16.2	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Natural Sources

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HUC 10020005 Jefferson **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	16.2	MILES	B-1	N	N		F	F	F	P	Zinc	
Upper Jefferson	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	5	23.4	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Aluminum Ammonia (Un-ionized) Chlorophyll-a Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Silver Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Irrigated Crop Production Rangeland Grazing Subsurface (Hardrock) Minining Upstream Source
Lower Jefferson	MT41G002_150	CHARCOAL CREEK, headwaters to mouth (Pony Creek)	5	2.72	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_160	FITZ CREEK, headwaters to mouth (Little Whitetail Creek)	5	4.71	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

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HUC 10020006 Boulder **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	5	24.38	MILES	B-1	P	P		F	F	N	F	Cadmium Copper Iron Lead Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	5	9.28	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Cadmium Copper Iron Lead Silver Zinc	Acid Mine Drainage Channelization Habitat Modification - other than Hydromodification Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Mill Tailings Mine Tailings
Boulder - Elkhorn	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	5	35.85	MILES	B-1	N	N		P	F	N	P	Alteration in stream-side or littoral vegetative covers Copper Iron Lead Low flow alterations Sedimentation/Siltation Silver Temperature, water Zinc	Acid Mine Drainage Contaminated Sediments Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	5	14.12	MILES	B-1	N	N		P	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Low flow alterations	Acid Mine Drainage Contaminated Sediments Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive)

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Appendix A: Impaired Waters

HUC 10020006 Boulder **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	5	14.12	MILES	B-1	N	N		P	F	N	P	Sedimentation/Siltation Temperature, water Zinc	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Mill Tailings
Boulder - Elkhorn	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	5	2.89	MILES	B-1	N	N		P	P	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Nitrogen, Nitrate Other flow regime alterations Sedimentation/Siltation Turbidity Zinc	Acid Mine Drainage Agriculture Forest Roads (Road Construction and Use) Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities Subsurface (Hardrock) Minining
Boulder - Elkhorn	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	5	11.72	MILES	B-1	N	N		P	F	N	F	Arsenic Cadmium Copper Lead Mercury Nitrogen, Nitrate Sedimentation/Siltation Zinc	Acid Mine Drainage Contaminated Sediments Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Mine Tailings Rangeland Grazing Silviculture Activities Silviculture Harvesting
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	5	16.7	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Mercury	Acid Mine Drainage Contaminated Sediments Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat

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HUC 10020006 Boulder **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	5	16.7	MILES	B-1	N	N		P	F	N	F	Sedimentation/Siltation Zinc	Mine Tailings Rangeland Grazing Silviculture Activities Silviculture Harvesting
Boulder - Elkhorn	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	5	6.65	MILES	B-1	N	N		P	P	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Mercury Sedimentation/Siltation Temperature, water Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Channelization Contaminated Sediments Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Mine Tailings Rangeland Grazing Silviculture Activities
Boulder - Elkhorn	MT41E002_050	LOWLAND CREEK, headwaters to mouth (Boulder River)	5	14.25	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Aluminum Copper Physical substrate habitat alterations Silver	Channelization Dredge Mining Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destablization
Boulder - Elkhorn	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	5	8.16	MILES	B-1	N	N		P	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Channelization Dredge Mining Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive)

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HUC 10020006 Boulder **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	5	3.56	MILES	B-1	N	N		P	F	N	N	Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Boulder - Elkhorn	MT41E002_070	BISON CREEK, headwaters to mouth (Boulder River)	5	25.36	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper Iron Nitrates	Agriculture Channelization Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_080	LITTLE BOULDER RIVER, North Fork to mouth (Boulder River)	5	3.76	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Cause Unknown Copper Physical substrate habitat alterations Zinc	Agriculture Dredge Mining Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Source Unknown
Boulder - Elkhorn	MT41E002_090	NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	5	12.09	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mouth (Boulder River)	5	12.83	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Copper Lead	Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing
Boulder - Elkhorn	MT41E002_110	McCARTHY CREEK, headwaters to mouth (Boulder River)	5	6.44	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Dam or Impoundment Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Sediment Resuspension (Clean Sediment) Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10020006 Boulder **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_130	NURSERY CREEK, headwaters to mouth (Muskrat Creek-Boulder River)	5	1.13	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Forest Roads (Road Construction and Use) Natural Sources Watershed Runoff following Forest Fire
Boulder - Elkhorn	MT41E002_140	BIG LIMBER GULCH, headwaters to mouth (Cataract Creek-Boulder River)	5	2.62	MILES	B-1	X	X		F	F	N	X	Lead Mercury	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)

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Appendix A: Impaired Waters

HUC 10020007 Madison **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	5	41.31	MILES	B-1	P	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Copper Lead Sedimentation/Siltation Temperature, water	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Natural Sources
Madison	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	5	18.33	MILES	B-1	N	N		F	P	F	N	Alteration in stream-side or littoral vegetative covers Nitrates Other anthropogenic substrate alterations Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Turbidity	Agriculture Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Irrigated Crop Production Loss of Riparian Habitat Natural Sources Non-irrigated Crop Production Streambank Modifications/destablization
Madison	MT41F002_030	HOT SPRINGS CREEK, headwaters to mouth (Madison River)	5	17.44	MILES	B-1	X	X		X	F	N	N	Arsenic Low flow alterations	Acid Mine Drainage Flow Alterations from Water Diversions Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004_010	BLAINE SPRING CREEK, headwaters to mouth (Madison River)	5	8.86	MILES	B-1	P	P		F	F	F	P	Excess Algal Growth Low flow alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Aquaculture (Permitted) Streambank Modifications/destablization
Madison	MT41F004_020	O'DELL SPRING CREEK, headwaters to mouth (Madison River)	5	13.03	MILES	B-1	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Agriculture

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Appendix A: Impaired Waters

HUC 10020007 Madison **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F004_020	O'DELL SPRING CREEK, headwaters to mouth (Madison River)	5	13.03	MILES	B-1	P	P		F	F	N	F	Arsenic High Flow Regime Other anthropogenic substrate alterations Physical substrate habitat alterations	Channelization Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Source Unknown
Madison	MT41F004_040	INDIAN CREEK, Lee Metcalf Wilderness boundary to mouth (Madison River)	4C	6.34	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004_050	JACK CREEK, headwaters to mouth (Madison River)	5	15.18	MILES	B-1	P	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Madison	MT41F004_060	NORTH MEADOW CREEK, headwaters to mouth (Enis Lake)	5	18.53	MILES	B-1	F	F		F	F	F	P	Low flow alterations Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Channelization Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Madison	MT41F004_070	SOUTH MEADOW CREEK, headwaters to mouth (Enis Lake)	5	12.98	MILES	B-1	N	N		F	F	F	P	Aquatic Plants - Native Chlorophyll-a Lead Physical substrate habitat alterations	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Madison	MT41F004_080	RUBY CREEK, headwaters to mouth (Madison River)	4C	15.91	MILES	B-1	N	N		F	F	F	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	5	39.41	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium	Agriculture Flow Alterations from Water Diversions Forest Roads (Road Construction and Use)

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Appendix A: Impaired Waters

HUC 10020007 Madison **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	5	39.41	MILES	B-1	N	N		F	F	N	P	Lead Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Rangeland Grazing Source Unknown Streambank Modifications/destablization Unspecified Unpaved Road or Trail
Madison	MT41F004_110	ELK RIVER, headwaters to mouth (West Fork Madison River)	5	15.59	MILES	B-1	P	P		F	F	F	F	Bottom Deposits	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Madison	MT41F004_120	GAZELLE CREEK, headwaters to mouth (West Fork Madison River)	4C	9.65	MILES	B-1	F	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Madison	MT41F004_130	MOORE CREEK, springs to mouth (Fletcher Channel), T5S R1W S15	5	15.83	MILES	B-1	X	X		F	F	N	N	Arsenic Fecal Coliform	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Natural Sources
Madison	MT41F004_140	ANTELOPE CREEK, headwaters to mouth (Cliff Lake)	5	9.48	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Agriculture Channelization Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Unspecified Unpaved Road or Trail
Madison	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison River	5	4.36	MILES	B-1	P	P		F	F	N	F	Arsenic Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources
Madison	MT41F005_030	ENNIS LAKE, to the Ennis Lake Dam, T4S R1E S20	5	3780.8	ACRES	B-1	P	P		F	F	N	P	Cause Unknown	Acid Mine Drainage

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Appendix A: Impaired Waters

HUC 10020007 Madison **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F005_030	ENNIS LAKE, to the Ennis Lake Dam, T4S R1E S20	5	3780.8	ACRES	B-1	P	P		F	F	N	P	Chromium (total) Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations	Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Natural Sources Source Unknown
Madison	MT41F006_010	SOUTH FORK MADISON RIVER, headwaters to Hebgen Lake	5	23.3	MILES	B-1	F	F		F	F	N	F	Arsenic	Natural Sources
Madison	MT41F006_020	RED CANYON CREEK, headwaters to mouth (Hebgen Lake)	5	6.27	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources Silviculture Activities
Madison	MT41F006_030	WATKINS CREEK, headwaters to mouth (Hebgen Lake)	4C	7.08	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Streambank Modifications/destablization

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Appendix A: Impaired Waters

HUC 10020008 Gallatin **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H001_010	GALLATIN RIVER, Spanish Creek to mouth (Missouri River)	4C	48.12	MILES	B-1	P	N		F	P	F	N	Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	5	29.55	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Fecal Coliform	Animal Feeding Operations (NPS)
														Low flow alterations	Channelization
														Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
														Other anthropogenic substrate alterations	Irrigated Crop Production
														Physical substrate habitat alterations	Natural Sources
														Sedimentation/Siltation	
Lower Gallatin	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	5	9	MILES	B-1	P	P		P	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
														Excess Algal Growth	Animal Feeding Operations (NPS)
														Fecal Coliform	Grazing in Riparian or Shoreline Zones
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
Lower Gallatin	MT41H002_031	SOUTH COTTONWOOD CREEK, Middle Creek Assoc Ditch diversion to mouth (Gallatin River)	4C	6.26	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H003_010	EAST GALLATIN RIVER, confluence of Rocky and Bear Creeks to Bridger Creek	5	7.3	MILES	B-1	P	P		F	F	F	F	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Municipal (Urbanized High Density Area)
															Residential Districts
															Yard Maintenance
Lower Gallatin	MT41H003_020	EAST GALLATIN RIVER, Bridger Creek to Smith Creek	5	25.52	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Excess Algal Growth	Irrigated Crop Production
														Low flow alterations	Municipal Point Source Discharges
														Nitrogen (Total)	Yard Maintenance
														Phosphorus (Total)	
														pH	

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Appendix A: Impaired Waters

HUC 10020008 Gallatin **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H003_030	EAST GALLATIN RIVER, Smith Creek to mouth (Gallatin River)	5	13.54	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) pH	Grazing in Riparian or Shoreline Zones Municipal Point Source Discharges
Lower Gallatin	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	5	4.88	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Escherichia coli Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Septage Disposal Yard Maintenance
Lower Gallatin	MT41H003_050	JACKSON CREEK, headwaters to mouth (Rocky Creek)	5	8.55	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Phosphorus (Total) Sedimentation/Siltation	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones
Lower Gallatin	MT41H003_060	SMITH CREEK, confluence of Ross and Reese Creeks to mouth (East Gallatin River)	5	6.76	MILES	B-1	P	N		F	F	X	N	Alteration in stream-side or littoral vegetative covers Fecal Coliform Nitrates Physical substrate habitat alterations Sedimentation/Siltation	Agriculture
Lower Gallatin	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	5	8.28	MILES	B-1	P	P		F	F	F	N	Fecal Coliform Nitrates Solids (Suspended/Bedload)	Agriculture
Lower Gallatin	MT41H003_080	ROCKY CREEK, confluence of Jackson and Timberline Creeks to mouth (East Gallatin River)	5	7.94	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Highways, Roads, Bridges, Infrasturcture (New Construction)
Lower Gallatin	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	5	10.15	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

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Appendix A: Impaired Waters

HUC 10020008 Gallatin **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	5	10.15	MILES	B-1	P	P		F	P	F	P	Excess Algal Growth	Unspecified Unpaved Road or Trail
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Solids (Suspended/Bedload)	
Lower Gallatin	MT41H003_090	THOMPSON CREEK (Thompson Spring), headwaters to mouth (East Gallatin River)	5	7.42	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	
														Nitrogen (Total)	
														Sedimentation/Siltation	
Lower Gallatin	MT41H003_100	DRY CREEK, headwaters to mouth (East Gallatin River)	5	20.09	MILES	B-1	P	P		F	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
														Cause Unknown	Channelization
														Nitrogen (Total)	Source Unknown
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Sedimentation/Siltation	
Lower Gallatin	MT41H003_110	BRIDGER CREEK, headwaters to mouth (East Gallatin River)	5	21.46	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Impacts from Resort Areas (Winter and Non-winter Resorts)
														Total Kjehldahl Nitrogen (TKN)	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_120	STONE CREEK, headwaters to mouth (Bridger Creek)	5	6.06	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	Silviculture Harvesting
Lower Gallatin	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	5	7.04	MILES	A-1	P	P		F	F	F	P	Phosphorus (Total)	Rangeland Grazing
														Total Kjehldahl Nitrogen (TKN)	Silviculture Harvesting
															Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	5	8.76	MILES	A-1	P	P		F	F	F	P	Chlorophyll-a	Rangeland Grazing
														Phosphorus (Total)	Silviculture Harvesting
														Total Kjehldahl Nitrogen (TKN)	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_132	HYALITE CREEK, Bozeman water	4C	20.99	MILES	B-1	X	X		X	X	X	P	Low flow alterations	Irrigated Crop Production

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Appendix A: Impaired Waters

HUC 10020008 Gallatin **Watershed** Upper Missouri Tribs.

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Gallatin	MT41H005_010	SQUAW CREEK, aka Storm Castle Creek, headwaters to the mouth (Gallatin River), T4S R4E S33	5	14.19	MILES	B-1	P	P		F	F	X	F	Phosphorus (Total) Physical substrate habitat alterations	Forest Roads (Road Construction and Use) Natural Sources Silviculture Activities
Upper Gallatin	MT41H005_020	TAYLOR FORK, Lee Metcalf Wilderness boundary to mouth (Gallatin River)	5	13.98	MILES	B-1	P	P		X	P	X	F	Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Silviculture Activities Site Clearance (Land Development or Redevelopment)
Upper Gallatin	MT41H005_030	CACHE CREEK, headwaters to mouth (Taylor Fork)	5	4.66	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Agriculture Forest Roads (Road Construction and Use) Silviculture Activities
Upper Gallatin	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to mouth (Gallatin River)	5	3.87	MILES	B-1	P	N		F	F	F	N	Chlorophyll-a Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems) Silviculture Activities Site Clearance (Land Development or Redevelopment)
Upper Gallatin	MT41H005_050	MIDDLE FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	5	6.23	MILES	B-1	P	P		F	F	F	N	Alteration in stream-side or littoral vegetative covers Fecal Coliform Nitrate/Nitrite (Nitrite + Nitrate as N) Solids (Suspended/Bedload)	Animal Feeding Operations (NPS) Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
Upper Gallatin	MT41H005_060	SOUTH FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	5	14.57	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems) Silviculture Activities Site Clearance (Land Development or Redevelopment)

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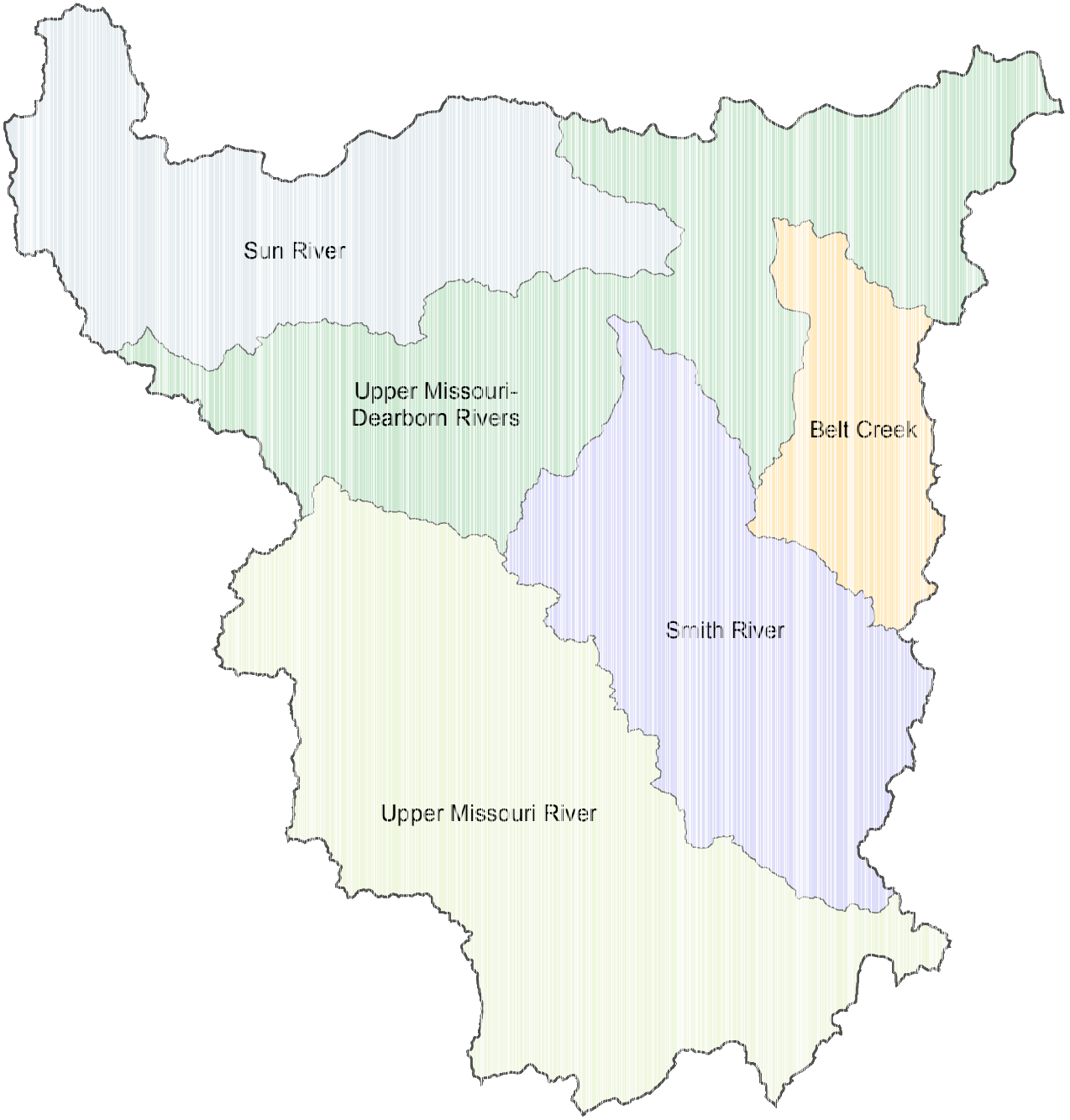
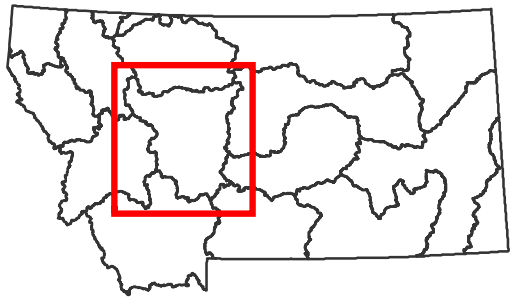
Missouri-Sun-Smith Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10030101	Upper Missouri River
10030102	Upper Missouri-Dearborn Rivers
10030103	Smith River
10030104	Sun River
10030105	Belt Creek



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	5/2B	21.95	MILES	B-1	P	P		F	F	N	F	Arsenic Low flow alterations Nitrogen (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Municipal Point Source Discharges Natural Sources Non-irrigated Crop Production
Missouri River	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	5	22.6	MILES	B-1	P	P		F	P	N	F	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Low flow alterations Sedimentation/Siltation	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Canyon Ferry	MT41I002_010	AVALANCHE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	4C	16.71	MILES	B-1	X	X		X	P	X	P	Low flow alterations	Agriculture Irrigated Crop Production
Canyon Ferry	MT41I002_020	BATTLE CREEK, headwaters to mouth (Sixteenmile Creek)	5	22.76	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Canyon Ferry	MT41I002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	5	14.74	MILES	B-1	N	N		F	P	N	P	Cadmium Chromium (total) Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Silver Zinc	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production

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Appendix A: Impaired Waters

HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Canyon Ferry	MT41I002_041	CONFEDERATE GULCH, headwaters to Hunter Gulch	5	10.04	MILES	B-1	N	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Cadmium Nitrates Other flow regime alterations Physical substrate habitat alterations	Agriculture Channelization Dredge Mining Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Canyon Ferry	MT41I002_042	CONFEDERATE GULCH, Hunter Gulch to mouth (Canyon Ferry Reservoir)	5	5.21	MILES	B-1	N	N		X	N	X	N	Low flow alterations Nitrates Phosphorus (Total) Physical substrate habitat alterations	Agriculture Dredge Mining Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Canyon Ferry	MT41I002_050	CROW CREEK, National Forest boundary to mouth (Missouri River)	5	15.89	MILES	B-1	N	N		N	N	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Irrigated Crop Production
Canyon Ferry	MT41I002_060	CROW CREEK, Crow Creek Falls to National Forest boundary	5	10.15	MILES	B-1	P	P		F	F	F	F	Copper Lead Physical substrate habitat alterations	Channelization Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Deep Creek	MT41I002_070	DEEP CREEK, National Forest Boundary to mouth (Missouri River)	4A	20.35	MILES	B-1	P	P		F	F	F	F	Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Loss of Riparian Habitat Streambank Modifications/destablization
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth (Missouri River)	5	21.56	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production

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HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth (Missouri River)	5	21.56	MILES	B-1	P	P		F	F	F	P	Sedimentation/Siltation Temperature, water	
Canyon Ferry	MT41I002_090	HELLGATE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	11.6	MILES	B-1	N	N		F	F	N	X	Alteration in stream-side or littoral vegetative covers Mercury Other anthropogenic substrate alterations Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Natural Sources Other Recreational Pollution Sources Silviculture Activities
Canyon Ferry	MT41I002_100	INDIAN CREEK, headwaters to mouty (Missouri River)	5	8.01	MILES	B-1	X	X		N	F	N	X	Arsenic Cadmium Lead Mercury	Acid Mine Drainage Dredge Mining Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Canyon Ferry	MT41I002_110	MAGPIE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	5	12.76	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Canyon Ferry	MT41I002_120	SIXTEENMILE CREEK, Lost Creek to mouth (Missouri River)	5	49.61	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Grazing in Riparian or Shoreline Zones
Canyon Ferry	MT41I002_130	WHITE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	13.26	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Placer Mining

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HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Canyon Ferry	MT41I002_140	WILSON CREEK, 3.3 miles upstream to mouth (Crow Creek)	5	3.3	MILES	B-1	X	X		X	X	N	X	Mercury	Impacts from Abandoned Mine Lands (Inactive)
Canyon Ferry	MT41I002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	6.42	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Channelization
														Phosphorus (Total)	Placer Mining
														Sedimentation/Siltation	Source Unknown
														Total Kjehldahl Nitrogen (TKN)	Unspecified Unpaved Road or Trail
Canyon Ferry	MT41I002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	5	5.87	MILES	B-1	X	X		X	X	N	X	Arsenic	Acid Mine Drainage
														Cadmium	Impacts from Abandoned Mine Lands (Inactive)
														Lead	
														Mercury	
Missouri River	MT41I003_010	CANYON FERRY RESERVOIR	5	2.73	ACRES	B-1	F	F		P	F	N	N	Ammonia (Un-ionized)	Acid Mine Drainage
														Arsenic	Agriculture
														Excess Algal Growth	Impacts from Abandoned Mine Lands (Inactive)
														Thallium	Internal Nutrient Recycling
															Municipal Point Source Discharges
															Natural Sources
															On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
															Site Clearance (Land Development or Redevelopment)
Missouri River	MT41I004_030	MISSOURI RIVER, Holter Dam to Little Prickly Pear Creek	5	2.84	MILES	B-1	P	P		F	F	F	F	Other flow regime alterations	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Municipal Point Source Discharges
														Sedimentation/Siltation	Natural Sources
														Total Kjehldahl Nitrogen (TKN)	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
															Upstream Impoundments (e.g., PL-566 NRCS Structures)
Holter	MT41I005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	5	13.8	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
														Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Holter	MT41I005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	5	13.8	MILES	B-1	P	P		F	F	F	P	Total Kjehldahl Nitrogen (TKN)	
Holter	MT41I005_012	BEAVER CREEK, Nelson to mouth (Missouri River below Hauser Dam)	5	5.51	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Canyon Ferry	MT41I005_020	TROUT CREEK, headwaters to mouth (Hauser Lake)	5	20.52	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Unspecified Unpaved Road or Trail
Holter	MT41I005_030	FALLS GULCH, headwaters to mouth (Holter Lake), T14N R3W S16	5	3.18	MILES	B-1	N	N		F	X	N	X	Mercury	Impacts from Abandoned Mine Lands (Inactive)
Holter	MT41I005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	5	8.25	MILES	B-1	P	P		F	F	N	F	Copper Lead Zinc	Impacts from Abandoned Mine Lands (Inactive)
Holter	MT41I005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	5	23.9	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Agriculture Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Silviculture Activities
Holter	MT41I005_052	LITTLE PRICKLY PEAR CREEK, Clark Creek to mouth (Missouri River)	5	10.23	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Physical substrate habitat alterations Temperature, water	Channelization Flow Alterations from Water Diversions Highways, Roads, Bridges, Infrasturcture (New Construction) Loss of Riparian Habitat
Holter	MT41I005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek-Canyon Creek-Little Prickly Pear Creek)	5	1.78	MILES	B-1	N	N		N	X	N	X	Cadmium Copper Lead Mercury Silver	Impacts from Abandoned Mine Lands (Inactive) Mill Tailings Subsurface (Hardrock) Minining

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Holter	MT41I005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek-Canyon Creek-Little Prickly Pear Creek)	5	1.78	MILES	B-1	N	N		N	X	N	X	Zinc	
Holter	MT41I005_080	WOODSIDING GULCH, headwaters to mouth (Little Prickly Pear Creek), T13N R4W S33	5	2.19	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total)	Forest Roads (Road Construction and Use)
Missouri River	MT41I006_010	PRICKLY PEAR CREEK, Lake Helena to Hauser Lake	5	4.1	MILES	B-1	X	X		X	X	N	X	Arsenic	Acid Mine Drainage Atmospheric Depositon - Toxics Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	5	4.15	MILES	I	N	N	N	F	P	N	P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Arsenic Cadmium Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Acid Mine Drainage Agriculture Contaminated Sediments Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Municipal Point Source Discharges
Lake Helena	MT41I006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	5	6.54	MILES	I	N	N	N	P	P	N	P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Arsenic Cadmium Copper	Acid Mine Drainage Contaminated Sediments Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	5	6.54	MILES	I	N	N	N	P	P	N	P	Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Irrigated Crop Production On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
Lake Helena	MT41I006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	5	10.84	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Aluminum Antimony Arsenic Cadmium Copper Lead Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Acid Mine Drainage Channelization Contaminated Sediments Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge
Lake Helena	MT41I006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	5	7.05	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Physical substrate habitat alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Placer Mining Streambank Modifications/destablization

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HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	5	8.84	MILES	B-1	N	P		P	F	N	F	Alteration in stream-side or littoral vegetative covers Cadmium Lead Physical substrate habitat alterations Total Suspended Solids (TSS)	Acid Mine Drainage Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive) Placer Mining Streambank Modifications/destablization
Lake Helena	MT41I006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	5	2.92	MILES	B-1	N	N		F	F	N	X	Cadmium Copper Lead Zinc	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Subsurface (Hardrock) Minining
Lake Helena	MT41I006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	5	1.74	MILES	B-1	N	N		N	P	N	P	Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Cadmium Copper Lead Low flow alterations Mercury Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Silver Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Channelization Contaminated Sediments Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41I006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	N		P	P	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper	Agriculture Dam or Impoundment Mill Tailings Mine Tailings

