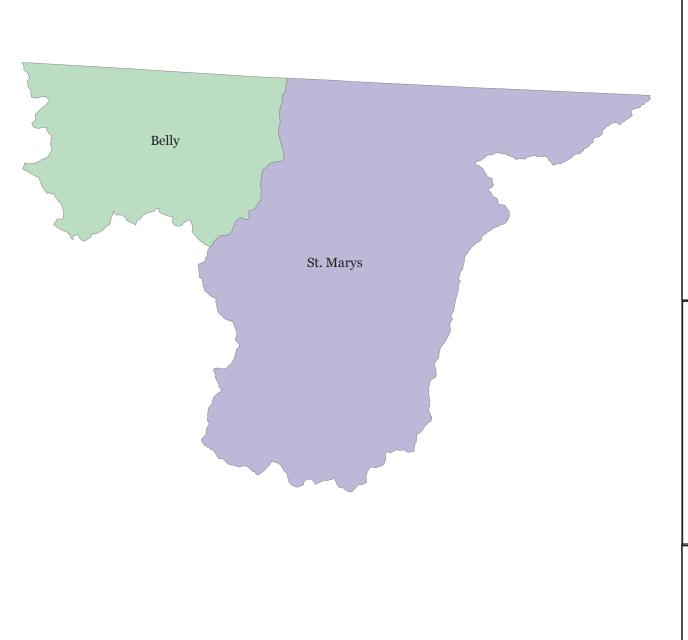


ST WTRSHD	HUC	HUC Name	ST WTRSHD	HUC	HUC Name
Upper South	09040001	St. Marys		10060004	West Fork Poplar
Saskatchewan River	09040002	Belly	Missessi Danlar	10060005	Charlie-Little Muddy
	10020001	Red Rock	Missouri-Poplar	10060006	Big Muddy
Missouri Headwaters	10020002	Beaverhead		10060007	Brush Lake Closed Basin
wał	10020003	Ruby		10070001	Yellowstone Headwaters
ead	10020004	Big Hole	ЭС	10070002	Upper Yellowstone
<u> </u>	10020005	-	stoı	10070003	Shields
onc	10020006	Boulder	low	10070004	Upper Yellowstone-Lake Basin
liss	10020007	Madison	≺el	10070005	Stillwater
2	10020008	Gallatin	Upper Yellowstone	10070006	Clarks Fork Yellowstone
iri	10030101	Upper Missouri	Upk	10070007	Upper Yellowstone-Pompeys Pillar
Upper Missouri	10030102	Upper Missouri-Dearborn		10070008	Pryor
Mis	10030103	• •	_		Big Horn Lake
)er	10030104	Sun	Big Horn		Shoshone
ηψ	10030105	Belt	H B	10080015	Lower Bighorn
		Two Medicine	Θ		Little Bighorn
Ø		Cut Bank			Upper Tongue
Marias	10030203		Tongue		Lower Tongue
\mathbb{A}_{a}	10030204				Middle Powder
	10030205		der		Little Powder
		Bullwhacker-Dog	Powder		Lower Powder
Fort Peck Lake	10040102		ď	10090210	
\ Ls	10040102				Lower Yellowstone-Sunday
ecl		Fort Peck Reservoir	ower		Big Porcupine
Ę E	10040105			10100002	
P _O	10040106	- ·			Lower Yellowstone
		Upper Musselshell	Ύe	10100004	
lle l		Middle Musselshell	≥ n		Upper Little Missouri
elsk		Flat Willow	ouri	10110201	
Musselshell		Box Elder	isse		Middle Little Missouri
Σ		Lower Musselshell	e Ne Ne	10110204	
		Milk Headwaters	Little Missouri/ Belle Fourche		Lower Belle Fourche
		Upper Milk	_		Middle Kootenai
		Wild Horse Lake		17010101	
		Middle Milk	nai	17010102	
		Big Sandy	Kootenai		Lower Kootenai
	10050006	- ·	δ	17010104	
	10050007			17010103	
~	10050007				Upper Clark Fork
Mik	10050000				Flint-Rock
		Cottonwood			Blackfoot
		Whitewater	end Oreille		Middle Clark Fork
		Lower Milk			Bitterroot
		Frenchman			North Fork Flathead
	10050013				Middle Fork Flathead
	10050014				Flathead Lake
		Porcupine			South Fork Flathead
	-	•			
Missouri-Poplar		Prairie Elk-Wolf			Stillwater
เงแจจบนก-คบคเสโ		Redwater		17010211	Lower Flathead
	10060003	гиріаі			
				17010213	Lower Clark Fork



Upper South Saskatchewan River Sub-Major Basin

Included with Missouri River Basin for Administrative Purposes

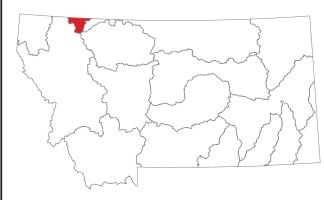
USGS HUC

HUC NAME

09040001

St. Marys

09040002 Belly



Montana Department of Environmental Quality

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HUC: 09040001 St. Marys Watershed: Upper South Saskatchewan River

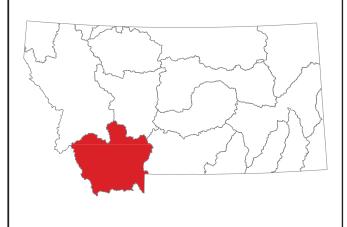
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Cut Bank - Two Medicine	MT40T002_010	DIVIDE CREEK, headwaters to mouth (Saint Mary River)	4C	10.55	MILES	A-1	N	F	х	Х	Alterations in wetland habitats Other anthropogenic substrate alterations	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Site Clearance (Land Development or Redevelopment)

Boulder Jefferson Big Hole Gallatin Beaverhead Ruby Madison Red Rock

Missouri Headwaters Sub-Major Basin

Upper Missouri River Basin

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



Montana Department of Environmental Quality

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HUC: 10020001 Red Rock **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Red Rock	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark	5	51.81	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Canyon Reservoir									vegetative covers Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature, water	
											Zinc	
Red Rock	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	5	43.82	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Temperature, water	
Red Rock	MT41A002_010	CLARK CANYON RESERVOIR	4C	4922.1	ACRES	B-1	N	F	F	N	Other flow regime alterations	Drought-related Impacts
												Irrigated Crop Production
Red Rock	MT41A003 010	MEDICINE LODGE CREEK, headwater	s 5	34.64	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
	_	to mouth (Horse Prairie Creek)									vegetative covers Low flow alterations	Irrigated Crop Production
											Phosphorus (Total)	•
											Sedimentation/Siltation	
											Temperature, water	
Red Rock	MT41A003_020	MUDDY CREEK, confluence of	5	11.08	MILES	B-1	N	F	F	N	Turbidity	Agriculture
Ned Nock	W141A003_020	Sourdough and Wilson Creek to mouth (Big Sheep Creek), T14S R10W S10	3	11.00	WILLO	D-1	14		•		rubialty	Streambank Modifications/destabilization
		(big Sneep Creek), 1143 K 10W 310										Streambank Wouncations/destabilization
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters mouth (Clark Canyon Res)	to 5	46.67	MILES	B-1	N	F	N	N	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	Irrigated Crop Production
											Copper	
											Lead	
											Low flow alterations	
											Mercury	

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

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HUC: 10020001 Red Rock **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters t mouth (Clark Canyon Res)	o 5	46.67	MILES	B-1	N	F	N	N	Zinc	
Red Rock	MT41A003_100	BLOODY DICK CREEK, headwaters to mouth (Horse Prairie Creek)	5	30.32	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
Red Rock	MT41A003_150	SHEEP CREEK, Muddy Creek to mouth (Red Rock River)	5	10.98	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(Near Nook Niver)									Excess Algal Growth	Irrigated Crop Production
											Low flow alterations	
											Sedimentation/Siltation	
Red Rock	MT41A004_010	PRICE CREEK, headwaters to mouth (Red Rock River)	5	10.52	MILES	B-1	N	F	F	N	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	N	F	F	N	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	N	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	N	F	F	N	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Red Rock	MT41A004_060	HELL ROARING CREEK, headwaters to mouth (Red Rock River)	4C	10.17	MILES	B-1	N	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	F	F	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
											Other flow regime alterations	Irrigated Crop Production
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail

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HUC: 10020001 Red Rock **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Red Rock	MT41A004_080	O'DELL CREEK, headwaters to mouth (Lower Red Rock Lake)	5	16.09	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
		(Lowel Neu Nock Lake)									Turbidity	Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat
Red Rock	MT41A004_090	PEET CREEK, headwaters to mouth (Re	ed 5	10.13	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		Rock River)									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Other flow regime alterations	Irrigated Crop Production
											Phosphorus (Total)	
											Sedimentation/Siltation	
Red Rock	MT41A004_100	TOM CREEK, headwaters to mouth	5	6.6	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Upper Red Rock Lake)									vegetative covers Low flow alterations	Irrigated Crop Production
											Sedimentation/Siltation	
Red Rock	MT41A004_110	RED ROCK CREEK, headwaters to	5	18.38	MILES	B-1	N	Х	х	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Upper Red Rock Lake)									vegetative covers Turbidity	Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat
Red Rock	MT41A004_130	JONES CREEK, headwaters to mouth	5	8.33	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Winslow Creek)									vegetative covers Excess Algal Growth	Irrigated Crop Production
											Other flow regime alterations	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Red Rock	MT41A004_140	BEAN CREEK, headwaters to mouth (Re	ed 5	6.62	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Channelization
		Rock River), T14S R3E S7									vegetative covers Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	2217.5	ACRES	B-1	N	Х	Х	N	Other flow regime alterations	Agriculture
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Low Water Crossing
												Rangeland Grazing

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HUC: 10020001 Red Rock Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	2217.5	ACRES	B-1	N	Х	X	N		Upstream Source
Red Rock	MT41A005_030	UPPER RED ROCK LAKE	5	2947	ACRES	B-1	N	Х	Х	N	Other flow regime alterations	Agriculture
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Rangeland Grazing
												Upstream Source



HUC: 10020002 Beaverhead **Watershed:** Missouri Headwaters

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

 $\textbf{AqL} = \textbf{Aquatic Life}; \quad \textbf{Ag} = \textbf{Agriculture}; \quad \textbf{DW} = \textbf{Drinking Water}; \quad \textbf{Rec} = \textbf{Primary Contact Recreation}$

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*} The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10020002 Beaverhead **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Beaverhead	MT41B002_060	WEST FORK BLACKTAIL DEER CREE	EK, 5	19.07	MILES	B-1	N	N	N	N	Arsenic	Grazing in Riparian or Shoreline Zones
		headwaters to mouth (Blacktail Deer Creek)									Chlorophyll-a	Mine Tailings
											Sedimentation/Siltation	
Beaverhead	MT41B002_070	WEST FORK DYCE CREEK, headwate	ers 5	3.95	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		to mouth (Dyce Creek)									vegetative covers Manganese	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Placer Mining
												Silviculture Harvesting
Beaverhead	MT41B002_080	SPRING CREEK, headwaters to mouth	5	15.67	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Agriculture
		(Beaverhead River)									vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Chlorophyll-a	Irrigated Crop Production
											Low flow alterations	
											Nitrogen (Total)	
											Sedimentation/Siltation	
Beaverhead	MT41B002_090	RATTLESNAKE CREEK, from the Dillo		9.52	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	0								vegetative covers Cadmium	Irrigated Crop Production
											Copper	Subsurface (Hardrock) Mining
											Lead	
											Low flow alterations	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters to		17.95	MILES	A-1	N	F	N	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Dillon PWS off-channel well, T7S R10V S11	I								vegetative covers Cadmium	Irrigated Crop Production
											Copper	Subsurface (Hardrock) Mining
											Lead	

^{*} The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10020002 Beaverhead Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters t		17.95	MILES	A-1	N	F	N	F	Nitrogen (Total)	
		Dillon PWS off-channel well, T7S R10V S11	V								Phosphorus (Total)	
											Sedimentation/Siltation	
Beaverhead	MT41B002_100	FRENCH CREEK, headwaters to mout (Rattlesnake Creek)	h 4A	6.55	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		(Nattiestiake Cleek)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_110	CLARK CANYON CREEK, headwaters mouth (Beaverhead River), T9S R10W S28		8.07	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Beaverhead	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	5	12.76	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Sedimentation/Siltation	
Beaverhead	MT41B002_131	STONE CREEK, Un-named tributary at		6.53	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Agriculture
		T6S R7W S34 to Staudaher Bishop Dit	cn								vegetative covers Arsenic	Crop Production (Crop Land or Dry Land)
											Chlorophyll-a	Surface Mining
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Unspecified Unpaved Road or Trail
											Phosphorus (Total)	
											Sedimentation/Siltation	
Beaverhead	MT41B002_132	STONE CREEK, Left and Middle Fork to	0 5	7.07	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		un-named tributary, T6S R7W S34									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Highway/Road/Bridge Runoff (Non-construction Related)
											Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New
											Turbidity	Construction) Irrigated Crop Production
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and	5	4.13	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		West Forks to Grasshopper Creek									vegetative covers Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10020002 Beaverhead Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW	lse 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	N	F	F	N	Sedimentation/Siltation	
Beaverhead	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscoll Creek), T6S R12W S18	5	3.66	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Nitrogen (Total)	Grazing in Riparian or Shoreline Zones Subsurface (Hardrock) Mining
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Beaverhead	MT41B002_170	TAYLOR CREEK, headwaters to mouth (Grasshopper Creek)	h 5	11.73	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Beaverhead	MT41B002_180	SCUDDER CREEK, headwaters to mo (Grasshopper Creek), T6S R12W S19	uth 5	5.62	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	



HUC: 10020003 Ruby Watershed: Missouri Headwaters

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

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 10020003 Ruby Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial U	Jse Rec	Cause Name *	Source Name *
Alea		Name/Location				Ciass	Aqı	. Ag	DVV	Rec		
Ruby	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	5	20.65	MILES	B-1	N	F	F	N	Chlorophyll-a	Forest Roads (Road Construction and Use)
		(Ruby River)									Lead	Grazing in Riparian or Shoreline Zones
											Manganese	Mill Tailings
											Mercury	Mine Tailings
											Nitrogen (Total)	Placer Mining
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Ruby	MT41C002_050	RAMSHORN CREEK, headwaters to	5	15.2	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Channelization
		mouth (Ruby River)									vegetative covers Lead	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Irrigated Crop Production
											Phosphorus (Total)	Mine Tailings
											Sedimentation/Siltation	Placer Mining
												Unspecified Unpaved Road or Trail
Ruby	MT41C002_060	CURRANT CREEK, headwaters to mou	ıth 5	3.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Ramshorn Creek), T4S R4W S35									vegetative covers Copper	Mine Tailings
											Lead	Unspecified Unpaved Road or Trail
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Ruby	MT41C002_090	CALIFORNIA CREEK, headwaters to	5	10.94	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Ruby River), T5S R4W S30									vegetative covers Phosphorus (Total)	Placer Mining
											Sedimentation/Siltation	
Ruby	MT41C002_100	GARDEN CREEK, headwaters to mouth	h 5	7.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
•		(Ruby Reservoir)									vegetative covers Nitrogen (Total)	Unspecified Unpaved Road or Trail
											Phosphorus (Total)	
											Sedimentation/Siltation	
						_				_		
Ruby	MT41C002_110	MORMON CREEK, headwaters to mou	th 5	7.86	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

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HUC: 10020003 Ruby Watershed: Missouri Headwaters

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

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HUC: 10020003 Ruby Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag		Jse Rec	Cause Name *	Source Name *
Ruby	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	5	11.82	MILES	B-1	N	F	F	F	Nitrogen (Total) Phosphorus (Total)	
Ruby	MT41C003_110	POISON CREEK, headwaters to mouth	5	6.2	MILES	B-1	N	F	F	F	Sedimentation/Siltation Alteration in stream-side or littoral	Natural Sources
Kuby		(Ruby River), T11S R3W S18	ŭ	0.2	WILLO	51	"	·	•	·	vegetative covers Cadmium	Placer Mining Rangeland Grazing
											Lead Nitrogen (Total)	Kangeland Grazing
											Phosphorus (Total) Sedimentation/Siltation	
Ruby	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	5	5.4	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total) Sedimentation/Siltation	
Ruby	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	5	5.62	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Sedimentation/Siltation	
Ruby	MT41C003_140	HAWKEYE CREEK, headwaters to mou	uth 5	4.23	MILES	B-1	N	F	F	F	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
		(IVIIIGGIE FOIK RUDY RIVEI)										Source Unknown
Ruby	MT41C003_150	SHOVEL CREEK, headwaters to mouth (Cabin Creek)	4A	5.61	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Rangeland Grazing



HUC: 10020004 Big Hole Watershed: Missouri Headwaters

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

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mou	ith 4A	18.98	MILES	B-1	N	F	N	N	Physical substrate habitat alterations	Mine Tailings
		(Big Hole River)									Sedimentation/Siltation	Unspecified Unpaved Road or Trail
											Zinc	
Lower Big Hole	MT41D002_020	CAMP CREEK, headwaters to mouth (I	Big 5	15.6	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Hole River)									vegetative covers 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 mout	h 4C	18.41	MILES	B-1	Х	Х	Х	N	Low flow alterations	Agriculture
		(Big Hole River)										Irrigated Crop Production
Lower Big Hole	MT41D002_040	DIVIDE CREEK, headwaters to mouth	4A	13.99	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Big Hole River)									vegetative covers 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	4A	16.99	MILES	B-1	N	Х	Х	N	Low flow alterations	Irrigated Crop Production
		(Big Hole River at Maiden Rock)									Sedimentation/Siltation	
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth	4A	4.93	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Big Hole River)									vegetative covers Nitrogen (Total)	Crop Production (Crop Land or Dry Land)
											Other flow regime alterations	Unspecified Unpaved Road or Trail
											Phosphorus (Total)	
											Sedimentation/Siltation	



HUC: 10020004 Big Hole **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial L DW	Jse Rec	Cause Name *	Source Name *
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	F	F	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
Lower Big Hole	MT41D002_090	BIRCH CREEK, headwaters to National	4A	13.91	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		Forest Boundary									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Irrigated Crop Production
												Streambank Modifications/destabilization
Lower Big Hole	MT41D002_100	BIRCH CREEK, National Forest Bounda	ry 4A	10.67	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Channelization
		to mouth (Big Hole River)									vegetative covers Low flow alterations	Dam or Impoundment
											Other anthropogenic substrate alterations	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	
Lower Big Hole	MT41D002_110	WILLOW CREEK, headwaters to mouth	4C	23.39	MILES	B-1	Х	Х	Х	N	Low flow alterations	Agriculture
		(Big Hole River), T4S R8W S1										Irrigated Crop Production
Lower Big Hole	MT41D002_120	WICKIUP CREEK, headwaters to mouth	5	4.09	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		(Camp Creek), T2S R8W S1									vegetative covers Bottom Deposits	Grazing in Riparian or Shoreline Zones
											Copper	Subsurface (Hardrock) Mining
											Lead	
											Mercury	
											Phosphorus (Total)	
Lower Big Hole	MT41D002_140	SOAP CREEK, headwaters to mouth (Bi	g 4A	8.24	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Hole River), T2S R9W S10									vegetative covers Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to	5	4.06	MILES	A-1	N	F	F	F	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
		mouth (Big Hole River)									Phosphorus (Total)	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	

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Lower Big Hole	MT41D002_160				Units	Class	Aql	_ Ag	DW	Rec	Cause Name *	Source Name *
	W1141D002_100	ROCHESTER CREEK, headwaters to	4A	14.92	MILES	B-1	N	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
		mouth (Big Hole River), T3S R6W S29									Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Subsurface (Hardrock) Mining
											Mercury	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Lower Big Hole	MT41D002_180	LOST CREEK, headwaters to mouth (Lo	st 4A	7.84	MILES	B-1	N	N	N	F	Alteration in stream-side or littoral	Mine Tailings
		Creek Canal/Ditch), T4S R9W S15									vegetative covers Arsenic	Rangeland Grazing
											Nitrogen (Total)	Unspecified Unpaved Road or Trail
											Phosphorus (Total)	
											Sedimentation/Siltation	
Middle Big Hole	MT41D003_020	JERRY CREEK, headwaters to mouth	5	12.69	MILES	A-1	N	F	N	N	Alteration in stream-side or littoral	Acid Mine Drainage
		(Big Hole River)									vegetative covers Copper	Agriculture
											Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized 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	N	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 (Bi	g 4A	9.21	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral	Irrigated Crop Production
		Hole River)									vegetative covers Low flow alterations	Rangeland Grazing
											Sedimentation/Siltation	Streambank Modifications/destabilization