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	N		P	P	N	N	Lead	
														Silver	
														Solids (Suspended/Bedload)	
														Temperature, water	
														Zinc	
														pH	
Lake Helena	MT41I006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	5	2.82	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Impacts from Abandoned Mine Lands (Inactive)
														Arsenic	Mine Tailings
														Cadmium	Unspecified Unpaved Road or Trail
														Copper	
														Lead	
														Mercury	
														Sedimentation/Siltation	
														Zinc	
Lake Helena	MT41I006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	4A	4.17	MILES	B-1	P	P		F	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
														Cadmium	Impacts from Abandoned Mine Lands (Inactive)
														Lead	Mine Tailings
														Sedimentation/Siltation	Unspecified Unpaved Road or Trail
														Zinc	
Lake Helena	MT41I006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	5	12.82	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
														Arsenic	Animal Feeding Operations (NPS)
														Cadmium	Contaminated Sediments
														Copper	Grazing in Riparian or Shoreline Zones
														Lead	Impacts from Abandoned Mine Lands (Inactive)
														Mercury	Unspecified Unpaved Road or Trail
														Other anthropogenic substrate alterations	
														Sedimentation/Siltation	

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	5	12.82	MILES	B-1	N	N		F	F	N	F	Zinc	
Lake Helena	MT41I006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	5	14.68	MILES	B-1	N	N		F	F	N	X	Cadmium	Acid Mine Drainage
														Copper	Impacts from Abandoned Mine Lands (Inactive)
														Lead	
														Mercury	
														Total Suspended Solids (TSS)	
														Zinc	
Lake Helena	MT41I006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	5	6.72	MILES	A-1	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
														Arsenic	Forest Roads (Road Construction and Use)
														Cadmium	Highway/Road/Bridge Runoff (Non-construction Related)
														Copper	Impacts from Abandoned Mine Lands (Inactive)
														Lead	Mine Tailings
														Mercury	
														Sedimentation/Siltation	
														Zinc	
Lake Helena	MT41I006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	4A	7.32	MILES	B-1	N	N		N	N	N	N	Arsenic	Acid Mine Drainage
														Cadmium	Highway/Road/Bridge Runoff (Non-construction Related)
														Copper	Impacts from Abandoned Mine Lands (Inactive)
														Lead	Impacts from Hydrostructure Flow Regulation/modification
														Low flow alterations	
														Sedimentation/Siltation	
														Zinc	
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	5	16.38	MILES	B-1	P	P		F	F	N	P	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
														Arsenic	Channelization
														Cadmium	Habitat Modification - other than Hydromodification
														Copper	Highways, Roads, Bridges, Infrasturcture (New Construction)
														Lead	Impacts from Abandoned Mine Lands (Inactive)

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	5	16.38	MILES	B-1	P	P		F	F	N	P	Low flow alterations Mercury Nitrogen (Total) Nutrient/Eutrophication Biological Indicators Phosphorus (Total) Sedimentation/Siltation Zinc	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Site Clearance (Land Development or Redevelopment)
Lake Helena	MT41I006_150	SILVER CREEK, headwaters to where the stream goes underground, T11N R4W S30	5	20.41	MILES	B-1	N	N		F	P	N	P	Arsenic DDE Low flow alterations Mercury Other anthropogenic substrate alterations	Agriculture Dredge Mining Irrigated Crop Production Mill Tailings Subsurface (Hardrock) Minining
Lake Helena	MT41I006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	5	8.45	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Zinc	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destablization
Lake Helena	MT41I006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warmsprings Creek)	5	2.7	MILES	B-1	F	P		F	X	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Organic Enrichment (Sewage) Biological Indicators Other anthropogenic substrate alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warmsprings Creek)	5	2.7	MILES	B-1	F	P		F	X	N	F	Zinc	
Lake Helena	MT41I006_190	JACKSON CREEK, headwaters to mouth (McClellan Creek-Prickly Pear Creek)	5	2.32	MILES	B-1	P	P		F	F	F	F	Zinc	Impacts from Abandoned Mine Lands (Inactive)
Lake Helena	MT41I006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	5	1.36	MILES	B-1	P	P		F	F	N	F	Lead	Forest Roads (Road Construction and Use)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Natural Sources
														Sedimentation/Siltation	Source Unknown
															Subsurface (Hardrock) Minining
Lake Helena	MT41I006_220	SKELLY GULCH, headwaters to mouth (Greenhorn Creek/Sevenmile Creek), T10N R5W S2	5	7.81	MILES	B-1	P	P		F	F	F	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
														Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_230	GRANITE CREEK, headwaters to mouth (Sevenmile Creek)	5	2.49	MILES	B-1	X	X		X	X	N	X	Arsenic	Acid Mine Drainage
														Cadmium	Impacts from Abandoned Mine Lands (Inactive)
Lake Helena	MT41I007_010	LAKE HELENA	4A	1600	ACRES	B-1	P	P		F	F	N	X	Arsenic	Acid Mine Drainage
														Lead	Impacts from Abandoned Mine Lands (Inactive)
														Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
														Phosphorus (Total)	Irrigated Crop Production
															Municipal Point Source Discharges
															Natural Sources
															Rangeland Grazing
Missouri River	MT41I007_020	HOLTER LAKE Hauser Dam to Holter Lake Spillway	5	3.93	ACRES	B-1	F	F		X	F	X	P	Mercury	Atmospheric Depositon - Toxics
															Historic Bottom Deposits (Not Sediment)
															Impacts from Abandoned Mine Lands (Inactive)
															Inappropriate Waste Disposal
															Placer Mining
															Source Unknown
Missouri River	MT41I007_040	HAUSER LAKE	5	3800	ACRES	B-1	P	P		X	F	X	F	DDT	Agriculture

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030101 Upper Missouri **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41I007_040	HAUSER LAKE	5	3800	ACRES	B-1	P	P		X	F	X	F	Endosulfan sulfate Endrin aldehyde Mercury Nitrogen, Nitrate Oxygen, Dissolved Phosphorus (Total)	Dam Construction (Other than Upstream Flood Control Projects) Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges Natural Sources On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems) Silviculture Activities Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030102 Upper Missouri-Dearborn **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	5	6.99	MILES	B-2	N	N		F	P	N	F	Chromium (total) Mercury PCB-1254 PCB-1260 Physical substrate habitat alterations Sedimentation/Siltation Selenium Solids (Suspended/Bedload) Turbidity	Contaminated Sediments Dam Construction (Other than Upstream Flood Control Projects) Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted) Irrigated Crop Production
Missouri River	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	5	9.12	MILES	B-3	N		N	F	P	N	F	Arsenic Copper PCB-1254 PCB-1260 Sedimentation/Siltation Temperature, water Turbidity	Contaminated Sediments Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Natural Sources Post-development Erosion and Sedimentation
Missouri River	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	5	54.62	MILES	B-3	N		N	F	F	N	N	Aluminum Arsenic Cadmium Chlorophyll-a Copper Iron Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Zinc	Agriculture Dam or Impoundment Industrial Point Source Discharge Streambank Modifications/destablization

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030102 Upper Missouri-Dearborn **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	5/2B	20.93	MILES	B-1	P	P		F	F	N	F	Arsenic Nitrogen (Total) Other flow regime alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources
Missouri River	MT41Q001_022	MISSOURI RIVER, Sheep Creek to Sun River	5	65.3	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Hydrostructure Flow Regulation/modification Natural Sources Streambank Modifications/destablization
Benton Lake	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	5	19.03	MILES	B-3	N		N	N	N	N	P	Cadmium Other flow regime alterations Salinity Sedimentation/Siltation Selenium Zinc	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Missouri Cascade	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek-Missouri River)	5	4.32	MILES	B-1	N	N		F	F	N	X	Cadmium Nickel Zinc	Acid Mine Drainage Subsurface (Hardrock) Minining
Missouri Cascade	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	5	13.68	MILES	B-1	N	N		F	F	N	X	Aluminum Cadmium Lead Nickel Zinc	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Minining
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	5	18.63	MILES	B-1	N	N		P	P	N	X	Lead Salinity	Agriculture Impacts from Abandoned Mine Lands (Inactive)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030102 Upper Missouri-Dearborn **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	5	18.63	MILES	B-1	N	N		P	P	N	X	Zinc	Subsurface (Hardrock) Minining
Missouri Choteau	MT41Q002_050	BOX ELDER CREEK, Spring Creek to mouth (Missouri River)	5	17.47	MILES	B-3	P		P	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Missouri Cascade	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	5	5.94	MILES	B-1	N	N		P	P	N	X	Aluminum Cadmium Nickel Salinity Zinc	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Minining
Dearborn	MT41Q003_010	DEARBORN RIVER, Falls Creek to mouth (Missouri River)	5	48.26	MILES	B-1	N	N		F	F	F	P	Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Dearborn	MT41Q003_020	MIDDLE FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	4A	14.51	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_030	SOUTH FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	4A	16.14	MILES	B-1	P	P		F	F	X	F	Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_040	FLAT CREEK, Henry Creek to mouth (Dearborn River)	4A	15.92	MILES	B-1	P	N		F	F	X	F	High Flow Regime Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Benton Lake	MT41Q005_020	BENTON LAKE	5	5600	ACRES	B-3	N		N	P	F	N	P	Excess Algal Growth Nitrogen (Total) Salinity Selenium Sulfates	Agriculture Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030103 Smith **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Smith	MT41J001_010	SMITH RIVER, North and South Forks to Hound Creek	5	98.1	MILES	B-1	P	P		F	F	F	P	Fecal Coliform	Agriculture
														Low flow alterations	Irrigated Crop Production
														Phosphorus (Total)	Rangeland Grazing
Smith	MT41J001_020	SMITH RIVER, Hound Creek to mouth (Missouri River)	5	24.14	MILES	B-1	P	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Low flow alterations	Grazing in Riparian or Shoreline Zones
														Other anthropogenic substrate alterations	Irrigated Crop Production
														Phosphorus (Total)	Rangeland Grazing
														Physical substrate habitat alterations	
														Temperature, water	
Smith	MT41J002_011	NORTH FORK SMITH RIVER, Lake Sutherlin to mouth (Smith River), T9N R6E S21	5	23	MILES	B-1	F	F		X	F	F	N	Chlorophyll-a	Source Unknown
														Fecal Coliform	
														Nitrogen (Total)	
														Phosphorus (Total)	
Smith	MT41J002_020	HOUND CREEK, Spring Creek to mouth (Smith River)	5	6.71	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	
														Total Kjehldahl Nitrogen (TKN)	
Smith	MT41J002_030	SHEEP CREEK, headwaters to mouth (Smith River)	5	41.31	MILES	B-1	X	X		F	F	N	N	Fecal Coliform	Placer Mining
														Mercury	Source Unknown
Smith	MT41J002_040	BEAVER CREEK, headwaters to mouth (Smith River)	5	20.58	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Smith	MT41J002_050	BENTON GULCH, headwaters to mouth (Smith River)	5	13.41	MILES	B-1	X	X		X	X	X	N	Fecal Coliform	Source Unknown
Smith	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	5	10.41	MILES	B-1	P	P		F	F	F	F	Low flow alterations	Irrigated Crop Production
														Phosphorus (Total)	Livestock (Grazing or Feeding Operations)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030103 Smith **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Smith	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	5	10.41	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	
Smith	MT41J002_070	THOMPSON GULCH, headwaters to mouth (Smith River)	5	10.81	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Smith	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	5	9.01	MILES	B-1	P	P		F	F	F	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Escherichia coli	Irrigated Crop Production
														Low flow alterations	
														Sedimentation/Siltation	
														Temperature, water	
Smith	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	5	13.8	MILES	B-1	P	P		F	P	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Cadmium	Impacts from Abandoned Mine Lands (Inactive)
														Phosphorus (Total)	Transfer of Water from an Outside Watershed
														Sedimentation/Siltation	
														Solids (Suspended/Bedload)	
														Total Kjehldahl Nitrogen (TKN)	
Smith	MT41J002_100	LITTLE CAMAS CREEK, headwaters to mouth (Camas Creek)	5	3.82	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Rangeland Grazing
														Nitrogen (Total)	
														Temperature, water	
Smith	MT41J002_110	CAMAS CREEK, junction of Big and Little Camas Creeks to mouth (Smith River)	5	14.28	MILES	B-1	X	X		X	X	X	N	Fecal Coliform	Source Unknown
Smith	MT41J002_120	MOOSE CREEK, headwaters to mouth (Sheep Creek)	5	11.63	MILES	B-1	P	P		F	F	F	F	Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030104 Sun **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Sun	MT41K001_010	SUN RIVER, Gibson Dam to Muddy Creek	4A	83.01	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Other flow regime alterations	Channelization
														Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
														Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Sun	MT41K001_020	SUN RIVER, Muddy Creek to mouth (Missouri River)	4A	17.3	MILES	B-3	N		N	P	P	F	P	Nitrogen (Total)	Agriculture
														Other flow regime alterations	Channelization
														Phosphorus (Total)	Irrigated Crop Production
														Sedimentation/Siltation	Rangeland Grazing
														Total Suspended Solids (TSS)	
Sun	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	4A	35.84	MILES	I	N	N		P	F	P	N	Nitrogen (Total)	Agriculture
														Phosphorus (Total)	Channel Erosion/Incision from Upstream Hydromodifications
														Salinity	Habitat Modification - other than Hydromodification
														Sedimentation/Siltation	Streambank Modifications/destablization
														Selenium	
														Sulfates	
														Temperature, water	
														Total Dissolved Solids	
Sun	MT41K002_020	FORD CREEK, from mouth 2 miles upstream (Smith Creek-Elk Creek-Sun River)	5	2.48	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Channel Erosion/Incision from Upstream Hydromodifications
														Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	Streambank Modifications/destablization
Sun	MT41K004_030	FREEZEOUT LAKE	5	3500	ACRES	B-2	P	P		P	F	N	P	Aquatic Plants - Native	Agriculture
														Phosphorus (Total)	Irrigated Crop Production
														Selenium	Source Unknown
														Sulfates	
														Total Dissolved Solids	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030105 Belt **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Belt	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	5	50.77	MILES	B-1	N	N		P	P	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Chromium (total) Copper Lead Salinity Sedimentation/Siltation Zinc	Acid Mine Drainage Channelization Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive)
Belt	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	5	39.44	MILES	B-2	N	N		P	P	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Chromium (total) Copper Lead Other anthropogenic substrate alterations Salinity Sedimentation/Siltation Zinc	Acid Mine Drainage Channelization Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Abandoned Mine Lands (Inactive)
Belt	MT41U002_010	CARPENTER CREEK, headwaters to mouth (Belt Creek)	5	6.05	MILES	B-1	N	N		X	X	N	X	Cadmium Copper Lead Mercury	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Belt	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	5	3.47	MILES	B-1	N	N		N	N	N	N	Antimony Arsenic Cadmium Copper Lead Zinc	Acid Mine Drainage Mine Tailings

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

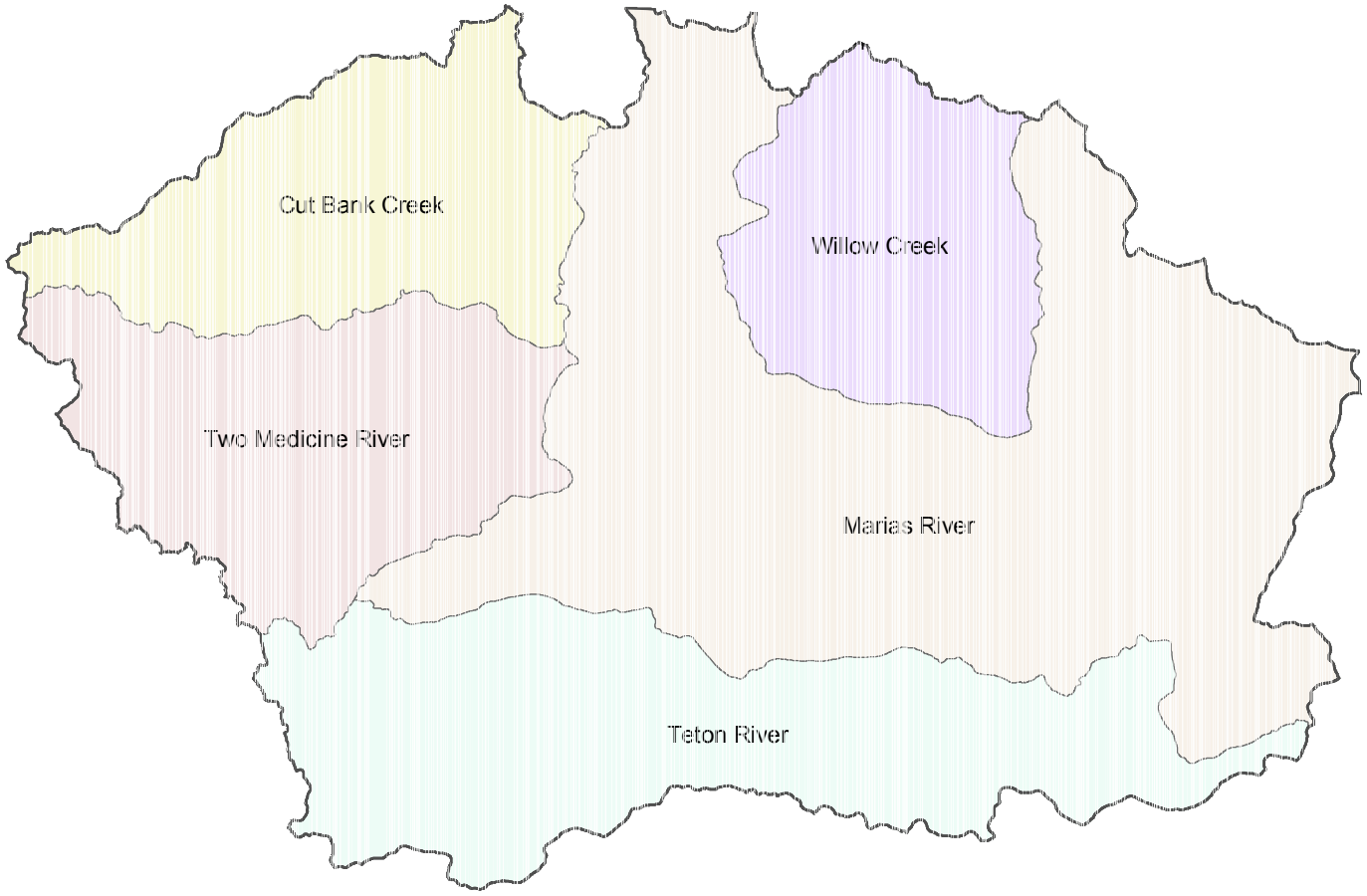
HUC 10030105 Belt **Watershed** Missouri-Sun-Smith

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Belt	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	5	18.88	MILES	B-1	N	N		N	F	N	P	Cadmium	Acid Mine Drainage
														Copper	Contaminated Sediments
														Lead	Highway/Road/Bridge Runoff (Non-construction Related)
														Sedimentation/Siltation	Mine Tailings
														Zinc	Post-development Erosion and Sedimentation
Belt	MT41U002_040	LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	5	3.24	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	Irrigated Crop Production
														Low flow alterations	Loss of Riparian Habitat
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Belt	MT41U002_050	BIG OTTER CREEK, headwaters to mouth (Belt Creek)	5	33.49	MILES	B-1	P	P		X	F	X	F	Alteration in stream-side or littoral vegetative covers	Channelization
														Nitrates	Grazing in Riparian or Shoreline Zones
														Physical substrate habitat alterations	Highways, Roads, Bridges, Infrasturcture (New Construction)
														Sedimentation/Siltation	

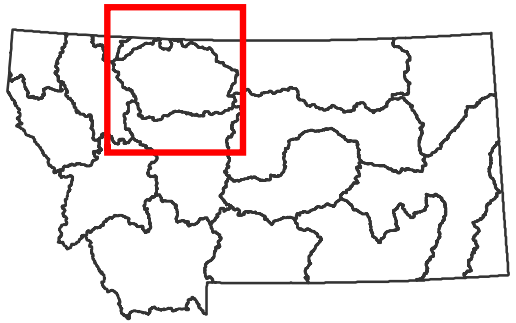
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Marias
Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10030201	Two Medicine River
10030202	Cut Bank Creek
10030203	Marias River
10030204	Willow Creek
10030205	Teton River



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 10030201 Two Medicine **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT41M002_080	BIRCH CREEK, Blacktail Creek to mouth (Two Medicine River)	5	37.2	MILES	B-1	P	I		F	F	F	P	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
Cut Bank - Two Medicine	MT41M002_100	SOUTH FORK DUPUYER CREEK, Bob Marshall Wilderness boundary to mouth (Dupuyer Creek)	4C	7.36	MILES	B-1	N	N		F	F	F	F	Cause Unknown	Source Unknown
Cut Bank - Two Medicine	MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	5/2B	39.28	MILES	B-1	N	I		F	F	F	P	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Temperature, water	Agriculture Crop Production (Crop Land or Dry Land) Flow Alterations from Water Diversions Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030202 Cut Bank **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	5/2B	17.6	MILES	B-1	N	I		N	N	F	N	Ammonia (Total) Chloride Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Specific Conductance Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges
Cut Bank - Two Medicine	MT41L001_040	CUT BANK CREEK, Blackfeet Reservation boundary to mouth (Marias River)	5	21.07	MILES	B-2	N	N		F	F	F	N	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Temperature, water	Flow Alterations from Water Diversions Irrigated Crop Production Municipal Point Source Discharges Non-irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030203 Marias **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Marias - Willow	MT41P002_030	PONDERA COULEE, headwaters to mouth (Marias River)	5	135.95	MILES	B-2	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Salinity	Agriculture
Marias - Willow	MT41P002_050	CORRAL CREEK, headwaters to mouth (Cottonwood Creek)	5	22.98	MILES	B-2	P	P		X	X	X	X	Phosphorus (Total)	Agriculture

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

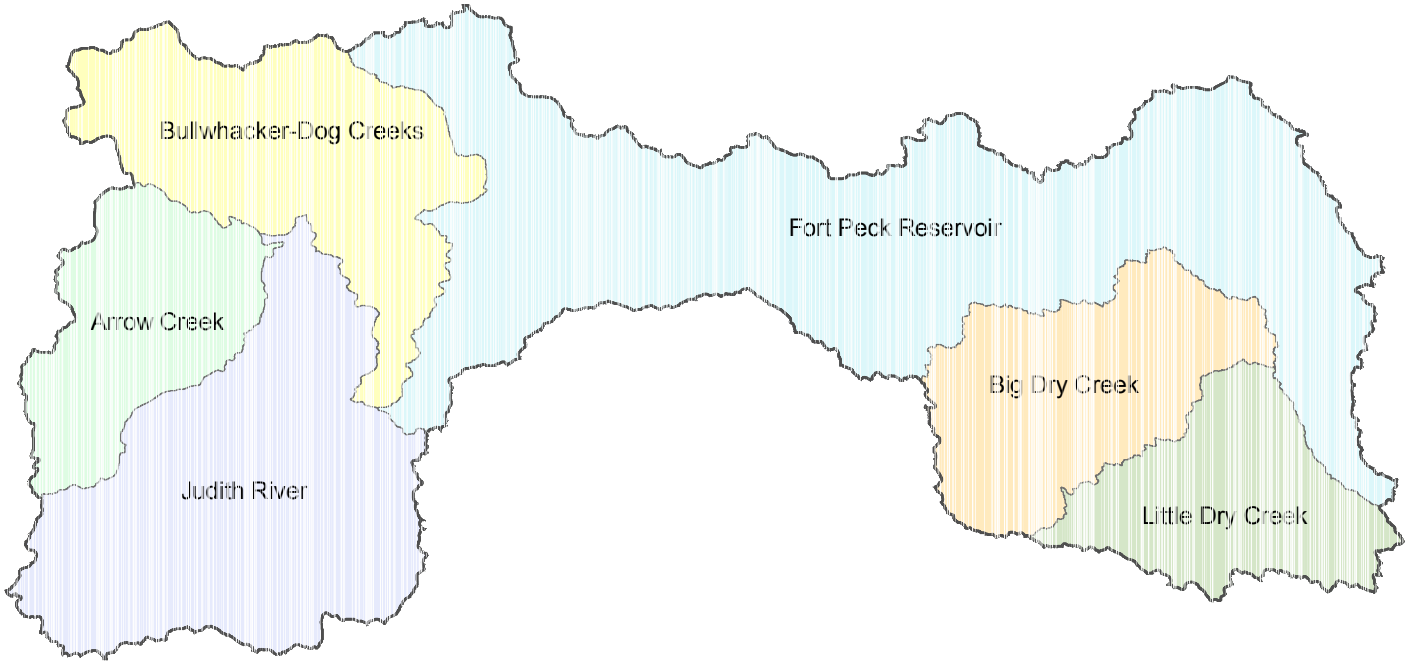
HUC 10030204 Willow **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Marias - Willow	MT41P004_020	EAGLE CREEK, headwaters to mouth (Tiber Reservoir)	5	52.65	MILES	B-2	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones
Marias - Willow	MT41P005_010	OILMONT WETLAND, T35N R1W S31	5	9	ACRES	B-2	P	X		X	X	N	X	Alteration in stream-side or littoral vegetative covers Arsenic Other flow regime alterations	Highways, Roads, Bridges, Infrasturcture (New Construction) Petroleum/natural Gas Activities

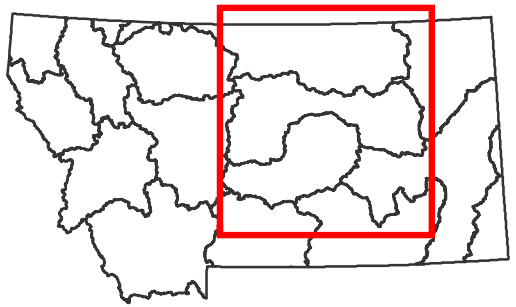
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Middle Missouri Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10040101	Bullwhacker-Dog Creeks
10040102	Arrow Creek
10040103	Judith River
10040104	Fort Peck Reservoir
10040105	Big Dry Creek
10040106	Little Dry Creek