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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	B Aq	enefi L Ag	cial U DW	Jse Rec	Cause Name *	Source Name *
Middle Big Hole	MT41D003_050	FRENCH CREEK, headwaters to mout	n 4A	10.08	MILES	A-1	N	х	N	Х	Arsenic	Acid Mine Drainage
		(Deep Creek)									Copper	Atmospheric Deposition - Toxics
											Sedimentation/Siltation	Contaminated Sediments
												Impacts from Abandoned Mine Lands (Inactive)
Middle Big Hole	MT41D003_070	CALIFORNIA CREEK, headwaters to	5	8.28	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Agriculture
		mouth (French Creek-Deep Creek)									vegetative covers Arsenic	Atmospheric Deposition - 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 mou	h 5	3.09	MILES	A-1	N	N	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		Creek)									Arsenic	Agriculture
											Copper	Atmospheric Deposition - 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, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Mine Tailings

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mout (California Creek-French Creek-Deep Creek)	h 5	3.09	MILES	A-1	N	N	N	F		Natural Sources Silviculture Activities Streambank Modifications/destabilization
Middle Big Hole	MT41D003_090	SIXMILE CREEK, headwaters to mouth (California Creek)	4A	4.4	MILES	A-1	N	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Unspecified Unpaved Road or Trail Rangeland Grazing Silviculture Activities Streambank Modifications/destabilization
Middle Big Hole	MT41D003_110	SEVENMILE CREEK, headwaters to mouth (Deep Creek)	4A	6.43	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Unspecified Unpaved Road or Trail Natural Sources Rangeland Grazing Streambank Modifications/destabilization
Middle Big Hole	MT41D003_120	TWELVEMILE CREEK, headwaters to mouth (Deep Creek)	5	9.09	MILES	A-1	N	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	N	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	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	N	F	F	N	Sedimentation/Siltation Alteration in stream-side or littoral vegetative covers Low flow alterations	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
											Phosphorus (Total) Sedimentation/Siltation	
Middle Big Hole	MT41D003_170	PINTLAR CREEK, headwaters to mouth (Big Hole River)	n 5	21.25	MILES	A-1	N	F	F	N	Low flow alterations Other flow regime alterations Physical substrate habitat alterations Temperature, water	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

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HUC: 10020004 Big Hole Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Middle Big Hole	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	g 4A	26.67	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
		Hole River)									Cadmium	Channelization
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
												Rangeland Grazing
Middle Big Hole	MT41D003_210	PATTENGAIL CREEK, headwaters to mouth (Wise River)	4A	20.04	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Dam Construction (Other than Upstream Flood Control Projects) Highways, Roads, Bridges, Infrastructure (New
											Sedimentation/Siltation	Construction)
Middle Big Hole	MT41D003_220	ELKHORN CREEK, headwaters to mou	th 4A	7.52	MILES	A-1	N	F	F	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
		(Jacobson Creek)									Cadmium	Mill Tailings
											Copper	Mine Tailings
											Lead	
											Sedimentation/Siltation	
											Zinc	
Middle Big Hole	MT41D003_230	GOLD CREEK, headwaters to mouth (Wise River)	5	4.92	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
North Fork Big Hole	MT41D004_010	NORTH FORK BIG HOLE RIVER,	4A	25.92	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		headwaters to mouth (Big Hole River)									vegetative covers Low flow alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											Sedimentation/Siltation	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	F	N	N	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 10020004 Big Hole Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
North Fork Big Hole	MT41D004_020	MUSSIGBROD CREEK, headwaters to	5	14.62	MILES	A-1	N	F	N	N	Lead	Agriculture
		mouth (North Fork Big Hole River)									Low flow alterations	Grazing in Riparian or Shoreline Zones
											Other anthropogenic substrate alterations	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations Sedimentation/Siltation	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 mou (North Fork Big Hole River)	th 5	15.7	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
											Nitrogen (Total)	Silviculture Harvesting
											Sedimentation/Siltation	
North Fork Big Hole	MT41D004_040	SCHULTZ CREEK, headwaters to mour (Johnson Creek)	h 5	3.28	MILES	A-1	N	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 (Nor	h 5	16.49	MILES	A-1	N	F	F	F	Nitrogen (Total)	Rangeland Grazing
		Fork Big Hole River)									Physical substrate habitat alterations	Silviculture Activities
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	4A	13.07	MILES	A-1	N	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/destabilization
North Fork Big Hole	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth (North Fork Big Hole River)	4A	10.88	MILES	A-1	N	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Unspecified Unpaved Road or Trail Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities Streambank Modifications/destabilization

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HUC: 10020004 Big Hole **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial (DW		Cause Name *	Source Name *
North Fork Big Hole	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth (North Fork Big Hole River)	4A	10.88	MILES	A-1	N	F	F	F		Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_090	JOSEPH CREEK, headwaters to mouth	5	7.29	MILES	A-1	N	F	N	F	Copper	Channelization
		(Trail Creek)									Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Silviculture Harvesting
North Fork Big Hole	MT41D004_100	RUBY CREEK, headwaters to mouth	4A	18.8	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral	Dredge Mining
		(North Fork Big Hole River)									vegetative covers Low flow alterations	Forest Roads (Road Construction and Use)
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	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	5	25	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Big Hole River)									vegetative covers Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Loss of Riparian Habitat
											Phosphorus (Total)	
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_120	ROCK CREEK, headwaters to mouth (B	ig 5	25.62	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		Hole River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Hydrostructure Flow
											Phosphorus (Total)	Regulation/modification Irrigated Crop Production
											Physical substrate habitat alterations	Loss of Riparian Habitat
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	4A	21.88	MILES	A-1	N	I	I	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Upper Big Hole	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	4A	21.88	MILES	A-1	N	I	I	F		Grazing in Riparian or Shoreline Zones
Upper Big Hole	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	5	19	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture Grazing in Riparian or Shoreline Zones
											Copper	•
											Low flow alterations	Habitat Modification - other than Hydromodification
											Other anthropogenic substrate alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
Upper Big Hole	MT41D004_160	PINE CREEK, headwaters to mouth (Andrus Creek)	5	5.37	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Rangeland Grazing
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	5	6.85	MILES	A-1	N	F	F	F	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
		(Governor Greek)									Sedimentation/Siltation	
Upper Big Hole	MT41D004_180	WARM SPRINGS CREEK, headwaters mouth (Big Hole River)	to 5	20	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Loss of Riparian Habitat
											Phosphorus (Total)	
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	5	16.69	MILES	A-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		(big Hole Kivel)									Cadmium	Agriculture
											Copper	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Habitat Modification - other than Hydromodification
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Other anthropogenic substrate alterations Phosphorus (Total)	Impacts from Hydrostructure Flow Regulation/modification
												Irrigated Crop Production
											Physical substrate habitat alterations	Loss of Riparian Habitat
											Sedimentation/Siltation	Rangeland Grazing

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Upper Big Hole	MT41D004_200	FRANCIS CREEK, headwaters to mout (Steel Creek)	th 4A	8.81	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	5	9.48	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_220	DOOLITTLE CREEK, headwaters to mouth (Big Hole River)	4A	5.59	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
											Low flow alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	Irrigated Crop Production
Middle Big Hole	MT41D004_230	SAWLOG CREEK, headwaters to mout (Big Hole River)	th 5	4.79	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	•



HUC: 10020005 Jefferson Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Upper Jefferson	MT41G001_011	JEFFERSON RIVER, headwaters to	5	40.9	MILES	B-1	N	F	F	Х	Iron	Dam or Impoundment
		confluence of Jefferson Slough									Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Impacts from Hydrostructure Flow
											Physical substrate habitat alterations	Regulation/modification Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
											Solids (Suspended/Bedload)	Natural Sources
											Temperature, water	Streambank Modifications/destabilization
Lower Jefferson	MT41G001_012	JEFFERSON RIVER, confluence of Jefferson Slough to mouth (Missouri	5	33.5	MILES	B-1	N	F	F	Х	Copper	Dam or Impoundment
		River)									Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
											Solids (Suspended/Bedload)	Natural Sources
											Temperature, water	Streambank Modifications/destabilization
Upper Jefferson	MT41G002_010	BIG PIPESTONE CREEK, headwaters		22.46	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Agriculture
		mouth (Jefferson Slough), T1N R4W S	11								vegetative covers Arsenic	Channelization
											Cause Unknown	Dam or Impoundment
											Nitrogen (Total)	Forest Roads (Road Construction and Use)
											Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Habitat Modification - other than Hydromodification
											Physical substrate habitat alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New
											Temperature, water	Construction) Irrigated Crop Production
											Total Suspended Solids (TSS)	Loss of Riparian Habitat
												Municipal Point Source Discharges
												Sediment Resuspension (Clean Sediment)
												Source Unknown



HUC: 10020005 Jefferson Watershed: Missouri Headwaters

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Upper Jefferson	MT41G002_010	BIG PIPESTONE CREEK, headwaters mouth (Jefferson Slough), T1N R4W S		22.46	MILES	B-1	N	F	N	N		Streambank Modifications/destabilization Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_020	HALFWAY CREEK, headwaters to moi (Big Pipestone Creek-Jefferson River)	uth 5	7.9	MILES	B-1	N	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 mouth (Jefferson River)	to 4A	13.28	MILES	B-1	N	F	F	N	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, headward to mouth (Big Pipestone Creek)	ers 5	16.86	MILES	B-1	N	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 mouth (Willow Creek)	to 5	17.62	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Irrigated Crop Production Natural Sources Subsurface (Hardrock) Mining
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwater mouth (Jefferson River)	s to 5	23.32	MILES	B-1	N	F	F	N	Arsenic Copper Lead Low flow alterations Mercury	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Mine Tailings

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HUC: 10020005 Jefferson **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwaters mouth (Jefferson River)	to 5	23.32	MILES	B-1	N	F	F	N	Phosphorus (Total)	
Lower Jefferson	MT41G002_080	WILLOW CREEK, North and South Fork confluence to mouth (Jefferson River)	5	15.28	MILES	B-1	N	F	F	N	Low flow alterations	Acid Mine Drainage
		confidence to mouth (Jenerson River)									Temperature, water	Flow Alterations from Water Diversions
											Zinc	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	F	N	F	Alteration in stream-side or littoral vegetative covers	Animal Feeding Operations (NPS)
		mouth (willow Creek Reservoir)									Arsenic	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	
											Temperature, water	
Upper Jefferson	MT41G002_100	FISH CREEK, headwaters to mouth	4A	19.87	MILES	B-1	N	F	ı	N	Alteration in stream-side or littoral	Flow Alterations from Water Diversions
		(Jefferson Canal), T1S R5W S12									vegetative covers Low flow alterations	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Irrigated Crop Production
Upper Jefferson	MT41G002_110	CHERRY CREEK, headwaters to mouth	4A	6.88	MILES	B-1	N	F	ı	N	Alteration in stream-side or littoral	Flow Alterations from Water Diversions
		(Jefferson River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Irrigated Crop Production
												Loss of Riparian Habitat
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to	5	16.2	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		mouth (Willow Creek)									vegetative covers Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											Physical substrate habitat alterations	Irrigated Crop Production
											Sedimentation/Siltation	Natural Sources
											Zinc	
Upper Jefferson	MT41G002_140	LITTLE WHITETAIL CREEK, Whitetail Reservoir to mouth (Whitetail Deer Creek	4A <)	13.7	MILES	B-1	N	X	I	Х	Aluminum	Subsurface (Hardrock) Mining

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HUC: 10020005 Jefferson Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Upper Jefferson	MT41G002_140	LITTLE WHITETAIL CREEK, Whitetail Reservoir to mouth (Whitetail Deer Cree	4A ek)	13.7	MILES	B-1	N	Х	I	Х	Copper	
											Lead	
Upper Jefferson	MT41G002_141	WHITETAIL DEER CREEK, headwaters to mouth (Jefferson Slough)	s 5	27.13	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
		to mouth (Jenerson Slough)									Aluminum	Irrigated Crop Production
											Ammonia (Un-ionized)	Rangeland Grazing
											Chlorophyll-a	Subsurface (Hardrock) Mining
											Lead	Upstream Source
											Low flow alterations	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Lower Jefferson	MT41G002_150	CHARCOAL CREEK, headwaters to	5	2.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Pony Creek)									vegetative covers Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_160	FITZ CREEK, headwaters to mouth (Whitetail Deer Creek)	5	4.71	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Upper Jefferson	MT41G002_170	JEFFERSON SLOUGH, Jefferson Rive to the mouth (Jefferson River)	r 4A	18.8	MILES	B-1	N	х	N	Χ	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
		to the mouth (sellerson rever)									Cadmium	
											Copper	
											Zinc	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E001_010	BOULDER RIVER, headwaters to Basi	n 4A	24.38	MILES	B-1	N	F	F	F	Copper	Acid Mine Drainage
		Creek									Lead	Impacts from Abandoned Mine Lands (Inactive)
												Mill Tailings
												Mine Tailings
Boulder - Elkhorn	MT41E001_021	BOULDER RIVER, Basin Creek to Tow of Boulder	n 4A	9.28	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		or boulder									Arsenic	Channelization
											Cadmium	Habitat Modification - other than Hydromodification
											Copper	Highways, Roads, Bridges, Infrastructure (New Construction)
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Zinc	Mill Tailings
												Mine Tailings
Boulder - Elkhorn	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	4A	35.85	MILES	B-1	N	х	N	Х	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		CONOTINUOS OF CON									Arsenic	Contaminated Sediments
											Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Habitat Modification - other than Hydromodification
											Iron	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Impacts from Hydrostructure Flow Regulation/modification
											Low flow alterations	Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature, water	
											Zinc	
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek		14.12	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		the mouth (Jefferson Slough), T1N R3V S2	/V								vegetative covers Arsenic	Contaminated Sediments
											Cadmium	Forest Roads (Road Construction and Use)
											Copper	Grazing in Riparian or Shoreline Zones
											Iron	Highways, Roads, Bridges, Infrastructure (New
											Lead	Construction) Impacts from Abandoned Mine Lands (Inactive)

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HUC: 10020006 Boulder **Watershed:** Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek to		14.12	MILES	B-1	N	Х	N	Х	Low flow alterations	Impacts from Hydrostructure Flow
		the mouth (Jefferson Slough), T1N R3W S2	I								Sedimentation/Siltation	Regulation/modification Irrigated Crop Production
											Temperature, water	Mill Tailings
											Zinc	Mine Tailings
Boulder - Elkhorn	MT41E002_010	UNCLE SAM GULCH, headwaters to	4A	2.89	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral	Acid Mine Drainage
		mouth (Cataract Creek)									vegetative covers Aluminum	Agriculture
											Arsenic	Forest Roads (Road Construction and Use)
											Cadmium	Habitat Modification - other than Hydromodification
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Silviculture Activities
											Nitrogen, Nitrate	Subsurface (Hardrock) Mining
											Other flow regime alterations	
											Sedimentation/Siltation	
											Turbidity	
											Zinc	
Boulder - Elkhorn	MT41E002_020	CATARACT CREEK, headwaters to	4A	11.72	MILES	B-1	N	Х	N	F	Aluminum	Acid Mine Drainage
		mouth (Boulder River)									Arsenic	Contaminated Sediments
											Cadmium	Forest Roads (Road Construction and Use)
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Loss of Riparian Habitat
											Sedimentation/Siltation	Mine Tailings
											Zinc	Rangeland Grazing
												Silviculture Activities
												Silviculture Harvesting
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth	4A	16.7	MILES	A-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		(Boulder River)									vegetative covers Aluminum	Contaminated Sediments
											Arsenic	Forest Roads (Road Construction and Use)



HUC: 10020006 Boulder Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth	4A	16.7	MILES	A-1	N	Х	N	Х	Cadmium	Impacts from Abandoned Mine Lands (Inactive)
		(Boulder River)									Copper	Loss of Riparian Habitat
											Lead	Mine Tailings
											Sedimentation/Siltation	Rangeland Grazing
											Zinc	Silviculture Activities
												Silviculture Harvesting
Boulder - Elkhorn	MT41E002_040	HIGH ORE CREEK, headwaters to more	uth 4A	6.65	MILES	B-1	N	Х	N	F	Alteration in stream-side or littoral	Acid Mine Drainage
		(Boulder River)									vegetative covers Arsenic	Channelization
											Cadmium	Contaminated Sediments
											Copper	Forest Roads (Road Construction and Use)
											Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
											Temperature, water	Loss of Riparian Habitat
											Total Suspended Solids (TSS)	Mine Tailings
											Zinc	Rangeland Grazing
												Silviculture Activities
Boulder - Elkhorn	MT41E002_050	LOWLAND CREEK, headwaters to more	uth 4A	14.25	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Channelization
		(Boulder River)									vegetative covers Aluminum	Dredge Mining
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Streambank Modifications/destabilization
											Physical substrate habitat alterations	
Boulder - Elkhorn	MT41E002_061	ELKHORN CREEK, headwaters to Woo	od 4A	8.16	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		Gulch									vegetative covers Arsenic	Channelization
											Cadmium	Dredge Mining
											Copper	Grazing in Riparian or Shoreline Zones
											Iron	Habitat Modification - other than Hydromodification
											Lead	Highways, Roads, Bridges, Infrastructure (New Construction)



HUC: 10020006 Boulder Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Boulder - Elkhorn	MT41E002_061	ELKHORN CREEK, headwaters to Worduch	od 4A	8.16	MILES	B-1	N	X	N	Х	Low flow alterations Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3 S21		3.56	MILES	B-1	N	Х	N	Х	Arsenic Cadmium	Acid Mine Drainage Grazing in Riparian or Shoreline Zones
											Lead Low flow alterations Sedimentation/Siltation	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)	4A	25.36	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic Copper Iron Nitrogen (Total)	Agriculture Channelization Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastructure (New
Boulder - Elkhorn	MT41E002_080	LITTLE BOULDER RIVER, headwaters mouth (Boulder River)	s to 4A	16.3	MILES	B-1	N	F	F	X	Phosphorus (Total) Sedimentation/Siltation Alteration in stream-side or littoral vegetative covers Aluminum	Construction) Impacts from Abandoned Mine Lands (Inactive) Agriculture Dredge Mining
											Copper Iron Lead Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_090	NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	4A	12.09	MILES	B-1	N	X	F	F	Alteration in stream-side or littoral vegetative covers Aluminum Copper Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mot (Boulder River)	uth 4A	12.83	MILES	B-1	N	х	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)

AqL=Aquatic Life; Ag=Agriculture; DW=Drinking Water; Rec=Primary Contact Recreation