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 10030205 Teton **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Teton	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	4A	121.42	MILES	B-3	P		P	F	F	F	F	Low flow alterations Salinity Sedimentation/Siltation Sulfates Total Dissolved Solids	Agriculture Channelization Flow Alterations from Water Diversions Highways, Roads, Bridges, Infrastuncture (New Construction) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization
Teton	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	4A	43.92	MILES	B-2	P	P		P	F	F	F	Alteration in stream-side or littoral vegetative covers Low flow alterations Salinity Sulfates Temperature, water Total Dissolved Solids Total Suspended Solids (TSS)	Agriculture Channelization Crop Production (Crop Land or Dry Land) Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges Streambank Modifications/destablization
Teton	MT41O001_030	TETON RIVER, North and South Forks to Deep Creek	4C	31.56	MILES	B-1	P	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations	Channelization Flow Alterations from Water Diversions Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Teton	MT41O002_010	WILLOW CREEK, headwaters to mouth (Deep Creek)	4A	21.81	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Alterations in wetland habitats Sedimentation/Siltation	Agriculture Streambank Modifications/destablization
Teton	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	4A	9.57	MILES	B-1	P	P		F	P	P	P	Alteration in stream-side or littoral vegetative covers Alterations in wetland habitats Low flow alterations Nitrogen (Total)	Agriculture Flow Alterations from Water Diversions Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10030205 Teton **Watershed** Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Teton	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	4A	9.57	MILES	B-1	P	P		F	P	P	P	Phosphorus (Total) Sedimentation/Siltation	Streambank Modifications/destablization
Teton	MT41O002_042	BLACKLEAF CREEK, Cow Creek to mouth (Muddy Creek)	4C	24.27	MILES	B-2	P	X		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Highways, Roads, Bridges, Infrasturcture (New Construction) Loss of Riparian Habitat
Teton	MT41O002_060	TETON SPRING CREEK, the city of Choteau to mouth (Teton River)	4A	4.92	MILES	B-1	P	P		F	P	P	P	Alteration in stream-side or littoral vegetative covers Alterations in wetland habitats Nitrogen (Total) Sedimentation/Siltation	Channelization Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat Septage Disposal Source Unknown Streambank Modifications/destablization
Teton	MT41O002_070	TETON SPRING CREEK, headwaters to city of Choteau	4A	9.67	MILES	B-1	P	P		F	F	P	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Temperature, water	Flow Alterations from Water Diversions Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
Teton	MT41O004_020	PRIEST BUTTE LAKE	5	300	ACRES	B-2	N	N		N	N	N	P	Salinity Selenium Sulfates Total Dissolved Solids	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040101 Bullwhacker-Dog **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	5	102.05	MILES	B-3	P		P	F	F	F	P	Alteration in stream-side or littoral vegetative covers Copper Lead Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Source Unknown
Bullwhacker - Dog	MT41T002_020	DOG CREEK, Cutbank Creek to mouth (Missouri River)	5	26.03	MILES	C-3	N		N				F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040102 Arrow **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Judith - Arrow	MT41R001_010	COFFEE CREEK, headwaters to mouth (Arrow Creek)	5	40.98	MILES	C-3	N		N				F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Animal Feeding Operations (NPS)
														Selenium	Crop Production (Crop Land or Dry Land)
														Total Dissolved Solids	Natural Sources
Judith - Arrow	MT41R001_020	ARROW CREEK, Surprise Creek to mouth (Missouri River)	5/2B	69.7	MILES	C-3	P		P				F	Iron	Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040103 Judith **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Judith - Arrow	MT41S001_010	JUDITH RIVER, Big Spring Creek to mouth (Missouri River)	4C	72.02	MILES	B-2	P	X		F	F	F	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Rangeland Grazing
Judith - Arrow	MT41S001_020	JUDITH RIVER, Ross Fork to Big Spring Creek	5	16.15	MILES	B-1	P	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Cause Unknown Nitrate/Nitrite (Nitrite + Nitrate as N) Physical substrate habitat alterations Sedimentation/Siltation	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Natural Sources Source Unknown
Judith - Arrow	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	5	34.55	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Nitrogen, Nitrate Phosphorus (Total) Salinity Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Non-irrigated Crop Production
Judith - Arrow	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mouth (Judith River)	5	45.29	MILES	C-3	N		N				F	Iron Selenium Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Crop Production with Subsurface Drainage Natural Sources Source Unknown
Judith - Arrow	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	5	10.74	MILES	C-3	P		P	X	X	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen, Nitrate Other anthropogenic substrate alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Judith - Arrow	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	5	70.08	MILES	C-3	P		P				F	Iron Nitrate/Nitrite (Nitrite + Nitrate as N)	Animal Feeding Operations (NPS) Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040103 Judith **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Judith - Arrow	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	5	70.08	MILES	C-3	P		P				F	Nitrogen (Total)	Source Unknown
Judith - Arrow	MT41S002_070	ROSS FORK JUDITH RIVER, headwaters to mouth (Judith River)	5	64.23	MILES	B-1	N	N		F	F	P	F	Alteration in stream-side or littoral vegetative covers	Channelization
														BOD, Biochemical oxygen demand	Loss of Riparian Habitat
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Permitted Runoff from Confined Animal Feeding Operations (CAFOs)
														Sedimentation/Siltation	Source Unknown
Judith - Arrow	MT41S002_080	SOUTH FORK JUDITH RIVER, headwaters to mouth	5	21.16	MILES	B-1	P	P		F	F	X	X	Physical substrate habitat alterations	Forest Roads (Road Construction and Use)
														Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
															Site Clearance (Land Development or Redevelopment)
Judith - Arrow	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	5	6.17	MILES	C-3	N		N				X	Cyanide	Acid Mine Drainage
														Iron	Impacts from Abandoned Mine Lands (Inactive)
														Selenium	Mine Tailings
														Thallium	
Big Springs	MT41S004_010	BIG SPRING CREEK, East Fork Big Spring Creek to Casino Creek	4A	6.24	MILES	B-2	P	P		F	F	F	P	Polychlorinated biphenyls	Aquaculture (Permitted)
															Contaminated Sediments
Big Springs	MT41S004_020	BIG SPRING CREEK, East Fork to mouth (Judith River)	4A	24.9	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Nitrogen (Total)	Aquaculture (Permitted)
														Phosphorus (Total)	Channelization
														Polychlorinated biphenyls	Contaminated Sediments
														Sedimentation/Siltation	Dam or Impoundment
															Grazing in Riparian or Shoreline Zones
															Loss of Riparian Habitat
															Streambank Modifications/destablization
															Unspecified Urban Stormwater
Big Springs	MT41S004_040	CASINO CREEK, headwaters to mouth (Big Spring Creek)	5	13.56	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Animal Feeding Operations (NPS)
														Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Nitrogen (Total)	Loss of Riparian Habitat

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040103 Judith **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Springs	MT41S004_040	CASINO CREEK, headwaters to mouth (Big Spring Creek)	5	13.56	MILES	B-1	P	P		F	F	F	P	Phosphorus (Total)	Site Clearance (Land Development or Redevelopment)
Big Springs	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	5	19.97	MILES	B-1	P	P		P	P	P	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Other flow regime alterations Oxygen, Dissolved Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT40E001_010	MISSOURI RIVER, Bullwhacker Creek to Fort Peck Reservoir	5	49.02	MILES	B-3	P		P	F	F	N	X	Alteration in stream-side or littoral vegetative covers Arsenic Copper	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Landusky	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	5	2.04	MILES	C-3	N		N				X	Arsenic Cadmium Copper pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Fort Peck Area Tributaries	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	5	19.34	MILES	C-3	N		N				X	Cadmium Copper Mercury Zinc pH	Impacts from Abandoned Mine Lands (Inactive)
Fort Peck Area Tributaries	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	5	34.16	MILES	C-3	N		N				F	Aluminum Copper Iron Lead	Coal Mining Natural Sources
Landusky	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	5	4.04	MILES	C-3	N		N				X	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Mercury Selenium Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Landusky	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	5	4.61	MILES	C-3	N		N				X	Aluminum Cadmium	Impacts from Abandoned Mine Lands (Inactive)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	5	4.61	MILES	C-3	N		N				X	Copper Lead Mercury Selenium Zinc pH	
Landusky	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	5	2.91	MILES	C-3	N		N				X	Cadmium Chromium (total) Copper Lead Mercury Selenium Zinc pH	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Landusky	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	5	39.19	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Fecal Coliform Lead Mercury Selenium Zinc pH	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Landusky	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	5	1.74	MILES	C-3	P		P	P	P	N	P	Alteration in stream-side or littoral vegetative covers Copper Lead Mercury	Rangeland Grazing Surface Mining

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	5	1.74	MILES	C-3	P		P	P	P	N	P	Nitrates	
														Selenium	
														pH	
Landusky	MT40E002_110	SULLIVAN CREEK, headwaters to mouth (Rock Creek)	4C	.51	MILES	C-3	N		N				N	Alteration in stream-side or littoral vegetative covers	Open Pit Mining
														Fish-Passage Barrier	Subsurface (Hardrock) Minining
														Other flow regime alterations	Surface Mining
														Physical substrate habitat alterations	
Fort Peck Area Tributaries	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	5	21.11	MILES	C-3	N		N				F	Alteration in stream-side or littoral vegetative covers	Natural Sources
														Aluminum	Source Unknown
														Iron	
														Lead	
														Phosphorus (Total)	
														Total Kjehldahl Nitrogen (TKN)	
Redwater	MT40E003_010	TIMBER CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	5	89.42	MILES	C-3	P		P				F	Phosphorus (Total)	Natural Sources
														Total Kjehldahl Nitrogen (TKN)	Source Unknown
Redwater	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	5	36.37	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Cadmium	Source Unknown
														Copper	
														Nitrates	
														Sulfates	
Missouri River	MT40E004_010	FORT PECK RESERVOIR	5	245000	ACRES	B-2	I	I		X	X	N	P	Aquatic Plants - Native	Agriculture
														Lead	Atmospheric Depositon - Toxics
														Mercury	Historic Bottom Deposits (Not Sediment)
															Impacts from Abandoned Mine Lands (Inactive)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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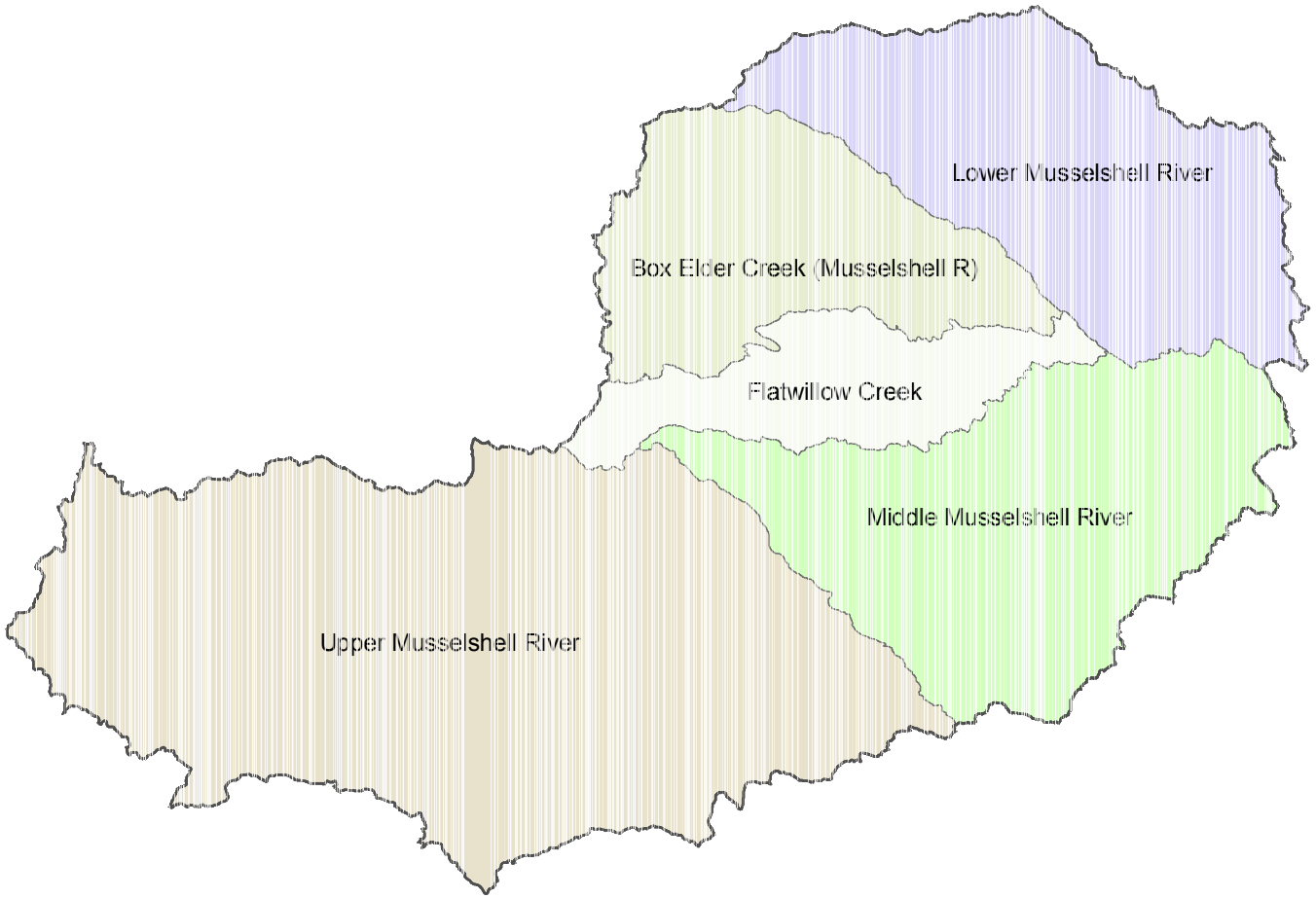
HUC 10040105 Big Dry **Watershed** Middle Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big and Little Dry	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	5	98.62	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Nitrogen, Nitrate Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Agriculture Municipal Point Source Discharges

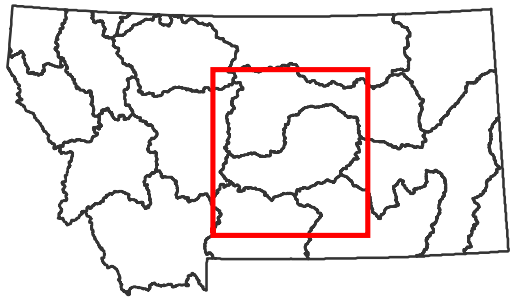
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Musselshell Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10040201	Upper Musselshell River
10040202	Middle Musselshell River
10040203	Flatwillow Creek
10040204	Box Elder Creek (Musselshell R)
10040205	Lower Musselshell River



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Appendix A: Impaired Waters

HUC 10040201 Upper Musselshell **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper/Middle Musselshell	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	5	55.3	MILES	B-2	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Irrigated Crop Production
Upper/Middle Musselshell	MT40A001_020	MUSSELSHELL RIVER, Deadmans Basin Supply Canal to HUC boundary near Roundup	5	94.49	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Non-irrigated Crop Production
Upper/Middle Musselshell	MT40A002_010	NORTH FORK MUSSELSHELL RIVER, headwaters to confluence with the South Fork Musselshell River	4C	38.19	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Grazing in Riparian or Shoreline Zones Natural Sources
Upper/Middle Musselshell	MT40A002_030	TRAIL CREEK, headwaters to mouth (North Fork Musselshell River)	5	10.1	MILES	B-1	N	N		F	F	F	P	Chlorophyll-a Sedimentation/Siltation	Rangeland Grazing Silviculture Harvesting Source Unknown
Upper/Middle Musselshell	MT40A002_040	MILL CREEK, headwaters to mouth (North Fork Musselshell River)	5	4.81	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Harvesting Source Unknown
Careless Creek	MT40A002_050	CARELESS CREEK, confluence with Deadmans Basin Canal to mouth (Musselshell River)	4A	17	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Channel Erosion/Incision from Upstream Hydromodifications Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Upper/Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	5	98.64	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total)	Flow Alterations from Water Diversions Rangeland Grazing Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10040201 Upper Musselshell **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper/Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	5	98.64	MILES	C-3	P		P				F	Total Kjehldahl Nitrogen (TKN)	
Upper/Middle Musselshell	MT40A002_080	PAINTED ROBE CREEK, headwaters to mouth (Musselshell River)	5	40.92	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Non-irrigated Crop Production
														Salinity	Rangeland Grazing
														Total Kjehldahl Nitrogen (TKN)	
Upper/Middle Musselshell	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	5	18.19	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Highway/Road/Bridge Runoff (Non-construction Related)
														Nitrogen (Total)	Livestock (Grazing or Feeding Operations)
														Other flow regime alterations	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
														Total Kjehldahl Nitrogen (TKN)	
Upper/Middle Musselshell	MT40A005_010	DEADMANS BASIN RESERVOIR	5	1903	ACRES	B-1	N	N		N	F	N	F	Copper	Natural Sources
														Iron	Source Unknown
														Lead	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040202 Middle Musselshell **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper/Middle Musselshell	MT40C001_010	MUSSELSHELL RIVER, HUC boundary near Roundup to Flatwillow Creek	4C	119.77	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations	Agriculture Channelization Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Upper/Middle Musselshell	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	5	117.27	MILES	C-3	N		N				F	Iron Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload) Specific Conductance Sulfates Total Kjehldahl Nitrogen (TKN)	Above Ground Storage Tank Leaks (Tank Farms) Natural Sources Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10040203 Flatwillow **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flatwillow - Box Elder	MT40B001_021	FLATWILLOW CREEK, headwaters to Highway 87 bridge	5	40.11	MILES	B-2	P	P		F	P	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing
Flatwillow - Box Elder	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	5	99.88	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Low flow alterations Mercury Nitrogen, Nitrate Physical substrate habitat alterations Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing Source Unknown
Flatwillow - Box Elder	MT40B001_040	NORTH FORK FLATWILLOW CREEK, headwaters to confluence with South Fork	5	27.56	MILES	B-2	P	P		F	F	F	F	Sedimentation/Siltation	Agriculture Loss of Riparian Habitat Rangeland Grazing

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10040204 Box Elder **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flatwillow - Box Elder	MT40B002_010	McDONALD CREEK, North and South Forks to mouth (Box Elder Creek)	5	89.18	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Specific Conductance Total Dissolved Solids	Agriculture Managed Pasture Grazing Source Unknown
Flatwillow - Box Elder	MT40B002_020	CHICAGO GULCH, headwaters to mouth (Fords Creek)	5	2.98	MILES	C-3	P		X				X	Lead Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Flatwillow - Box Elder	MT40B002_030	COLLAR GULCH, headwaters to mouth (Fords Creek)	5	6.38	MILES	C-3	P		P				X	Lead Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Flatwillow - Box Elder	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	5	3.75	MILES	C-3	N		N				N	Alteration in stream-side or littoral vegetative covers Antimony Arsenic Cyanide Iron Mercury Sedimentation/Siltation Zinc	Grazing in Riparian or Shoreline Zones Heap-leach Extraction Mining Mine Tailings

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

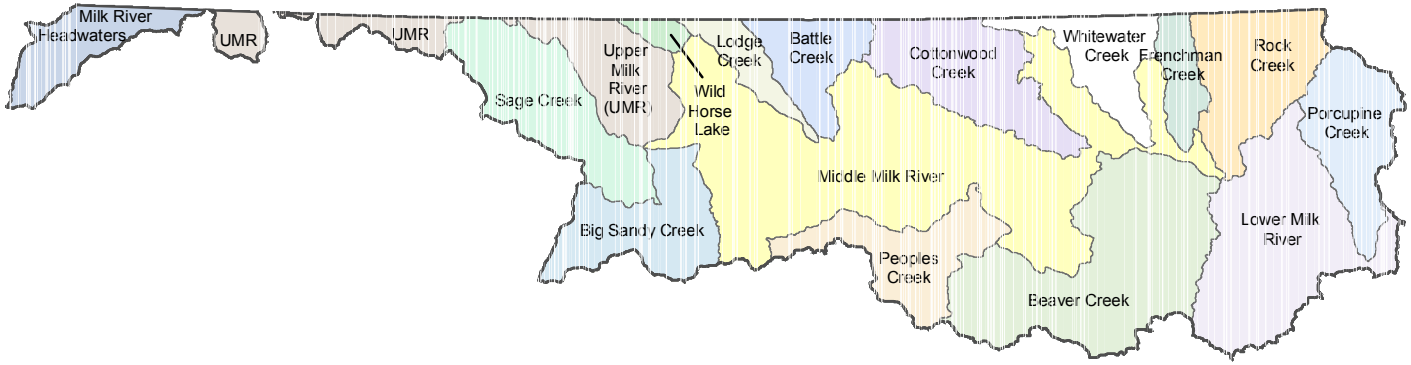
HUC 10040205 Lower Musselshell **Watershed** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Musselshell	MT40C003_010	MUSSELSHELL RIVER, Flatwillow Creek to Fort Peck Reservoir	4C	75.94	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Impacts from Resort Areas (Winter and Non-winter Resorts) Streambank Modifications/destablization
Lower Musselshell	MT40C004_030	BLOOD CREEK, Dovetail County Road to mouth (Musselshell River)	4C	57.36	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Natural Sources

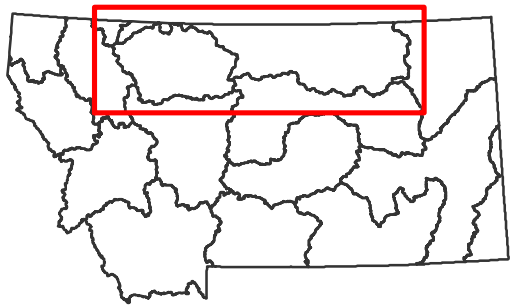
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Milk
Sub-Major Basin

Missouri River Basin



USGS HUC	HUC NAME
10050001	Milk River Headwaters
10050002	Upper Milk River
10050003	Wild Horse Lake
10050004	Middle Milk River
10050005	Big Sandy Creek
10050006	Sage Creek
10050007	Lodge Creek
10050008	Battle Creek
10050009	Peoples Creek
10050010	Cottonwood Creek
10050011	Whitewater Creek
10050012	Lower Milk River
10050013	Frenchman Creek
10050014	Beaver Creek (Milk R)
10050015	Rock Creek
10050016	Porcupine Creek



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Appendix A: Impaired Waters

HUC 10050002 Upper Milk **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Milk	MT40F003_010	MILK RIVER, Eastern, Canada border to Fresno Reservoir	5	39.66	MILES	B-3	N		N	F	N	N	F	Copper High Flow Regime Iron Lead	Flow Alterations from Water Diversions Natural Sources Source Unknown
Upper Milk	MT40F005_010	FRESNO RESERVOIR (Milk River)	4C	4000	ACRES	B-3	P		P	F	F	X	X	Other flow regime alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050004 Middle Milk **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J001_011	MILK RIVER, Fresno Dam to Thirtymile Creek	5	113.28	MILES	B-3	X		X	F	F	N	X	Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_012	MILK RIVER, Thirtymile Creek to Dobson Creek	5	58.19	MILES	B-3	X		X	F	F	N	X	Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_013	MILK RIVER, Dobson Creek to Whitewater Creek	5	102.75	MILES	B-3	X		X	F	F	N	X	Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_020	MILK RIVER, Whitewater Creek to Beaver Creek	5	38.24	MILES	B-3	P		N	F	F	F	F	Alteration in stream-side or littoral vegetative covers Iron Nitrates Other flow regime alterations	Crop Production (Crop Land or Dry Land) Flow Alterations from Water Diversions Irrigated Crop Production Natural Sources Rangeland Grazing
Middle Milk and Tributaries	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	5	24.92	MILES	B-1	N	N		F	F	N	F	Iron Lead Mercury Other flow regime alterations Sedimentation/Siltation Temperature, water	Channelization Natural Sources Source Unknown
Middle Milk and Tributaries	MT40J002_020	BULLHOOK CREEK, headwaters to the Bullhook Dam, T32N R16E S16	5	24.9	MILES	B-3	N		N	F	F	F	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Sedimentation/Siltation Temperature, water	Habitat Modification - other than Hydromodification Natural Sources Residential Districts Source Unknown Streambank Modifications/destablization
Middle Milk and Tributaries	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	5	50.17	MILES	B-1	N	N		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050004 Middle Milk **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	5	50.17	MILES	B-1	N	N		F	F	F	F	Phosphorus (Total)	Rangeland Grazing
														Sedimentation/Siltation	Source Unknown
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050005 Big Sandy **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Sandy - Sage	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	5	62.93	MILES	B-3	P		F	F	F	N	X	Mercury	Agriculture
														Salinity	Atmospheric Depositon - Nitrogen
														Sulfates	Crop Production (Crop Land or Dry Land)
														Total Dissolved Solids	Natural Sources
															Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050006 Sage **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Sandy - Sage	MT40G001_011	SAGE CREEK, Laird Creek to the confluence of Russell Creek, T36N R9E S32	4A	9.94	MILES	B-1	P		P	P	N	P	F	Alteration in stream-side or littoral vegetative covers Salinity Sulfates Total Dissolved Solids	Agriculture Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Non-irrigated Crop Production
Big Sandy - Sage	MT40G001_012	SAGE CREEK, the section line between 1 & 12 T36N R6E to the mouth	4A	111.75	MILES	B-3	P		P	P	N	P	F	Alteration in stream-side or littoral vegetative covers Salinity Sulfates Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Non-irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050007 Lodge **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	5	83.08	MILES	B-3	P		P	P	F	N	F	Low flow alterations	Agriculture
														Mercury	Dam or Impoundment
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Golf Courses
														Oxygen, Dissolved	Residential Districts
														Phosphorus (Total)	Source Unknown
														Total Kjehldahl Nitrogen (TKN)	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050008 Battle **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J004_010	BATTLE CREEK, Canadian border to mouth (Milk River)	5	74.33	MILES	B-3	P		P	F	F	F	F	Alteration in stream-side or littoral vegetative covers Cause Unknown Chlorophyll-a Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Rangeland Grazing

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050009 Peoples **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	5	57.19	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Mercury Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Temperature, water	Grazing in Riparian or Shoreline Zones Source Unknown
Landusky	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	5	1.36	MILES	B-1	N	N		F	F	N	X	Aluminum Arsenic Cadmium Nickel Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Surface Mining
Landusky	MT40I001_040	KING CREEK, headwaters to Fort Belknap Reservation boundary	5	.9	MILES	B-1	N	N		F	F	F	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Selenium	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Landusky	MT40I001_050	LODGE POLE CREEK, headwaters to Fort Belknap Reservation boundary	5	4.34	MILES	B-1	N	N		F	F	N	X	Alteration in stream-side or littoral vegetative covers Cadmium Cause Unknown Mercury	Source Unknown Subsurface (Hardrock) Minining Surface Mining
Landusky	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	5	1.73	MILES	B-1	N	N		F	F	N	F	Aluminum Arsenic Cadmium Copper Cyanide Iron Lead Nickel Selenium	Impacts from Abandoned Mine Lands (Inactive) Natural Sources Open Pit Mining

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050009 Peoples **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	5	1.73	MILES	B-1	N	N		F	F	N	F	Thallium Zinc pH	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050010 Cottonwood **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J005_020	COTTONWOOD CREEK, Black Coulee to mouth (Milk River)	5/2B	57.36	MILES	B-3	P		P	F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Iron	Natural Sources
														Sedimentation/Siltation	Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050011 Whitewater **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40K001_010	WHITEWATER CREEK, Canadian border to mouth (Milk River)	5	67.63	MILES	B-3	F		F	F	F	N	F	Mercury	Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10050012 Lower Milk **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Milk	MT40O001_010	MILK RIVER, Beaver Creek to mouth (Missouri River)	5	134.52	MILES	B-3	X		X	P	P	N	T	Fecal Coliform	Agriculture
														Lead	Dam or Impoundment
														Mercury	Source Unknown
Lower Milk	MT40O002_020	BUGGY CREEK, headwaters to mouth (Milk River)	5	46.53	MILES	B-3	P		P	F	F	F	F	Iron	Natural Sources
Lower Milk	MT40O002_031	WILLOW CREEK, headwaters to Halfpint Reservoir, T25N R35E S26	5	10.38	MILES	B-3	P		P	F	F	X	X	Alteration in stream-side or littoral vegetative covers	Agriculture
														Other flow regime alterations	Grazing in Riparian or Shoreline Zones
														Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
														Sedimentation/Siltation	Streambank Modifications/destablization
															Upstream Impoundments (e.g., PL-566 NRCS Structures)
Lower Milk	MT40O002_033	WILLOW CREEK, Halfpint Reservoir to mouth (Milk River), T28N R40E S29	5	76.13	MILES	B-3	N		N	F	F	X	X	Alteration in stream-side or littoral vegetative covers	Agriculture
														Other flow regime alterations	Grazing in Riparian or Shoreline Zones
														Physical substrate habitat alterations	
														Sedimentation/Siltation	
Lower Milk	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	5	16.53	MILES	B-3	N		N	F	F	F	F	Alteration in stream-side or littoral vegetative covers	Dam or Impoundment
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
														Solids (Suspended/Bedload)	Rangeland Grazing
Lone Tree Creek	MT40O002_050	LONE TREE CREEK, headwaters to mouth at Willow Creek	4A	22.22	MILES	B-3	P		P	X	X	X	X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
															Streambank Modifications/destablization