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HUC: 10020006 Boulder Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mo	uth 4A	12.83	MILES	B-1	N	Х	F	F	Sedimentation/Siltation	Rangeland Grazing
		(Boulder River)										Silviculture Activities
Boulder - Elkhorn	MT41E002_110	McCARTY CREEK, headwaters to mou	ith 4A	6.44	MILES	B-1	N	Х	Χ	N	Alteration in stream-side or littoral	Dam or Impoundment
		(Boulder River)									vegetative covers Fish-Passage Barrier	Flow Alterations from Water Diversions
											Low flow alterations	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Sediment Resuspension (Clean Sediment)
											Sedimentation/Siltation	Source Unknown
Boulder - Elkhorn	MT41E002_130	NURSERY CREEK, headwaters (east	4A	1.4	MILES	B-1	N	Х	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Forest Roads (Road Construction and Use)
		branch) to mouth (Muskrat Creek)									Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	Watershed Runoff following Forest Fire
Boulder - Elkhorn	MT41E002_140	BIG LIMBER GULCH, headwaters to	4C	2.62	MILES	B-1	N	Х	F	Х	Alteration in stream-side or littoral	Channelization
		mouth (Cataract Creek-Boulder River)									vegetative covers Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
Boulder - Elkhorn	MT41E003_010	JACK CREEK, headwaters to mouth	4A	4.52	MILES	B-1	N	х	N	Х	Aluminum	Acid Mine Drainage
		(Basin Creek)									Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	
											Copper	
											Iron	
											Lead	
											Zinc	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Madison	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	5	41.31	MILES	B-1	N	X	N	Х	Alteration in stream-side or littoral vegetative covers Arsenic Sedimentation/Siltation	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Dam or Impoundment
											Temperature, water	Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Natural Sources
Madison	MT41F001_020	MADISON RIVER, Quake Lake to Ennis Lake	5	56.02	MILES	B-1	I	Х	N	F	Arsenic	Natural Sources
Madison	MT41F001_030	MADISON RIVER, Hebgen Dam to Qual Lake	ke 5	2.29	MILES	B-1	I	Х	N	F	Arsenic	Natural Sources
Madison	MT41F002_010	CHERRY CREEK, headwaters to mouth (Madison River)	5	24	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones
Madison	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	5	18.33	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral vegetative covers Arsenic	Agriculture Animal Feeding Operations (NPS)
											Iron	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Habitat Modification - other than Hydromodification
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	Loss of Riparian Habitat
											Selenium	Natural Sources
											Temperature, water	Non-irrigated Crop Production
											Turbidity	Streambank Modifications/destabilization
Madison	MT41F002_030	HOT SPRINGS CREEK, headwaters to	5	14	MILES	B-1	N	Х	F	N	Iron	Flow Alterations from Water Diversions
		mouth (Madison River)									Lead	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Madison	MT41F004_010	BLAINE SPRING CREEK, headwaters	to 5	4.95	MILES	B-1	N	Х	N	N	Arsenic	Aquaculture (Permitted)
		mouth (Madison River, T7S R1W S6)									Excess Algal Growth	Flow Alterations from Water Diversions
											Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Natural Sources
											Sedimentation/Siltation	Streambank Modifications/destabilization
Madison	MT41F004_020	O'DELL SPRING CREEK, headwaters	to 5	13.194	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral	Agriculture
		mouth (Madison River)									vegetative covers Arsenic	Channelization
											Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Other anthropogenic substrate alterations	Habitat Modification - other than Hydromodification
											Physical substrate habitat alterations	Irrigated Crop Production
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Madison	MT41F004_021	BEAR CREEK, headwaters to mouth (O'Dell Spring Creek)	5	27.3	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Madison	MT41F004_040	INDIAN CREEK, Lee Metcalf Wildernes	ss 4C	6.34	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral	Agriculture
		boundary to mouth (Madison River)									vegetative covers Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Unspecified Unpaved Road or Trail
Madison	MT41F004_050	JACK CREEK, headwaters to mouth (Madison River, T5S R1W S23)	4C	15.18	MILES	B-1	N	Х	Х	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(Madison River, 155 RTW 525)									Low flow alterations	Irrigated Crop Production
												Streambank Modifications/destabilization
Madison	MT41F004_060	NORTH MEADOW CREEK, headwater	s 5	18.53	MILES	B-1	N	Х	F	F	Low flow alterations	Channelization
		to mouth (Ennis Lake)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Irrigated Crop Production
												Rural (Residential Areas)
												Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Madison	MT41F004_070	SOUTH MEADOW CREEK, headwaters to mouth (Ennis Lake)	5 5	12.98	MILES	B-1	N	Х	F	N	Chlorophyll-a	Agriculture
		to mouth (Enris Lake)									Copper	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	
											Sedimentation/Siltation	
Madison	MT41F004_080	RUBY CREEK, headwaters to mouth (Madison River)	5	15.91	MILES	B-1	N	Х	Х	Х	Low flow alterations	Grazing in Riparian or Shoreline Zones
		(wadison inver)									Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Unspecified Unpaved Road or Trail
Madison	MT41F004_100	WEST FORK MADISON RIVER,	5	39.41	MILES	B-1	N	х	F	F	Low flow alterations	Agriculture
		headwaters to mouth (Madison River)									Temperature, water	Flow Alterations from Water Diversions
												Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004 130	MOORE CREEK, springs to mouth	5	15.83	MILES	B-1	N	х	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Fletcher Channel), T5S R1W S15									vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Escherichia coli	Irrigated Crop Production
											Nitrogen (Total)	Loss of Riparian Habitat
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Temperature, water	Rural (Residential Areas)
												Streambank Modifications/destabilization
												Transfer of Water from an Outside Watershed
Madison	MT41F004_140	ANTELOPE CREEK, headwaters to mouth (Cliff Lake)	5	9.48	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		modin (OIIII Lake)									Low flow alterations	Channelization
											Sedimentation/Siltation	Flow Alterations from Water Diversions
												Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW	lse Rec	Cause Name *	Source Name *
Madison	MT41F004_140	ANTELOPE CREEK, headwaters to mouth (Cliff Lake)	5	9.48	MILES	B-1	N	Х	Х	Х		Unspecified Unpaved Road or Trail
Madison	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison Rive	5 er	4.36	MILES	B-1	1	X	N	Х	Arsenic	Natural Sources
Madison	MT41F004_160	WIGWAM CREEK, headwaters to mouth (Madison River)	n 5	11.9	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Madison	MT41F005_030	ENNIS LAKE	5	3757.8	ACRES	B-1	N	Χ	N	Х	Arsenic	Habitat Modification - other than Hydromodification
											Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
											Other anthropogenic substrate alterations	Impacts from Hydrostructure Flow
											Physical substrate habitat alterations	Regulation/modification Natural Sources
Madison	MT41F006_020	RED CANYON CREEK, headwaters to	5	6.27	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Hebgen Lake)									vegetative covers Low flow alterations	Natural Sources
											Sedimentation/Siltation	Silviculture Activities
												Unspecified Unpaved Road or Trail
Madison	MT41F006_030	WATKINS CREEK, headwaters to mouth	h 5	7.08	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral	Agriculture
		(Hebgen Lake)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Loss of Riparian Habitat



HUC: 10020008 Gallatin Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Lower Gallatin	MT41H001_010	GALLATIN RIVER, Spanish Creek to mouth (Missouri River)	4C	48.12	MILES	B-1	N	F	F	N	Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	4A	29.55	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
		(Gallatiff Niver)									Escherichia coli	Animal Feeding Operations (NPS)
											Low flow alterations	Channelization
											Nitrogen (Total)	Crop Production (Crop Land or Dry Land)
											Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Irrigated Crop Production
											Physical substrate habitat alterations	Natural Sources
											Sedimentation/Siltation	Unrestricted Cattle Access
												Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H002_020	GODFREY CREEK, headwaters to mo	uth 4A	9	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		(Moreland Ditch), T1S R3E S12									vegetative covers Escherichia coli	Animal Feeding Operations (NPS)
											Excess Algal Growth	Crop Production (Crop Land or Dry Land)
											Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Livestock (Grazing or Feeding Operations)
											Sedimentation/Siltation	Rural (Residential Areas)
												Septage Disposal
Lower Gallatin	MT41H002_031	SOUTH COTTONWOOD CREEK, Mid Creek Assoc Ditch diversion to mouth (Gallatin River)	dle 4C	6.26	MILES	B-1	N	F	F	N	Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H003_010	EAST GALLATIN RIVER, confluence of		10.7	MILES	B-1	N	Х	Х	N	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
		Rocky and Bear Creeks to MT HWY No 411 (Spring Hill Rd)).								Phosphorus (Total)	Municipal (Urbanized High Density Area)
												Residential Districts
Lower Gallatin	MT41H003_020	EAST GALLATIN RIVER, MT HWY 41	1 to 4A	22.12	MILES	B-2	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
		Oman Orock									Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Livestock (Grazing or Feeding Operations)
											Phosphorus (Total)	Municipal Point Source Discharges



HUC: 10020008 Gallatin Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Catego	ory Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Lower Gallatin	MT41H003_020	EAST GALLATIN RIVER, MT HWY 411	1 to 4A	22.12	MILES	B-2	N	Х	Х	N	рН	Residential Districts
		Smith Creek										Yard Maintenance
Lower Gallatin	MT41H003_021	MANDEVILLE CREEK, headwaters to	4A	5.62	MILES	B-1	N	Х	Х	N	Nitrogen (Total)	Municipal (Urbanized High Density Area)
		mouth (East Gallatin River)									Phosphorus (Total)	Municipal Point Source Discharges
												Residential Districts
Lower Gallatin	MT41H003_030	EAST GALLATIN RIVER, Smith Creek	to 4A	13.54	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Gallatin River)									vegetative covers Nitrogen (Total)	Municipal Point Source Discharges
											Phosphorus (Total)	
											рН	
Lower Gallatin	MT41H003_040	SOURDOUGH CREEK, confluence of	4A	4.88	MILES	B-1	N	X	Х	N	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6									vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
		S6									Escherichia coli	Irrigated Crop Production
											Nitrogen (Total)	Livestock (Grazing or Feeding Operations)
											Sedimentation/Siltation	Loss of Riparian Habitat
												Municipal (Urbanized High Density Area)
												Natural Sources
												Residential Districts
												Septage Disposal
												Unspecified Unpaved Road or Trail
												Urban Runoff/Storm Sewers
												Wastes from Pets
Lower Gallatin	MT41H003_050	JACKSON CREEK, headwaters to mou	uth 4A	8.55	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
		(NOCKY CIEEK)									Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Silviculture Activities
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_060	SMITH CREEK, confluence of Ross and	d 4A	6.76	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		Reese Creeks to mouth (East Gallatin River)									vegetative covers Escherichia coli	Livestock (Grazing or Feeding Operations)

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

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HUC: 10020008 Gallatin Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Lower Gallatin	MT41H003_060	SMITH CREEK, confluence of Ross and	i 4A	6.76	MILES	B-1	N	Х	X	N	Nitrates	Loss of Riparian Habitat
		Reese Creeks to mouth (East Gallatin River)									Nitrogen (Total)	Managed Pasture Grazing
											Physical substrate habitat alterations	Rural (Residential Areas)
											Sedimentation/Siltation	Septage Disposal
												Wastes from Pets
												Wildlife Other than Waterfowl
Lower Gallatin	MT41H003_070	REESE CREEK, headwaters to mouth	4A	8.28	MILES	B-1	N	Х	Х	N	Escherichia coli	Agriculture
		(Smith Creek)									Nitrates	Crop Production (Crop Land or Dry Land)
											Nitrogen (Total)	
											Solids (Suspended/Bedload)	
Lower Gallatin	MT41H003_080	ROCKY CREEK, confluence of Jackson	4A	7.94	MILES	B-1	N	Х	Х	X	Alteration in stream-side or littoral	Agriculture
		and Timberline Creeks to mouth (East Gallatin River)									vegetative covers Other anthropogenic substrate alterations	Channelization
											Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	Loss of Riparian Habitat
												Residential Districts
Lower Gallatin	MT41H003_081	BEAR CREEK, headwaters to mouth	4A	10.15	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		(Rocky Creek)									vegetative covers Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Silviculture Harvesting
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
											Solids (Suspended/Bedload)	
Lower Gallatin	MT41H003_090	THOMPSON CREEK (Thompson Spring		7.42	MILES	B-1	N	х	х	N	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		headwaters to mouth (East Gallatin Rive	er)								vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Loss of Riparian Habitat
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_100	DRY CREEK, headwaters to mouth (Ea	st 4A	20.09	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		Gallatin River)								vegetative covers Cause Unknown Channelization	Channelization	
												Crop Production (Crop Land or Dry Land)

AqL=Aquatic Life; Ag=Agriculture; DW=Drinking Water; Rec=Primary Contact Recreation

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HUC: 10020008 Gallatin Watershed: Missouri Headwaters

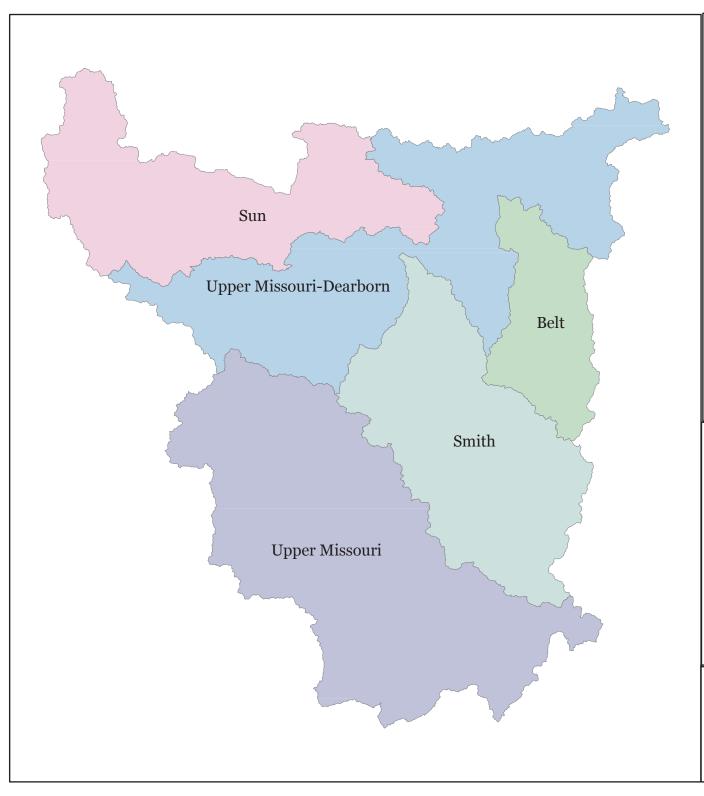
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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Lower Gallatin	MT41H003_100	DRY CREEK, headwaters to mouth (Ea	ast 4A	20.09	MILES	B-1	N	х	Х	N	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
		Gallatin River)									Phosphorus (Total)	Source Unknown
											Physical substrate habitat alterations	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	
Lower Gallatin	MT41H003_110	BRIDGER CREEK, headwaters to mou	th 4A	21.46	MILES	B-1	N	х	Х	N	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
		(East Gallatin River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Impacts from Resort Areas (Winter and Non-winter Resorts) Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_120	STONE CREEK, headwaters to mouth	4A	6.06	MILES	B-1	N	Х	x	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Bridger Creek)									vegetative covers Sedimentation/Siltation	Residential Districts
												Silviculture Harvesting
												Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_132	HYALITE CREEK, Bozeman water sup		20.99	MILES	B-1	N	х	Х	N	Low flow alterations	Irrigated Crop Production
		intake to the mouth (East Gallatin River	·)								Nitrogen (Total)	Leaking Underground Storage Tanks
												Managed Pasture Grazing
												Natural Sources
Upper Gallatin	MT41H005_010	STORM CASTLE CREEK, headwaters		14.19	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		the mouth (Gallatin River), T4S R4E S3	33								vegetative covers Phosphorus (Total)	Natural Sources
											Physical substrate habitat alterations	Silviculture Activities
Upper Gallatin	MT41H005_020	TAYLOR FORK, Lee Metcalf Wildernes	ss 5	13.98	MILES	B-1	N	х	х	F	Physical substrate habitat alterations	Silviculture Activities
		boundary to mouth (Gallatin River)									Sedimentation/Siltation	Site Clearance (Land Development or
											Solids (Suspended/Bedload)	Redevelopment)
Upper Gallatin	MT41H005_030	CACHE CREEK, headwaters to mouth	5	4.66	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral	Agriculture
		(Taylor Fork)									vegetative covers Physical substrate habitat alterations	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Silviculture Activities
											Solids (Suspended/Bedload)	
Upper Gallatin	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to	5	3.87	MILES	B-1	N	F	F	N	Chlorophyll-a	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)

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HUC: 10020008 Gallatin Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Upper Gallatin	MT41H005_040	WEST FORK GALLATIN RIVER,	5	3.87	MILES	B-1	N	F	F	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities
		confluence Middle and North Forks to mouth (Gallatin River)									Nitrogen (Total)	Site Clearance (Land Development or
											Phosphorus (Total)	Redevelopment)
											Sedimentation/Siltation	
Upper Gallatin	MT41H005_050	MIDDLE FORK WEST FORK GALLATI		6.23	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		RIVER, headwaters to mouth (West For Gallatin River)	К								vegetative covers Escherichia coli	Highway/Road/Bridge Runoff (Non-construction Related)
											Fecal Coliform	Highways, Roads, Bridges, Infrastructure (New Construction)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	On-site Treatment Systems (Septic Systems and
											Solids (Suspended/Bedload)	Similar Decentralized Systems) Unspecified Urban Stormwater
												Wastes from Pets
												Waterfowl
Upper Gallatin	MT41H005_060	SOUTH FORK WEST FORK GALLATIN		14.57	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		Gallatin River)	K								Chlorophyll-a	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities
											Phosphorus (Total)	Site Clearance (Land Development or
											Physical substrate habitat alterations	Redevelopment)
											Sedimentation/Siltation	



Upper Missouri Sub-Major Basin

Upper Missouri River Basin

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



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HUC: 10030101 Upper Missouri Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U		Cause Name *	Source Name *
Missouri River	MT41I001_011	MISSOURI RIVER, headwaters to Tosi	ton 5	21.95	MILES	B-1	N	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
		Dam									Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Municipal Point Source Discharges
											Sedimentation/Siltation	Natural Sources
												Non-irrigated Crop Production
Missouri River	MT41I001_012	MISSOURI RIVER, Toston Dam to	5	22.6	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers	Agriculture
		Canyon Ferry Reservoir									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Irrigated Crop Production
											Lead	
											Low flow alterations	
											Sedimentation/Siltation	
Canyon Ferry	MT41I002_010	AVALANCHE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	4C	16.71	MILES	B-1	Х	х	Х	N	Low flow alterations	Agriculture
		mount (Canyon Ferry Reservoir)										Irrigated Crop Production
Canyon Ferry	MT41I002_020	BATTLE CREEK, headwaters to mouth	n 5	22.76	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Sixteenmile Creek)									vegetative covers Low flow alterations	Irrigated Crop Production
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Temperature, water	
Canyon Ferry	MT41I002_030	BEAVER CREEK, headwaters to mout	h 5	14.74	MILES	B-1	N	F	N	N	Cadmium	Agriculture
		(Canyon Ferry Reservoir)									Chromium (total)	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Irrigated Crop Production
											Low flow alterations	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Phosphorus (Total)	
											Silver	
											Zinc	
Canyon Ferry	MT41l002_041	CONFEDERATE GULCH, headwaters Hunter Gulch	to 5	10.04	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral vegetative covers	Agriculture

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Canyon Ferry	MT41I002_041	CONFEDERATE GULCH, headwaters	to 5	10.04	MILES	B-1	N	F	Х	N	Cadmium	Channelization
		Hunter Gulch									Nitrate/Nitrite (Nitrite + Nitrate as N)	Dredge Mining
											Other flow regime alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
												Placer Mining
Canyon Ferry	MT41I002_042	CONFEDERATE GULCH, Hunter Gulc	h 5	5.21	MILES	B-1	N	Х	Х	N	Low flow alterations	Agriculture
		to mouth (Canyon Ferry Reservoir)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Dredge Mining
											Phosphorus (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Irrigated Crop Production
Canyon Ferry	MT41I002_050	CROW CREEK, National Forest bound	lary 5	15.89	MILES	B-1	N	N	F	N	Alteration in stream-side or littoral	Agriculture
		to mouth (Missouri River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Habitat Modification - other than Hydromodification
											Phosphorus (Total)	Irrigated Crop Production
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Canyon Ferry	MT41I002_060	CROW CREEK, Crow Creek Falls to National Forest boundary	5	10.15	MILES	B-1	N	F	F	F	Copper	Channelization
		National Forest boundary									Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Placer Mining
Deep Creek	MT41I002_070	DEEP CREEK, National Forest boundar to mouth (Missouri River)	ary 5	20.35	MILES	B-1	N	Х	Х	1	Low flow alterations	Channelization
		to mouth (Missouth River)									Temperature, water	Flow Alterations from Water Diversions
												Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth	5	21.56	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		(Missouri River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth	5	21.56	MILES	B-1	N	F	F	N	Phosphorus (Total)	Irrigated Crop Production
		(Missouri River)									Sedimentation/Siltation	
											Temperature, water	
Canyon Ferry	MT41I002_090	HELLGATE GULCH, headwaters to	5	11.6	MILES	B-1	N	F	N	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Canyon Ferry Reservoir)									vegetative covers Mercury	Grazing in Riparian or Shoreline Zones
											Other anthropogenic substrate alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (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 mouth	5	8.01	MILES	B-1	Х	N	N	Χ	Arsenic	Acid Mine Drainage
		(Missouri River)									Cadmium	Dredge Mining
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Mercury	Mine Tailings
Canyon Ferry	MT41I002_110	MAGPIE CREEK, headwaters to mout	h 5	12.76	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		(Canyon Ferry Reservoir)									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Canyon Ferry	MT41I002_120	SIXTEENMILE CREEK, Lost Creek to	5	49.61	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Channelization
		mouth (Missouri River)									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Sedimentation/Siltation	
Canyon Ferry	MT41I002_130	WHITE GULCH, headwaters to mouth	5	13.26	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Canyon Ferry Reservoir)									vegetative covers Low flow alterations	Irrigated Crop Production
											Sedimentation/Siltation	Placer Mining