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050013 Frenchman **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40L001_010	FRENCHMAN CREEK, Canadian border to mouth (Milk River)	4C	82.5	MILES	B-3	P		P	P	P	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations	Agriculture Dam or Impoundment Grazing in Riparian or Shoreline Zones Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050014 Beaver **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	5	5.4	MILES	B-3	N		N	F	F	F	F	Cadmium	Impacts from Abandoned Mine Lands (Inactive)
														Iron	Source Unknown
														Lead	
Beaver	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Creek	5	55.12	MILES	B-3	P		P	F	F	N	F	Mercury	Source Unknown
														Phosphorus (Total)	
Beaver	MT40M001_014	BEAVER CREEK, Big Warm Creek to Un-Named tributary, T30N R32E S32	5	97.99	MILES	B-3	P		P	F	F	N	F	Mercury	Source Unknown
														Phosphorus (Total)	
Beaver	MT40M001_020	BEAVER CREEK, Bowdoin Canal to mouth (Milk River)	5	86.86	MILES	B-3	P		P	F	F	X	X	Alteration in stream-side or littoral vegetative covers	Agriculture
														Nitrogen (Total)	Source Unknown
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Uranium	
Beaver	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	5	36.88	MILES	B-3	N		N	N	F	N	F	Arsenic	Natural Sources
														Cadmium	Source Unknown
														Copper	
														Iron	
														Lead	
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
														Oxygen, Dissolved	
														Phosphorus (Total)	
														Solids (Suspended/Bedload)	
														Total Kjehldahl Nitrogen (TKN)	
														Zinc	
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5/2B	76.67	MILES	B-3	N		N	F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Copper	Animal Feeding Operations (NPS)
														Lead	Natural Sources
														Oxygen, Dissolved	Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10050014 Beaver **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5	76.67	MILES	B-3	N		N	F	F	F	F	Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	
Beaver	MT40M002_030	BIG WARM CREEK, Fort Belknap Reservation boundary to mouth (Beaver Creek)	5	57.08	MILES	B-3	P		P	P	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Phosphorus (Total) Physical substrate habitat alterations Salinity Sedimentation/Siltation	Agriculture Dam or Impoundment Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Beaver	MT40M003_010	LAKE BOWDOIN	5	3500	ACRES	B-3	P		X	P	P	N	X	Salinity Selenium	Agriculture Dam or Impoundment Irrigated Crop Production
Beaver	MT40M003_020	NELSON RESERVOIR	5	3901.7	ACRES	B-3	P		P	F	F	X	P	Other flow regime alterations Phosphorus (Total)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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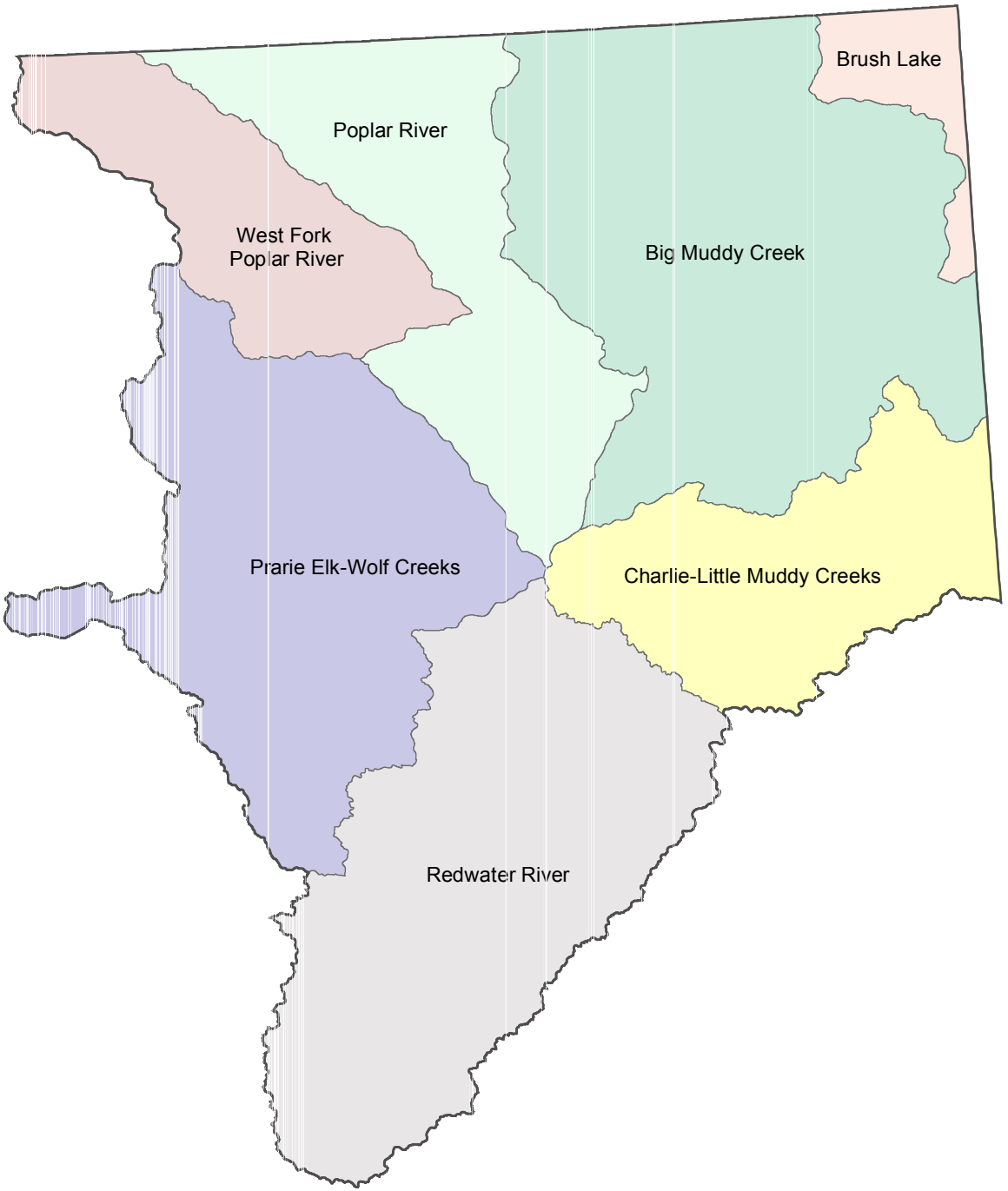
HUC 10050016 Porcupine **Watershed** Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Milk - Rock	MT40O003_010	PORCUPINE CREEK, confluence of West and Middle Forks to mouth (Milk River)	5	49.29	MILES	B-3	P		P	P	P	F	X	Nitrogen (Total) Phosphorus (Total) Salinity	Non-irrigated Crop Production

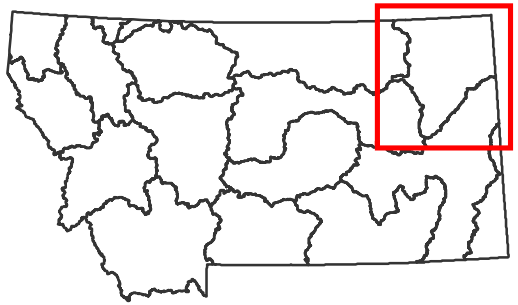
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



Lower Missouri Sub-Major Basin

Missouri River Basin

USGS HUC	HUC NAME
10060001	Prarie Elk-Wolf Creeks
10060002	Redwater River
10060003	Poplar River
10060004	West Fork Poplar River
10060005	Charlie-Little Muddy Creeks
10060006	Big Muddy Creek
10060007	Brush Lake



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Appendix A: Impaired Waters

HUC 10060001 Prairie Elk-Wolf **Watershed** Lower Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40S001_011	MISSOURI RIVER, Fort Peck Dam to Milk River	5	9.79	MILES	B-2	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40S001_012	MISSOURI RIVER, Milk River to Poplar River	5	81.86	MILES	B-3	P		P	F	F	F	X	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
Redwater	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	5	38.87	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Physical substrate habitat alterations Total Kjehldahl Nitrogen (TKN)	Agriculture Grazing in Riparian or Shoreline Zones
Redwater	MT40S002_030	SAND CREEK, confluence of East and West Rorks to mouth (Missouri River)	5	19.82	MILES	C-3	P		P				X	Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Non-irrigated Crop Production Rangeland Grazing

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10060002 Redwater **Watershed** Lower Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Redwater	MT40P001_012	REDWATER RIVER, Hell Creek to Buffalo Springs Creek	5	7.67	MILES	C-3	P		F				F	Cause Unknown	Municipal Point Source Discharges
														Nitrogen (Total)	Natural Sources
														Phosphorus (Total)	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
Redwater	MT40P001_014	REDWATER RIVER, Pasture Creek to mouth (Missouri River)	4C	60.45	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers	Natural Sources
														Physical substrate habitat alterations	Rangeland Grazing
Redwater	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	5	50.61	MILES	C-3	P		P				P	Chlorophyll-a	Agriculture
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Specific Conductance	
														Sulfates	
														Total Dissolved Solids	
														Total Kjehldahl Nitrogen (TKN)	
Redwater	MT40P002_020	HORSE CREEK, headwaters to mouth at Redwater River near town of Circle	5	32.43	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Non-irrigated Crop Production
														Physical substrate habitat alterations	Rangeland Grazing
														Salinity	Source Unknown
Redwater	MT40P002_030	PASTURE CREEK, headwaters to mouth at Redwater River	5	39.72	MILES	C-3	P		N				F	Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS)
															Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10060003 Poplar **Watershed** Lower Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40Q001_011	POPLAR RIVER, T35N R48E S17 to the mouth (Fort Peck Reservation), T33N R48E S12	5	29.94	MILES	B-2	P	I		F	F	F	N	Escherichia coli	Natural Sources
														Sedimentation/Siltation	Rangeland Grazing
														Temperature, water	Source Unknown
Lower Missouri	MT40Q001_012	MIDDLE FORK POPLAR RIVER, T37N R45E S6 to the mouth (Poplar River), T36N R48E S33	5	36.46	MILES	B-2	P	I		F	F	F	N	Escherichia coli	Natural Sources
														Sedimentation/Siltation	Rangeland Grazing
														Temperature, water	Source Unknown
Lower Missouri	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	5	41.95	MILES	B-2	P	I		P	F	F	F	Iron	Crop Production (Crop Land or Dry Land)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
														Phosphorus (Total)	Source Unknown
														Sodium	
														Specific Conductance	
														Total Kjehldahl Nitrogen (TKN)	
Lower Missouri	MT40Q002_020	EAST FORK POPLAR RIVER, Canada border to mouth (Poplar River)	5/2B	21.58	MILES	B-2	P	I		P	P	F	P	Chlorophyll-a	Impacts from Hydrostructure Flow Regulation/modification
														Iron	Natural Sources
														Other flow regime alterations	Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10060005 Charlie-Little Muddy **Watershed** Lower Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40S003_010	MISSOURI RIVER, Poplar River to North Dakota border	5	91.97	MILES	B-3	P		P	F	F	F	X	Other flow regime alterations	Dam or Impoundment
														Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40S004_010	CHARLIE CREEK, East and Middle Charlie Creek to mouth (Missouri River)	5	32.86	MILES	C-3	N		N				F	Fish-Passage Barrier	Crop Production (Crop Land or Dry Land)
														Iron	Highways, Roads, Bridges, Infrasturcture (New Construction)
														Specific Conductance	Natural Sources
														Total Kjehldahl Nitrogen (TKN)	
Lower Missouri	MT40S004_020	HARDSCRABBLE CREEK, headwaters to mouth (Missouri River)	5	35.91	MILES	C-3	N		N				F	Nitrogen (Total)	Agriculture
														Specific Conductance	Natural Sources
														Total Dissolved Solids	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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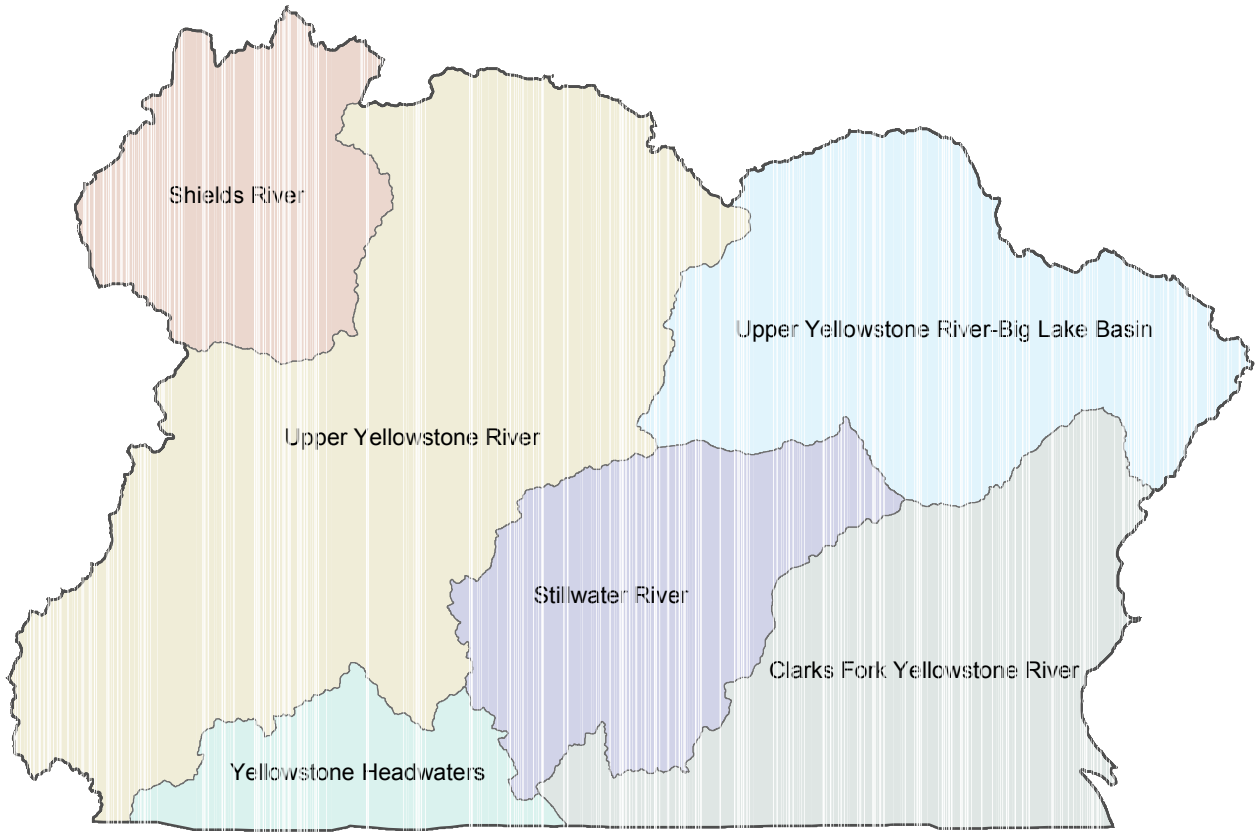
HUC 10060006 Big Muddy **Watershed** Lower Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40R001_010	BIG MUDDY CREEK, north corner of Fort Peck Reservation boundary to mouth (Missouri River)	5	82.08	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	5	119.54	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Copper Lead Mercury Organic Enrichment (Sewage) Biological Indicators Phosphorus (Total) Total Kjehldahl Nitrogen (TKN) Zinc	Agriculture Grazing in Riparian or Shoreline Zones Non-irrigated Crop Production Source Unknown
Lower Missouri	MT40R003_010	MEDICINE LAKE	5	8599	ACRES	C-3	P		P				F	Cadmium Lead Mercury	Atmospheric Depositon - Toxics Source Unknown

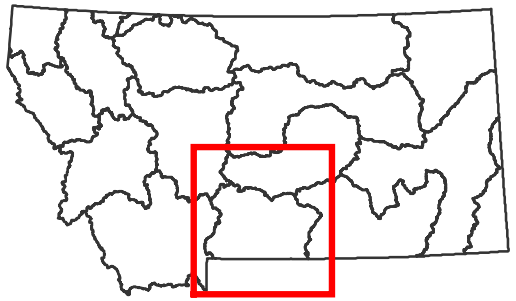
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Upper Yellowstone Sub-Major Basin

Yellowstone River Basin



USGS HUC	HUC NAME
10070001	Yellowstone Headwaters
10070002	Upper Yellowstone River
10070003	Shields River
10070004	Upper Yellowstone River-Big Lake Basin
10070005	Stillwater River (Yellowstone R)
10070006	Clarks Fork Yellowstone River



Montana Department of Environmental Quality

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HUC 10070001 Yellowstone Headwaters **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	5	4.79	MILES	B-1	P	P		F	F	N	F	Ammonia (Total) Arsenic Copper Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Natural Sources Source Unknown Subsurface (Hardrock) Minining Surface Mining
Yellowstone River	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	5	8.68	MILES	A-1	P	P		X	X	N	X	Ammonia (Un-ionized) Arsenic Copper Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Natural Sources Source Unknown Subsurface (Hardrock) Minining Surface Mining
Paradise	MT43B002_010	REESE CREEK, border to mouth (Yellowstone River)	4C	5.23	MILES	A-1	F	P		F	F	F	F	Fish-Passage Barrier	Source Unknown
Paradise	MT43B002_021	BEAR CREEK, 1/2 mi. below Jardine Mine to mouth (Yellowstone River)	5	3.03	MILES	B-1	P	P		F	P	F	P	Low flow alterations Temperature, water	Flow Alterations from Water Diversions
Cooke City	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	4A	4.86	MILES	B-1	P	P		X	X	X	F	Copper Iron Lead Manganese	Acid Mine Drainage Mine Tailings
Cooke City	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	4A	2.56	MILES	B-1	X	N		X	X	N	X	Aluminum Cadmium Copper Iron Lead Manganese Zinc	Acid Mine Drainage Mine Tailings Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10070002 Upper Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43B003_010	YELLOWSTONE RIVER, Reese Creek to Bridger Creek	4C	119.01	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Streambank Modifications/destablization
Yellowstone - Sweet Grass	MT43B004_011	OTTER CREEK, 2 mi downstream of Highway 191 bridge to mouth (Yellowstone River)	4C	29.57	MILES	B-1	P	P		X	X	X	X	Other flow regime alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_012	OTTER CREEK, headwaters to 2 mi downstream of Highway 191 bridge	5	24.5	MILES	B-1	P	P		F	F	F	I	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture
Yellowstone - Sweet Grass	MT43B004_021	BIG TIMBER CREEK, Swamp Creek to mouth (Yellowstone River)	4C	5.37	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	5	26.75	MILES	B-1	P	P		F	F	P	I	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Manganese Nickel Sedimentation/Siltation Selenium Solids (Suspended/Bedload)	Agriculture Grazing in Riparian or Shoreline Zones Source Unknown
Yellowstone - Sweet Grass	MT43B004_031	LOWER DEER CREEK, 4 mile upstream to mouth (Yellowstone River)	4C	4.43	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_041	UPPER DEER CREEK, Cartwright Gulch to mouth (Yellowstone River)	4C	6.95	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_042	UPPER DEER CREEK, headwaters to Cartwright Gulch	5	16.63	MILES	B-1	P	P		F	F	F	I	Alteration in stream-side or littoral vegetative covers Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones Silviculture Activities
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	5	1.37	MILES	B-1	P	P		F	F	F	P	Excess Algal Growth Fish-Passage Barrier	Agriculture Channelization

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10070002 Upper Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	5	1.37	MILES	B-1	P	P		F	F	F	P	Nitrate/Nitrite (Nitrite + Nitrate as N)	Habitat Modification - other than Hydromodification
														Sedimentation/Siltation	Source Unknown
Paradise	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	5	13.44	MILES	B-1	P	P		F	F	F	F	Combined Biota/Habitat Bioassessments	Agriculture
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Channelization
														Sedimentation/Siltation	Source Unknown
Paradise	MT43B004_061	TOM MINER CREEK, Tepee Creek to mouth (Yellowstone River)	5	.73	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Flow Alterations from Water Diversions
														Temperature, water	
Paradise	MT43B004_071	MILL CREEK, National Forest boundary to mouth (Yellowstone River)	4C	7.4	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Agriculture
															Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_081	PINE CREEK, 2.5 miles upstream to mouth (Yellowstone River)	4C	2.42	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
															Irrigated Crop Production
Paradise	MT43B004_090	SUCE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Yellowstone River)	4C	3.85	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_101	SIX MILE CREEK, National Forest boundary to mouth (Yellowstone River)	4C	6.19	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_102	SIX MILE CREEK, Absaroka-Beartooth Wilderness boundary to National Forest boundary	5	2.54	MILES	B-1	P	P		X	X	X	X	Other anthropogenic substrate alterations	Loss of Riparian Habitat
														Sedimentation/Siltation	Placer Mining
Big Creek (Yellowstone)	MT43B004_111	BIG CREEK, National Forest boundary to mouth (Yellowstone River)	4C	4.25	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Flow Alterations from Water Diversions
Paradise	MT43B004_120	MOL HERON CREEK, Yellowstone National Park boundary to mouth (Yellowstone River)	4C	9.03	MILES	B-1	P	P		F	F	F	F	Low flow alterations	Agriculture
Boulder - Big Timber	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	5	5.51	MILES	B-1	P	P		F	F	F	P	Copper	Impacts from Abandoned Mine Lands (Inactive)
														Iron	Irrigated Crop Production
														Lead	
														Low flow alterations	
														Silver	
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above	5	27.84	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture

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HUC 10070002 Upper Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	5	27.84	MILES	B-1	P	P		F	F	F	F	Chromium (total)	Grazing in Riparian or Shoreline Zones
														Copper	Source Unknown
														Iron	
														Lead	
														Nickel	
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
														Total Kjehldahl Nitrogen (TKN)	
Boulder - Big Timber	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	5	24.08	MILES	B-1	P	P		F	F	F	P	Copper	Source Unknown
														Excess Algal Growth	
														Iron	
														Lead	
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
														Phosphorus (Total)	
														Total Kjehldahl Nitrogen (TKN)	
Boulder - Big Timber	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	4A	9.02	MILES	B-1	P	P		F	F	N	F	Copper	Impacts from Abandoned Mine Lands (Inactive)
														Iron	
														Lead	
Boulder - Big Timber	MT43B004_141	EAST BOULDER RIVER, Elk Creek to mouth (Boulder River)	5	3.14	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Flow Alterations from Water Diversions
														Low flow alterations	Source Unknown
														Other anthropogenic substrate alterations	Streambank Modifications/destablization
														Sedimentation/Siltation	
Boulder - Big Timber	MT43B004_142	EAST BOULDER RIVER, NF boundary to Elk Creek	4C	3.07	MILES	B-1	P	P		F	F	I	P	Chlorophyll-a	Agriculture
														Low flow alterations	Source Unknown
Yellowstone - Sweet Grass	MT43B004_150	SWEET GRASS CREEK, headwaters to mouth (Yellowstone River)	4C	79.33	MILES	B-1	P	P		F	F	F	I	Alteration in stream-side or littoral vegetative covers	Agriculture
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	4A	1.55	MILES	B-1	N	N		X	X	X	X	Copper	
														Iron	

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HUC 10070002 Upper Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	4A	1.55	MILES	B-1	N	N		X	X	X	X	Lead	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10070003 Shields **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Shields	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	4A	18.99	MILES	B-1	P	P		X	X	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Shields	MT43A001_012	SHIELDS RIVER, headwaters to Cottonwood Creek	4A	44.99	MILES	B-1	P	P		X	X	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Silviculture Activities Streambank Modifications/destablization
Shields	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	4A	27.76	MILES	B-1	P	P		F	F	F	F	Low flow alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Impacts from Hydrostructure Flow Regulation/modification
Shields	MT43A002_020	ANTELOPE CREEK, headwaters to mouth (Shields River)	5	10.37	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Solids (Suspended/Bedload)	Agriculture Livestock (Grazing or Feeding Operations) Source Unknown
Shields	MT43A002_031	COTTONWOOD CREEK, confluence of Trespass Creek to mouth (Shields River)	4C	18.32	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Irrigated Crop Production
Shields	MT43A002_040	ELK CREEK, headwaters to mouth (Shields River)	4C	3.83	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Shields	MT43A002_051	ROCK CREEK, National Forest boundary to mouth (Shields River)	4C	14.34	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Flow Alterations from Water Diversions

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10070004 Upper Yellowstone-Lake Basin **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43F001_011	YELLOWSTONE RIVER, City of Laurel PWS to City of Billings PWS	5	19.7	MILES	B-2	N	I		F	F	I	N	Cause Unknown	Channelization
														Chlorophyll-a	Crop Production (Crop Land or Dry Land)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal Point Source Discharges
														Other anthropogenic substrate alterations	Streambank Modifications/destablization
														Physical substrate habitat alterations	
Yellowstone - Sweet Grass	MT43F002_010	DUCK CREEK, headwaters to mouth (Yellowstone River)	5	14.13	MILES	B-2	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Channelization
														Low flow alterations	Drought-related Impacts
														Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Yellowstone - Sweet Grass	MT43F002_021	CANYON CREEK, highway 532 to mouth (Yellowstone River)	4C	19.6	MILES	B-1	P	P		X	X	X	X	Other flow regime alterations	Flow Alterations from Water Diversions
Yellowstone - Sweet Grass	MT43F002_022	CANYON CREEK, headwaters to highway 532	5/2B	29.7	MILES	B-2	P	I		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Low flow alterations	Channelization
														Oxygen, Dissolved	Drought-related Impacts
														Sedimentation/Siltation	
Yellowstone - Sweet Grass	MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	5/2B	14.75	MILES	B-2	P	I		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Benthic-Macroinvertebrate Bioassessments	Channelization
														Other flow regime alterations	Drought-related Impacts
														Oxygen, Dissolved	Irrigated Crop Production
														Sedimentation/Siltation	Loss of Riparian Habitat
Lake Basin - Spidel	MT43F003_010	BIG LAKE	5	2806	ACRES	B-2	N	N		N	N	N	X	Salinity	Agriculture
Lake Basin - Spidel	MT43F003_020	HAILSTONE LAKE, T3N R20E S13	5	538	ACRES	B-2	P	N		N	N	N	X	Salinity	Agriculture
Lake Basin - Spidel	MT43F003_030	HALFBREED LAKE, T3N R21E S33	5	278	ACRES	B-2	P	P		P	P	P	X	Salinity	Agriculture

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10070005 Stillwater **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cooke City	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	4A	21.69	MILES	B-1	P	P		F	F	N	X	Copper	Acid Mine Drainage
														Iron	Highway/Road/Bridge Runoff (Non-construction Related)
														Manganese	Impacts from Abandoned Mine Lands (Inactive)
														Sedimentation/Siltation	Mine Tailings
														pH	Natural Sources
Stillwater - Columbus	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	5	45.59	MILES	B-1	P	P		F	F	N	F	Cadmium	Hardrock Mining Discharges (Permitted)
														Chromium (total)	Impacts from Abandoned Mine Lands (Inactive)
														Copper	Natural Sources
														Cyanide	Source Unknown
														Mercury	Watershed Runoff following Forest Fire
														Nickel	
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
Stillwater - Columbus	MT43C002_010	LODGEPOLE CREEK, headwaters to mouth (Castle Creek)	5	5.91	MILES	B-1	P	P		F	F	F	N	Chlorophyll-a	Irrigated Crop Production
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
															Source Unknown
Stillwater - Columbus	MT43C002_020	BAD CANYON CREEK, headwaters to mouth (Stillwater River)	4C	11.34	MILES	B-1	F	F		F	F	F	P	Chlorophyll-a	Rangeland Grazing
Stillwater - Columbus	MT43C002_030	CASTLE CREEK, headwaters to the mouth (Limestone Creek), T4S R15E S29	5	8.29	MILES	B-1	P	P		F	F	F	N	Chlorophyll-a	Livestock (Grazing or Feeding Operations)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
															Upstream Source
Stillwater - Columbus	MT43C002_041	GROVE CREEK, confluence of South Fork Grove Creek, T4S R18E S13 to the mouth (Stillwater River), T3S R18E S34	5	5.23	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	Irrigated Crop Production
														Phosphorus (Total)	Loss of Riparian Habitat
														Sedimentation/Siltation	Natural Sources
Stillwater - Columbus	MT43C002_050	FISHTAIL CREEK, headwaters to mouth (West Rosebud Creek)	5	14.8	MILES	B-1	P	P		F	F	F	F	Iron	Source Unknown
														Lead	
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth	5	13.16	MILES	B-1	P	P		F	F	F	N	Chlorophyll-a	Flow Alterations from Water