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Canyon Ferry	MT41I002_140	WILSON CREEK, 3.3 miles upstream to mouth (Crow Creek)	5	3.3	MILES	B-1	Х	Х	N	Х	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	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Channelization Placer Mining
											Phosphorus (Total)	Source Unknown
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Canyon Ferry	MT41I002_170	EAST FORK INDIAN CREEK, headwate to mouth (Indian Creek)	rs 5	5.87	MILES	B-1	Х	Х	N	Х	Arsenic	Acid Mine Drainage
		to mouth (maian creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Mercury	
Missouri River	MT41I003_010	CANYON FERRY RESERVOIR	5	32810	ACRES	B-1	F	N	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 Decentralized Systems) Site Clearance (Land Development or Redevelopment)
Missouri River	MT41I004_030	MISSOURI RIVER, Holter Dam to Little	5	2.84	MILES	B-1	N	F	F	F	Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
		Prickly Pear Creek									Other flow regime alterations	Municipal Point Source Discharges
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Upstream Impoundments (e.g., PI-566 NRCS Structures)
Holter	MT41I005_011	BEAVER CREEK, headwaters to	5	13.8	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		confluence of Bridge Creek									vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Highway/Road/Bridge Runoff (Non-construction Related) Livestock (Grazing or Feeding Operations)

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olter anyon Ferry	MT41I005_012					Class	Aql	. Ag	DW	Rec	Cause Name *	Source Name *
anyon Ferry		BEAVER CREEK, Nelson to mouth (Missouri River below Hauser Dam)	5	5.51	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
	MT411005_020	TROUT CREEK, headwaters to mouth (Hauser Lake)	5	20.52	MILES	B-1	N	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
olter	MT41I005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	n 5	8.25	MILES	B-1	N	F	F	F	Lead	Impacts from Abandoned Mine Lands (Inactive)
olter	MT41I005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	5	23.9	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Agriculture Flow Alterations from Water Diversions
											Physical substrate habitat alterations	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
											Temperature, water	Loss of Riparian Habitat
												Silviculture Activities
olter	MT41I005_052	LITTLE PRICKLY PEAR CREEK, Clark Creek to mouth (Missouri River)	5	10.23	MILES	B-1	N	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, Infrastructure (New Construction) Loss of Riparian Habitat
olter	MT41I005_080	WOODSIDING GULCH, headwaters to mouth (Little Prickly Pear Creek), T13N R4W S33	5	2.19	MILES	B-1	N	F	F	N	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related)
ake Helena	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTI Discharge Ditch to Lake Helena	P 5	4.15	MILES	1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized)	Acid Mine Drainage Agriculture
											Arsenic	Contaminated Sediments
											Cadmium	Flow Alterations from Water Diversions
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Industrial Point Source Discharge
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal Point Source Discharges

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be Aq	enefi L Ag	cial (DW	Jse Rec	Cause Name *	Source Name *
Lake Helena	MT41I006_020	PRICKLY PEAR CREEK, Helena WWT Discharge Ditch to Lake Helena	P 5	4.15	MILES	I	N	F	N	N	Nitrogen (Total)	
		biodiaige bion to cake Holona									Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Temperature, water	
											Zinc	
Lake Helena	MT41I006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP	5	6.54	MILES	1	N	N	N	N	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		Discharge									Ammonia (Un-ionized)	Contaminated Sediments
											Arsenic	Grazing in Riparian or Shoreline Zones
											Cadmium	Habitat Modification - other than Hydromodification
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Industrial Point Source Discharge
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Temperature, water	
											Zinc	
Lake Helena	MT41I006_040	PRICKLY PEAR CREEK, Lump Gulch	to 4A	10.84	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		County Road Wylie Drive									vegetative covers Arsenic	Channelization
											Cadmium	Contaminated Sediments
											Copper	Flow Alterations from Water Diversions
											Lead	Highways, Roads, Bridges, Infrastructure (New
											Physical substrate habitat alterations	Construction) Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Industrial Point Source Discharge
											Temperature, water	Loss of Riparian Habitat
											Zinc	

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* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



Lump Gulch Lump Gulch Lead Mine Tailings Lead Mine Tailings Physical substrate habitat alterations Sedimentation/Sititation Zinc Zinc Pinyaical Substrate habitat alterations Sedimentation/Sititation Zinc Pinyaical substrate habitat alterations Sedimentation/Sititation Zinc Pinyaical substrate habitat alterations Acid Mine Drainage vegetative covers Lead Constitution) Physical substrate habitat alterations Constitution) Constitution Constitution Constitution Acid Mine Drainage vegetative covers Lead Acid Mine Drainage Acid Mine Drainage vegetative covers Lead Acid Mine Drainage vegetative covers Lead Acid Mine Drainage Acid Mine Drainage vegetative covers Lead Acid Mine Drainage Acid Mine Drainage vegetative covers Lead Acid Mine Drainage Aci	TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Acid Mine Tailings Ame Helena MT41006.060 PRICKLY PEAR CREEK, headwriters to Sorting Creek Sorting Creek Acid Mine Dealings Acid Mine Dealings Sorting Creek Acid Mine Dealings Acid Mine Dealings Acid Mine Dealings Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts man Abandoned Mine Lands (Inactive Lead Mine Tailings Subsurface (Inactive Acid Mine Dealinage Acid Mine Tailings Load Corpora Contaminated Soldien (Tabl) Mine Tailings Impacts from Abandoned Mine Lands (Inactive Lead Load Grazing in Ripartan or Shorolina Zones Impacts from Abandoned Mine Lands (Inactive Load Corpora Contaminated Soldien (Tabl) Physical substrates believe the biotat alterations Total Suppended Solds (TSS) Total Suppended Solds (TSS) Total Suppended Solds (TSS) Total Suppended Solds (TSS) Total Suppended Solds (TSS) Total Supp	Lake Helena	MT41I006_050		c to 4A	7.05	MILES	B-1	N	Х	N	Х		Acid Mine Drainage
Physical substrate habitat alterations Placer Mining Sedimentation Strambank Modifications/destabilization Zino PRICKLY PEAR CREEK, headwaters to Spring Creek PRICKLY PEAR CREEK, headwaters to Make Helena Proper description in stream-side or listoral vegetable covers Lead Proper description in Stream-side or listoral vegetable covers Apriculture Add Mine Tailings Subsurface (Heardood) Mining Alteration in stream-side or listoral vegetable covers Apriculture Add Mine Tailings Proper Contaminated Sediments Copper Contaminated Sediments Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Proper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Proper Contaminated Sediments Proper Contaminated Sed			Lump Guich									•	Impacts from Abandoned Mine Lands (Inactive)
Sedimentation/Silitation Sireambank Modifications/destabilization Zinc MT41100E_080 PRICKLY PEAR CREEK, headwaters to Spring Cleek PRICKLY PEAR CREEK, headwaters to Spring Cleek MILES B-1 N X N N X Alteration in stream-aide or littoral vegetative covers Lead Construction) Physical substants habitat alterations Total Suspended Solids (TSS) Loss of Riparian Habitat Placer Mining Streambank Modifications/destabilization Linspectified Unpawed Road or Trail Impacts from Abandoned Mine Lands (Inactive Lead Mine Tailings Subsurface (Hardrock) Mining Add Mine Drainage Placer Mining Streambank Modifications/destabilization Linspectified Unpawed Road or Trail Impacts from Abandoned Mine Lands (Inactive Lead Mine Tailings Subsurface (Hardrock) Mining Add Mine Drainage April 1008_080 SPRING CREEK, Corbin Creek to mouth 4A 1.74 MILES B-1 N X N N X N X Alteration in stream-aide or littoral vegetative covers Alteration in stream-aide or littoral vegetative covers Add Mine Tailings Subsurface (Hardrock) Mining Add Mine Drainage Agriculture Chammies Capper Contaminated Solidine Trail Impacts from Abandoned Mine Lands (Inactive Abandoned Mine												Lead	Mine Tailings
Acid Mine Drainage PRICKLY PEAR CREEK, headwaters to Spring Creek Physical substrate habitat alteration in stream-side or illitoral vegetative overs Agriculture Lead Mine Tailings Subsurface (Hardrock) Mining Acid Mine Drainage Prickly Pear Creek) Prickly Pear Creek to mouth (Prickly Pear Creek) Prickly Pear Creek) Prickly Pear Creek to mouth (Prickly Pear Creek) Prickle Prickly Pear Creek Prickly Pear Creek to mouth (Prickly Pear Creek) Prickle Prickly Pear Creek Prickle Prickly Pear Creek Prickle Prickle Prickly Pear Creek Prickle Prickle Prickle P												Physical substrate habitat alterations	Placer Mining
PRICKLY PEAR CREEK, headwaters to 4A 8.94 MILES B-1 N X N X Alteration in stream-side or littoral vegetative covers Lead Spring Creek Highways, Roads, Bridges, Infrastructure (Ner Construction) Impacts from Abandoned Mine Lands (fractive Properties) Imp												Sedimentation/Siltation	Streambank Modifications/destabilization
Spring Creek Sp												Zinc	
Construction) Highest from Abandoned Mine Lands (Inactive Physical substrate habitat alterations Total Suspended Solids (TSS) Loss of Riparian Habitat Placer Mining Streambank Modifications/destabilization Unspecified Unpaved Road or Trail Lead MIT411006_080 SPRING CREEK, headwaters to mouth (Prickly Pear Creek), TTN R3W S8 Alleration in stream-side or littoral vegetative covers Agriculture (Prickly Pear Creek) (Prickly Pear Creek) (Prickly Pear Creek) Agriculture Cadmium Channelization Copper Cadmium Channelization Copper Contaminated Sediments Lead Mine Tailings Subsurface (Hardrock) Mining Acid Mine Drainage vegetative covers Agriculture Cadmium Channelization Copper Contaminated Sediments Lead Mine Tailings Willes B-1 N X N X N X N X N X N X N X N X N X N	Lake Helena	MT41I006_060		to 4A	8.84	MILES	B-1	N	Х	N	Х	vegetative covers	· ·
Acke Helena MT411006_070 GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8 Appeared Miles B-1 N X N X N X Cadmium Impacts from Abandoned Mine Lands (Inactive Miner Tailings Subsurface (Prickly Pear Creek) Miner Creek to mouth (Prickly Pear Creek) T7N R3W S8 Appeared Miles B-1 N X N X N X N X Appeared Miner Lands (Inactive Miner Tailings Subsurface (Prickly Pear Creek) Miner Creek to mouth A N 1.74 MILES B-1 N X N X N X N X Appeared Miner Lands (Inactive New Miner Tailings Subsurface (Prickly Pear Creek) Miner Creek Now Miner Copper Contaminated Sediments (Low flow alterations Nitrogen (Total) Miner Tailings (Inactive Nitrogen (Total) (Inactive Nitrogen (Tot													Construction)
Placer Mining Streambank Modifications/destabilization Unspecified Unpaved Road or Trail Placer Mining Streambank Modifications/destabilization Unspecified Unpaved Road or Trail Unspecified Unpaved Road or Trail Placer Mining Streambank Modifications/destabilization Unspecified Unpaved Road or Trail Placer Mining Streambank Modifications/destabilization Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)													
Streambank Modifications/destabilization Unspecified Unpaved Road or Trail ake Helena MT41I006_070 GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8 ABABEL AND A SPRING CREEK, Corbin Creek to mouth MT41I006_080 SPRING CREEK, Corbin Creek to mouth ABABEL AND A SPRING CREEK, Corbin Creek, TYN R3W S8 Subsurface (Padrock) Mining Acid Mine Tailings Acid Mine Tailings Acid Mine Drainage Acid Mine D													
ake Helena MT411006_070 GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8 4 2.92 MILES B-1 N X N X Cadmium Impacts from Abandoned Mine Lands (Inactive Mine Tailings Subsurface (Hardrock) Mining Subsurface (Hardrock) Mining Subsurface (Prickly Pear Creek) ARE Helena MT411006_080 SPRING CREEK, Corbin Creek to mouth 4A 1.74 MILES B-1 N X N X N X Alteration in stream-side or littoral vegetative covers Arenic Cadmium Channelization Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)													
mouth (Prickly Pear Creek), T7N R3W S8 Lead Mine Tailings Subsurface (Hardrock) Mining Acid Mine Tailings Subsurface (Hardrock) Mining Acid Mine Drainage Vegetative covers Arsenic Cadmium Channelization Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations Nitrogen (Total) Mine Tailings Phosphorus (Total) Physical substrate habitat alterations Total Suspended Solids (TSS)													Unspecified Unpaved Road or Trail
Lead Mine Tailings Subsurface (Hardrock) Mining Acid Mine Drainage Refelena MT411006_080 SPRING CREEK, Corbin Creek to mouth 4A 1.74 MILES B-1 N X N X Alteration in stream-side or littoral vegetative covers Arsenic Agriculture Cadmium Channelization Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total)) Mine Tailings Phosphorus (Total) Physical substrate habitat alterations Total Suspended Solids (TSS)	Lake Helena	MT41I006_070			2.92	MILES	B-1	N	Х	N	Х	Cadmium	Impacts from Abandoned Mine Lands (Inactive)
Acid Mine Drainage vegetative covers Arsenic Acid Mine Drainage vegetative covers Arsenic Agriculture Cadmium Contaminated Sediments Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations Nitrogen (Total) Mine Tailings Physical substrate habitat alterations Total Suspended Solids (TSS)			mouth (Prickly Pear Creek), 17N R3W	S8								Lead	Mine Tailings
(Prickly Pear Creek) vegetative covers Arsenic Agriculture Cadmium Channelization Copper Contaminated Sediments Lead Grazing in Ripartan or Shoreline Zones Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)													Subsurface (Hardrock) Mining
Arsenic Agriculture Cadmium Channelization Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)	Lake Helena	MT41I006_080		ıth 4A	1.74	MILES	B-1	N	Х	N	Х		Acid Mine Drainage
Copper Contaminated Sediments Lead Grazing in Riparian or Shoreline Zones Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)			(Prickly Pear Creek)									=	Agriculture
Lead Grazing in Riparian or Shoreline Zones Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)												Cadmium	Channelization
Low flow alterations Impacts from Abandoned Mine Lands (Inactive Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)												Copper	Contaminated Sediments
Nitrogen (Total) Mine Tailings Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)												Lead	Grazing in Riparian or Shoreline Zones
Phosphorus (Total) Unspecified Unpaved Road or Trail Physical substrate habitat alterations Total Suspended Solids (TSS)												Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
Physical substrate habitat alterations Total Suspended Solids (TSS)												Nitrogen (Total)	Mine Tailings
Total Suspended Solids (TSS)												Phosphorus (Total)	Unspecified Unpaved Road or Trail
												Physical substrate habitat alterations	
Zinc												Total Suspended Solids (TSS)	
												Zinc	

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
_ake Helena	MT41I006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	Х	N	X	Alteration in stream-side or littoral vegetative covers	Agriculture
		(ep.ing ereell)									Arsenic	Dam or Impoundment
											Cadmium	Mill Tailings
											Copper	Mine Tailings
											Iron	
											Lead	
											Silver	
											Solids (Suspended/Bedload)	
											Temperature, water	
											Zinc	
											рН	
_ake Helena	MT41I006_100	MIDDLE FORK WARM SPRINGS	4A	2.82	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Impacts from Abandoned Mine Lands (Inactive)
	W1411000_100	CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)									vegetative covers Arsenic	Mine Tailings
											Cadmium	Unspecified Unpaved Road or Trail
											Lead	
											Sedimentation/Siltation	
											Zinc	
_ake Helena	MT41I006_110	WARM SPRINGS CREEK, the Middle	4A	4.17	MILES	B-1	N	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
		Fork to mouth (Prickly Pear Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Mine Tailings
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
											Zinc	
_ake Helena	MT41I006_120	CLANCY CREEK, headwaters to mouth	n 4A	12.82	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		(Prickly Pear Creek)									vegetative covers Arsenic	Animal Feeding Operations (NPS)
											Cadmium	Contaminated Sediments
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)

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HUC: 10030101 Upper Missouri Watershed: Upper Missouri

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			DW		Cause Name *	Source Name *
Lake Helena	MT41I006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	4A	12.82	MILES	B-1	N	Х	N	X	Other anthropogenic substrate alterations Sedimentation/Siltation Zinc	Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	4A	14.68	MILES	B-1	N	X	N	X	Cadmium Copper Lead Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Natural Sources Silviculture Harvesting Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	5	6.72	MILES	A-1	N	X	N	X	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Sedimentation/Siltation Zinc	Acid Mine Drainage Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41I006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.57 Long -112.214	4A 73	7.32	MILES	A-1	N	N	N	N	Arsenic Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	4A	16.38	MILES	B-1	N	X	N	×	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead	Acid Mine Drainage Agriculture Channelization Habitat Modification - other than Hydromodification Highways, Roads, Bridges, Infrastructure (New Construction)

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HUC: 10030101 Upper Missouri Watershed: Upper Missouri

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water	4A	16.38	MILES	B-1	N	Х	N	Х	Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
		Treatment Plant to mouth (Prickly Pear Creek)									Nitrogen (Total)	Impacts from Hydrostructure Flow
											Nutrient/Eutrophication Biological	Regulation/modification Irrigated Crop Production
											Indicators Phosphorus (Total)	Site Clearance (Land Development or
											Sedimentation/Siltation	Redevelopment)
											Zinc	
Lake Helena	MT41I006_150	SILVER CREEK, headwaters to T11N	5	22.1	MILES	B-1	N	х	N	Х	Arsenic	Agriculture
		R4W S30 / S31 to Lake Helena									DDE	Dredge Mining
											Low flow alterations	Irrigated Crop Production
											Mercury	Mill Tailings
											Other anthropogenic substrate alterations	Subsurface (Hardrock) Mining
Lake Helena	MT41I006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	4A	8.45	MILES	B-1	N	х	N	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		mount (Tennille Creek)									Arsenic	Channelization
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Streambank Modifications/destabilization
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Lake Helena	MT41I006_180	NORTH FORK WARM SPRINGS	5	2.7	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		CREEK, headwaters to mouth (Warmsprings Creek)									vegetative covers Arsenic	Natural Sources
											Cadmium	
											Organic Enrichment (Sewage) Biological Indicators Other anthropogenic substrate alterations	
											Sedimentation/Siltation	
											Zinc	
Lake Helena	MT41I006_190	JACKSON CREEK, headwaters to mou (McClellan Creek-Prickly Pear Creek)	ith 4A	2.32	MILES	B-1	N	Х	х	x	Zinc	Impacts from Abandoned Mine Lands (Inactive)