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10070005 Stillwater **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	5	13.16	MILES	B-1	P	P		F	F	F	N	Low flow alterations Sedimentation/Siltation	Diversions Irrigated Crop Production
Stillwater - Columbus	MT43C002_081	BUTCHER CREEK, highway 78 to mouth (Rosebud Creek)	5	22.02	MILES	B-1	P	P		F	P	F	X	High Flow Regime Physical substrate habitat alterations Solids (Suspended/Bedload)	Streambank Modifications/destablization Transfer of Water from an Outside Watershed
Stillwater - Columbus	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	5	4.98	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a Fish-Passage Barrier Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Hydrostructure Impacts on Fish Passage Natural Sources Source Unknown
Stillwater - Columbus	MT43C002_090	WEST ROSEBUD CREEK, headwaters to mouth (Rosebud Creek)	5	40.45	MILES	B-1	P	P		F	F	F	F	Benthic-Macroinvertebrate Bioassessments	Source Unknown
Stillwater - Columbus	MT43C002_100	ROSEBUD CREEK, East and West Branches to mouth (Stillwater River)	5	3.93	MILES	B-1	P	P		F	F	F	F	Benthic-Macroinvertebrate Bioassessments	Source Unknown
Cooke City	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	4A	1.94	MILES	B-1	N	N		N	N	N	N	Aluminum Cadmium Copper Iron Lead Manganese Sedimentation/Siltation Zinc pH	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10070006 Clarks Fork Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	5	46.22	MILES	B-2	P	P		P	P	I	P	Ammonia (Total) Chlorophyll-a Copper Iron Lead Low flow alterations Mercury Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Physical substrate habitat alterations Solids (Suspended/Bedload) Temperature, water Total Kjehldahl Nitrogen (TKN)	Habitat Modification - other than Hydromodification Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Source Unknown Streambank Modifications/destablization
Cooke City	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	4A	5.06	MILES	B-1	P	P		F	F	F	X	Cadmium Copper Lead Silver Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Clarks Fork Yellowstone	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	5/2B	38.57	MILES	B-1	P	I		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Solids (Suspended/Bedload) Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Rangeland Grazing
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	5	21.14	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10070006 Clarks Fork Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	5	21.14	MILES	B-1	N	N		F	F	F	N	High Flow Regime	Loss of Riparian Habitat
														Iron	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Transfer of Water from an Outside Watershed
														Phosphorus (Total)	
														Sedimentation/Siltation	
Clarks Fork Yellowstone	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	5	11.41	MILES	B-1	P	N		F	F	F	P	Chlorophyll-a	Agriculture
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Animal Feeding Operations (NPS)
														Phosphorus (Total)	Aquaculture (Permitted)
														Sedimentation/Siltation	Irrigated Crop Production
														Solids (Suspended/Bedload)	
Clarks Fork Yellowstone	MT43D002_050	RED LODGE CREEK, headwaters to Cooney Reservoir	4C	17.93	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
															Grazing in Riparian or Shoreline Zones
Clarks Fork Yellowstone	MT43D002_060	RED LODGE CREEK, Cooney Reservoir to mouth (Rock Creek)	5	12.07	MILES	B-1	P	P		X	X	X	X	Organic Enrichment (Sewage) Biological Indicators	Impacts from Hydrostructure Flow Regulation/modification
														Other flow regime alterations	Streambank Modifications/destablization
														Physical substrate habitat alterations	
Clarks Fork Yellowstone	MT43D002_070	WILLOW CREEK, headwaters to mouth (Cooney Reservoir)	5	36.46	MILES	B-1	P	P		X	X	X	X	Low flow alterations	Irrigated Crop Production
														Sedimentation/Siltation	
Clarks Fork Yellowstone	MT43D002_080	WEST RED LODGE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Red Lodge Creek)	5	14.39	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Natural Sources
															Source Unknown
Clarks Fork Yellowstone	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	5	21.77	MILES	B-1	N	I		P	P	N	F	Alteration in stream-side or littoral vegetative covers	Channelization
														Other flow regime alterations	Dam or Impoundment
														Oxygen, Dissolved	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Loss of Riparian Habitat
														Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems)	Natural Sources
														Solids (Suspended/Bedload)	Petroleum/natural Gas Production Activities (Permitted)
														Specific Conductance	Pipeline Breaks

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10070006 Clarks Fork Yellowstone **Watershed** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	5	21.77	MILES	B-1	N	I		P	P	N	F	Temperature, water	Rangeland Grazing
														Total Dissolved Solids	Upstream Source
														Total Kjehldahl Nitrogen (TKN)	
														Turbidity	
Cooke City	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	4A	3.34	MILES	B-1	N	N		P	P	N	P	Aluminum	Acid Mine Drainage
														Cadmium	Highway/Road/Bridge Runoff (Non-construction Related)
														Copper	Impacts from Abandoned Mine Lands (Inactive)
														Iron	Mine Tailings
														Lead	
														Manganese	
														Sedimentation/Siltation	
														Silver	
														Zinc	
														pH	
Clarks Fork Yellowstone	MT43D002_120	ROCK CREEK, Red Lodge Creek to mouth (Clarks Fork)	4C	16.02	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Flow Alterations from Water Diversions
															Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_131	ROCK CREEK, West Fork Rock Creek to Red Lodge Creek	4C	27.47	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Flow Alterations from Water Diversions
															Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_140	COTTONWOOD CREEK, headwaters to the mouth (Clarks Fork of Yellowstone), T3S R24E S24	5/2B	19.57	MILES	B-1	P	I		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Oxygen, Dissolved	Drought-related Impacts
														Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones
Clarks Fork Yellowstone	MT43D002_180	SOUTH FORK BRIDGER CREEK, tributary to Bridger Creek	5	9.39	MILES	B-1	N	I		F	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
														Iron	Natural Sources
														Sedimentation/Siltation	Source Unknown

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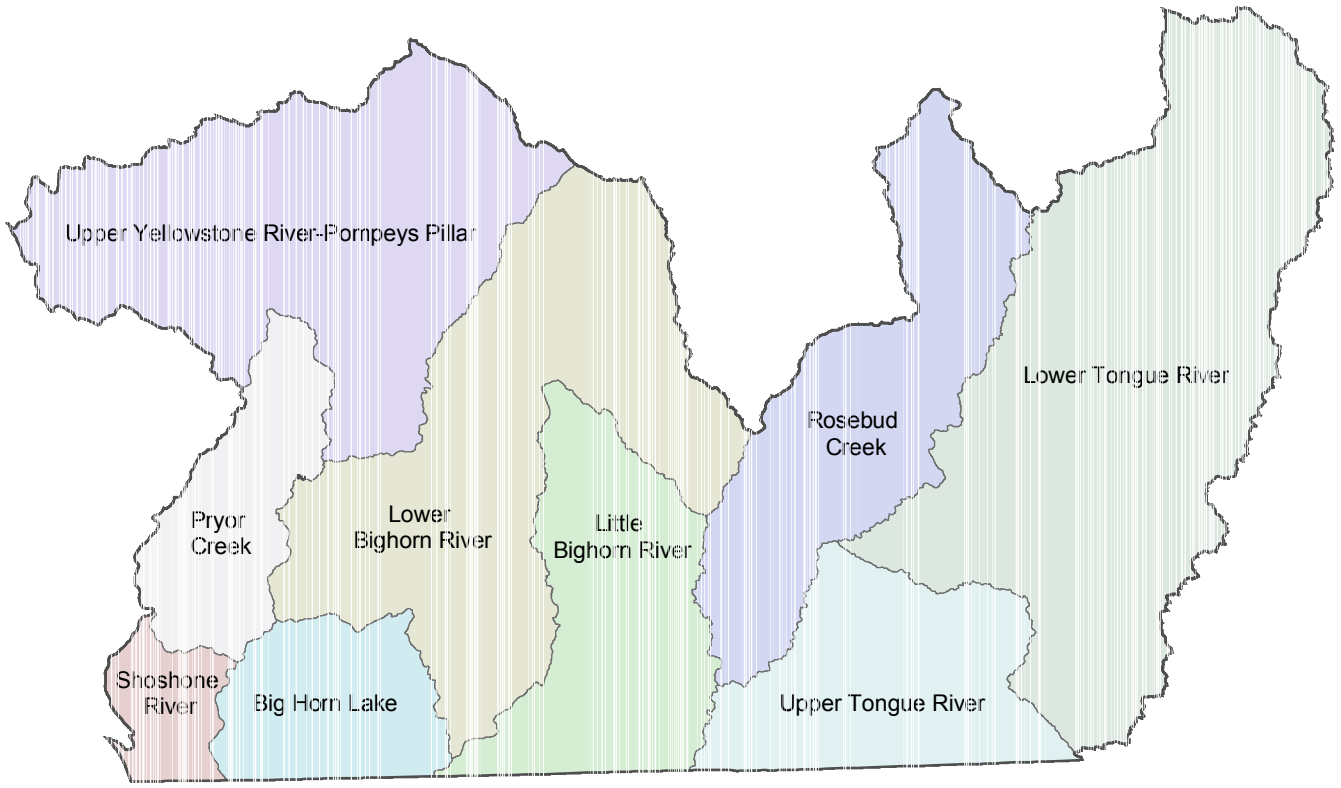
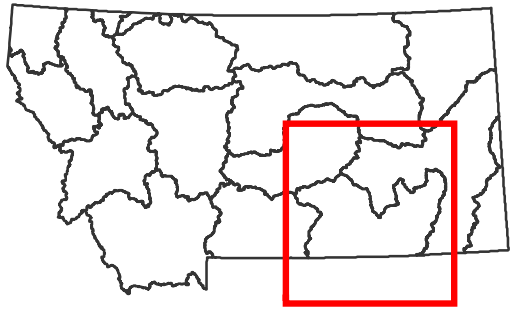
Middle Yellowstone Sub-Major Basin

Yellowstone River Basin



USGS HUC	HUC NAME
10070007	Upper Yellowstone River-Pompeys Pillar
10070008	Pryor Creek
10080010	Big Horn Lake
10080014	Shoshone River
10080015	Lower Bighorn River
10080016	Little Bighorn River
10090101	Upper Tongue River
10090102	Lower Tongue River
10100003	Rosebud Creek



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 10070007 Upper Yellowstone-Pompeys Pillar **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	5/2B	10.7	MILES	B-3	N		N	F	F	N	N	Arsenic Benthic-Macroinvertebrate Bioassessments Dissolved oxygen saturation Excess Algal Growth Nutrient/Eutrophication Biological Indicators Periphyton (Aufwuchs) Indicator Bioassessments Solids (Suspended/Bedload)	Agriculture Municipal Point Source Discharges Natural Sources
Yellowstone River	MT43Q001_011	YELLOWSTONE RIVER, Huntley Diversion Dam to mouth (Big Horn River)	5	58.82	MILES	B-3	P		P	I	I	I	I	Ammonia (Un-ionized) Sedimentation/Siltation Total Dissolved Solids	Agriculture Industrial Point Source Discharge Irrigated Crop Production Municipal Point Source Discharges Natural Sources
Yellowstone - Lower Bighorn	MT43Q002_010	FLY CREEK, Crow Indian Reservation boundary to mouth (Yellowstone River)	5	55.68	MILES	C-3	N		P				N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Oxygen, Dissolved Total Kjehldahl Nitrogen (TKN)	Agriculture Dam or Impoundment Drought-related Impacts Loss of Riparian Habitat
Lake Basin - Spidel	MT43Q003_010	SPIDEL WATERFOWL PRODUCTION AREA, T5N R23E S33	5	2.3	ACRES	B-1	P	X		P	X	P	X	Other anthropogenic substrate alterations Salinity Selenium	Highways, Roads, Bridges, Infrasturcture (New Construction) Non-irrigated Crop Production

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10070008 Pryor **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone - Lower Bighorn	MT43E001_010	PRYOR CREEK, Interstate 90 bridge to mouth (Yellowstone River)	5	14.98	MILES	C-3	P		P				P	Benthic-Macroinvertebrate Bioassessments Low flow alterations	Flow Alterations from Water Diversions Irrigated Crop Production Source Unknown
Yellowstone - Lower Bighorn	MT43E001_011	PRYOR CREEK, Crow Reservation Boundary to Interstate 90 bridge	5	2.88	MILES	B-1	P	P		F	P	F	P	Excess Algal Growth Low flow alterations Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Natural Sources Sources Outside State Juristiction or Borders Upstream Source

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10080010 Bighorn Lake **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bighorn Lake - Shoshone	MT43P002_010	CROOKED CREEK, headwaters to Wyoming Border	4C	15.07	MILES	B-1	P	P		X	X	X	X	Physical substrate habitat alterations	Agriculture

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10080015 Lower Bighorn **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone - Lower Bighorn	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	5	35.27	MILES	B-2	X	X		F	F	N	X	Lead	Source Unknown
														Mercury	
Bighorn Lake - Shoshone	MT43R001_020	BIGHORN RIVER, Yellowtail Dam to Crow Indian Reservation boundary	5	44.03	MILES	B-1	P	P		F	F	X	X	Nitrogen (Total)	Source Unknown
Yellowstone - Lower Bighorn	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	5	58.83	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers	Dam or Impoundment
														Iron	Flow Alterations from Water Diversions
														Low flow alterations	Irrigated Crop Production
														Phosphorus (Total)	Loss of Riparian Habitat
														Sedimentation/Siltation	Natural Sources
														Total Kjehldahl Nitrogen (TKN)	Rangeland Grazing

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10090101 Upper Tongue **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tongue	MT42B001_010	TONGUE RIVER, Wyoming border to Tongue River Reservoir	5	5.9	MILES	B-2	N	N		F	F	F	F	Iron	Impacts from Hydrostructure Flow Regulation/modification
														Low flow alterations	Irrigated Crop Production
															Natural Sources
															Streambank Modifications/destablization
Tongue	MT42B001_020	TONGUE RIVER, Tongue River Dam to Prairie Dog Creek	4C	22.05	MILES	B-2	N	N		F	F	F	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
															Irrigated Crop Production
															Streambank Modifications/destablization
Tongue	MT42B001_021	TONGUE RIVER, Prairie Dog Creek to Hanging Woman Creek	4C	12.27	MILES	B-3	N		N	I	I	I	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
															Irrigated Crop Production
															Streambank Modifications/destablization
Tongue	MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	5/2B	18.27	MILES	C-3	N		N	N			I	Iron	Grazing in Riparian or Shoreline Zones
														Low flow alterations	Irrigated Crop Production
														Salinity	Natural Sources
														Sedimentation/Siltation	Rangeland Grazing
															Streambank Modifications/destablization
Tongue	MT42B002_032	HANGING WOMAN CREEK, Wyoming border to Stroud Creek	5/2B	31.37	MILES	C-3	N		N	N			I	Low flow alterations	Irrigated Crop Production
														Salinity	Natural Sources
Tongue	MT42B003_010	TONGUE RIVER RESERVOIR	5	3500	ACRES	B-2	N	N		I	I	I	I	Chlorophyll-a	Irrigated Crop Production
														Oxygen, Dissolved	Municipal Point Source Discharges
														Solids (Suspended/Bedload)	

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HUC 10090102 Lower Tongue **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tongue	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	5	20.81	MILES	B-3	N		N	P	P	N	I	Cadmium Copper Iron Lead Low flow alterations Nickel Salinity Solids (Suspended/Bedload) Sulfates Zinc	Dam Construction (Other than Upstream Flood Control Projects) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Tongue	MT42C001_013	TONGUE RIVER, Hanging Woman Creek to Beaver Creek	5	74.97	MILES	B-3	P		P	F	F	F	I	Iron Low flow alterations Solids (Suspended/Bedload)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Tongue	MT42C001_014	TONGUE RIVER, Beaver Creek to Twelve Mile Dam, T6N R48E S29	5	71.97	MILES	B-3	P		P	F	F	F	I	Iron Low flow alterations Solids (Suspended/Bedload)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Tongue	MT42C002_020	OTTER CREEK, headwaters to mouth (Tongue River)	5/2B	108.1	MILES	C-3	N		N	N			I	Alteration in stream-side or littoral vegetative covers Iron Salinity Solids (Suspended/Bedload)	Agriculture Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Natural Sources Site Clearance (Land Development or Redevelopment)
Tongue	MT42C002_061	PUMPKIN CREEK, headwaters to Little Pumpkin Creek	5	87.68	MILES	C-3	N		N	N			I	Low flow alterations Salinity Temperature, water	Irrigated Crop Production Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10090102 Lower Tongue **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tongue	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creek to the mouth (Tongue River)	5	92.19	MILES	C-3	N		N	N			I	Low flow alterations	Irrigated Crop Production
														Salinity	Natural Sources
														Temperature, water	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10090207 Middle Powder **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J001_010	POWDER RIVER, Wyoming border to Little Powder River	5	78.21	MILES	C-3	X		X	N			X	Salinity	Natural Sources Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10090208 Little Powder **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42I001_010	LITTLE POWDER RIVER, the border to mouth (Powder River)	5	63.31	MILES	C-3	X		X	N			X	Salinity	Natural Sources Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10090209 Lower Powder **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J003_011	POWDER RIVER, Little Powder River to Mizpah Creek	5	99	MILES	C-3	X		X	N			X	Salinity	Natural Sources Source Unknown
Powder	MT42J003_012	POWDER RIVER, Mizpah Creek to mouth (Yellowstone River)	5	45.33	MILES	C-3	X		X	N			X	Salinity	Natural Sources Source Unknown
Powder	MT42J004_010	STUMP CREEK, headwaters to mouth (Powder River)	5/2B	29.77	MILES	C-3	X		X	N			X	Salinity	Natural Sources

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10090210 Mizpah **Watershed** Lower Yellowstone

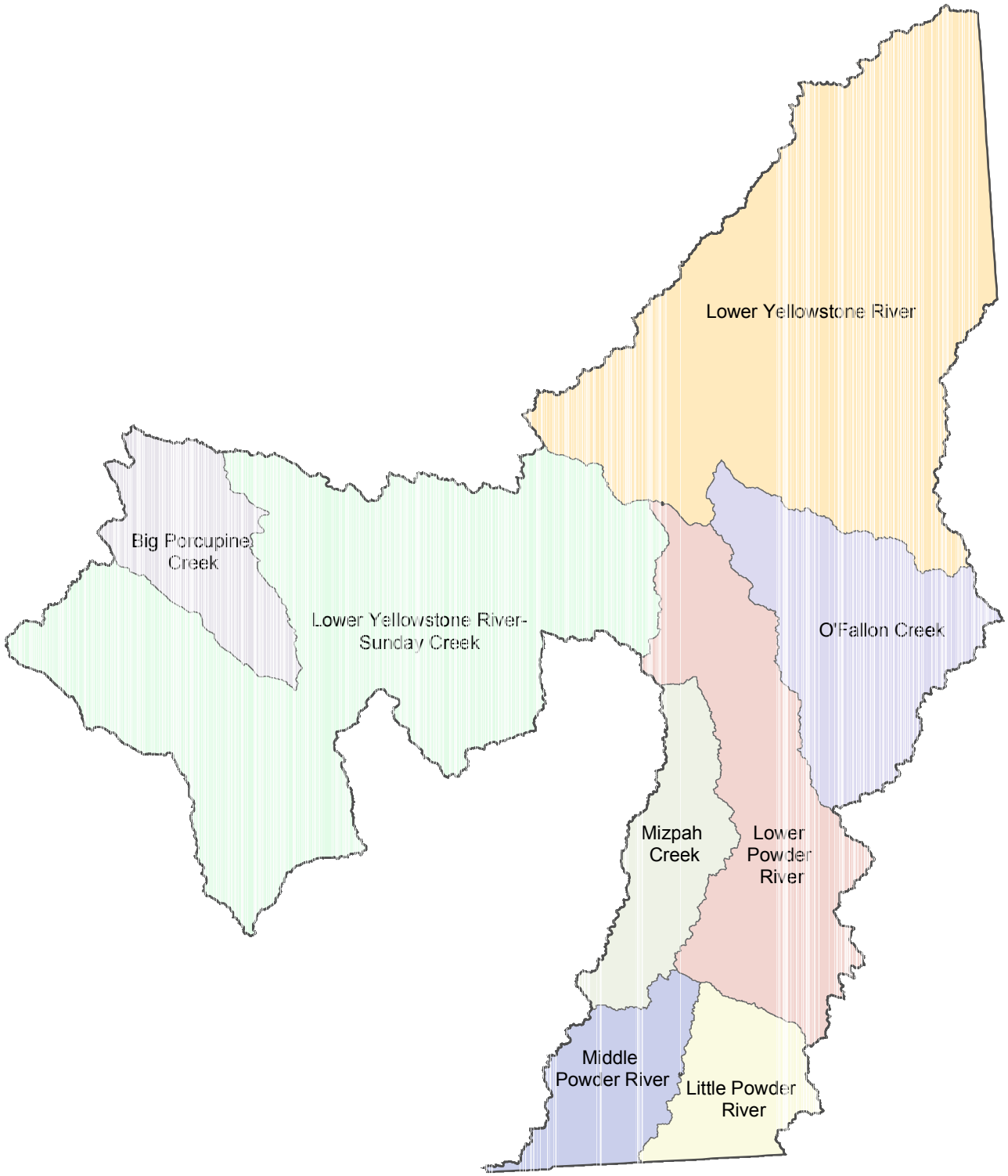
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J005_011	MIZPAH CREEK, headwaters to Corral Creek	5	131.98	MILES	C-3	X		X	N			X	Salinity	Natural Sources
Powder	MT42J005_012	MIZPAH CREEK, Corral Creek to the mouth (Powder River)	5	22.98	MILES	C-3	X		X	N			X	Salinity	Natural Sources

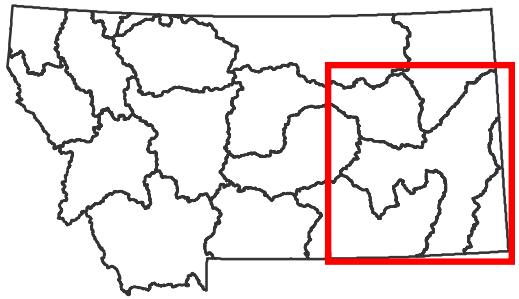
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Lower Yellowstone Sub-Major Basin

Yellowstone River Basin

USGS HUC	HUC NAME
10090207	Middle Powder River
10090208	Little Powder River
10090209	Lower Powder River
10090210	Mizpah Creek
10100001	Lower Yellowstone River-Sunday Creek
10100002	Big Porcupine Creek
10100004	Lower Yellowstone River
10100005	O'Fallon Creek





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Appendix A: Impaired Waters

HUC 10100001 Lower Yellowstone-Sunday **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	5	88.73	MILES	B-3	P		P	I	I	I	I	Alteration in stream-side or littoral vegetative covers	Agriculture
														Copper	Irrigated Crop Production
														Lead	Municipal Point Source Discharges
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
														Solids (Suspended/Bedload)	Post-development Erosion and Sedimentation
														Total Dissolved Solids	Rangeland Grazing
														Zinc	Source Unknown
														pH	Streambank Modifications/destablization
Yellowstone River	MT42K001_020	YELLOWSTONE RIVER, the Big Horn to Cartersville Diversion Dam	4C	59.51	MILES	B-3	X		P	F	F	X	X	Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Middle Yellowstone Tributaries	MT42K002_020	HARRIS CREEK, headwaters to mouth (Yellowstone River)	5	27.39	MILES	C-3	P		P				P	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Other flow regime alterations	Livestock (Grazing or Feeding Operations)
														Phosphorus (Total)	Natural Sources
														Solids (Suspended/Bedload)	Transfer of Water from an Outside Watershed
Middle Yellowstone Tributaries	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	5	15.28	MILES	C-3	P		P				P	Chlorophyll-a	Irrigated Crop Production
														Copper	Natural Sources
														Iron	Non-irrigated Crop Production
														Lead	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Nitrogen (Total)	
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Total Kjehldahl Nitrogen (TKN)	
Middle Yellowstone Tributaries	MT42K002_040	MUSTER CREEK, headwaters to mouth (Yellowstone River)	5	31.39	MILES	C-3	P		P				N	Chlorophyll-a	Irrigated Crop Production
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Transfer of Water from an Outside Watershed
														Other flow regime alterations	
														Phosphorus (Total)	
														Solids (Suspended/Bedload)	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10100001 Lower Yellowstone-Sunday **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Yellowstone Tributaries	MT42K002_060	DEADMAN CREEK, headwaters to mouth (North Fork Sunday Creek)	5	17.28	MILES	C-3	P		P				F	Phosphorus (Total)	Source Unknown
														Total Kjehldahl Nitrogen (TKN)	
Middle Yellowstone Tributaries	MT42K002_070	STELLAR CREEK, headwaters to mouth (Little Porcupine Creek)	5	42.96	MILES	C-3	N		N				N	Cadmium	Rangeland Grazing
														Chlorophyll-a	Source Unknown
														Phosphorus (Total)	
														pH	
Middle Yellowstone Tributaries	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	5	33.76	MILES	C-3	P		P				F	Sedimentation/Siltation	Channelization
														Sodium	Crop Production (Crop Land or Dry Land)
														Solids (Suspended/Bedload)	Natural Sources
														Specific Conductance	
														Total Dissolved Solids	
Middle Yellowstone Tributaries	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	5	89.35	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
														Nitrogen (Total)	Non-irrigated Crop Production
														Phosphorus (Total)	
														Total Kjehldahl Nitrogen (TKN)	
Middle Yellowstone Tributaries	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	5	32.36	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture
														Specific Conductance	Coal Mining
														Total Dissolved Solids	Transfer of Water from an Outside Watershed
														Total Kjehldahl Nitrogen (TKN)	
Middle Yellowstone Tributaries	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	5	118.8	MILES	C-3	P		P				P	Chlorophyll-a	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Phosphorus (Total)	
														Total Dissolved Solids	
														Total Kjehldahl Nitrogen (TKN)	
Middle Yellowstone Tributaries	MT42K002_170	EAST FORK ARMELLS CREEK, headwaters to Colstrip	4C/2B	24.67	MILES	C-3	P		I				F	Alteration in stream-side or littoral vegetative covers	Surface Mining

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10100003 Rosebud **Watershed** Middle Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Rosebud	MT42A001_011	ROSEBUD CREEK, From the mouth 3.8 mi upstream to an irrigation dam	4C	4.46	MILES	C-3	P		P				X	Physical substrate habitat alterations	Loss of Riparian Habitat
Rosebud	MT42A001_012	ROSEBUD CREEK, Northern Cheyenne Reservation boundary to an irrigation dam 3.8 mi above the mouth	5	111.56	MILES	C-3	X		P				X	Other	Dam Construction (Other than Upstream Flood Control Projects)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	5	53.67	MILES	B-3	P		P	F	F	F	F	Alteration in stream-side or littoral vegetative covers Chromium (total) Copper Fish-Passage Barrier Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Dissolved Solids pH	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Rangeland Grazing Source Unknown Streambank Modifications/destablization
Yellowstone River	MT42M001_012	YELLOWSTONE RIVER, Powder River to Lower Yellowstone Diversion Dam	4C	76.73	MILES	B-3	X		P	F	F	X	X	Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Lower Yellowstone	MT42M002_010	BENNIE PEER CREEK, North Dakota border to mouth (Yellowstone River)	4C	10.17	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations	Channelization Highways, Roads, Bridges, Infrasturcture (New Construction) Irrigated Crop Production
Lower Yellowstone	MT42M002_020	FOURMILE CREEK, headwaters to North Dakota border	5	29.74	MILES	C-3	P		P				N	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	Dam or Impoundment Source Unknown
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	5	33.37	MILES	C-3	P		P				P	Copper Fish-Passage Barrier Iron Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total) Solids (Suspended/Bedload)	Hydrostructure Impacts on Fish Passage Irrigated Crop Production Source Unknown Transfer of Water from an Outside Watershed

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10100004 Lower Yellowstone **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	5	33.37	MILES	C-3	P		P				P	Total Dissolved Solids	
														Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_040	LONE TREE CREEK, confluence of North Fork to mouth (Yellowstone River)	5	17.27	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers	Channelization
														Chlorophyll-a	Habitat Modification - other than Hydromodification
														Iron	Irrigated Crop Production
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
														Other flow regime alterations	
														Solids (Suspended/Bedload)	
Lower Yellowstone	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	5	49.85	MILES	B-2	P	P		P	P	N	P	Arsenic	Channelization
														Excess Algal Growth	Irrigated Crop Production
														Iron	Natural Sources
														Lead	Source Unknown
														Low flow alterations	
														Mercury	
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Solids (Suspended/Bedload)	
														Sulfates	
														Total Dissolved Solids	
														Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	5	20.32	MILES	B-2	P	P		P	P	N	P	Arsenic	Channelization
														Excess Algal Growth	Irrigated Crop Production
														Iron	Natural Sources
														Lead	Source Unknown
														Low flow alterations	
														Mercury	
														Phosphorus (Total)	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10100004 Lower Yellowstone **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	5	20.32	MILES	B-2	P	P		P	P	N	P	Physical substrate habitat alterations	
														Solids (Suspended/Bedload)	
														Sulfates	
														Total Dissolved Solids	
														Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_060	O'BRIEN CREEK, state line to mouth (Yellowstone River)	5	15.53	MILES	C-3	N		N				P	Excess Algal Growth	Animal Feeding Operations (NPS)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
														Selenium	
Lower Yellowstone	MT42M002_070	CRANE CREEK, headwaters to mouth (Yellowstone River)	5	24.25	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers	Channelization
														Other flow regime alterations	Irrigated Crop Production
														Sedimentation/Siltation	
Lower Yellowstone	MT42M002_080	SMITH CREEK, headwaters to mouth (Yellowstone River)	4C	45.57	MILES	C-3	F		P				F	Fish-Passage Barrier	Low Water Crossing
Lower Yellowstone	MT42M002_100	COTTONWOOD CREEK, headwaters to mouth (Yellowstone River)	5	21.99	MILES	C-3	N		N				F	Cadmium	Channelization
														Fish-Passage Barrier	Flow Alterations from Water Diversions
														Iron	Hydrostructure Impacts on Fish Passage
														Physical substrate habitat alterations	Natural Sources
															Source Unknown
Lower Yellowstone	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	5	53.66	MILES	C-3	P		P				P	Chlorophyll-a	Crop Production (Crop Land or Dry Land)
														Fish-Passage Barrier	Hydrostructure Impacts on Fish Passage
														Iron	Irrigated Crop Production
														Other flow regime alterations	Natural Sources
														Phosphorus (Total)	
														Solids (Suspended/Bedload)	
														Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_120	MORGAN CREEK, headwaters to mouth (Yellowstone River)	4C	19.8	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to	5	55.89	MILES	C-3	N		N				F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline