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HUC: 10030101 Upper Missouri Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lake Helena	MT41I006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	5	1.36	MILES	B-1	N	F	N	F	Lead	Forest Roads (Road Construction and Use)
		(Sliver Creek)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	Source Unknown
												Subsurface (Hardrock) Mining
Lake Helena	MT41I006_220	SKELLY GULCH, headwaters to mouth (Greenhorn Creek/Sevenmile Creek), T10N R5W S2	ı 4A	7.81	MILES	B-1	N	х	I	Х	Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_230	GRANITE CREEK, headwaters to mou	th 4A	2.49	MILES	B-1	Х	Х	N	Х	Arsenic	Acid Mine Drainage
		(Sevenmile Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
Lake Helena	MT41I007_010	LAKE HELENA	4A	2078.9	ACRES	B-1	N	F	N	Х	Arsenic	Acid Mine Drainage
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen (Total)	Impacts from Hydrostructure Flow
											Phosphorus (Total)	Regulation/modification Irrigated Crop Production
												Municipal Point Source Discharges
												Natural Sources
												Rangeland Grazing
Missouri River	MT41I007_020	HOLTER LAKE	5	4358	ACRES	B-1	F	Х	х	N	Mercury	Atmospheric Deposition - 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	3190	ACRES	B-1	N	Х	N	F	Arsenic	Acid Mine Drainage
											DDT	Agriculture
											Endosulfan sulfate	Atmospheric Deposition - Toxics
											Endrin aldehyde	Contaminated Sediments
											Mercury	Dam Construction (Other than Upstream Flood Control Projects)

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic			Cause Name *	Source Name *
Missouri River	MT41I007_040	HAUSER LAKE	5	3190	ACRES	B-1	N	х	N	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											Oxygen, Dissolved	Highway/Road/Bridge Runoff (Non-construction
											Phosphorus (Total)	Related) Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Mine Tailings
												Municipal Point Source Discharges
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Silviculture Activities
												Source Unknown



HUC: 10030102 Upper Missouri-Dearborn **Watershed:** Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Missouri River	MT41Q001_011	MISSOURI RIVER, Sun River to Rainb	ow 5	6.99	MILES	B-2	N	F	N	F	Chromium (total)	Contaminated Sediments
		Daill									Mercury	Dam Construction (Other than Upstream Flood Control Projects)
											Physical substrate habitat alterations	Industrial Point Source Discharge
											Polychlorinated biphenyls	Industrial/Commercial Site Stormwater Discharge
											Sedimentation/Siltation	(Permittled) Irrigated Crop Production
											Selenium	
											Solids (Suspended/Bedload)	
											Turbidity	
Missouri River	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to	5	9.12	MILES	B-3	N	F	N	F	Arsenic	Contaminated Sediments
		Morony Dam									Copper	Dam or Impoundment
											Polychlorinated biphenyls	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Industrial Point Source Discharge
											Temperature, water	Natural Sources
											Turbidity	Post-development Erosion and Sedimentation
Missouri River	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	5	54.62	MILES	B-3	N	F	N	N	Aluminum	Agriculture
		Ivialias Rivei									Arsenic	Dam or Impoundment
											Cadmium	Industrial Point Source Discharge
											Chlorophyll-a	Streambank Modifications/destabilization
											Copper	
											Iron	
											Lead	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Zinc	
Missouri River	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear	5	20.93	MILES	B-1	N	F	N	F	Arsenic	Grazing in Riparian or Shoreline Zones
		Creek to Sheep Creek									Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
											Other flow regime alterations	regulation/mounication

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

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TMDL Planning Area	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri River M	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	5	20.93	MILES	B-1	N	F	N	F	Sedimentation/Siltation	Irrigated Crop Production
	Creek to Sheep Creek										Natural Sources
Missouri River M [*]	MISSOURI RIVER, Sheep Creek to Sun River	5	65.3	MILES	B-1	N	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/destabilization
Benton Lake M	 LAKE CREEK, headwaters to mouth	5	19.03	MILES	B-3	N	N	N	N	Cadmium	Agriculture
	(Benton Lake)									Other flow regime alterations	Impacts from Hydrostructure Flow
										Salinity	Regulation/modification Irrigated Crop Production
										Sedimentation/Siltation	
										Selenium	
										Zinc	
Missouri Cascade M	COTTONWOOD CREEK, 1 mile above	5	4.32	MILES	B-1	N	Х	N	Х	Aluminum	Acid Mine Drainage
	Stockett to mouth (Sand Coulee Creek- Missouri River)									Arsenic	Subsurface (Hardrock) Mining
										Cadmium	
										Copper	
										Iron	
										Lead	
										Nickel	
										Zinc	
Missouri Cascade M ⁻	NUMBER FIVE COULEE, headwaters to	5	13.68	MILES	B-1	N	Х	N	Х	Aluminum	Acid Mine Drainage
	mouth (Cottonwood Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
										Iron	Subsurface (Hardrock) Mining
										Lead	
										Nickel	



HUC: 10030102 Upper Missouri-Dearborn **Watershed:** Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri Cascade	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	5	13.68	MILES	B-1	N	х	N	Х	Zinc	
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missour		18.63	MILES	B-1	N	N	N	Х	Lead	Agriculture
		River)									Salinity	Impacts from Abandoned Mine Lands (Inactive)
											Zinc	Subsurface (Hardrock) Mining
Missouri Choteau	MT41Q002_050	BOX ELDER CREEK, Spring Creek to	5	17.47	MILES	B-3	N	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
		mouth (Missouri River)									Sedimentation/Siltation	
Missouri Cascade	MT41Q002_060	SAND COULEE, headwaters to mouth	4A	5.94	MILES	B-1	N	N	N	Х	Aluminum	Acid Mine Drainage
		(Sand Coulee Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Subsurface (Hardrock) Mining
											Iron	
											Nickel	
											Salinity	
											Zinc	
Dearborn	MT41Q003_010	DEARBORN RIVER, Falls Creek to mout (Missouri River)	h 5	48.26	MILES	B-1	N	F	F	N	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	N	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		neadwaters to modif (Dearboth Niver)										Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_030	SOUTH FORK DEARBORN RIVER,	4A	16.14	MILES	B-1	N	F	Х	F	Low flow alterations	Flow Alterations from Water Diversions
		headwaters to mouth (Dearborn River)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_040	FLAT CREEK, Henry Creek to mouth	4A	15.92	MILES	B-1	N	F	Х	F	High Flow Regime	Flow Alterations from Water Diversions
		(Dearborn River)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Habitat Modification - other than Hydromodification
Benton Lake	MT41Q005_020	BENTON LAKE	5	5345.1	ACRES	B-3	N	N	N	N	Excess Algal Growth	Agriculture
											Nitrogen (Total)	Irrigated Crop Production
											Salinity	
											Selenium	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*}The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	ial L DW	Jse Rec	Cause Name *	Source Name *
Benton Lake	MT41Q005_020	BENTON LAKE	5	5345.1	ACRES	B-3	N	N	N	N	Sulfates	



HUC: 10030103 Smith Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Smith	MT41J001_010	SMITH RIVER, North and South Forks to	o 5	98.1	MILES	B-1	N	F	F	N	Escherichia coli	Agriculture
		Hound Creek									Low flow alterations	Irrigated Crop Production
											Phosphorus (Total)	Rangeland Grazing
Smith	MT41J001_020	SMITH RIVER, Hound Creek to mouth	5	24.14	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Missouri River)									vegetative covers 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	5	23	MILES	B-1	F	Х	F	N	Chlorophyll-a	Source Unknown
		Sutherlin to mouth (Smith River), T9N R6E S21									Escherichia coli	
											Nitrogen (Total)	
											Phosphorus (Total)	
Smith	MT41J002_020	HOUND CREEK, Spring Creek to mouth (Smith River)	n 5	6.71	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	
Smith	MT41J002_030	SHEEP CREEK, headwaters to mouth	5	41.31	MILES	B-1	N	F	F	N	Aluminum	Grazing in Riparian or Shoreline Zones
		(Smith River)									Escherichia coli	Natural Sources
Smith	MT41J002_040	BEAVER CREEK, headwaters to mouth (Smith River)	5	20.58	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Smith	MT41J002_050	BENTON GULCH, headwaters to mouth (Smith River)	n 5	13.41	MILES	B-1	Х	Х	Х	N	Escherichia coli	Source Unknown
Smith	MT41J002_060	ELK CREEK, headwaters to mouth	5	10.41	MILES	B-1	N	F	F	F	Low flow alterations	Irrigated Crop Production
		(Camas Creek)									Nitrogen (Total)	Livestock (Grazing or Feeding Operations)

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 10030103 Smith Watershed: Upper Missouri

TMDL Diame!		Watankaaka					_					
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefi L Ag		Jse Rec	Cause Name *	Source Name *
Smith	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	5	10.41	MILES	B-1	N	F	F	F	Phosphorus (Total)	
		(Carrias Creek)									Sedimentation/Siltation	
											Temperature, water	
Smith	MT41J002_070	THOMPSON GULCH, headwaters to mouth (Smith River)	5	10.81	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Smith	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to	5	9.01	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Smith River)									vegetative covers Escherichia coli	Irrigated Crop Production
											Low flow alterations	
											Sedimentation/Siltation	
											Temperature, water	
Smith	MT41J002_082	NEWLAN CREEK, headwaters to Newla	an 5	13.3	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Reservoir									vegetative covers Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen (Total)	Transfer of Water from an Outside Watershed
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Smith	MT41J002_100	LITTLE CAMAS CREEK, headwaters to mouth (Camas Creek)	5	3.82	MILES	B-1	N	F	F	N	Chlorophyll-a	Rangeland Grazing
		mouth (Camas Creek)									Nitrogen (Total)	
											Temperature, water	
Smith	MT41J002_110	CAMAS CREEK, junction of Big and Litt Camas Creeks to mouth (Smith River)	tle 5	14.28	MILES	B-1	Х	Х	Х	N	Escherichia coli	Source Unknown
Smith	MT41J002_120	MOOSE CREEK, headwaters to mouth (Sheep Creek)	5	11.63	MILES	B-1	N	F	F	1	Aluminum	Natural Sources



HUC: 10030104 Sun Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		enefi L Ag			Cause Name *	Source Name *
Sun	MT41K001_010	SUN RIVER, Gibson Dam to Muddy	4A	83.01	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		Creek									vegetative covers 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	F	N	Nitrogen (Total)	Agriculture
		(IVIISSOUTI KIVET)									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	1 4A	35.84	MILES	1	N	N	N	N	Nitrogen (Total)	Agriculture
		(Sun River)									Phosphorus (Total)	Channel Erosion/Incision from Upstream
											Salinity	Hydromodifications Habitat Modification - other than Hydromodification
											Sedimentation/Siltation	Streambank Modifications/destabilization
											Selenium	
											Sulfates	
											Temperature, water	
											Total Dissolved Solids	
Sun	MT41K002_020	FORD CREEK, from two miles above Smith Creek (T20N R8W S25) to moutl (Smith Creek)	4A h	2.48	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations	Channel Erosion/Incision from Upstream Hydromodifications Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Streambank Modifications/destabilization
Sun	MT41K002_040	HUBER COULEE, headwaters to mout (Sun River Valley Ditch)	th 5	3.6	MILES	B-1	X	Х	Х	N	Escherichia coli	Leaking Underground Storage Tanks Manure Runoff



HUC: 10030105 Belt Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Belt	MT41U001_011	BELT CREEK, headwaters to Big Otte	5	50.77	MILES	B-1	N	N	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		Creek									vegetative covers Cadmium	Channelization
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Salinity	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	
											Zinc	
Belt	MT41U001_012	BELT CREEK, Big Otter Creek to mou	th 5	39.44	MILES	B-2	N	N	N	1	Alteration in stream-side or littoral	Acid Mine Drainage
		(Missouri River)									vegetative covers Aluminum	Channelization
											Cadmium	Grazing in Riparian or Shoreline Zones
											Iron	Highways, Roads, Bridges, Infrastructure (New Construction)
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Other anthropogenic substrate alterations	
											Salinity	
											Sedimentation/Siltation	
											Zinc	
Belt	MT41U002_010	CARPENTER CREEK, headwaters to	5	6.05	MILES	B-1	N	Х	N	Х	Arsenic	Acid Mine Drainage
		mouth (Belt Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Mine Tailings
											Iron	
											Lead	
											Mercury	
											Silver	
											Zinc	
Belt	MT41U002_020	GALENA CREEK, headwaters to mout	h 4A	3.47	MILES	B-1	N	N	N	Х	Arsenic	Acid Mine Drainage
		(Dry Fork Belt Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Mine Tailings

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HUC: 10030105 Belt Watershed: Upper Missouri

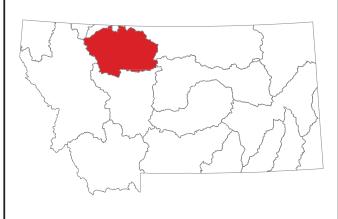
ID305B	Waterbody Name/Location	Category	Size	Units	Use Class					Cause Name *	Source Name *
MT41U002_020		4A	3.47	MILES	B-1	N	N	N	Х	Iron	
	(Dry Fork Belt Creek)									Lead	
										Zinc	
MT41U002_030		to 5	18.88	MILES	B-1	N	N	N	Х	Arsenic	Acid Mine Drainage
	mouth (Belt Creek)									Cadmium	Contaminated Sediments
										Copper	Highway/Road/Bridge Runoff (Non-construction
										Iron	Related) Mill Tailings
										Lead	Mine Tailings
										Sedimentation/Siltation	Post-development Erosion and Sedimentation
										Zinc	
MT41U002_040	LITTLE BELT CREEK, three miles	5	3.24	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
	upstream to mouth (Belt Creek)									vegetative covers Chlorophyll-a	Irrigated Crop Production
										Low flow alterations	Loss of Riparian Habitat
										Nitrogen (Total)	
										Phosphorus (Total)	
										Sedimentation/Siltation	
MT41U002_050	BIG OTTER CREEK, headwaters to	5	33.49	MILES	B-1	N	X	Х	F	Alteration in stream-side or littoral	Channelization
	mouth (Belt Creek)									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
										Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New
										Sedimentation/Siltation	Construction)
	MT41U002_020 MT41U002_030 MT41U002_040	MT41U002_020 GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek) MT41U002_030 DRY FORK BELT CREEK, headwaters mouth (Belt Creek) MT41U002_040 LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	MT41U002_030 MT41U002_040 MT41U002_040 MT41U002_040 MT41U002_050 GALENA CREEK, headwaters to mouth 4A (Dry Fork Belt Creek) Additional transfer of the provided in the provi	MT41U002_030	MT41U002_020 GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek) MT41U002_030 DRY FORK BELT CREEK, headwaters to 5 18.88 MILES mouth (Belt Creek) MT41U002_040 LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek) MT41U002_050 BIG OTTER CREEK, headwaters to 5 33.49 MILES	ID305B Name/Location Category Size Units Class MT41U002_020 GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek) 4A 3.47 MILES B-1 MT41U002_030 DRY FORK BELT CREEK, headwaters to mouth (Belt Creek) 5 18.88 MILES B-1 MT41U002_040 LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek) 5 3.24 MILES B-1	MT41U002_020 GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek) MT41U002_030 DRY FORK BELT CREEK, headwaters to 5 18.88 MILES B-1 N mouth (Belt Creek) MT41U002_040 LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek) MT41U002_050 BIG OTTER CREEK, headwaters to 5 33.49 MILES B-1 N	MT41U002_040	MT41U002_050 BIG OTTER CREEK, headwaters to S S S S S S S S S	MT41U002_050 BIG OTTER CREEK, headwaters to S 33.49 MILES B-1 N X X E MT41U002_050 BIG OTTER CREEK, headwaters to S 33.49 MILES B-1 N X X F MILES B-1 MILES MILE	MT41U002_020 GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek) MT41U002_030 DRY

Cut Bank Willow Two Medicine Marias Teton

Marias Sub-Major Basin

Lower Missouri River Basin

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



Montana Department of Environmental Quality

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HUC: 10030201 Two Medicine Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Cut Bank - Two Medicine	MT41M002_080	BIRCH CREEK, Blacktail Creek to mouth (Two Medicine River)	h 5	37.2	MILES	B-1	N	F	F	N	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)		7.36	MILES	B-1	N	F	F	F	Cause Unknown	Source Unknown
Cut Bank - Two Medicine	MT41M002_110	DUPUYER CREEK, confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Cree		39.28	MILES	B-1	N	F	F	N	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture Crop Production (Crop Land or Dry Land)
											Sedimentation/Siltation	Flow Alterations from Water Diversions
											Temperature, water	Irrigated Crop Production



HUC: 10030202 Cut Bank Watershed: Marias

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



HUC: 10030203 Marias Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Marias - Willow	MT41P002_030	PONDERA COULEE, headwaters to mouth (Marias River)	5	135.95	MILES	B-2	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Salinity	Agriculture
Marias - Willow	MT41P002_050	CORRAL CREEK, headwaters to mou (Cottonwood Creek)	th 5	22.98	MILES	B-2	N	х	х	X	Phosphorus (Total)	Agriculture



HUC: 10030204 Willow Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U	Jse Rec	Cause Name *	Source Name *
Marias - Willow	MT41P004_020	EAGLE CREEK, headwaters to mouth (Lake Elwell (Tiber Reservoir))	5	52.65	MILES	B-2	N	х	Х	Х	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total)	Agriculture Grazing in Riparian or Shoreline Zones
Marias - Willow	MT41P005_010	OILMONT WETLAND	5	21	ACRES	B-2	N	х	N	Х	Physical substrate habitat alterations Alteration in stream-side or littoral vegetative covers Arsenic Other flow regime alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Petroleum/natural Gas Activities



HUC: 10030205 Teton Watershed: Marias

	101011			·iaiia0								
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Sun	MT41K004_030	FREEZEOUT LAKE	5	3013.2	ACRES	B-2	N	N	N	N	Aquatic Plants - Native	Agriculture
											Phosphorus (Total)	Irrigated Crop Production
											Selenium	Source Unknown
											Sulfates	
											Total Dissolved Solids	
Teton	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	4A	121.42	MILES	B-3	N	F	F	F	Low flow alterations	Agriculture
		(IVIdilas River)									Salinity	Channelization
											Sedimentation/Siltation	Flow Alterations from Water Diversions
											Sulfates	Highways, Roads, Bridges, Infrastructure (New
											Total Dissolved Solids	Construction) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Streambank Modifications/destabilization
Teton	MT41O001_020	TETON RIVER, Deep Creek to Muddy	4A	43.92	MILES	B-2	N	N	F	F	Alteration in stream-side or littoral	Agriculture
		Creek									vegetative covers Low flow alterations	Channelization
											Salinity	Crop Production (Crop Land or Dry Land)
											Sulfates	Flow Alterations from Water Diversions
											Temperature, water	Grazing in Riparian or Shoreline Zones
											Total Dissolved Solids	Impacts from Hydrostructure Flow
											Total Suspended Solids (TSS)	Regulation/modification Municipal Point Source Discharges
												Streambank Modifications/destabilization
Teton	MT41O001_030	TETON RIVER, North and South Forks Deep Creek	to 4C	31.56	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Channelization
		Беер Стеек									Low flow alterations	Flow Alterations from Water Diversions
												Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
Teton	MT41O002_010	WILLOW CREEK, headwaters to mouth	n 4A	21.81	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		(Deep Creek)									vegetative covers Alterations in wetland habitats	Streambank Modifications/destabilization
											Sedimentation/Siltation	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
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HUC: 10030205 Teton Watershed: Marias

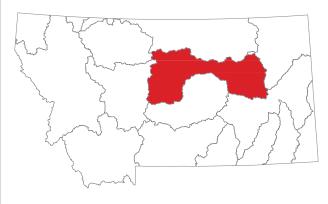
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial L DW	Jse Rec	Cause Name *	Source Name *
Teton	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	4A	9.57	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Alterations in wetland habitats Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat Streambank Modifications/destabilization
Teton	MT41O002_042	BLACKLEAF CREEK, Cow Creek to mouth (Muddy Creek)	4C	24.27	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Highways, Roads, Bridges, Infrastructure (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	N	F	N	N	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/destabilization
Teton	MT41O002_070	TETON SPRING CREEK, headwaters to city of Choteau	o 4A	9.67	MILES	B-1	N	F	N	N	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	4A	446.5	ACRES	B-2	N	N	N	N	Salinity Selenium Sulfates Total Dissolved Solids	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production