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Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	5	55.89	MILES	C-3	N		N				F	vegetative covers	Zones
														Cadmium	Natural Sources
														Chromium (total)	Source Unknown
														Copper	
														Iron	
														Lead	
														Nickel	
														Selenium	
														Solids (Suspended/Bedload)	
														Zinc	
Lower Yellowstone	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	5	27.49	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Arsenic	Natural Sources
														Copper	Spills from Trucks or Trains
														Iron	
														Lead	
Lower Yellowstone	MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	5/2B	20.13	MILES	C-3	P		P				F	Copper	Natural Sources
														Iron	
														Lead	
														Selenium	
Lower Yellowstone	MT42M002_150	CABIN CREEK, headwaters to mouth (Yellowstone River)	5	102.54	MILES	C-3	N		N				F	Oxygen, Dissolved	Dam or Impoundment
														Sedimentation/Siltation	Natural Sources
														Total Kjehldahl Nitrogen (TKN)	Rangeland Grazing
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	5	15.15	MILES	C-3	N		N				N	Alteration in stream-side or littoral vegetative covers	Channelization
														Copper	Hydrostructure Impacts on Fish Passage
														Excess Algal Growth	Irrigated Crop Production
														Fish-Passage Barrier	Rangeland Grazing
														High Flow Regime	Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 10100004 Lower Yellowstone **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	5	15.15	MILES	C-3	N		N				N	Iron Lead Solids (Suspended/Bedload)	Transfer of Water from an Outside Watershed

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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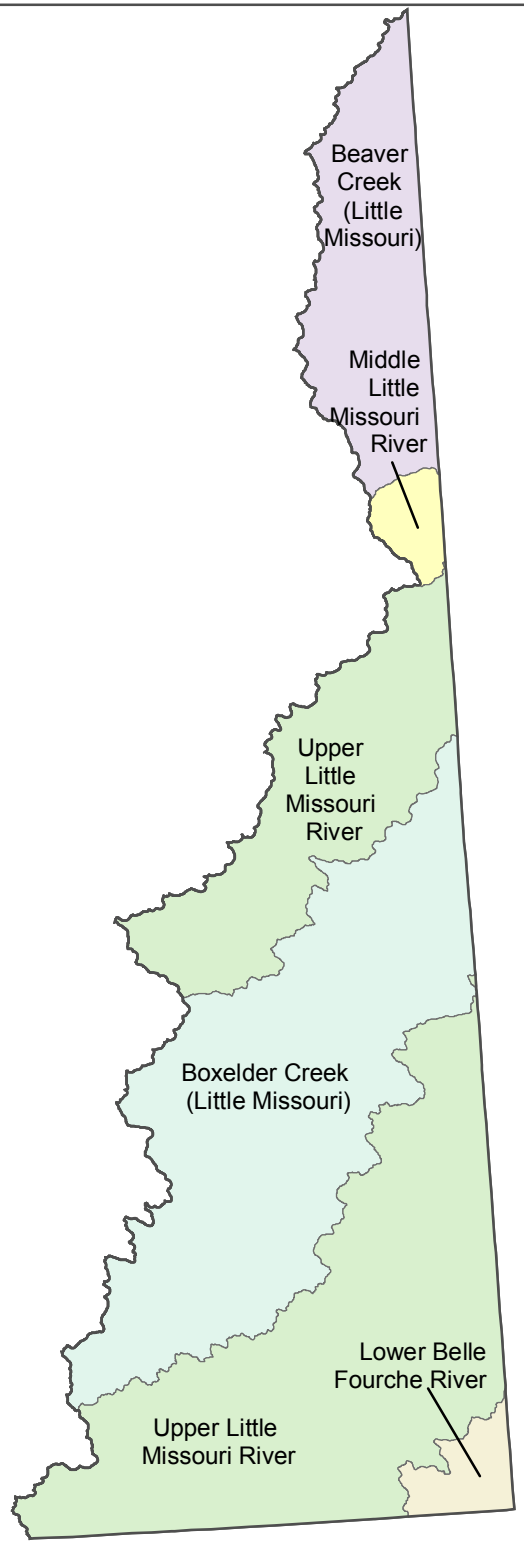
HUC 10100005 O` Fallon **Watershed** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
O` Fallon	MT42L001_010	PENNEL CREEK, headwaters to mouth (O'Fallon Creek)	5	65.97	MILES	C-3	P		P				F	Total Dissolved Solids	Source Unknown
O` Fallon	MT42L001_020	SANDSTONE CREEK, headwaters to mouth (O'Fallon Creek)	5	72.78	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture
														Total Kjehldahl Nitrogen (TKN)	Municipal Point Source Discharges

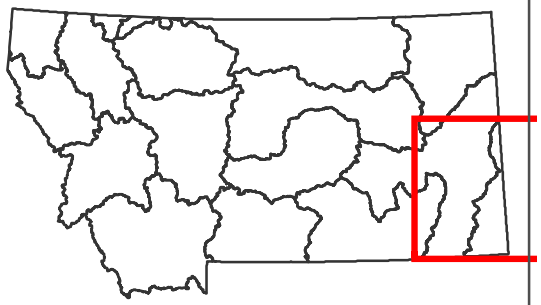
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



Little Missouri Sub-Major Basin

Yellowstone River Basin

USGS HUC	HUC NAME
10110201	Upper Little Missouri River
10110201	Upper Little Missouri River
10110202	Boxelder Creek (Little Missouri R)
10110203	Middle Little Missouri River
10110204	Beaver Creek (Little Missouri R)
10120202	Lower Belle Fourche River



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HUC 10110201 Upper Little Missouri **Watershed** Little Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Missouri	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	5/2B	41.22	MILES	C-3	P		P				X	Cadmium	Natural Sources
														Copper	
														Iron	
														Zinc	
Little Missouri	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	5	61.39	MILES	C-3	P		P				F	Cadmium	Natural Sources
														Copper	Source Unknown
														Iron	
														Lead	
														Zinc	
Little Missouri	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	5	44.75	MILES	C-3	P		P				F	Cadmium	Agriculture
														Copper	Natural Sources
														Lead	Source Unknown
														Phosphorus (Total)	
														Total Kjehldahl Nitrogen (TKN)	
														Zinc	

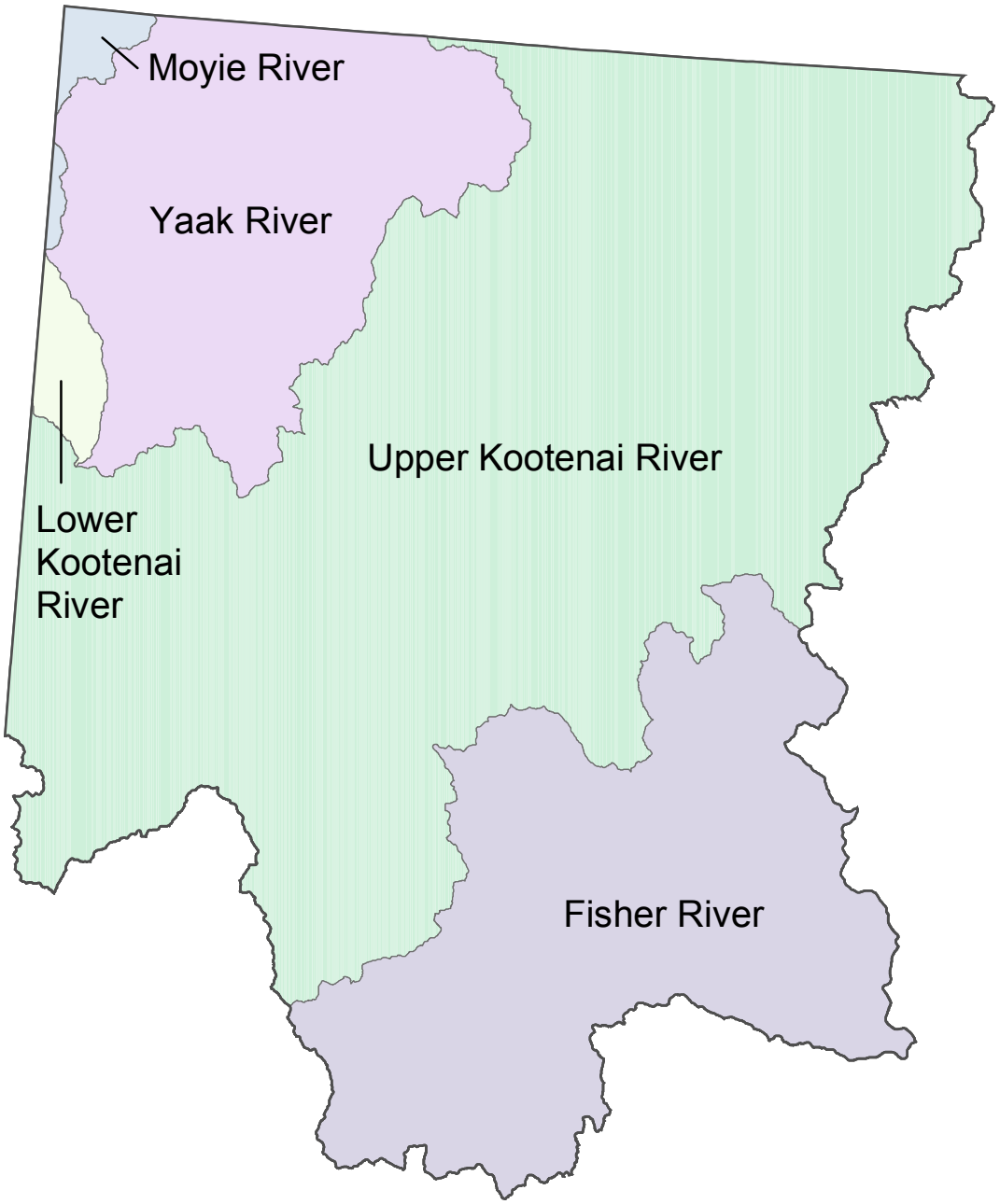
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 10110204 Beaver **Watershed** Little Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Missouri	MT39G002_010	LAMESTEER NATIONAL WILDLIFE REFUGE, T12N R60E S15	5	80	ACRES	C-3	P		P				X	Other	Agriculture

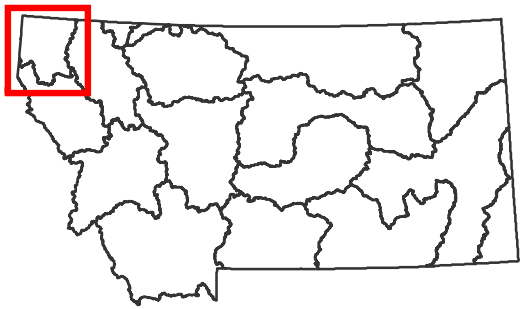
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



Kootenai Sub-Major Basin

Columbia River Basin

USGS HUC	HUC NAME
17010101	Upper Kootenai River
17010102	Fisher River
17010103	Yaak River
17010104	Lower Kootenai River
17010105	Moyie River



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HUC 17010101 Upper Kootenai **Watershed** Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Kootenai	MT76A001_010	KOOTENAI RIVER, confluence with Yaak River to Idaho border	5	6.09	MILES	B-1	P	P		F	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PL-566 NRCS Structures)
Kootenai	MT76D001_010	KOOTENAI RIVER, Libby Dam to Yaak River	5	44.64	MILES	B-1	P	P		F	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PL-566 NRCS Structures)
Kootenai	MT76D002_010	STANLEY CREEK, headwater to confluence with Fairway Creek	5	3.95	MILES	B-1	P	P		F	F	F	X	Cause Unknown Copper Nutrient/Eutrophication Biological Indicators	Mine Tailings Streambank Modifications/destablization
Kootenai	MT76D002_020	DRY CREEK, 1 mile upstream from State Highway 56 to mouth (Lake Creek)	4C	2.1	MILES	B-1	F	P		X	X	X	P	Other flow regime alterations Physical substrate habitat alterations	Highways, Roads, Bridges, Infrasturcture (New Construction)
Kootenai	MT76D002_030	KEELER CREEK, headwaters to Lake Creek	4C	9.15	MILES	B-1	F	P		F	F	X	F	Low flow alterations Physical substrate habitat alterations	Forest Roads (Road Construction and Use) Silviculture Activities
Kootenai	MT76D002_040	SNOWSHOE CREEK, Cabinet Wilderness boundary to mouth (Big Cherry Creek)	5	3.62	MILES	B-1	P	P		N	N	N	X	Alteration in stream-side or littoral vegetative covers Cadmium Zinc	Impacts from Abandoned Mine Lands (Inactive)
Kootenai	MT76D002_050	BIG CHERRY CREEK, Snowshoe Creek to Mouth (Libby Creek)	5	13.07	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Zinc	Forest Roads (Road Construction and Use) Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Kootenai	MT76D002_061	LIBBY CREEK, from 1 mi above Howard Creek to highway 2 bridge	5	11.24	MILES	B-1	P	P		F	F	N	X	Alteration in stream-side or littoral vegetative covers Mercury Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Kootenai	MT76D002_062	LIBBY CREEK, from the highway 2 bridge to mouth (Kootenai River)	5	14.8	MILES	B-1	P	P		F	F	X	X	Physical substrate habitat alterations Sedimentation/Siltation	Site Clearance (Land Development or Redevelopment) Source Unknown Streambank Modifications/destablization

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010101 Upper Kootenai **Watershed** Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	5	17.57	MILES	B-1	P	P		F	F	N	X	Cadmium Copper Lead Mercury in Water Column Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Zinc	Forest Roads (Road Construction and Use) Mine Tailings Natural Sources
Bobtail Creek	MT76D002_080	BOBTAIL CREEK, headwaters to mouth (Kootenai River)	4A	11.53	MILES	B-1	P	P		F	F	X	F	Other flow regime alterations Sedimentation/Siltation Turbidity	Forest Roads (Road Construction and Use) Source Unknown
Kootenai	MT76D002_090	QUARTZ CREEK, headwaters to confluence with the Kootenai River	5	11.25	MILES	B-1	P	P		F	F	I	I	Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Kootenai	MT76D002_100	CRIPPLE HORSE CREEK, headwaters to mouth (Lake Koocanusa)	4C	12.62	MILES	B-1	F	P		X	X	X	X	Low flow alterations Physical substrate habitat alterations	Silviculture Activities
Kootenai	MT76D002_110	BRISTOW CREEK, the headwaters to mouth at Lake Koocanusa	5	6.4	MILES	B-1	P	P		F	F	X	F	Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Silviculture Activities Source Unknown
Kootenai	MT76D003_010	LAKE KOOCANUSA	4C	110.35	ACRES	B-1	P	P		F	F	F	F	Other flow regime alterations	Dam or Impoundment
Tobacco	MT76D004_010	TOBACCO RIVER, confluence of Grave Creek & Fortine Creek to mouth (Lake Koocanusa)	5	14.21	MILES	B-1	P	P		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	5	33.46	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Sedimentation/Siltation	Agriculture Channelization Flow Alterations from Water Diversions Forest Roads (Road Construction and Use)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010101 Upper Kootenai **Watershed** Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	5	33.46	MILES	B-1	P	P		F	F	F	P	Temperature, water	Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Silviculture Activities Source Unknown
Tobacco	MT76D004_030	EDNA CREEK, headwaters to mouth (Fortine Creek)	5	10.55	MILES	B-1	P	F		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Tobacco	MT76D004_040	SWAMP CREEK, headwaters to mouth (Fortine Creek)	5	11.94	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Harvesting
Tobacco	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	5	4.92	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting Source Unknown
Grave Creek	MT76D004_060	GRAVE CREEK, Foundation Creek to mouth (Fortine Creek)	4A	17.43	MILES	B-1	P	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Silviculture Harvesting
Tobacco	MT76D004_070	THERRIAULT CREEK, headwaters to mouth (Tobacco River)	5	9.71	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Tobacco	MT76D004_080	DEEP CREEK, headwaters to mouth (Fortine Creek)	5	11.02	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010102 Fisher **Watershed** Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Fisher	MT76C001_010	FISHER RIVER, the Silver Butte/Pleasant Valley junction to mouth (Kootenai River)	5	33.78	MILES	B-1	P	P		F	F	F	F	High Flow Regime Lead	Channelization Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Silviculture Activities Source Unknown Streambank Modifications/destablization
Fisher	MT76C001_020	WOLF CREEK, headwaters to mouth (Fisher River)	5	39.26	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Temperature, water	Channelization Highways, Roads, Bridges, Infrasturcture (New Construction) Streambank Modifications/destablization
Fisher	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Vally Fisher River)	5	3.05	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Loss of Riparian Habitat Silviculture Activities Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

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HUC 17010103 Yaak **Watershed** Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yaak	MT76B002_010	SEVENTEEN MILE CREEK, headwaters to mouth (Yaak River)	5	16.41	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Yaak	MT76B002_020	LAP CREEK, headwaters to mouth (Yaak River)	5	4.77	MILES	B-1	N	N		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Yaak	MT76B002_060	SPREAD CREEK, headwaters to mouth (Yaak River)	5	12.64	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_070	PETE CREEK, headwaters to mouth (Yaak River)	5	10.94	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_080	SOUTH FORK YAAK RIVER, headwaters to mouth (Yaak River)	4A	12.81	MILES	B-1	N	N		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Yaak	MT76B002_090	WEST FORK YAAK RIVER, headwaters to mouth (Yaak River)	5	20.29	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_100	EAST FORK YAAK RIVER, headwaters to mouth (Yaak River)	5	14.6	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown

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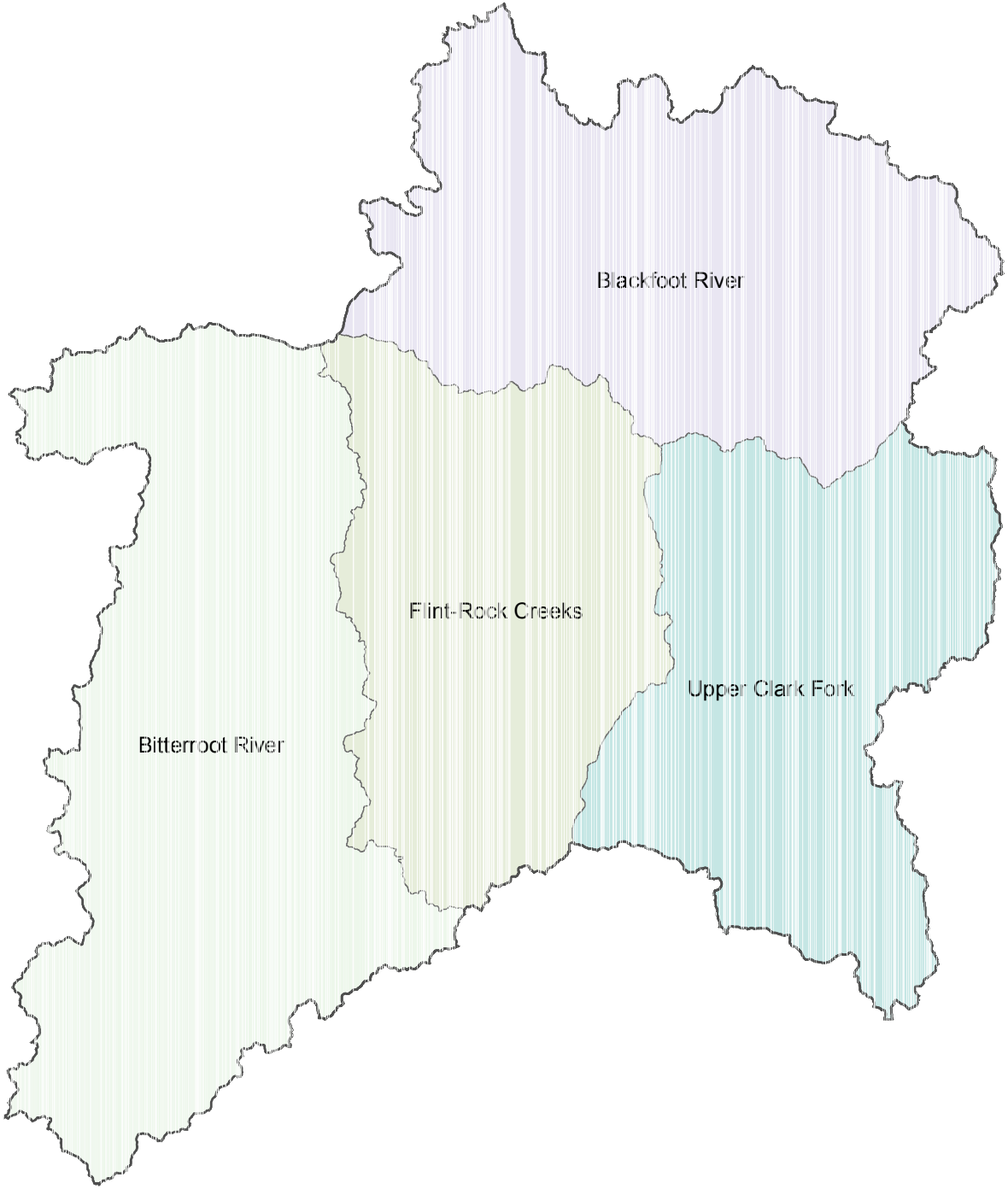
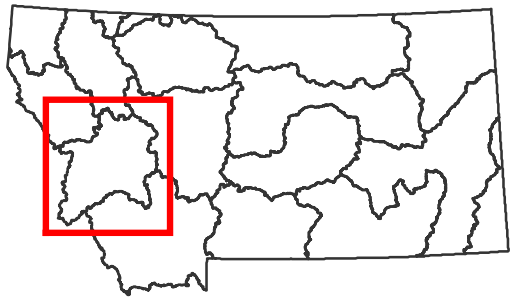
Upper Clark Fork Sub-Major Basin

Columbia River Basin



USGS HUC	HUC NAME
17010201	Upper Clark Fork
17010202	Flint-Rock Creeks
17010203	Blackfoot River
17010205	Bitterroot River



Montana Department of Environmental Quality

Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork River	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	5	27.78	MILES	B-1	P	P		F	F	N	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Arsenic	Mill Tailings
														Copper	
														Lead	
														Low flow alterations	
														Nitrogen (Total)	
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Sedimentation/Siltation	
														Zinc	
Clark Fork River	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	5	14.94	MILES	C-1	N	N		F	F		P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Copper	Channelization
														Lead	Mill Tailings
														Low flow alterations	Municipal Point Source Discharges
														Nitrogen (Total)	
														Phosphorus (Total)	
														Physical substrate habitat alterations	
														Sedimentation/Siltation	
														Zinc	
Clark Fork River	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	5	27.83	MILES	C-2	P	P		F	F		P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Arsenic	Mill Tailings
														Cadmium	Municipal Point Source Discharges
														Copper	
														Lead	
														Low flow alterations	
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	

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HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_011	WARM SPRINGS CREEK, headwaters to Meyers Dam, T5N R12W S25	4C	14.74	MILES	A-1	P	P		F	F	I	F	Physical substrate habitat alterations	Channelization Highway/Road/Bridge Runoff (Non-construction Related)
Upper Clark Fork	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	4A	17.22	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Low flow alterations Physical substrate habitat alterations Zinc	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mill Tailings
Upper Clark Fork	MT76G002_030	CABLE CREEK, headwaters to mouth (Warm Springs Creek)	4A	6.36	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Upper Clark Fork	MT76G002_040	STORM LAKE CREEK, headwaters to mouth (Un-Named canal/Ditch)	4A	9.73	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations Sedimentation/Siltation	Channelization Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Upper Clark Fork	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	5	11.01	MILES	B-1	P	P		F	F	F	F	Arsenic Cadmium Chromium (total) Copper Lead Zinc	Contaminated Sediments Mill Tailings Mine Tailings

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Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	5	9.82	MILES	B-1	N	N		P	F	N	P	Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Cadmium Copper Iron Lead Low flow alterations Zinc	Contaminated Sediments Irrigated Crop Production Mill Tailings
Upper Clark Fork	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	5	6.13	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Phosphorus (Total) Sedimentation/Siltation Zinc	Grazing in Riparian or Shoreline Zones Mill Tailings Natural Sources
Upper Clark Fork	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	4A	7.12	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Low flow alterations Sedimentation/Siltation Zinc	Agriculture Atmospheric Depositon - Toxics Grazing in Riparian or Shoreline Zones Mill Tailings

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Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	5	19.07	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Arsenic	Contaminated Sediments
														Copper	Grazing in Riparian or Shoreline Zones
														Iron	Irrigated Crop Production
														Lead	
														Low flow alterations	
														Manganese	
														Nitrate/Nitrite (Nitrite + Nitrate as N)	
														Physical substrate habitat alterations	
														Sulfates	
Upper Clark Fork	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	4A	14.72	MILES	B-1	N	N		F	F	N	P	Arsenic	Agriculture
														Cadmium	
														Copper	
														Lead	
														Low flow alterations	
Upper Clark Fork	MT76G002_090	RACETRACK CREEK, the national forest boundary to mouth (Clark Fork River)	4C	11.07	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Low flow alterations	Irrigated Crop Production
Upper Clark Fork	MT76G002_100	DEMPSEY CREEK, the national forest boundary to mouth (Clark Fork River)	5	13.44	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Low flow alterations	Grazing in Riparian or Shoreline Zones
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
														Sedimentation/Siltation	
Upper Clark Fork	MT76G002_110	TIN CUP JOE CREEK, Tin Cup Lake to mouth (Clark Fork River)	4A	6.77	MILES	B-1	N	N		F	F	F	N	Low flow alterations	Agriculture
														Sedimentation/Siltation	
Upper Clark Fork	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	4A	4.94	MILES	B-1	P	P		F	F	N	F	Arsenic	Mill Tailings
														Cadmium	
														Copper	

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Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	4A	4.94	MILES	B-1	P	P		F	F	N	F	Lead Zinc	
Upper Clark Fork	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	5	6.27	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Copper Iron Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Activities Source Unknown
Upper Clark Fork	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	4A	7.1	MILES	B-1	N	N		X	X	X	N	Alteration in stream-side or littoral vegetative covers Iron Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Upper Clark Fork	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	4A	6.08	MILES	B-1	N	N		F	F	F	P	Low flow alterations Sedimentation/Siltation	Agriculture
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	5	29.18	MILES	I	N	N	N	N	N	N	N	Aluminum Arsenic Copper Iron Lead Manganese Nitrates Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)

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HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	5	29.18	MILES	I	N	N	N	N	N	N	N	Sedimentation/Siltation Silver Zinc	
Upper Clark Fork	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	4A	8.24	MILES	B-1	N	N		F	F	P	F	Arsenic Cyanide Selenium	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Upper Clark Fork	MT76G003_031	BEEFSTRAIGHT CREEK, Minnesota Gulch to mouth (German Gulch)	4A	3.5	MILES	B-1	N	N		X	X	X	X	Cyanide	Mine Tailings
Little Blackfoot	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	5	26.5	MILES	B-1	P	P		F	F	P	P	Alteration in stream-side or littoral vegetative covers Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing
Little Blackfoot	MT76G004_020	LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek	5	22.54	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Arsenic Cyanide Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_032	SPOTTED DOG CREEK, forest boundary to mouth (Little Blackfoot River)	5	10.67	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Little Blackfoot	MT76G004_040	ELLISTON CREEK, headwaters to mouth (Little Blackfoot River)	4C	4.95	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Channelization Site Clearance (Land Development or Redevelopment)
Little Blackfoot	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	5	5.35	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Beryllium	Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive)