Fort Peck Lake Sub-Major Basin

Missouri River Basin

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



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HUC: 10040101 Bullwhacker-Dog Watershed: Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Missouri River	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	5	102.05	MILES	B-3	N	F	F	N	Alteration in stream-side or littoral vegetative covers Copper	Agriculture Grazing in Riparian or Shoreline Zones Source Unknown
Bullwhacker - Dog	MT41T002 020	DOG CREEK, Cutbank Creek to mouth	ı 5	26.03	MILES	C-3	N	_		F	Physical substrate habitat alterations Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
Bullwhacker - Dog	M1411002_020	(Missouri River)	1 5	20.03	MILES	U-3	IN	-	-	Г	Sedimentation/Siltation	Grazing in Ripanan of Shoreline Zones



HUC: 10040102 Arrow **Watershed:** Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic _ Ag			Cause Name *	Source Name *
Judith - Arrow	MT41R001_010	COFFEE CREEK, headwaters to mouth (Arrow Creek)	n 5	52.13	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Selenium Total Dissolved Solids	Animal Feeding Operations (NPS) Crop Production (Crop Land or Dry Land) Natural Sources
Judith - Arrow	MT41R001_020	ARROW CREEK, Surprise Creek to mouth (Missouri River)	5	69.7	MILES	C-3	N	-	-	F	Iron	Natural Sources



HUC: 10040103 Judith **Watershed:** Fort Peck Lake

1100. 10040103	Juditii	vvate	i Sileu.	OILI	JUN LAN							
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial (DW		Cause Name *	Source Name *
Judith - Arrow	MT41S001_010	JUDITH RIVER, Big Spring Creek to	4C	72.02	MILES	B-2	N	F	F	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Missouri River)									vegetative covers Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat
												Rangeland Grazing
Judith - Arrow	MT41S001_020	JUDITH RIVER, Ross Fork to Big Sprin	g 5	16.15	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		Creek									vegetative covers Cause Unknown	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Loss of Riparian Habitat
											Physical substrate habitat alterations	Natural Sources
											Sedimentation/Siltation	Source Unknown
Judith - Arrow	MT41S002_010	DRY WOLF CREEK, headwaters to	5	34.55	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Wolf Creek)									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Non-irrigated Crop Production
											Nitrogen (Total)	
											Phosphorus (Total)	
											Salinity	
Judith - Arrow	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mout	h 5	45.29	MILES	C-3	N	-	-	F	Iron	Crop Production (Crop Land or Dry Land)
		(Judith River)									Selenium	Crop Production with Subsurface Drainage
											Total Dissolved Solids	Natural Sources
												Source Unknown
Judith - Arrow	MT41S002_030	WARM SPRING CREEK, 5 miles	5	10.74	MILES	C-3	N	х	Х	Х	Alteration in stream-side or littoral	Agriculture
		upstream to mouth (Judith River)									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Streambank Modifications/destabilization
											Other anthropogenic substrate alterations	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Judith - Arrow	MT41S002_050	SAGE CREEK, headwaters to mouth	5	70.08	MILES	C-3	N	-	-	F	Iron	Animal Feeding Operations (NPS)
		(Judith River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
											Nitrogen (Total)	Source Unknown

 $\textbf{AqL} = \textbf{Aquatic Life}; \quad \textbf{Ag} = \textbf{Agriculture}; \quad \textbf{DW} = \textbf{Drinking Water}; \quad \textbf{Rec} = \textbf{Primary Contact Recreation}$

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*} The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10040103 Judith **Watershed:** Fort Peck Lake

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



HUC: 10040103 Judith **Watershed:** Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Big Springs	MT41S004_052	COTTONWOOD CREEK, county road a T14N R18E S18 to mouth (Big Spring	at 5	19.97	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
		Creek)									Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Loss of Riparian Habitat
											Nitrogen (Total)	Source Unknown
											Other flow regime alterations	
											Oxygen, Dissolved	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Total Kjehldahl Nitrogen (TKN)	



HUC: 10040104 Fort Peck Reservoir **Watershed:** Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri River	MT40E001_010	MISSOURI RIVER, Bullwhacker Creek Fort Peck Reservoir	to 5	49.02	MILES	B-3	N	F	N	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		TOTAL CONTROSCIVOII									Arsenic	Grazing in Riparian or Shoreline Zones
											Copper	Impacts from Abandoned Mine Lands (Inactive)
andusky	MT40E002_010	MONTANA GULCH, headwaters to more (Rock Creek)	uth 4A	2.04	MILES	C-3	N	-	N	Х	Aluminum	Acid Mine Drainage
		(ROCK Cleek)									Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	
											Cyanide	
											Nickel	
											Selenium	
											Zinc	
											pH	
Fort Peck Area Tributaries	MT40E002_022	ARMELLS CREEK, headwaters to Deel Creek	r 4A	19.34	MILES	C-3	N	-	N	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		Oreek									Cadmium	
											Copper	
											Iron	
											Mercury	
											Zinc	
											pH	
Fort Peck Area Tributaries	MT40E002_040	COW CREEK, Als Creek to mouth	4A	34.16	MILES	C-3	N	-	N	F	Aluminum	Coal Mining
		(Missouri River)									Arsenic	Natural Sources
											Copper	
											Iron	
											Lead	
andusky	MT40E002_050	ALDER GULCH, headwaters to mouth	4A	4.04	MILES	C-3	N	-	ı	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		(Ruby Creek), T26N R25E S16									vegetative covers Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Mine Tailings

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

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HUC: 10040104 Fort Peck Reservoir **Watershed:** Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic Ag	cial U DW	se Rec	Cause Name *	Source Name *
Landusky	MT40E002_050	ALDER GULCH, headwaters to mouth	4A	4.04	MILES	C-3	N	-	I	Х	Mercury	
		(Ruby Creek), T26N R25E S16									Selenium	
											Zinc	
											рН	
Landusky	MT40E002_060	RUBY CREEK, Un-Named tributary T29	5N 4A	4.61	MILES	C-3	N	-	N	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		R25E S21 to mouth (CK Creek)									Cadmium	
											Copper	
											Lead	
											Mercury	
											Selenium	
											Zinc	
											рН	
Landusky	MT40E002_070	RUBY GULCH, headwaters to confluen	ce 5	2.91	MILES	C-3	N	-	N	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		of Alder Gulch, T25N R25E S21									Arsenic	Mine Tailings
											Cadmium	
											Chromium (total)	
											Cyanide	
											Lead	
											Mercury	
											Selenium	
											Zinc	
											рН	
Landusky	MT40E002_090	ROCK CREEK, headwaters to mouth	5	39.19	MILES	C-3	N	-	N	N	Alteration in stream-side or littoral	Agriculture
		(Missouri River)									vegetative covers Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Escherichia coli	
											Lead	



HUC: 10040104 Fort Peck Reservoir **Watershed:** Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Landusky	MT40E002_090	ROCK CREEK, headwaters to mouth	5	39.19	MILES	C-3	N	-	N	N	Mercury	
		(Missouri River)									Selenium	
											Zinc	
											рН	
Landusky	MT40E002_100	MILL GULCH, headwaters to mouth (Recreek)	ock 5	1.74	MILES	C-3	N	N	N	N	Alteration in stream-side or littoral vegetative covers	Natural Sources
		Oreen									Arsenic	Rangeland Grazing
											Cadmium	Surface Mining
											Copper	
											Mercury	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Selenium	
											Zinc	
											рН	
Landusky	MT40E002_110	SULLIVAN CREEK, headwaters to mot (Rock Creek)	uth 5	.85	MILES	C-3	N	-	N	Х	Alteration in stream-side or littoral	Open Pit Mining
		(ROCK Creek)									vegetative covers Cadmium	Subsurface (Hardrock) Mining
											Fish-Passage Barrier	Surface Mining
											Iron	
											Lead	
											Nickel	
											Other flow regime alterations	
											Physical substrate habitat alterations	
											Selenium	
											Zinc	
Fort Peck Area Tributaries	MT40E002_130	FARGO COULEE, headwaters to mout	h 4A	21.11	MILES	C-3	N	-	N	F	Alteration in stream-side or littoral	Natural Sources
		(Armells Creek)									vegetative covers Aluminum	Source Unknown
											Arsenic	
											Nitrogen (Total)	

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

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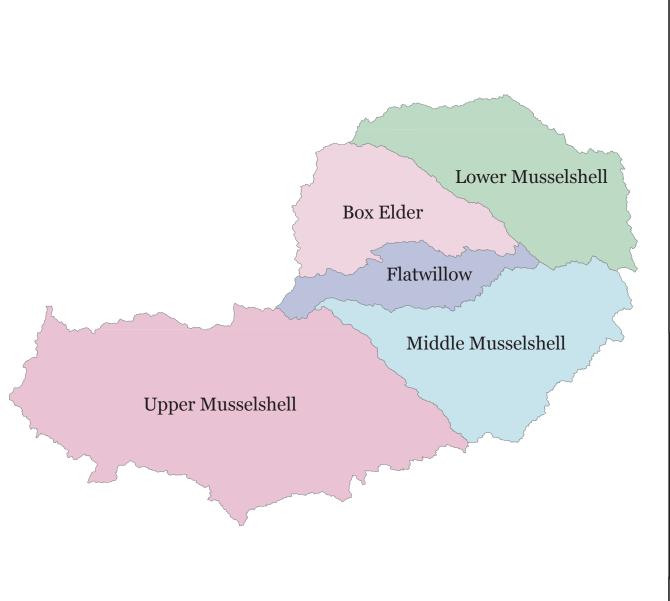
HUC: 10040104 Fort Peck Reservoir Watershed: Fort Peck Lake

TMDL Planning		Waterbody	O-1	. 0:	1114	Use	Be	nefic	cial L	Jse	0 N *	O
Area	ID305B	Name/Location	Category	Size	Units	Class	AqL	. Ag	DW	Rec	Cause Name *	Source Name *
Fort Peck Area Tributaries	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	n 4A	21.11	MILES	C-3	N	-	N	F	Phosphorus (Total)	
Redwater	MT40E003_010	TIMBER CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	4A	89.42	MILES	C-3	N	-	-	F	Nitrogen (Total)	Agriculture
		(big biy cleek aill of Fort Feck Res)									Phosphorus (Total)	Natural Sources
											Total Kjehldahl Nitrogen (TKN)	Source Unknown
Redwater	MT40E003_020	NELSON CREEK, headwaters to mouth	n 5	36.37	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral	Agriculture
		(Big Dry Creek arm of Fort Peck Res)									vegetative covers Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Source Unknown
											Nitrates	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sulfates	
											Total Dissolved Solids	
Missouri River	MT40E004_010	FORT PECK RESERVOIR	5	233295	.8 ACRES	B-3	N	Х	N	F	Lead	Atmospheric Deposition - Toxics
											Mercury	Historic Bottom Deposits (Not Sediment)
												Impacts from Abandoned Mine Lands (Inactive)



HUC: 10040105 Big Dry Watershed: Fort Peck Lake

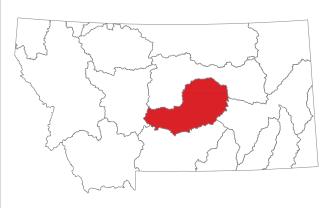
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Aa			Cause Name *	Source Name *
Big and Little Dry	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth	n 5	98.62	MILES	C-3	Ν	-	-	N	Alteration in stream-side or littoral	Agriculture
		(Fort Peck Reservoir)									vegetative covers Ammonia (Un-ionized)	Municipal Point Source Discharges
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Phosphorus (Total)	



Musselshell Sub-Major Basin

Lower Missouri River Basin

USGS HUC	HUC NAME
10040201	Upper Musselshell
10040202	Middle Musselshell
10040203	Flatwillow
10040204	Box Elder
10040205	Lower Musselshell



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HUC: 10040201 Upper Musselshell Watershed: Musselshell

		Name/Location	Categor	y Size	Units	Use Class			ial U DW	Rec	Cause Name *	Source Name *
Upper - Middle Musselshell Mi	_	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	5	55.3	MILES	B-2	N	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture Channelization
											Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Upper - Middle Musselshell M		MUSSELSHELL RIVER, Deadmans Bas Supply Canal to HUC boundary near	in 5	94.49	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		Roundup									Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	Non-irrigated Crop Production
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Upper - Middle Musselshell M		0A002_010 NORTH FORK MUSSELSHELL RIVE headwaters to confluence with the Sou	4C	38.19	MILES	B-1	N	F	F	N	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
		Fork Musselshell River										Natural Sources
Upper - Middle Musselshell M		TRAIL CREEK, headwaters to mouth (North Fork Musselshell River)	5	10.1	MILES	B-1	N	F	F	N	Chlorophyll-a	Rangeland Grazing
		(NOTHER OF MUSSESSIEH RIVEL)									Sedimentation/Siltation	Silviculture Harvesting
												Source Unknown
Upper - Middle Musselshell M		MILL CREEK, headwaters to mouth (North Fork Musselshell River)	5	4.81	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(Notifi Fork Musselshell River)									Chlorophyll-a	Silviculture Harvesting
											Sedimentation/Siltation	Source Unknown
Careless Creek M	_	CARELESS CREEK, confluence with Deadmans Basin Canal to mouth (Musselshell River)	4A	17	MILES	C-3	N	-	-	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/destabilization
Upper - Middle Musselshell M	_	FISH CREEK, headwaters to mouth	5	98.64	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Flow Alterations from Water Diversions
		(Musselshell River)									Nitrogen (Total)	Rangeland Grazing
											Other flow regime alterations	Source Unknown

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
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HUC: 10040201 Upper Musselshell Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Upper - Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	5	98.64	MILES	C-3	N	-	-	F	Phosphorus (Total)	
Upper - Middle Musselshell	MT40A002_080	PAINTED ROBE CREEK, headwaters t mouth (Musselshell River)	o 5	40.92	MILES	C-3	N	-	-	X	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Salinity	Non-irrigated Crop Production Rangeland Grazing
Upper - Middle Musselshell	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	5	18.19	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Other flow regime alterations	Highway/Road/Bridge Runoff (Non-construction Related) Livestock (Grazing or Feeding Operations) On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Upper - Middle Musselshell	MT40A005_010	DEADMANS BASIN RESERVOIR	5	1849.1	ACRES	B-1	N	N	N	F	Copper Iron Lead	Natural Sources Source Unknown



HUC: 10040202 Middle Musselshell Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Bend AqL A				Cause Name *	Source Name *
Upper - Middle Musselshell	MT40C001_010	MUSSELSHELL RIVER, HUC boundary near Roundup to Flatwillow Creek	4C	114.6	MILES	C-3	N	-	-	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/destabilization
Upper - Middle Musselshell	MT40C002_010	NORTH WILLOW CREEK, headwaters mouth (Musselshell River)	to 5	117.27	MILES	C-3	N	-	-	F	Iron Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload) Specific Conductance Sulfates	Above Ground Storage Tank Leaks (Tank Farms) Natural Sources Source Unknown



HUC: 10040203 Flatwillow **Watershed:** Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial U DW	lse Rec	Cause Name *	Source Name *
Flatwillow - Box Elder Flatwillow - Box Elder	MT40B001_021 MT40B001_022	FLATWILLOW CREEK, headwaters to Highway 87 bridge FLATWILLOW CREEK, Highway 87	5	40.11 99.88	MILES	B-2 C-3	N	F .	X -	N N	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing Impacts from Hydrostructure Flow
		bridge to mouth (Musselshell River)									vegetative covers Low flow alterations Mercury Nitrate/Nitrite (Nitrite + Nitrate as N) Physical substrate habitat alterations Sedimentation/Siltation	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 F		27.56	MILES	B-2	N	F	F	F	Sedimentation/Siltation	Agriculture Loss of Riparian Habitat Rangeland Grazing



HUC: 10040204 Box Elder Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic			Cause Name *	Source Name *
Flatwillow - Box Elder	MT40B002_010	McDONALD CREEK, North and South	5	89.18	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral	Agriculture
		Forks to mouth (Box Elder Creek)									vegetative covers Sedimentation/Siltation	Managed Pasture Grazing
											Specific Conductance	Source Unknown
											Total Dissolved Solids	
Flatwillow - Box Elder	MT40B002_020	FORDS CREEK, headwaters in Chicag Gulch to East Fork Fords Creek	o 4A	2.98	MILES	C-3	N	-	N	Х	Arsenic	Acid Mine Drainage
		Guich to East Fork Fords Creek									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Zinc	
											рН	
Flatwillow - Box Elder	MT40B002_030	COLLAR GULCH CREEK, headwaters mouth (Fords Creek)	to 4A	6.38	MILES	C-3	N	-	N	Х	Aluminum	Acid Mine Drainage
		mouth (Fords Creek)									Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	
											Copper	
											Lead	
											Zinc	
											рН	
Flatwillow - Box Elder	MT40B002_040	CHIPPEWA CREEK, headwaters to	4A	3.75	MILES	C-3	N	-	N	X	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		confluence with Manitoba Gulch									vegetative covers Antimony	Heap-leach Extraction Mining
											Arsenic	Mine Tailings
											Cyanide	
											Iron	
											Mercury	
											Sedimentation/Siltation	



HUC: 10040205 Lower Musselshell Watershed: Musselshell

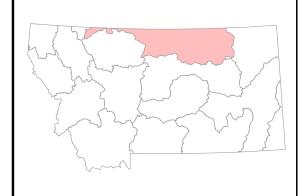
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic Ag			Cause Name *	Source Name *
Lower Musselshell	MT40C003_010	MUSSELSHELL RIVER, Flatwillow Cre to Fort Peck Reservoir	eek 4C	75.94	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral vegetative covers Low flow 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/destabilization
Lower Musselshell	MT40C004_030	BLOOD CREEK, Dovetail County Roamouth (Musselshell River)	d to 4C	57.36	MILES	C-3	N	-	-	X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Natural Sources

Frenchman Wild Horse Lodge **UMR** Creek Lake Creek Whitewater ** Battle Upper Rock Cottonwood Creek Creek/ Creek Sage Creek Creek River Milk River Porcupine (UMR) Creek Headwaters Middle Milk River Lower Milk Sandy Creek Peoples River Creek Beaver Creek

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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HUC: 10050002 Upper Milk Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Upper Milk	MT40F003_010	MILK RIVER, Canada border to Fresno Reservoir	5	39.66	MILES	B-3	N	F	N	F	Copper High Flow Regime	Flow Alterations from Water Diversions Natural Sources
											Iron	Source Unknown
Upper Milk	MT40F005_010	FRESNO RESERVOIR	4C	5007	ACRES	B-3	N	F	Х	x	Lead Other flow regime alterations	Impacts from Hydrostructure Flow
											Physical substrate habitat alterations	Regulation/modification



HUC: 10050004 Middle Milk Watershed: Milk

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

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10050004 Middle Milk Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Middle Milk and Tributaries	MT40J002_030	LITTLE BOXELDER CREEK, headwate to mouth (Milk River)	ers 5	50.17	MILES	B-1	N	F	F	F	Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Rangeland Grazing Source Unknown
											Temperature, water	



HUC: 10050005 Big Sandy Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic			Cause Name *	Source Name *
			<u> </u>							.,		
Big Sandy - Sage	Big Sandy - Sage MT40H001_010 BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	5	62.93	MILES	B-3	N	F	N	Х	Mercury	Agriculture	
		Coulog to Mount (Mink Paver)									Salinity	Atmospheric Deposition - Nitrogen
											Sulfates	Crop Production (Crop Land or Dry Land)
											Total Dissolved Solids	Natural Sources
												Source Unknown



HUC: 10050006 Sage Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		enefic L Ag		Jse / Rec	Cause Name *	Source Name *
Big Sandy - Sage	MT40G001_011	SAGE CREEK, Laird Creek to the	4A	29.36	MILES	B-1	N	N	N	F	Alteration in stream-side or littoral	Agriculture
		confluence of Russell Creek, T36N R9E S32	=								vegetative covers Salinity	Crop Production (Crop Land or Dry Land)
											Sulfates	Grazing in Riparian or Shoreline Zones
											Total Dissolved Solids	Irrigated Crop Production
												Natural Sources
												Non-irrigated Crop Production
Big Sandy - Sage	MT40G001_012	SAGE CREEK, Confluence of Russell Creek T36N R9E S32 to the mouth (Bio	4A	92.3	MILES	B-3	N	N	N	F	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		Sandy Creek))								vegetative covers Salinity	Grazing in Riparian or Shoreline Zones
											Sulfates	Irrigated Crop Production
											Total Dissolved Solids	Natural Sources
												Non-irrigated Crop Production



HUC: 10050007 Lodge Watershed: Milk

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



HUC: 10050008 Battle Watershed: Milk

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



HUC: 10050009 Peoples Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic Ag			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	F	N	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones Source Unknown
											Mercury	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Phosphorus (Total)	
											Temperature, water	
Landusky	MT40I001_030	SOUTH BIG HORN CREEK, headwater	s 4A	1.36	MILES	B-1	N	F	N	Х	Aluminum	Acid Mine Drainage
		to Fort Belknap Reservation boundary									Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	Mine Tailings
											Iron	Surface Mining
											Nickel	
											Zinc	
Landusky	MT40I001_040	KING CREEK, headwaters to Fort	5	.9	MILES	B-1	N	F	N	Х	Alteration in stream-side or littoral	Impacts from Abandoned Mine Lands (Inactive)
		Belknap Reservation boundary									vegetative covers Arsenic	Mine Tailings
											Cadmium	
											Lead	
											Physical substrate habitat alterations	
											Selenium	
Landusky	MT40I001_050	LODGE POLE CREEK, headwaters to	4A	4.34	MILES	B-1	N	F	N	Х	Alteration in stream-side or littoral	Source Unknown
		Fort Belknap Reservation boundary									vegetative covers Cadmium	Subsurface (Hardrock) Mining
											Cause Unknown	Surface Mining
											Mercury	
Landusky	MT40I002_010	SWIFT GULCH CREEK, Headwaters to	4A	1.73	MILES	B-1	N	F	N	F	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		mouth (South Big Horn Creek), T25N R24E S10									Arsenic	Natural Sources
											Cadmium	Open Pit Mining
											Copper	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
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HUC: 10050009 Peoples Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Landusky	MT40I002_010	SWIFT GULCH CREEK, Headwaters to	o 4A	1.73	MILES	B-1	N	F	N	F	Iron	
		mouth (South Big Horn Creek), T25N R24E S10									Nickel	
											Thallium	
											Zinc	
											рН	



HUC: 10050010 Cottonwood Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic Ag	ial U DW	se Rec	Cause Name *	Source Name *
Middle Milk and Tributaries	MT40J005_020	COTTONWOOD CREEK, Black Coulee mouth (Milk River)	to 5	57.36	MILES	B-3	N	F	F	F	Alteration in stream-side or littoral vegetative covers Iron	Grazing in Riparian or Shoreline Zones Natural Sources
											Sedimentation/Siltation	Source Unknown



HUC: 10050011 Whitewater Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Bei AqL	nefic Ag	ial U DW	se Rec	Cause Name *	Source Name *
Middle Milk and Tributaries	MT40K001_010	WHITEWATER CREEK, Canadian bord to mouth (Milk River)	der 5	67.63	MILES	B-3	F	F	N	F	Mercury	Source Unknown



HUC: 10050012 Lower Milk Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Milk	MT40O001_010	MILK RIVER, Beaver Creek to mouth	5	134.52	MILES	B-3	Х	F	N	N	Escherichia coli	Agriculture
		(Missouri River)									Lead	Dam or Impoundment
											Mercury	Source Unknown
Lower Milk	MT40O002_020	BUGGY CREEK, headwaters to mouth (Milk River)	5	46.53	MILES	B-3	N	F	F	F	Iron	Natural Sources
Lower Milk	MT40O002_031	WILLOW CREEK, headwaters to Halfpir	nt 5	10.38	MILES	B-3	N	F	Х	Х	Alteration in stream-side or littoral	Agriculture
		Reservoir, T25N R35E S26									vegetative covers Other flow regime alterations	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Streambank Modifications/destabilization
												Upstream Impoundments (e.g., PI-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	F	Х	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		mouth (wilk River), 126N R40E 329									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	5	16.53	MILES	B-3	N	F	F	F	Alteration in stream-side or littoral	Dam or Impoundment
		Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)									vegetative covers 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	N	Х	х	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/destabilization



HUC: 10050013 Frenchman Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic Ag	ial Us	se Rec	Cause Name *	Source Name *
Middle Milk and Tributaries	MT40L001_010	FRENCHMAN CREEK, Canadian borde to mouth (Milk River)	er 4C	82.5	MILES	B-3	N	N	F	N	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



HUC: 10050014 Beaver Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic Ag			Cause Name *	Source Name *
Landusky	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	4A	5.4	MILES	B-3	N	F	N	F	Lead	Impacts from Abandoned Mine Lands (Inactive) Source Unknown
Beaver	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Cree	5 ek	55.12	MILES	B-3	N	F	N	F	Mercury Phosphorus (Total)	Source Unknown
Beaver	MT40M001_014	BEAVER CREEK, Big Warm Creek to Un-Named tributary, T30N R32E S32	5	97.99	MILES	B-3	N	F	N	F	Mercury Phosphorus (Total)	Source Unknown
Beaver	MT40M001_020	BEAVER CREEK, Un-named tributary a T30N R32E S32 to mouth (Milk River)	t 5	86.86	MILES	B-3	N	F	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Uranium	Agriculture Source Unknown
Beaver	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	5	36.88	MILES	B-3	N	N	N	F	Arsenic Cadmium Copper Iron Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Oxygen, Dissolved Phosphorus (Total) Solids (Suspended/Bedload)	Natural Sources Source Unknown
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5	76.67	MILES	B-3	N	F	F	F	Zinc Alteration in stream-side or littoral vegetative covers Copper Lead Nitrogen (Total) Oxygen, Dissolved	Agriculture Animal Feeding Operations (NPS) Natural Sources Source Unknown

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



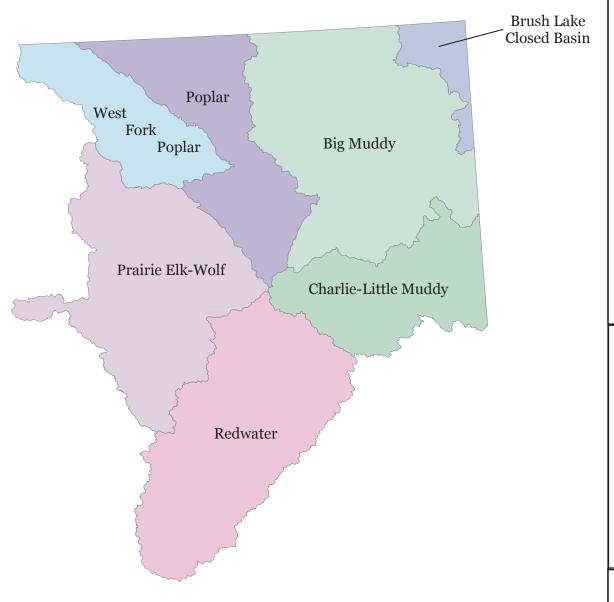
HUC: 10050014 Beaver Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW	Jse Rec	Cause Name *	Source Name *
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5	76.67	MILES	B-3	N	F	F	F	Phosphorus (Total)	
Beaver	MT40M002_030	BIG WARM CREEK, Fort Belknap	. 5	57.08	MILES	B-3	N	N	F	F	Alteration in stream-side or littoral	Agriculture
		Reservation boundary to mouth (Beaver Creek)									vegetative covers Other flow regime alterations	Dam or Impoundment
											Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Streambank Modifications/destabilization
											Salinity	
											Sedimentation/Siltation	
Beaver	MT40M003_010	LAKE BOWDOIN	5	3932.2	ACRES	B-3	N	N	N	Х	Salinity	Agriculture
											Selenium	Dam or Impoundment
												Irrigated Crop Production
Beaver	MT40M003_020	NELSON RESERVOIR	5	4112.5	ACRES	B-3	N	F	Х	N	Other flow regime alterations Phosphorus (Total)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production



HUC: 10050016 Porcupine Watershed: Milk

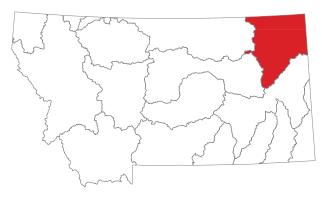
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	ial U	lse Rec	Cause Name *	Source Name *
Lower Milk	MT40O003_010	PORCUPINE CREEK, confluence of We and Middle Forks to mouth (Milk River)	est 5	49.29	MILES	B-3	N	N	F	Х	Nitrogen (Total) Phosphorus (Total)	Non-irrigated Crop Production
											Salinity	



Missouri-Poplar Sub-Major Basin

Lower Missouri River Basin

HUC NAME
Brush Lake Closed Basin
Prairie Elk-Wolf
Redwater
Poplar
West Fork Poplar
Charlie-Little Muddy
Big Muddy



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HUC: 10060001 Prairie Elk-Wolf Watershed: Missouri-Poplar

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag		Jse Rec	Cause Name *	Source Name *
Lower Missouri	MT40S001_011	MISSOURI RIVER, Fort Peck Dam to M River	/lilk 5	9.79	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Impacts from Hydrostructure Flow Regulation/modification
											Temperature, water	
Lower Missouri	MT40S001_012	MISSOURI RIVER, Milk River to Poplar River	r 5	81.86	MILES	B-3	N	F	F	Х	Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
											Temperature, water	
Redwater	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	e 4A	38.87	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		TORS to mount (wissoun Niver)									Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Total Kjehldahl Nitrogen (TKN)	
Redwater	MT40S002_030	SAND CREEK, confluence of East and West Forks to mouth (Missouri River)	5	19.82	MILES	C-3	N	-	-	Х	Nitrogen (Total)	Agriculture
		West Forks to mouth (Missouth River)									Phosphorus (Total)	Non-irrigated Crop Production
											Physical substrate habitat alterations	Rangeland Grazing
											Sedimentation/Siltation	
											Total Kjehldahl Nitrogen (TKN)	



HUC: 10060002 Redwater Watershed: Missouri-Poplar

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



HUC: 10060003 Poplar Watershed: Missouri-Poplar

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Lower Missouri	MT40Q001_011	POPLAR RIVER, Confluence of East &	. 5	29.94	MILES	B-2	N	F	F	N	Escherichia coli	Natural Sources
		Middle Forks to Fort Peck Reservation boundary, T33N R48E S12									Sedimentation/Siltation	Rangeland Grazing
											Temperature, water	Source Unknown
Lower Missouri	MT40Q001_012	MIDDLE FORK POPLAR RIVER,	5	36.46	MILES	B-2	N	F	F	N	Escherichia coli	Natural Sources
		headwater (confluence of Lost Child & Goose Creeks) to the mouth (Poplar									Sedimentation/Siltation	Rangeland Grazing
		River)									Temperature, water	Source Unknown
Lower Missouri	MT40Q002_010	BUTTE CREEK, headwaters to mouth	5	41.95	MILES	B-2	N	N	F	F	Iron	Crop Production (Crop Land or Dry Land)
		(Poplar River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
											Nitrogen (Total)	Source Unknown
											Phosphorus (Total)	
											Sodium	
											Specific Conductance	
Lower Missouri	MT40Q002_020	EAST FORK POPLAR RIVER, Canada	a 5	21.58	MILES	B-2	N	N	F	N	Chlorophyll-a	Impacts from Hydrostructure Flow
		border to mouth (Poplar River)									Iron	Regulation/modification Natural Sources
											Other flow regime alterations	Source Unknown



HUC: 10060005 Charlie-Little Muddy **Watershed:** Missouri-Poplar

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic			Cause Name *	Source Name *
Lower Missouri	MT40S003_010	MISSOURI RIVER, Poplar River to Nort	h 5	91.97	MILES	B-3	N	F	F	х	Other flow regime alterations	Dam or Impoundment
		Darota boldei									Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40S004_010	CHARLIE CREEK, East and Middle	5	32.86	MILES	C-3	N	-	-	F	Fish-Passage Barrier	Crop Production (Crop Land or Dry Land)
		Charlie Creek to mouth (Missouri River)									Iron	Highways, Roads, Bridges, Infrastructure (New
											Nitrogen (Total)	Construction) Natural Sources
											Specific Conductance	
Lower Missouri	MT40S004_020	HARDSCRABBLE CREEK, headwaters mouth (Missouri River)	to 5	35.91	MILES	C-3	N	-	-	F	Nitrogen (Total)	Agriculture
											Specific Conductance	Natural Sources
											Total Dissolved Solids	



HUC: 10060006 Big Muddy Watershed: Missouri-Poplar

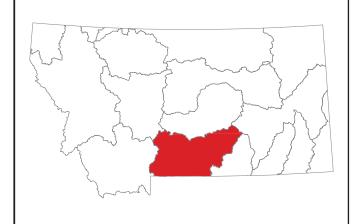
TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		nefici Ag		Jse Rec	Cause Name *	Source Name *
Lower Missouri	MT40R001_010	BIG MUDDY CREEK, north corner of Fo	rt 5	82.08	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral	Agriculture
		Peck Reservation boundary to mouth (Missouri River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
											Phosphorus (Total)	Regulation/modification
											Sedimentation/Siltation	
Lower Missouri	MT40R001_020	BIG MUDDY CREEK, Canadian border t	o 5	119.54	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral	Agriculture
		northern boundary of Fort Peck Reservation									vegetative covers Copper	Grazing in Riparian or Shoreline Zones
											Lead	Non-irrigated Crop Production
											Mercury	Source Unknown
											Nitrogen (Total)	
											Organic Enrichment (Sewage) Biological Indicators Phosphorus (Total)	
											Zinc	
Lower Missouri	MT40R003_010	MEDICINE LAKE	5	9726.1	ACRES	C-3	N	-	-	F	Cadmium	Atmospheric Deposition - Toxics
											Lead	Source Unknown
											Mercury	

Shields Upper Yellowstone-Pompeys Pillar Upper Yellowstone-Lake Basin Upper Yellowstone Clarks Fork Yellowstone Headwaters

Upper Yellowstone Sub-Major Basin

Yellowstone River Basin

HUC8	Name
10070006	Clarks Fork Yellowstone
10070002	Upper Yellowstone
10070003	Shields
10070004	Upper Yellowstone-Lake Basin
10070005	Stillwater
10070007	Upper Yellowstone-Pompeys Pillar
10070008	Pryor
10070001	Yellowstone Headwaters



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HUC: 10070001 Yellowstone Headwaters **Watershed:** Upper Yellowstone

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

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HUC: 10070002 Upper Yellowstone **Watershed:** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U		Cause Name *	Source Name *
Yellowstone River	MT43B003_010	YELLOWSTONE RIVER, Reese Creek t Bridger Creek	to 4C	119	MILES	B-1	N	х	х	Х	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Streambank Modifications/destabilization
Yellowstone - Sweet Grass	MT43B004_011	OTTER CREEK, 2 mi downstream of Highway 191 bridge to mouth (Yellowstone River)	4C	29.57	MILES	B-1	N	х	Х	Х	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	N	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	N	Х	х	N	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_022	BIG TIMBER CREEK, headwaters	5	26.75	MILES	B-1	N	F	N	1	Alteration in stream-side or littoral	Agriculture
		downstream to Swamp Creek									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Cadmium	Source Unknown
											Copper	
											Iron	
											Lead	
											Manganese	
											Nickel	
											Sedimentation/Siltation	
											Selenium	
											Solids (Suspended/Bedload)	
Yellowstone - Sweet Grass	MT43B004_031	LOWER DEER CREEK, 4 mile upstrean to mouth (Yellowstone River)	n 4C	4.43	MILES	B-1	N	Х	Х	N	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_041	UPPER DEER CREEK, Cartwright Gulc to mouth (Yellowstone River)	h 4C	6.95	MILES	B-1	N	Х	Х	N	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_042	UPPER DEER CREEK, headwaters to	5	16.63	MILES	B-1	N	F	F	1	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Cartwright Gulch									vegetative covers Solids (Suspended/Bedload)	Silviculture Activities
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to	5	1.37	MILES	B-1	N	F	F	N	Excess Algal Growth	Agriculture
		mouth (Yellowstone River)									Fish-Passage Barrier	Channelization

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*} The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10070002 Upper Yellowstone **Watershed:** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	5	1.37	MILES	B-1	N	F	F	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Habitat Modification - other than Hydromodification
		mount (Tellowstone River)									Sedimentation/Siltation	Source Unknown
Paradise	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	5	13.44	MILES	B-1	N	F	F	F	Combined Biota/Habitat Bioassessments	Agriculture
		miles above mount (renowstone raver)									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	N	F	F	N	Low flow alterations	Flow Alterations from Water Diversions
		modul (Tellowstofie River)									Temperature, water	
Paradise	MT43B004_071	MILL CREEK, National Forest boundary	4C	7.4	MILES	B-1	N	Х	Х	N	Low flow alterations	Agriculture
		to mouth (Yellowstone River)										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	N	Х	Х	N	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	N	Х	Х	N	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	N	Х	Х	N	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_102	SIX MILE CREEK, Absaroka-Beartooth Wilderness boundary to National Forest	5	2.54	MILES	B-1	N	Х	Χ	Х	Other anthropogenic substrate alterations	Loss of Riparian Habitat
		boundary									Sedimentation/Siltation	Placer Mining
Big Creek (Yellowstone)	MT43B004_111	BIG CREEK, National Forest boundary t mouth (Yellowstone River)	o 4C	4.25	MILES	B-1	N	Х	Х	N	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	N	F	F	F	Low flow alterations	Agriculture
Boulder - Big Timber	MT43B004_131	BOULDER RIVER, Clayton Ditch to mouth (Yellowstone River)	5	5.51	MILES	B-1	N	F	F	N	Copper	Impacts from Abandoned Mine Lands (Inactive)
		mouth (renowstone rever)									Iron	Irrigated Crop Production
											Lead	
											Low flow alterations	
											Silver	
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls (T3S R12E S26) to Clayton Ditch	5	27.84	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

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HUC: 10070002 Upper Yellowstone Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and	5	27.84	MILES	B-1	N	F	F	F	Chromium (total)	Grazing in Riparian or Shoreline Zones
		Falls (T3S R12E S26) to Clayton Ditch (T1N R14E S34)									Copper	Source Unknown
											Iron	
											Lead	
											Nickel	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
Boulder - Big Timber	MT43B004_133	BOULDER RIVER, confluence of the Ea		24.08	MILES	B-1	N	F	F	N	Copper	Coal Mining Discharges (Permitted)
		Fork Boulder River to Natural bridge and Falls (T35 R12E S26)	d								Excess Algal Growth	Hardrock Mining Discharges (Permitted)
											Iron	Source Unknown
											Lead	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Phosphorus (Total)	
Boulder - Big Timber	MT43B004_134	BOULDER RIVER, headwaters to	4A	9.02	MILES	B-1	N	F	N	F	Copper	Impacts from Abandoned Mine Lands (Inactive)
		confluence of East Fork Boulder River									Iron	
											Lead	
Boulder - Big Timber	MT43B004_141	EAST BOULDER RIVER, Elk Creek to	5	3.14	MILES	B-1	N	F	F	N	Chlorophyll-a	Flow Alterations from Water Diversions
		mouth (Boulder River)									Low flow alterations	Source Unknown
											Other anthropogenic substrate alterations	Streambank Modifications/destabilization
											Sedimentation/Siltation	
Boulder - Big Timber	MT43B004_142	EAST BOULDER RIVER, National Fore	st 4C	3.07	MILES	B-1	N	F	ı	N	Chlorophyll-a	Agriculture
		boundary to Elk Creek									Low flow alterations	Source Unknown
Yellowstone - Sweet Grass	MT43B004_150	SWEET GRASS CREEK, headwaters to mouth (Yellowstone River)	o 4C	79.33	MILES	B-1	N	F	F	I	Alteration in stream-side or littoral vegetative covers	Agriculture
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth	4A	1.55	MILES	B-1	N	Х	Х	Х	Copper	
		(Boulder River)									Iron	

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10070002 Upper Yellowstone Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be Aql	nefic	cial L DW	Jse Rec	Cause Name *	Source Name *
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	4A	1.55	MILES	B-1	N	Х	Х	Х	Lead	