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HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Blackfoot	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	5	5.35	MILES	B-1	N	N		F	F	N	F	Cadmium	
														Copper	
														Iron	
														Sedimentation/Siltation	
														Zinc	
Little Blackfoot	MT76G004_052	TELEGRAPH CREEK, Hahn Creek to mouth (Little Blackfoot River)	5	2.51	MILES	B-1	F	F		F	F	N	F	Lead	Impacts from Abandoned Mine Lands (Inactive)
														Mercury	
Little Blackfoot	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	5	4.68	MILES	B-1	P	P		F	F	F	P	Arsenic	Mill Tailings
														Copper	Mine Tailings
														Lead	Source Unknown
														Mercury	Subsurface (Hardrock) Minining
														Selenium	
														pH	
Little Blackfoot	MT76G004_071	DOG CREEK, headwaters to Meadow Creek	5	4.33	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Impacts from Abandoned Mine Lands (Inactive)
														Arsenic	Rangeland Grazing
														Lead	
														Sedimentation/Siltation	
														Zinc	
Little Blackfoot	MT76G004_072	DOG CREEK, Meadow Creek to mouth (Little Blackfoot River)	5	13.63	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Channelization
														Sedimentation/Siltation	Rangeland Grazing
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)	5	11.45	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Dredge Mining
														Low flow alterations	Flow Alterations from Water Diversions
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Forest Roads (Road Construction and Use)
														Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
															Impacts from Abandoned Mine Lands (Inactive)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)	5	11.45	MILES	B-1	P	P		F	F	F	P		Irrigated Crop Production Source Unknown
Little Blackfoot	MT76G004_091	CARPENTER CREEK, headwaters to Basin Creek	4C	3.67	MILES	B-1	N	N		X	X	X	P	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_092	CARPENTER CREEK, Basin Creek to mouth (Little Blackfoot River)	4C	4.87	MILES	B-1	N	N		X	X	X	F	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_100	WOODSON GULCH, headwaters to mouth (Carpenter Creek), T11N R7W S29	4C	.84	MILES	B-1	P	P		F	F	F	P	Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Little Blackfoot	MT76G004_112	THREEMILE CREEK, Quigley Ranch Reservoir to mouth (Little Blackfoot River)	4C	7.46	MILES	B-1	N	N		X	X	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Upper Clark Fork	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	5	3.91	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Zinc	Grazing in Riparian or Shoreline Zones Mine Tailings
Upper Clark Fork	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	5	4.05	MILES	B-1	P	P		F	F	P	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead	Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing

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Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	5	4.05	MILES	B-1	P	P		F	F	P	F	Nitrogen (Total) Zinc	
Upper Clark Fork	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	4A	5.17	MILES	B-1	X	X		X	X	X	P	Sedimentation/Siltation Turbidity	Highway/Road/Bridge Runoff (Non-construction Related) Rangeland Grazing
Upper Clark Fork	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	5	7.05	MILES	B-1	N	N		X	X	X	N	Low flow alterations Nitrogen (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Streambank Modifications/destablization
Upper Clark Fork	MT76G005_091	GOLD CREEK, headwaters to National Forest boundary	4A	8.1	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Lead	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Upper Clark Fork	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	5	7.77	MILES	B-1	P	P		F	F	F	P	Iron Lead Low flow alterations Nitrogen (Total)	Agriculture Irrigated Crop Production
Upper Clark Fork	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	4A	12.5	MILES	B-1	X	X		F	F	F	P	Sedimentation/Siltation	Streambank Modifications/destablization
Upper Clark Fork	MT76G005_111	WARM SPRINGS CREEK, headwaters to R9W and R10W	5	9.54	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Upper Clark Fork	MT76G005_112	WARM SPRINGS CREEK, from line between R9W and R10W to mouth (Clark Fork River)	4A	6.28	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones
Little Blackfoot	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	5	20	ACRES	B-1	N	N		P	F	N	P	Arsenic Cadmium Copper Lead	Impacts from Abandoned Mine Lands (Inactive)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Blackfoot	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	5	20	ACRES	B-1	N	N		P	F	N	P	Mercury Zinc pH	

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork River	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	5	50.93	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Chlorophyll-a Copper Iron Lead Nitrogen (Total) Phosphorus (Total) Zinc	Agriculture Channelization Mill Tailings Mine Tailings Municipal Point Source Discharges
Rock	MT76E002_020	EAST FORK ROCK CREEK, East Fork Reservoir to mouth (Middle Fork Rock Creek)	5	9.74	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations Nitrogen, Nitrate Sedimentation/Siltation Temperature, water	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Source Unknown
Rock	MT76E002_030	WEST FORK ROCK CREEK, headwaters to mouth (Rock Creek)	5	25.15	MILES	B-1	X	X		F	F	N	F	Mercury	Source Unknown
Rock	MT76E002_040	UPPER WILLOW CREEK, headwaters to mouth (Rock Creek)	4C	21.7	MILES	B-1	P	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Rock	MT76E002_050	BREWSTER CREEK, East Fork to mouth (Rock Creek)	5	4.57	MILES	B-1	P	P		F	F	F	F	Fish-Passage Barrier Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Irrigated Crop Production Source Unknown
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	5	2.93	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	5	2.93	MILES	B-1	N	N		F	F	F	P	Phosphorus (Total) Sedimentation/Siltation Temperature, water	Silviculture Activities Source Unknown
Rock	MT76E002_070	QUARTZ GULCH, headwaters to mouth (Basin Gulch)	5	3.43	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Mercury Sedimentation/Siltation	Natural Sources Placer Mining
Rock	MT76E002_080	BASIN GULCH, headwaters to mouth (Quartz Gulch)	4C	1.45	MILES	B-1	N	N		X	X	X	X	Alteration in stream-side or littoral vegetative covers	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Rock	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	5	1.93	MILES	B-1	N	N		F	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Mercury Sedimentation/Siltation Solids (Suspended/Bedload)	Natural Sources Open Pit Mining Placer Mining
Rock	MT76E002_100	SCOTCHMAN GULCH, headwaters to mouth (Upper Willow Creek)	5	6.88	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Placer Mining Rangeland Grazing Silviculture Harvesting Source Unknown
Rock	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	5	6.33	MILES	B-1	N	N		F	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Rock	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	5	2.99	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Rangeland Grazing Silviculture Activities Source Unknown

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Rock	MT76E002_160	MINERS GULCH, headwaters to mouth (Upper Willow Creek), T8N R15W S23	5	5.42	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities Source Unknown
Flint	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	5	28.09	MILES	B-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Antimony Arsenic Cadmium Copper Lead Low flow alterations Mercury Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Flint	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	5	16.92	MILES	B-1	N	N		F	P	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Nitrogen (Total) Phosphorus (Total) Turbidity	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destablization
Flint	MT76E003_020	DOUGLAS CREEK, confluence of Middle and South Forks to mouth (Flint Creek), T9N R13W S10	5	7.07	MILES	B-1	P	P		F	F	X	F	Nitrogen, Nitrate Physical substrate habitat alterations	Channelization Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities
Flint	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	5	3.13	MILES	B-1	N	N		P	F	N	X	Alteration in stream-side or littoral vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flint	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	5	3.13	MILES	B-1	N	N		P	F	N	X	Cadmium	Lands (Inactive)
														Copper	
														Sulfates	
														Zinc	
Flint	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	5	11.21	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Arsenic	Grazing in Riparian or Shoreline Zones
														Lead	Mill Tailings
														Mercury	
Flint	MT76E003_050	SOUTH FORK LOWER WILLOW CREEK, headwaters to mouth (Lower Willow Creek)	5	13.34	MILES	B-1	N	N		F	F	N	X	Copper	Mill Tailings
														Lead	
														Mercury	
Flint	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	5	14.23	MILES	B-1	P	P		F	F	N	X	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
														Lead	Silviculture Harvesting
														Mercury	
														Physical substrate habitat alterations	
														Zinc	
Flint	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	5	8.87	MILES	B-1	P	P		P	P	P	P	Chlorophyll-a	Irrigated Crop Production
														Iron	Managed Pasture Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Flint	MT76E003_090	PRINCETON GULCH, headwaters to mouth (Boulder Creek)	5	3.89	MILES	B-1	P	P		F	F	X	X	Nitrates	Placer Mining
														Physical substrate habitat alterations	
Flint	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	5	3.76	MILES	B-1	N	N		P	F	N	P	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
														Cadmium	Silviculture Activities

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flint	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	5	3.76	MILES	B-1	N	N		P	F	N	P	Cause Unknown Copper Iron Lead Mercury Physical substrate habitat alterations Sedimentation/Siltation Zinc	Source Unknown Streambank Modifications/destablization
Flint	MT76E003_110	SMART CREEK, headwaters to mouth (Flint Creek), T9N R13W S21	5	11.6	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Freshettes or Major Flooding Grazing in Riparian or Shoreline Zones Silviculture Harvesting Watershed Runoff following Forest Fire
Flint	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	5	1.8	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Arsenic Copper Fish-Passage Barrier Lead Zinc	Channelization Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive)
Clark Fork - Drummond	MT76E004_010	WALLACE CREEK, headwaters to mouth (Clark Fork River)	5	4.32	MILES	B-1	P	P		F	F	F	X	Copper Zinc	Impacts from Abandoned Mine Lands (Inactive)
Clark Fork - Drummond	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	5	11.98	MILES	B-1	P	P		F	F	F	P	Arsenic Barium Cause Unknown Cobalt Copper Lead Mercury	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Source Unknown

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Appendix A: Impaired Waters

HUC 17010202 Flint-Rock **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork - Drummond	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	5	11.98	MILES	B-1	P	P		F	F	F	P	Physical substrate habitat alterations	
														Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_030	TENMILE CREEK, headwaters to mouth (Bear Creek-Clark Fork River)	5	4.92	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Silviculture Activities
														Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	4C	11.96	MILES	B-1	P	P		F	F	F	F	Physical substrate habitat alterations	Streambank Modifications/destablization
Clark Fork - Drummond	MT76E004_042	HARVEY CREEK, Grouse Gulch to mouth (Clark Fork River)	4C	4.01	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Agriculture
														Physical substrate habitat alterations	Streambank Modifications/destablization
Clark Fork - Drummond	MT76E004_050	MULKEY CREEK, headwaters to mouth (Clark Fork River)	5	5.99	MILES	B-1	N	N		X	X	X	P	Sedimentation/Siltation	Low Water Crossing
Clark Fork - Drummond	MT76E004_060	RATTLER GULCH, headwaters to mouth (Clark Fork River), T11N R13W S22	5	8.08	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
														Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Low flow alterations	Natural Sources
														Phosphorus (Total)	Silviculture Harvesting
														Sedimentation/Siltation	Source Unknown
Clark Fork - Drummond	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	5	5.12	MILES	B-1	P	P		F	P	F	P	Chlorophyll-a	Placer Mining
														Low flow alterations	Silviculture Harvesting
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Subsurface (Hardrock) Minining
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Clark Fork - Drummond	MT76E004_080	ANTELOPE CREEK, headwaters to mouth (Clark Fork River)	4C	7.19	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Physical substrate habitat alterations	Loss of Riparian Habitat
															Streambank Modifications/destablization

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Blackfoot Headwaters	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	4A	16.11	MILES	B-1	N	N		P	F	N	F	Cadmium	Subsurface (Hardrock) Minining
														Copper	Surface Mining
														Iron	
														Lead	
														Manganese	
														Zinc	
Blackfoot Headwaters	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	4A	39.15	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Aluminum	Silviculture Harvesting
														Cadmium	Subsurface (Hardrock) Minining
														Iron	Surface Mining
														Sedimentation/Siltation	
														Zinc	
Middle Blackfoot	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	5	21.44	MILES	B-1	P	P		F	F	F	F	Nitrogen (Total)	Irrigated Crop Production
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Temperature, water	
Middle Blackfoot	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	5	23.53	MILES	B-1	P	P		F	F	F	F	Nitrogen (Total)	Flow Alterations from Water Diversions
														Phosphorus (Total)	Streambank Modifications/destablization
														Sedimentation/Siltation	
														Temperature, water	
Lower Blackfoot	MT76F001_033	BLACKFOOT RIVER, Belmont Creek to mouth (Clark Fork)	5	21.4	MILES	B-1	P	P		F	F	F	F	Ammonia (Un-ionized)	Contaminated Sediments
															Grazing in Riparian or Shoreline Zones
															Silviculture Activities
Blackfoot Headwaters	MT76F002_020	WILLOW CREEK, Sandbar Creek to mouth (Blackfoot River), T15N R7W S34	4A	2.94	MILES	B-1	P	P		F	F	P	F	Other flow regime alterations	Highway/Road/Bridge Runoff (Non-construction Related)
														Sedimentation/Siltation	Streambank Modifications/destablization
Blackfoot Headwaters	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	4A	14.31	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Construction Stormwater Discharge (Permitted)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Blackfoot Headwaters	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	4A	14.31	MILES	B-1	P	P		F	F	F	P	Cadmium Copper Lead Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities
Blackfoot Headwaters	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	4A	.52	MILES	B-1	N	N		F	F	N	F	Cadmium Copper Iron Lead Manganese Zinc	Acid Mine Drainage Mine Tailings Subsurface (Hardrock) Minining Surface Mining
Blackfoot Headwaters	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	5	1.67	MILES	B-1	P	P		F	F	P	F	Aluminum Copper Iron Manganese Sedimentation/Siltation	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Subsurface (Hardrock) Minining Surface Mining
Blackfoot Headwaters	MT76F002_070	ARRASTRA CREEK, headwaters to mouth (Blackfoot River)	4A	12.86	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Agriculture Highway/Road/Bridge Runoff (Non-construction Related) Streambank Modifications/destablization
Blackfoot Headwaters	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	4A	.69	MILES	B-1	N	N		X	X	N	X	Aluminum Cadmium Copper Iron Lead Manganese Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Nevada Creek	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	5	19.84	MILES	B-1	P	P		F	F	N	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Iron Lead Mercury Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Solids (Suspended/Bedload) Temperature, water Total Kjehldahl Nitrogen (TKN)	Agriculture Grazing in Riparian or Shoreline Zones Placer Mining
Nevada Creek	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	4A	27.95	MILES	B-1	N	N		F	F	F	P	Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Agriculture Streambank Modifications/destablization
Nevada Creek	MT76F003_021	JEFFERSON CREEK, headwaters to 1 mile above confluence with Madison Gulch	4A	3.72	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Channelization Placer Mining Rangeland Grazing Streambank Modifications/destablization
Nevada Creek	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	4A	3.39	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Aluminum Iron Low flow alterations	Channelization Dredge Mining Grazing in Riparian or Shoreline Zones Irrigated Crop Production

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Nevada Creek	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	4A	3.39	MILES	B-1	P	P		F	F	F	P	Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Source Unknown Streambank Modifications/destablization
Nevada Creek	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	4A	7.34	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Rangeland Grazing
Nevada Creek	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	4A	2.82	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Rangeland Grazing Silviculture Activities
Nevada Creek	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	4A	2.1	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Nevada Creek	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	4A	7.67	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload) Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Managed Pasture Grazing Silviculture Harvesting

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Nevada Creek	MT76F003_071	WASHINGTON CREEK, headwaters to Cow Gulch	4A	5.84	MILES	B-1	N	N		F	F	X	P	Low flow alterations	Dredge Mining
														Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
														Sedimentation/Siltation	
Nevada Creek	MT76F003_072	WASHINGTON CREEK, Cow Gulch to mouth (Nevada Creek)	4A	4.44	MILES	B-1	P	P		F	F	X	P	Iron	Agriculture
														Low flow alterations	Highway/Road/Bridge Runoff (Non-construction Related)
														Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
															Streambank Modifications/destablization
Nevada Creek	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	5	13.02	MILES	B-1	P	P		F	F	N	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
														Arsenic	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	Irrigated Crop Production
														Low flow alterations	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	5	10.91	MILES	B-1	N	N		F	F	N	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
														Arsenic	Grazing in Riparian or Shoreline Zones
														Low flow alterations	Irrigated Crop Production
														Nitrogen (Total)	Loss of Riparian Habitat
														Phosphorus (Total)	Rangeland Grazing
														Sedimentation/Siltation	Source Unknown
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	4A	6.77	MILES	B-1	N	N		F	F	X	N	Low flow alterations	Agriculture
														Sedimentation/Siltation	

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Nevada Creek	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	4A	6.77	MILES	B-1	N	N		F	F	X	N	Temperature, water	
Nevada Creek	MT76F003_100	NEVADA SPRING CREEK, headwaters to mouth (Nevada Creek)	4A	5.78	MILES	B-1	N	N		F	F	X	P	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification
Nevada Creek	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	5	8.83	MILES	B-1	P	P		F	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Rangeland Grazing Silviculture Activities Source Unknown Streambank Modifications/destablization
Nevada Creek	MT76F003_130	BUFFALO GULCH, headwaters to mouth (Nevada Creek)	4A	6.36	MILES	B-1	P	P		X	X	X	X	Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Livestock (Grazing or Feeding Operations) Silviculture Activities
Middle Blackfoot	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	4A	4.44	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Hydrostructure Impacts on Fish Passage Irrigated Crop Production
Middle Blackfoot	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	4A	12.05	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	
Middle Blackfoot	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	4A	1.94	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Agriculture Irrigated Crop Production

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Blackfoot	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	4A	1.94	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Upstream Impoundments (e.g., PL-566 NRCS Structures)
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
Middle Blackfoot	MT76F004_060	WARD CREEK, headwaters to Browns Lake	4A	10.38	MILES	B-1	P	P		F	F	F	F	Physical substrate habitat alterations	Agriculture
														Sedimentation/Siltation	Silviculture Activities
															Unspecified Unpaved Road or Trail
Middle Blackfoot	MT76F004_070	WARREN CREEK, headwaters to mouth (Blackfoot River)	4A	14.7	MILES	B-1	P	P		F	F	F	P	Fish-Passage Barrier	Agriculture
														Low flow alterations	Channelization
														Sedimentation/Siltation	Irrigated Crop Production
Middle Blackfoot	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	4A	9.72	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Fish-Passage Barrier	Irrigated Crop Production
														Low flow alterations	Rangeland Grazing
														Nitrogen (Total)	
														Phosphorus (Total)	
														Sedimentation/Siltation	
Middle Blackfoot	MT76F004_090	ROCK CREEK, headwaters to mouth (North Fork Blackfoot River)	4A	11.52	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Low flow alterations	Irrigated Crop Production
														Sedimentation/Siltation	Rangeland Grazing
															Silviculture Harvesting
Middle Blackfoot	MT76F004_100	MONTURE CREEK, headwaters to mouth (Blackfoot River)	4A	30.27	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	
Middle Blackfoot	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	5	1.56	MILES	B-1	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Arsenic	Impacts from Hydrostructure Flow Regulation/modification
														Copper	Managed Pasture Grazing

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Blackfoot	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	5	1.56	MILES	B-1	P	P		F	F	N	F	Sedimentation/Siltation Temperature, water	Source Unknown
Middle Blackfoot	MT76F005_020	RICHMOND CREEK, headwaters to mouth (Lake Alva)	4A	4.02	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
Middle Blackfoot	MT76F005_030	DEER CREEK, headwaters to mouth (Seeley Lake)	4A	10.86	MILES	B-1	F	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Middle Blackfoot	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	4A	15.14	MILES	B-1	P	P		F	F	F	P	Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	
Middle Blackfoot	MT76F005_060	BLANCHARD CREEK, North Fork to mouth (Clearwater River)	4A	2.36	MILES	B-1	P	P		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related)
Lower Blackfoot	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	5	21.57	MILES	B-1	N	N		F	F	F	P	Arsenic Cause Unknown Copper Iron Phosphorus (Total) Physical substrate habitat alterations Solids (Suspended/Bedload) Temperature, water	Animal Feeding Operations (NPS) Flow Alterations from Water Diversions Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing Source Unknown Streambank Modifications/destablization
Lower Blackfoot	MT76F006_020	WEST FORK ASHBY CREEK, headwaters to mouth (East Fork Ashby Creek)	5	3.1	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Source Unknown
Lower Blackfoot	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	5	8.5	MILES	B-1	P	P		F	F	F	F	Cadmium Nitrogen, Nitrate	Forest Roads (Road Construction and Use) Placer Mining

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Appendix A: Impaired Waters

HUC 17010203 Blackfoot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Blackfoot	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	5	8.5	MILES	B-1	P	P		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Streambank Modifications/destablization
Lower Blackfoot	MT76F006_032	ELK CREEK, Stinkwater Creek to mouth (Blackfoot River)	4A	5.59	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Temperature, water	Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Lower Blackfoot	MT76F006_040	KENO CREEK, headwaters to mouth (Elk Creek)	4A	2.87	MILES	B-1	N	N		F	F	X	F	Sedimentation/Siltation	
Lower Blackfoot	MT76F006_050	EAST FORK ASHBY CREEK	5	3.9	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Activities Source Unknown
Lower Blackfoot	MT76F006_060	CAMAS CREEK, 1 mile above mouth to mouth (Union Creek)	5	1.63	MILES	B-1	P	P		F	F	F	F	Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Upstream Source
Lower Blackfoot	MT76F006_070	BELMONT CREEK, headwaters to mouth (Blackfoot River)	4A	10.6	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Lower Blackfoot	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	5	6.12	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Open Pit Mining Silviculture Harvesting Source Unknown
Nevada Creek	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	5	352.6	ACRES	B-1	P	P		F	F	F	P	Nitrogen (Total) Oxygen, Dissolved Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Source Unknown Upstream/Dowstream Source

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H001_010	BITTERROOT RIVER, East and West forks to Skalkaho Creek	5	27.21	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper	Grazing in Riparian or Shoreline Zones Rangeland Grazing Source Unknown Streambank Modifications/destablization
Bitterroot	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek to Eightmile Creek	5	34.34	MILES	B-1	P	P		F	F	X	P	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Temperature, water	Agriculture Habitat Modification - other than Hydromodification Irrigated Crop Production Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Bitterroot	MT76H001_030	BITTERROOT RIVER, Eightmile Creek to mouth (Clark Fork River)	5	23.6	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper Lead Nitrogen, Nitrate Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems) Rangeland Grazing Sediment Resuspension (Contaminated Sediment) Streambank Modifications/destablization Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Bitterroot Headwaters	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary to mouth (Bitterroot River)	5	30.77	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper Lead Sedimentation/Siltation Temperature, water	Channelization Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Source Unknown Streambank Modifications/destablization Watershed Runoff following Forest Fire
Bitterroot Headwaters	MT76H002_020	REIMEL CREEK, headwaters to mouth (East Fork Bitterroot River)	4A	7.71	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture Natural Sources
Bitterroot Headwaters	MT76H002_030	MEADOW CREEK, headwaters to mouth (East Fork Bitteroot River)	5	9.77	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones

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Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot Headwaters	MT76H002_070	LAIRD CREEK, headwaters to mouth (East Fork Bitterroot River), T2N R20 S35	4A	5.74	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities
Bitterroot Headwaters	MT76H002_080	GILBERT CREEK, headwaters to mouth (Laird Creek), T1N R20W S10	4A	2.29	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities
Bitterroot Headwaters	MT76H003_010	WEST FORK BITTERROOT RIVER, headwaters to mouth	4A	39.4	MILES	B-1	P	P		F	F	X	F	Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Streambank Modifications/destablization
Bitterroot Headwaters	MT76H003_020	NEZ PERCE FORK BITTERROOT RIVER, headwaters to mouth (West Fork Bitterroot River)	4A	15.23	MILES	B-1	F	P		F	F	F	F	Temperature, water	Forest Roads (Road Construction and Use) Loss of Riparian Habitat
Bitterroot Headwaters	MT76H003_040	HUGHES CREEK, headwaters to the mouth (West Fork Bitterroot River)	4A	18.33	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Channelization Impacts from Abandoned Mine Lands (Inactive) Placer Mining Source Unknown
Bitterroot Headwaters	MT76H003_050	OVERWHICH CREEK, headwaters to mouth (West Fork Bitterroot River)	5	17.59	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation Temperature, water	Highway/Road/Bridge Runoff (Non-construction Related) Natural Sources Site Clearance (Land Development or Redevelopment)
Bitterroot Headwaters	MT76H003_060	DITCH CREEK, headwaters to mouth (West Fork Bitterroot River)	4A	2.78	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Bitterroot Headwaters	MT76H003_070	BUCK CREEK, headwaters to mouth (West Fork Bitterroot), T1N R22W S36	4A	2.51	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	
Bitterroot	MT76H004_010	BASS CREEK, Selway-Bitterroot Wilderness boundary to mouth (un-named creek), T9N R20W S3	5	5.07	MILES	B-1	P	P		F	F	F	F	Low flow alterations Total Kjehldahl Nitrogen (TKN)	Dam or Impoundment Flow Alterations from Water Diversions Irrigated Crop Production Natural Sources Source Unknown

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Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H004_020	KOOTENAI CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitterroot River)	4C	5.63	MILES	B-1	P	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture
Bitterroot	MT76H004_031	BEAR CREEK, Selway-Bitterroot Wilderness boundary to mouth (Fred Burr Creek), T7N R20W S7	4C	8.3	MILES	B-1	X	X		F	F	X	P	Low flow alterations	Agriculture
Bitterroot	MT76H004_032	NORTH CHANNEL BEAR CREEK, headwater to the mouth (Fred Burr Creek), T8N R20W S32	4C	4.38	MILES	B-1	X	X		F	F	X	P	Low flow alterations	Agriculture
Bitterroot	MT76H004_040	MILL CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Fred Burr Creek), T7N R20W S19	5	8.72	MILES	B-1	X	P		X	X	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Temperature, water	Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)
Bitterroot	MT76H004_050	BLODGETT CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitterroot River)	4C	13.63	MILES	B-1	P	P		F	F	X	P	Low flow alterations	Agriculture
Bitterroot	MT76H004_070	LOST HORSE CREEK, headwaters to mouth (Bitterroot River)	4C	20.61	MILES	B-1	F	F		F	F	X	P	Low flow alterations	Agriculture
Bitterroot	MT76H004_080	TIN CUP CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitteroot River)	5	7.95	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Total Kjehldahl Nitrogen (TKN)	Irrigated Crop Production Loss of Riparian Habitat Natural Sources Silviculture Activities Source Unknown
Bitterroot	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	5	24.93	MILES	B-1	P	P		F	F	X	P	Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Temperature, water	Agriculture Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Bitterroot	MT76H004_100	SKALKAHO CREEK, headwaters to mouth (Bitterroot River)	5	27.8	MILES	B-1	F	F		F	F	N	P	Low flow alterations Mercury	Agriculture Irrigated Crop Production Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	5	17.16	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Irrigated Crop Production Loss of Riparian Habitat Natural Sources Silviculture Activities Source Unknown
Bitterroot	MT76H004_120	AMBROSE CREEK, headwaters to mouth (Threemile Creek)	5	11.7	MILES	B-1	N	N		F	F	X	P	Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones
Bitterroot	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	5	18.34	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Temperature, water	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Silviculture Activities Silviculture Harvesting Source Unknown
Bitterroot	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	5	17.96	MILES	B-1	N	N		F	F	X	X	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Agriculture Irrigated Crop Production Rangeland Grazing
Bitterroot	MT76H004_150	McCLAIN CREEK, headwaters to mouth (Sin-tin-tin-em-ska Creek), T11N R20W S23	5	7.12	MILES	B-1	P	P		F	F	X	X	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
Bitterroot	MT76H004_160	NORTH FORK RYE CREEK, headwaters to mouth (Rye Creek-Bitterroot River, South of Darby)	5	7.08	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Bitterroot	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	5	6.39	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones Livestock (Grazing or Feeding Operations)

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	5	6.39	MILES	B-1	P	P		F	F	F	P	Phosphorus (Total)	Natural Sources
														Sedimentation/Siltation	Silviculture Activities
														Total Kjehldahl Nitrogen (TKN)	Source Unknown
Bitterroot	MT76H004_180	MUDDY SPRING CREEK, headwaters to mouth (Gold Creek) T7N R19W S2	5	2.04	MILES	B-1	P	P		F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
														Sedimentation/Siltation	Source Unknown
Bitterroot	MT76H004_190	RYE CREEK, North Fork to mouth (Bitterroot River)	5	5.98	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers	Animal Feeding Operations (NPS)
														Nitrogen (Total)	Forest Roads (Road Construction and Use)
														Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
														Sedimentation/Siltation	Silviculture Activities
Bitterroot	MT76H004_200	NORTH BURNT FORK CREEK, confluence with South Burnt Fork Creek to Mouth (Bitterroot River)	5	10.94	MILES	B-1	P	P		F	F	F	F	Bottom Deposits	Grazing in Riparian or Shoreline Zones
														Phosphorus (Total)	Irrigated Crop Production
														Total Kjehldahl Nitrogen (TKN)	
Bitterroot	MT76H004_210	SWEATHOUSE CREEK, headwaters to mouth (Bitterroot River)	5	11.62	MILES	B-1	P	P		X	X	X	N	Alteration in stream-side or littoral vegetative covers	Loss of Riparian Habitat
														Low flow alterations	Site Clearance (Land Development or Redevelopment)
														Phosphorus (Total)	
Bitterroot	MT76H005_011	LOLO CREEK, Mormon Creek to mouth (Bitterroot River)	5	3.12	MILES	B-1	P	P		F	F	X	P	Low flow alterations	Agriculture
														Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
														Sedimentation/Siltation	Site Clearance (Land Development or Redevelopment)
Bitterroot	MT76H005_012	LOLO CREEK, Sheldon Creek to Mormon Creek	5	14.14	MILES	B-1	P	P		F	F	X	F	Physical substrate habitat alterations	Agriculture
														Sedimentation/Siltation	Silviculture Activities
															Streambank Modifications/destablization
Bitterroot	MT76H005_013	LOLO CREEK, headwaters to Sheldon Creek	5	14.24	MILES	B-1	P	P		F	F	X	F	Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
														Sedimentation/Siltation	Highways, Roads, Bridges, Infrasturcture (New Construction)
															Silviculture Activities
Bitterroot	MT76H005_020	SOUTH FORK LOLO CREEK, Selway-Bitterroot Wilderness boundary to mouth	4C	6.87	MILES	B-1	P	P		F	F	F	P	Low flow alterations	Forest Roads (Road Construction and Use)

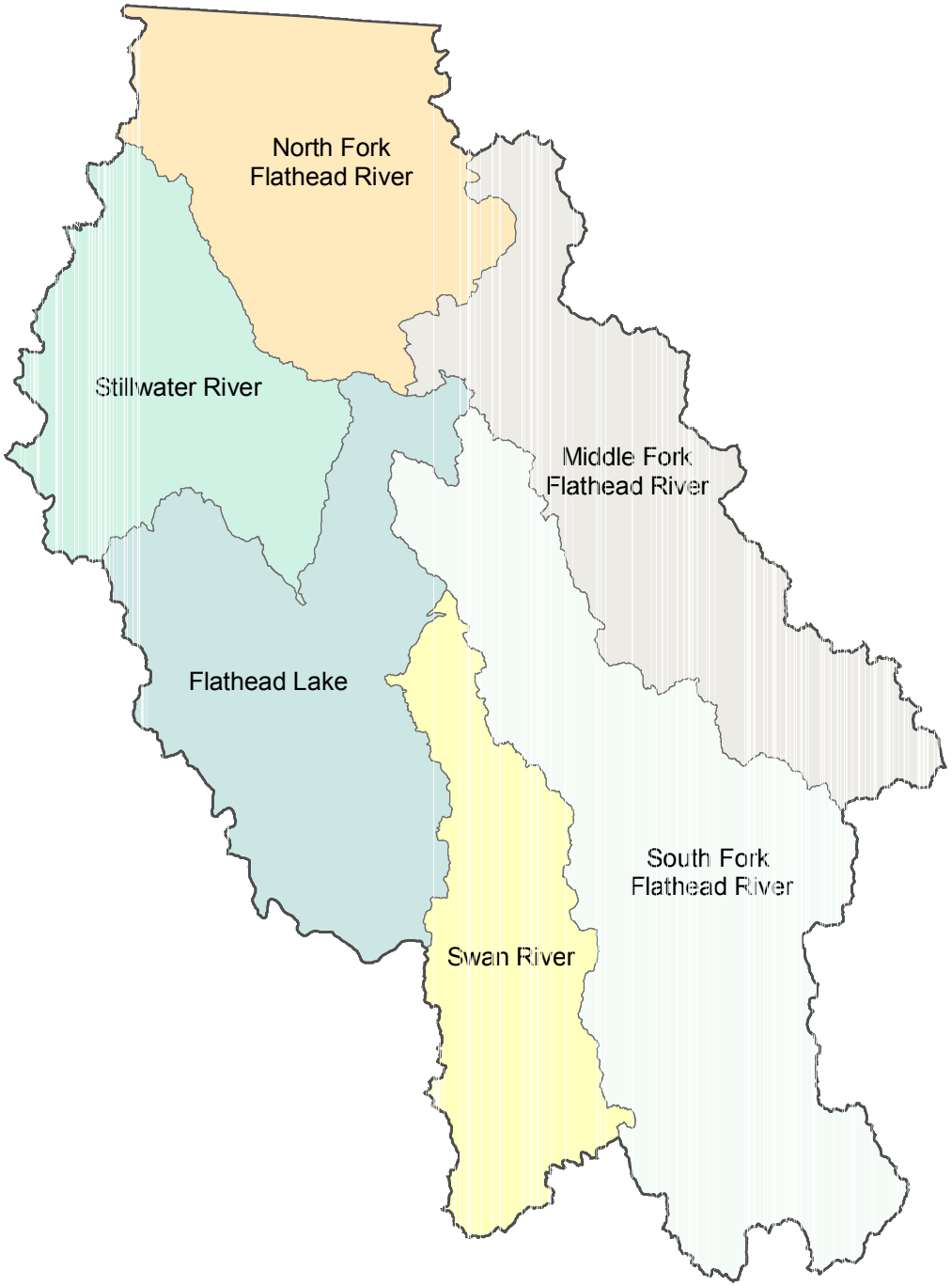
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010205 Bitterroot **Watershed** Upper Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H005_020	SOUTH FORK LOLO CREEK, Selway-Bitterroot Wilderness boundary to mouth (Lolo Creek)	4C	6.87	MILES	B-1	P	P		F	F	F	P	Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification Silviculture Activities
Upper Lolo	MT76H005_030	GRANITE CREEK, headwaters to mouth (Lolo Creek)	4A	9.39	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities
Upper Lolo	MT76H005_040	EAST FORK LOLO CREEK, headwaters to mouth (Confluence with Lolo Creek)	4A	9.12	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Upper Lolo	MT76H005_050	WEST FORK LOLO CREEK, headwaters to mouth (Lolo Creek)	4A	7.37	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Streambank Modifications/destablization
Upper Lolo	MT76H005_060	LOST PARK CREEK, headwaters to mouth (Confluence with East Fork Lolo Creek)	4A	5.08	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Upper Lolo	MT76H005_070	LEE CREEK, headwaters to mouth (West Fork Lolo Creek)	4A	3.8	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Streambank Modifications/destablization

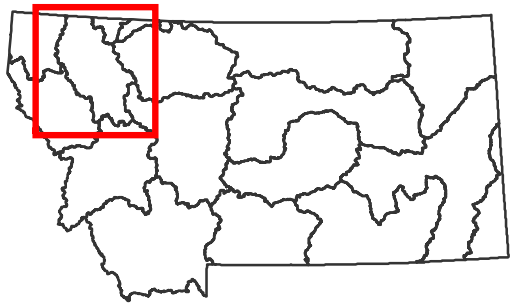
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



Flathead
Sub-Major Basin

Columbia River Basin

USGS HUC	HUC NAME
17010206	North Fork Flathead River
17010207	Middle Fork Flathead River
17010208	Flathead Lake
17010209	South Fork Flathead River
17010210	Stillwater River (Flathead R)
17010211	Swan River



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Appendix A: Impaired Waters

HUC 17010206 North Fork Flathead **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Creek (Columbia)	MT76Q002_050	BIG CREEK, tributary to North Fork of the Flathead River	4A	16.68	MILES	B-1	P	P		F	F	X	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Streambank Modifications/destablization
Flathead Headwaters	MT76Q002_070	COAL CREEK, headwaters to South Fork	4C	10.4	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers	
Flathead Headwaters	MT76Q002_080	COAL CREEK, South Fork to mouth (North Fork Flathead)	4A	9.57	MILES	B-1	P	P		F	F	X	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010207 Middle Fork Flathead **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead Headwaters	MT76I002_040	CHALLENGE CREEK, headwaters to mouth (Granite Creek)	5	4.77	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total)	Silviculture Activities

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010208 Flathead Lake **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead - Stillwater	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	5	15.64	MILES	B-1	P	P		F	F	X	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Oxygen, Dissolved Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Channelization Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Source Unknown
Flathead - Stillwater	MT76O002_020	ASHLEY CREEK, Smith Lake to Kalispell Airport Road	4C	14.17	MILES	B-2	X	X		F	F	X	P	Low flow alterations	Agriculture
Flathead - Stillwater	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	5	13.17	MILES	C-2	P	P		F	F		P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Excess Algal Growth Nitrate/Nitrite (Nitrite + Nitrate as N) Oxygen, Dissolved Phosphorus (Total) Temperature, water Total Kjehldahl Nitrogen (TKN)	Discharges from Municipal Separate Storm Sewer Systems (MS4) Irrigated Crop Production Municipal Point Source Discharges Upstream Source
Flathead - Stillwater	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	5	4.8	MILES	B-1	N	N		F	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Oxygen, Dissolved Phosphorus (Total) Physical substrate habitat alterations Total Kjehldahl Nitrogen (TKN)	Agriculture Baseflow Depletion from Groundwater Withdrawals Channelization Flow Alterations from Water Diversions Loss of Riparian Habitat Source Unknown
Flathead - Stillwater	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	5	2.39	MILES	B-1	P	P		F	F	I	X	Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Silviculture Activities Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010208 Flathead Lake **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead Lake	MT76O003_010	FLATHEAD LAKE	5	6.42	ACRES	A-1	P	F		F	F	F	F	Mercury	Atmospheric Depositon - Nitrogen
														Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
														Phosphorus (Total)	Municipal Point Source Discharges
														Polychlorinated biphenyls	Silviculture Harvesting
														Sedimentation/Siltation	Source Unknown
															Unspecified Urban Stormwater
															Upstream Impoundments (e.g., PL-566 NRCS Structures)
Flathead - Stillwater	MT76O004_020	LAKE MARY RONAN	4C	6.84	ACRES	A-1	T	T		F	F	X	F	Chlorophyll-a	Agriculture
															Grazing in Riparian or Shoreline Zones
															Silviculture Activities

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010209 South Fork Flathead **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead Headwaters	MT76J001_010	SOUTH FORK FLATHEAD RIVER, Hungry Horse Dam to mouth	4C	5.31	MILES	B-1	X	X		F	F	X	P	Other flow regime alterations	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010210 Stillwater **Watershed** Flathead

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead - Stillwater	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	5	45.61	MILES	B-2	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers Lead Nitrates Phosphorus (Total) Sedimentation/Siltation	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Source Unknown
Flathead - Stillwater	MT76P001_030	LOGAN CREEK, headwaters to mouth (Tally Lake)	5	21.16	MILES	B-1	P	P		F	F	X	F	Other flow regime alterations Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Streambank Modifications/destablization
Flathead - Stillwater	MT76P001_040	SINCLAIR CREEK, headwaters to mouth (Sheppard Creek)	4C	2.32	MILES	B-1	X	X		X	X	X	P	Low flow alterations	Agriculture Streambank Modifications/destablization
Flathead - Stillwater	MT76P001_050	SHEPPARD CREEK, headwaters to mouth (Griffin Creek-Logan Creek-Talley Lake)	5	15.92	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Crop Production (Crop Land or Dry Land) Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Flathead - Stillwater	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	5	24.8	MILES	B-2	P	P		F	F	F	X	Copper Lead Nitrogen (Total) Oil and Grease PCB in Water Column Temperature, water	Industrial Point Source Discharge Silviculture Activities Site Clearance (Land Development or Redevelopment) Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Flathead - Stillwater	MT76P003_020	SWIFT CREEK, headwaters (East and West Forks) to mouth (Whitefish Lake)	5	17.28	MILES	A-1	P	P		F	F	I	I	Phosphorus (Total)	Silviculture Activities
Flathead - Stillwater	MT76P004_010	WHITEFISH LAKE	5	3349.9	ACRES	A-1	T	T		F	F	X	F	Mercury Polychlorinated biphenyls Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Source Unknown

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010211 Swan **Watershed** Flathead

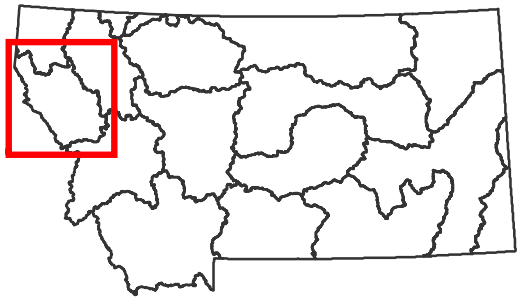
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Swan	MT76K002_010	SWAN LAKE	4A	2680	ACRES	A-1	T	T		F	F	F	F	BOD, sediment load (Sediment Oxygen Demand) Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrasturcture (New Construction)
Swan	MT76K003_010	JIM CREEK, headwaters to mouth (Swan River), T21 R18W S8	4A	12.11	MILES	B-1	P	P		F	F	X	F	Sedimentation/Siltation	Silviculture Harvesting
Swan	MT76K003_031	GOAT CREEK, headwaters to Squeezer Creek	4A	9.71	MILES	B-1	P	P		F	F	X	F	Total Suspended Solids (TSS)	Highways, Roads, Bridges, Infrasturcture (New Construction) Silviculture Harvesting

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Lower Clark Fork Sub-Major Basin

Columbia River Basin

USGS HUC	HUC NAME
17010204	Middle Clark Fork
17010212	Lower Flathead River
17010213	Lower Clark Fork



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Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork River	MT76M001_010	CLARK FORK RIVER, the Flathead River to Fish Creek	5	60.36	MILES	B-1	P	P		F	F	F	X	Copper	Mill Tailings
														Lead	Municipal Point Source Discharges
														Nitrogen (Total)	
														Phosphorus (Total)	
Clark Fork River	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	5	52.6	MILES	B-1	P	P		F	F	N	P	Arsenic	Industrial Point Source Discharge
														Cadmium	Mill Tailings
														Chlorophyll-a	Municipal Point Source Discharges
														Copper	
														Nitrogen (Total)	
														Organic Enrichment (Sewage) Biological Indicators	
														Phosphorus (Total)	
Clark Fork River	MT76M001_030	CLARK FORK RIVER, Rattlesnake Creek to Blackfoot River	5	6.2	MILES	B-1	N	N		F	F	F	X	Copper	Industrial Point Source Discharge
														Lead	Mill Tailings
														Nutrient/Eutrophication Biological Indicators	Upstream Impoundments (e.g., PL-566 NRCS Structures)
Middle Clark Fork Tributaries	MT76M002_010	TAMARACK CREEK, headwaters to mouth (Clark Fork River)	4C	9.47	MILES	B-1	X	P		X	X	X	X	Fish-Passage Barrier	Dam or Impoundment
Middle Clark Fork Tributaries	MT76M002_020	CEDAR CREEK, headwaters to mouth (Clark Fork River)	5	17.28	MILES	B-1	P	P		F	P	F	P	Low flow alterations	Flow Alterations from Water Diversions
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Total Kjehldahl Nitrogen (TKN)	
Middle Clark Fork Tributaries	MT76M002_050	TROUT CREEK, headwaters to mouth (Clark Fork River)	5	14.99	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers	Highways, Roads, Bridges, Infrasturcture (New Construction)
														Physical substrate habitat alterations	Silviculture Activities
														Turbidity	Wet Weather Discharges (Non-Point Source)
Middle Clark Fork Tributaries	MT76M002_060	FISH CREEK, West and South Forks to mouth (Clark Fork River)	4C	9.19	MILES	B-1	F	P		F	F	X	F	Physical substrate habitat alterations	Highways, Roads, Bridges, Infrasturcture (New Construction)
Middle Clark Fork Tributaries	MT76M002_090	PETTY CREEK, headwaters to mouth (Clark Fork River)	5	12.2	MILES	B-1	P	P		X	X	X	P	Alteration in stream-side or littoral vegetative covers	Agriculture
														Excess Algal Growth	Highways, Roads, Bridges, Infrasturcture (New Construction)
														Low flow alterations	

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Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Clark Fork Tributaries	MT76M002_090	PETTY CREEK, headwaters to mouth (Clark Fork River)	5	12.2	MILES	B-1	P	P		X	X	X	P	Sedimentation/Siltation	
														Temperature, water	
Middle Clark Fork Tributaries	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	5	7.64	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Forest Roads (Road Construction and Use)
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Total Kjehldahl Nitrogen (TKN)	
Middle Clark Fork Tributaries	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	4C	23.56	MILES	A-CLOSED	F	P		F	F	F	X	Other flow regime alterations	Dam Construction (Other than Upstream Flood Control Projects)
															Flow Alterations from Water Diversions
Middle Clark Fork Tributaries	MT76M002_130	GRANT CREEK, headwaters to mouth (Clark Fork River)	5	18.78	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
														Excess Algal Growth	Irrigated Crop Production
														Low flow alterations	Loss of Riparian Habitat
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Site Clearance (Land Development or Redevelopment)
														Sedimentation/Siltation	Streambank Modifications/destablization
														Temperature, water	
Middle Clark Fork Tributaries	MT76M002_140	MILL CREEK, headwaters to mouth (Clark Fork River near Frenchtown)	4C	13.67	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
															Golf Courses
															Grazing in Riparian or Shoreline Zones
Middle Clark Fork Tributaries	MT76M002_150	SIXMILE CREEK, headwaters to mouth (Clark Fork River)	4C	10.36	MILES	B-1	P	P		X	X	X	X	Alteration in stream-side or littoral vegetative covers	Rangeland Grazing
															Silviculture Activities
Middle Clark Fork Tributaries	MT76M002_160	NEMOTE CREEK, headwaters to mouth (confluence Clark Fork River)	5	10.38	MILES	B-1	P	P		F	P	F	P	Chlorophyll-a	Dredge Mining
														Low flow alterations	Flow Alterations from Water Diversions
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Phosphorus (Total)	
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	

F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Clark Fork Tributaries	MT76M002_170	DRY CREEK, headwaters to mouth (Clark Fork River)	5	15.86	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Natural Sources Source Unknown
Middle Clark Fork Tributaries	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	5	8.02	MILES	B-1	N	N		N	P	N	N	Antimony Arsenic Cadmium Copper Lead Mercury Physical substrate habitat alterations Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive) Unspecified Unpaved Road or Trail
St. Regis	MT76M003_010	ST. REGIS RIVER, headwaters to mouth (Clark Fork River)	4A	40.3	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Sedimentation/Siltation Temperature, water	Channelization Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Loss of Riparian Habitat Streambank Modifications/destablization
St. Regis	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	4A	13.98	MILES	B-1	P	P		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Channelization Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrasturcture (New Construction) Loss of Riparian Habitat Silviculture Activities
St. Regis	MT76M003_030	SILVER CREEK, headwaters to mouth (St. Regis River)	4C	4.96	MILES	A-1	F	P		F	F	F	F	Other flow regime alterations	Highways, Roads, Bridges, Infrasturcture (New Construction) Impacts from Hydrostructure Flow Regulation/modification
St. Regis	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	4A	2.77	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Channelization

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Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
St. Regis	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	4A	2.77	MILES	B-1	P	P		F	F	F	F	Temperature, water	Loss of Riparian Habitat Streambank Modifications/destablization
St. Regis	MT76M003_070	LITTLE JOE CREEK, North Fork to mouth (St. Regis River)	4A	2.6	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation	Highways, Roads, Bridges, Infrasturcture (New Construction) Natural Sources Streambank Modifications/destablization
St. Regis	MT76M003_080	NORTH FORK LITTLE JOE CREEK, headwaters to mouth (Little Joe Creek)	4A	10.82	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Highways, Roads, Bridges, Infrasturcture (New Construction) Streambank Modifications/destablization
Ninemile	MT76M004_010	NINEMILE CREEK, headwaters to mouth (Clark Fork River)	4A	26.85	MILES	B-1	P	P		F	F	X	F	Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destablization
Ninemile	MT76M004_020	STONY CREEK, headwaters to mouth (Ninemile Creek)	5	7.07	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total) Sedimentation/Siltation	Agriculture Irrigated Crop Production
Ninemile	MT76M004_031	McCORMICK CREEK, Little McCormick Creek to mouth (Ninemile Creek)	4C	2.01	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Placer Mining
Ninemile	MT76M004_040	JOSEPHINE CREEK, headwaters to mouth (Ninemile Creek)	5	5.99	MILES	B-1	N	N		F	F	F	F	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Impacts from Hydrostructure Flow Regulation/modification Placer Mining
Ninemile	MT76M004_060	CEDAR CREEK, headwaters to mouth (Ninemile Creek)	5	4.52	MILES	B-1	P	P		F	P	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Natural Sources
Ninemile	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	4A	5.64	MILES	B-1	P	P		P	P	P	P	Alteration in stream-side or littoral vegetative covers Copper Lead Low flow alterations	Irrigated Crop Production Mine Tailings Placer Mining Subsurface (Hardrock) Minining

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Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ninemile	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	4A	5.64	MILES	B-1	P	P		P	P	P	P	Mercury	Surface Mining
														Sedimentation/Siltation	
														Zinc	
Ninemile	MT76M004_080	LITTLE MCCORMICK CREEK, headwaters to mouth (McCormick Creek)	5	3.54	MILES	B-1	N	N		I	I	F	I	Fish-Passage Barrier	Placer Mining
														Low flow alterations	
														Physical substrate habitat alterations	
														Sedimentation/Siltation	

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Appendix A: Impaired Waters

HUC 17010212 Lower Flathead **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Flathead	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	5	4.24	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Dam or Impoundment Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources
Lower Flathead	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart Reservoir to Flathead Reservation Boundary	5	5.2	MILES	B-2	P	P		F	F	F	P	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Upstream Impoundments (e.g., PI-566 NRCS Structures) Upstream Source
Lower Flathead	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	5	3.9	MILES	B-1	N	N		P	F	N	N	Alteration in stream-side or littoral vegetative covers Aluminum Cadmium Escherichia coli Phosphorus (Total) Sedimentation/Siltation Zinc pH	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Subsurface (Hardrock) Minining Surface Mining

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Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork River	MT76N001_010	CLARK FORK RIVER, the Flathead River to Noxon Reservoir	5	38.05	MILES	B-1	F	P		F	F	N	F	Cadmium Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects) Impacts from Abandoned Mine Lands (Inactive)
Clark Fork River	MT76N001_020	CLARK FORK RIVER, aka Cabinet Gorge Reservoir, Noxon Dam to Idaho Border	5	18.87	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Dissolved Gas Supersaturation Other flow regime alterations Temperature, water	Dam Construction (Other than Upstream Flood Control Projects) Dam or Impoundment
Middle Clark Fork Tributaries	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	5	13.33	MILES	B-1	N	N		F	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Channelization Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Prospect Creek	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	4A	19.07	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Antimony Lead Sedimentation/Siltation Zinc	Grazing in Riparian or Shoreline Zones Mine Tailings Silviculture Activities
Prospect Creek	MT76N003_021	ANTIMONY CREEK, headwaters to mouth (Prospect Creek)	4A	1.25	MILES	B-1	N	N		X	X	N	X	Antimony Arsenic Lead	Mill Tailings Natural Sources
Prospect Creek	MT76N003_022	COX GULCH headwaters to mouth (Prospect Creek)	5	3.61	MILES	B-1	N	N		N	X	N	X	Antimony Lead Zinc	Mill Tailings
Lower Clark Fork Tributaries	MT76N003_030	BEAVER CREEK, headwaters to mouth (Confluence with Clark Fork River)	4C	25.41	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Natural Sources

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Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Clark Fork Tributaries	MT76N003_040	BULL RIVER, the North Fork to mouth (Cabinet Gorge Reservoir)	5	25.18	MILES	B-1	P	P		F	F	X	F	Physical substrate habitat alterations Sedimentation/Siltation	Silviculture Activities Streambank Modifications/destablization
Prospect Creek	MT76N003_050	CLEAR CREEK, headwaters to mouth (Prospect Creek)	4A	12.09	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Streambank Modifications/destablization
Elk Creek	MT76N003_060	ELK CREEK, headwaters to mouth (Cabinet Gorge Reservoir)	4A	8.04	MILES	B-1	F	N		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Prospect Creek	MT76N003_070	DRY CREEK, headwaters (confluence of East andWest Forks) to mouth (Prospect Creek)	4A	4.23	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Highways, Roads, Bridges, Infrasturcture (New Construction) Rangeland Grazing
Lower Clark Fork Tributaries	MT76N003_080	GRAVES CREEK, headwaters to mouth (Clark Fork River)	4C	10.52	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related)
Lower Clark Fork Tributaries	MT76N003_090	MARTEN CREEK, headwaters to mouth (Noxon Reservoir)	5	6.78	MILES	B-1	P	P		F	F	X	X	Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Streambank Modifications/destablization
Lower Clark Fork Tributaries	MT76N003_100	PILGRIM CREEK, headwaters to mouth (Cabinet Gorge Reservoir)	4C	6.91	MILES	A-1	P	P		F	F	X	F	Physical substrate habitat alterations	Channelization Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Lower Clark Fork Tributaries	MT76N003_120	WHITE PINE CREEK, headwaters to mouth (Beaver Creek)	5	12.37	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Temperature, water	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Natural Sources Silviculture Harvesting Streambank Modifications/destablization Watershed Runoff following Forest Fire
Lower Clark Fork Tributaries	MT76N003_130	VERMILION RIVER, headwaters to mouth (Noxon Reservoir)	4C	22.84	MILES	B-1	P	P		F	F	X	X	Alteration in stream-side or littoral vegetative covers	Silviculture Activities

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Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Clark Fork Tributaries	MT76N003_130	VERMILION RIVER, headwaters to mouth (Noxon Reservoir)	4C	22.84	MILES	B-1	P	P		F	F	X	X		Streambank Modifications/destablization
Middle Clark Fork Tributaries	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N R27W S3	5	4.76	MILES	B-1	N	N		F	F	F	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting Source Unknown
Middle Clark Fork Tributaries	MT76N003_170	HENRY CREEK, headwaters to mouth (Clark Fork River), T19N R26W S1	5	7.1	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Source Unknown
Lower Clark Fork Tributaries	MT76N003_180	DRY CREEK, headwaters to mouth (Bull River), T28N R33W S32	5	4.1	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
Lower Clark Fork Tributaries	MT76N003_190	ROCK CREEK, headwaters to mouth below the Noxon Dam	4C	11.1	MILES	B-1	P	P		F	F	F	F	Other anthropogenic substrate alterations	Silviculture Activities
Thompson	MT76N005_030	McGREGOR CREEK, McGregor Lale to mouth (Thompson River)	5	6.82	MILES	B-1	N	N		F	F	F	P	Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water	Channelization Highway/Road/Bridge Runoff (Non-construction Related) Hydrostructure Impacts on Fish Passage Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Thompson	MT76N005_040	LITTLE THOMPSON RIVER, headwaters to mouth (Thompson River), T22N R25W S8	5	19.92	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Thompson	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	5	7.79	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Activities Source Unknown

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Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork **Watershed** Lower Clark Fork

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Thompson	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	5	7.79	MILES	B-1	P	P		F	F	F	P	Total Kjehldahl Nitrogen (TKN)	
Thompson	MT76N005_070	MCGINNIS CREEK, headwaters to mouth (Little Thompson River)	5	5.12	MILES	B-1	P	P		F	F	F	F	Fish-Passage Barrier Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Silviculture Harvesting Source Unknown

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