HUC: 10070003 Shields Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U DW	Jse Rec	Cause Name *	Source Name *
Shields	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	4A	18.99	MILES	B-1	N	х	X	N	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/destabilization
Shields	MT43A001_012	SHIELDS RIVER, headwaters to Cottonwood Creek	4A	44.99	MILES	B-1	N	X	Х	N	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/destabilization
Shields	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	4A	27.76	MILES	B-1	N	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	N	F	F	N	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		18.32	MILES	B-1	N	F	F	N	Low flow alterations	Irrigated Crop Production
Shields	MT43A002_040	ELK CREEK, headwaters to mouth (Shields River)	4C	3.83	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Shields	MT43A002_051	ROCK CREEK, National Forest bounda to mouth (Shields River)	ry 4C	14.34	MILES	B-1	N	F	F	N	Low flow alterations	Flow Alterations from Water Diversions



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

TMDL Planning		Waterbody				Use	Re	nefi	cial L	lsa		
Area	ID305B	Name/Location	Category	/ Size	Units	Class				Rec	Cause Name *	Source Name *
Yellowstone River	MT43F001_011	YELLOWSTONE RIVER, City of Laurel	5	19.4	MILES	B-2	N	F	I	N	Cause Unknown	Channelization
		PWS to City of Billings PWS									Chlorophyll-a	Crop Production (Crop Land or Dry Land)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Municipal Point Source Discharges
											Oil and Grease	Pipeline Breaks
											Other anthropogenic substrate alterations	Streambank Modifications/destabilization
											Physical substrate habitat alterations	
Yellowstone - Sweet Grass	MT43F002_010	DUCK CREEK, headwaters to mouth (Yellowstone River)	5	13.68	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Channelization
		(Yellowstorie River)									Low flow alterations	Drought-related Impacts
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Yellowstone - Sweet Grass	MT43F002_021	CANYON CREEK, highway 532 to mou (Yellowstone River)	th 4C	19.6	MILES	B-2	N	Х	Х	Х	Other flow regime alterations	Flow Alterations from Water Diversions
Yellowstone - Sweet Grass	MT43F002_022	CANYON CREEK, headwaters to highw 532	vay 5	29.7	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
		002									Low flow alterations	Channelization
											Oxygen, Dissolved	Drought-related Impacts
											Sedimentation/Siltation	
Yellowstone - Sweet Grass	MT43F002_040	VALLEY CREEK, headwaters to mouth	5	14.75	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		(Yellowstone River)									vegetative covers Benthic-Macroinvertebrate	Channelization
											Bioassessments 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	2583	ACRES	B-2	N	N	N	Х	Salinity	Agriculture
Lake Basin - Spidel	MT43F003_020	HAILSTONE LAKE	5	114.7	ACRES	B-2	N	N	N	Х	Salinity	Agriculture
Lake Basin - Spidel	MT43F003_030	HALFBREED LAKE	5	211	ACRES	B-2	N	N	N	Х	Salinity	Agriculture

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HUC: 10070005 Stillwater **Watershed:** Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Cooke City	MT43C001_010	STILLWATER RIVER, headwaters to	4A	21.69	MILES	B-1	N	F	N	Х	Copper	Acid Mine Drainage
		Flood Creek									Iron	Highway/Road/Bridge Runoff (Non-construction Related)
											Manganese	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Mine Tailings
											рН	Natural Sources
Stillwater - Columbus	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone	5	45.59	MILES	B-1	N	F	N	F	Cadmium	Hardrock Mining Discharges (Permitted)
		River), T2S R20E S20									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	5	5.91	MILES	B-1	N	F	F	N	Chlorophyll-a	Irrigated Crop Production
		mouth (Castle Creek)									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	N	Chlorophyll-a	Rangeland Grazing
Stillwater - Columbus	MT43C002_030	CASTLE CREEK, headwaters to the mouth (Limestone Creek), T4S R15E S2	5	8.29	MILES	B-1	Ν	F	F	N	Chlorophyll-a	Livestock (Grazing or Feeding Operations)
		mouth (Limestone Creek), 143 K 15E 32	.9								Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
												Upstream Source
Stillwater - Columbus	MT43C002_041	GROVE CREEK, confluence of South	5	5.23	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Fork Grove Creek, T4S R18E S13 to the mouth (Stillwater River), T3S R18E S34	•								vegetative covers Chlorophyll-a	Irrigated Crop Production
											Phosphorus (Total)	Loss of Riparian Habitat
											Sedimentation/Siltation	Natural Sources
Stillwater - Columbus	MT43C002_050	FISHTAIL CREEK, headwaters to mouth	ı 5	14.8	MILES	B-1	N	F	F	F	Iron	Source Unknown
		(West Rosebud Creek)									Lead	
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	5	13.16	MILES	B-1	N	F	F	N	Chlorophyll-a	Flow Alterations from Water Diversions

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*}The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10070005 Stillwater Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	5	13.16	MILES	B-1	N	F	F	N	Low flow alterations Sedimentation/Siltation	Irrigated Crop Production
Stillwater - Columbus	MT43C002_081	BUTCHER CREEK, highway 78 to mout (Rosebud Creek)	h 5	22.02	MILES	B-1	N	F	F	X	High Flow Regime Physical substrate habitat alterations Solids (Suspended/Bedload)	Streambank Modifications/destabilization Transfer of Water from an Outside Watershed
Stillwater - Columbus	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	5	4.98	MILES	B-1	N	F	F	N	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 mouth (Rosebud Creek)	to 5	40.45	MILES	B-1	N	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	N	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	Aluminum Cadmium Copper	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive)
											Iron	Mine Tailings
											Lead	Natural Sources
											Manganese	
											Sedimentation/Siltation	
											Zinc	
											pH	



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

Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Clarks Fork Yellowstone	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER	R, 5	43.32	MILES	B-2	N	N	I	N	Ammonia (Total)	Habitat Modification - other than Hydromodification
		Bridger Creek to mouth (Yellowstone River)									Chlorophyll-a	Impacts from Hydrostructure Flow Regulation/modification
											Copper	Irrigated Crop Production
											Iron	Source Unknown
											Lead	Streambank Modifications/destabilization
											Low flow alterations	
											Mercury	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Solids (Suspended/Bedload)	
											Temperature, water	
Cooke City	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER	R, 4A	5.06	MILES	B-1	N	F	F	Х	Cadmium	Acid Mine Drainage
		headwaters to Montana Border									Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Mine Tailings
											Silver	
											Zinc	
											pH	
Clarks Fork Yellowstone	MT43D002_010	ELBOW CREEK, headwaters to mouth	5	38.57	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		(Clarks Fork)									vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
											Nitrogen (Total)	Rangeland Grazing
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth	5	21.14	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Impacts from Abandoned Mine Lands (Inactive)
		(Clarks Fork)									vegetative covers	Irrigated Crop Production

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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth	5	21.14	MILES	B-1	N	F	F	N	High Flow Regime	Loss of Riparian Habitat
		(Clarks Fork)									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, unnamed tributa at T6N R24E S7 NWNE to mouth (Clark		11.41	MILES	B-1	N	F	F	N	Chlorophyll-a	Agriculture
		Fork Yellowstone River)	5								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	4C	17.93	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		Cooney Reservoir									vegetative covers	Grazing in Riparian or Shoreline Zones
Clarks Fork Yellowstone	MT43D002_060	RED LODGE CREEK, Cooney Reservoi to mouth (Rock Creek)	r 5	12.07	MILES	B-1	N	Х	Х	X	Organic Enrichment (Sewage) Biological Indicators Other flow regime alterations	Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
											Physical substrate habitat alterations	
Clarks Fork Yellowstone	MT43D002_070	WILLOW CREEK, headwaters to mouth	5	36.46	MILES	B-1	N	Х	Х	Х	Low flow alterations	Irrigated Crop Production
		(Cooney Reservoir)									Sedimentation/Siltation	
Clarks Fork Yellowstone	MT43D002_080	WEST RED LODGE CREEK, Absaroka-		14.39	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Natural Sources
		Beartooth Wilderness boundary to mouth (Red Lodge Creek)	1									Source Unknown
Clarks Fork Yellowstone	MT43D002_100	SILVERTIP CREEK, Wyoming border to	5	21.77	MILES	B-1	N	N	N	F	Alteration in stream-side or littoral	Channelization
		mouth (Clarks Fork Yellowstone River)									vegetative covers Nitrogen (Total)	Dam or Impoundment
											Other flow regime alterations	Grazing in Riparian or Shoreline Zones
											Oxygen, Dissolved	Loss of Riparian Habitat
											Phosphorus (Total)	Natural Sources
											Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems) Solids (Suspended/Bedload)	Petroleum/natural Gas Production Activities (Permitted) Pipeline Breaks



HUC: 10070006 Clarks Fork Yellowstone Watershed: Upper Yellowstone

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

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HUC: 10070007 Upper Yellowstone-Pompeys Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW	Jse Rec	Cause Name *	Source Name *
Yellowstone River	MT43F001_010	YELLOWSTONE RIVER, City of Billing PWS to Huntley Diversion Dam	gs 5	10.62	MILES	B-3	N	F	N	N	Arsenic Benthic-Macroinvertebrate Bioassessments Dissolved oxygen saturation Excess Algal Growth Nutrient/Eutrophication Biological Indicators Oil and Grease Periphyton (Aufwuchs) Indicator Bioassessments	Agriculture Municipal Point Source Discharges Natural Sources Pipeline Breaks
Yellowstone River	MT43Q001_011	YELLOWSTONE RIVER, Huntley Diversion Dam to mouth of Big Horn R	5 iver	58.31	MILES	B-3	N	I	I	N	Solids (Suspended/Bedload) Ammonia (Un-ionized) Oil and Grease Sedimentation/Siltation Total Dissolved Solids	Agriculture Industrial Point Source Discharge Irrigated Crop Production Municipal Point Source Discharges Natural Sources Pipeline Breaks
Yellowstone - Lower Bighorn	MT43Q002_010	FLY CREEK, Crow Indian Reservation boundary to mouth (Yellowstone River)		55.68	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Oxygen, Dissolved	Agriculture Dam or Impoundment Drought-related Impacts Loss of Riparian Habitat
Lake Basin - Spidel	MT43Q003_010	SPIDEL WATERFOWL PRODUCTION AREA	1 5	659.8	ACRES	B-1	N	N	N	Х	Other anthropogenic substrate alterations Salinity Selenium	Highways, Roads, Bridges, Infrastructure (New Construction) Non-irrigated Crop Production



HUC: 10070008 Pryor Watershed: Upper Yellowstone

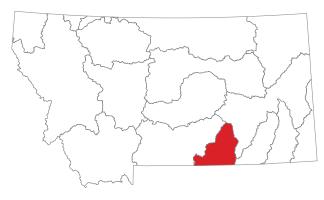
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Yellowstone - Lower Bighorn	MT43E001_010	PRYOR CREEK, Interstate 90 bridge to mouth (Yellowstone River)	5	14.98	MILES	C-3	N	-	-	N	Benthic-Macroinvertebrate Bioassessments Low flow alterations	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	N	F	F	N	Excess Algal Growth Low flow alterations Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Natural Sources Sources Outside State Jurisdiction or Borders Upstream Source

Lower Bighorn Little Bighorn Shoshone Big Horn Lake

Big Horn Sub-Major Basin

Yellowstone River Basin

USGS HUC	HUC NAME
10080010	Big Horn Lake
10080014	Shoshone
10080015	Lower Bighorn
10080016	Little Bighorn



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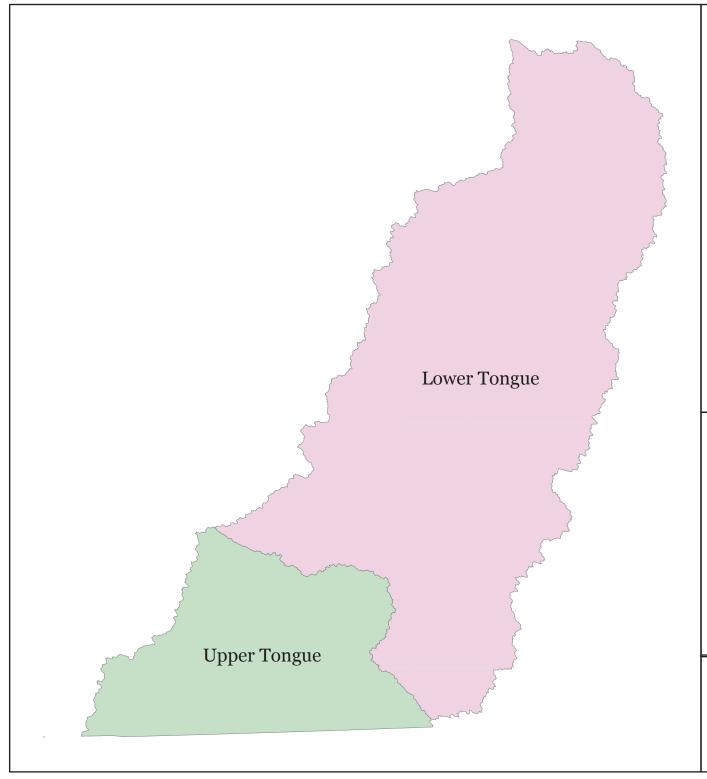
HUC: 10080010 Bighorn Lake Watershed: Big Horn

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class	Ber AqL	nefic Ag	ial U DW	lse Rec	Cause Name *	Source Name *
Bighorn Lake - Shoshone	MT43P002_010	CROOKED CREEK, headwaters to Wyoming Border	4C	15.07	MILES	B-1	N	Х	Х	Х	Physical substrate habitat alterations	Agriculture



HUC: 10080015 Lower Bighorn Watershed: Big Horn

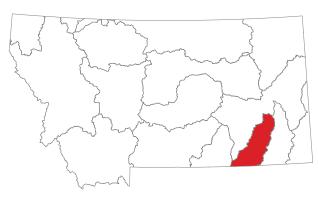
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Yellowstone - Lower Bighorn	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	5	40.02	MILES	B-2	х	F	N	Х	Lead	Source Unknown
Yellowstone - Lower Bighorn	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighor River)	5 n	58.83	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral vegetative covers	Dam or Impoundment Flow Alterations from Water Diversions
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Loss of Riparian Habitat
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	Rangeland Grazing



Tongue Sub-Major Basin

Yellowstone River Basin

USGS HUC HUC NAME
10090101 Upper Tongue
10090102 Lower Tongue



Montana Department of Environmental Quality

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HUC: 10090101 Upper Tongue Watershed: Tongue

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Tongue	MT42B001_010	TONGUE RIVER, Wyoming border to Tongue River Reservoir	5	5.9	MILES	B-2	N	F	F	F	Iron Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Natural Sources
												Streambank Modifications/destabilization
Tongue	MT42B001_020	TONGUE RIVER, Tongue River Dam to Prairie Dog Creek	o 4C	22.05	MILES	B-2	N	F	F	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Streambank Modifications/destabilization
Tongue	MT42B001_021	TONGUE RIVER, Prairie Dog Creek to Hanging Woman Creek	4C	12.27	MILES	B-3	N	I	I	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
												Streambank Modifications/destabilization
Tongue	MT42B002_031	HANGING WOMAN CREEK, Stroud	5	18.27	MILES	C-3	N	N	-	1	Iron	Grazing in Riparian or Shoreline Zones
		Creek to mouth (Tongue River)									Low flow alterations	Irrigated Crop Production
											Salinity	Natural Sources
											Sedimentation/Siltation	Rangeland Grazing
												Streambank Modifications/destabilization
Tongue	MT42B002_032	HANGING WOMAN CREEK, Wyoming	5	31.37	MILES	C-3	N	N	-	I	Low flow alterations	Irrigated Crop Production
		border to Stroud Creek									Salinity	Natural Sources
Tongue	MT42B003_010	TONGUE RIVER RESERVOIR	5	2158.5	ACRES	B-2	N	ı	ı	1	Chlorophyll-a	Irrigated Crop Production
											Oxygen, Dissolved	Municipal Point Source Discharges
											Solids (Suspended/Bedload)	



HUC: 10090102 Lower Tongue Watershed: Tongue

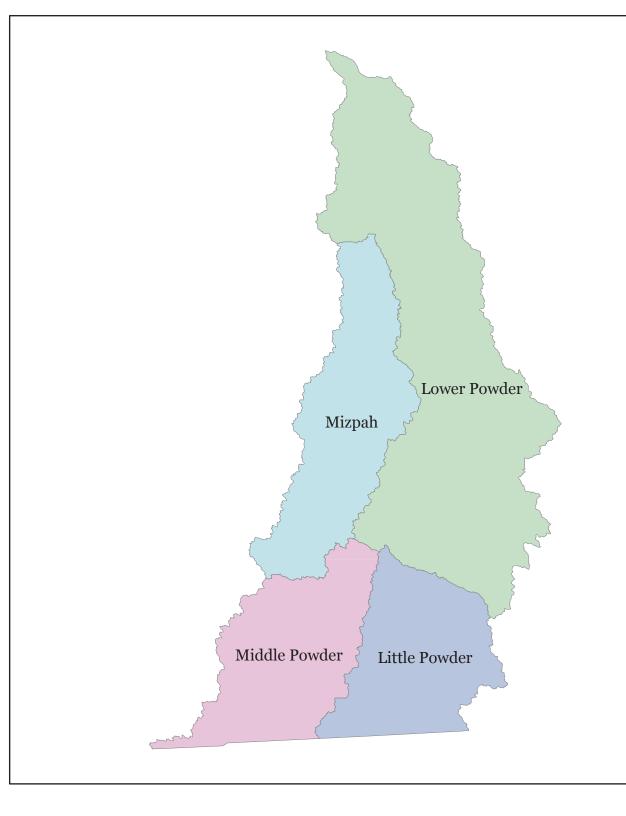
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial (DW		Cause Name *	Source Name *
Tongue	MT42C001_011	TONGUE RIVER, Twelve Mile Dam to	5	20.9	MILES	B-3	N	N	N	ı	Cadmium	Dam Construction (Other than Upstream Flood
		mouth (Yellowstone River)									Copper	Control Projects) Impacts from Hydrostructure Flow
											Iron	Regulation/modification Irrigated Crop Production
											Lead	Natural Sources
											Low flow alterations	Streambank Modifications/destabilization
											Nickel	
											Salinity	
											Solids (Suspended/Bedload)	
											Sulfates	
											Zinc	
Tongue	MT42C001_013	TONGUE RIVER, Hanging Woman Cre	ek 5	74.97	MILES	B-3	N	F	F	1	Iron	Impacts from Hydrostructure Flow
		to Beaver Creek									Low flow alterations	Regulation/modification Irrigated Crop Production
											Solids (Suspended/Bedload)	Natural Sources
												Streambank Modifications/destabilization
Tongue	MT42C001_014	TONGUE RIVER, Beaver Creek to	5	72	MILES	B-3	N	F	F	1	Iron	Impacts from Hydrostructure Flow
		Twelve Mile Dam, T6N R48E S29									Low flow alterations	Regulation/modification Irrigated Crop Production
											Solids (Suspended/Bedload)	Natural Sources
												Streambank Modifications/destabilization
Tongue	MT42C002_020	OTTER CREEK, headwaters to mouth	5	108.1	MILES	C-3	N	N	-	1	Alteration in stream-side or littoral	Agriculture
		(Tongue River)									vegetative covers Iron	Grazing in Riparian or Shoreline Zones
											Salinity	Highways, Roads, Bridges, Infrastructure (New Construction) Natural Sources
												Site Clearance (Land Development or Redevelopment)
Tongue	MT42C002_061	PUMPKIN CREEK, headwaters to Little	5	87.68	MILES	C-3	Ν	N	-	1	Low flow alterations	Irrigated Crop Production
		Pumpkin Creek									Salinity	Natural Sources
											Temperature, water	
											romporature, water	

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HUC: 10090102 Lower Tongue Watershed: Tongue

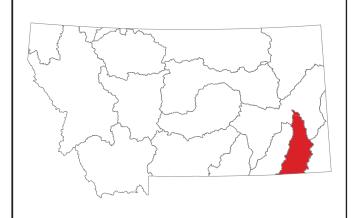
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Beneficial Use AqL Ag DW Rec	Cause Name *	Source Name *
Tongue	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creet to the mouth (Tongue River)	ek 5	92.19	MILES	C-3	N N - I	Low flow alterations Salinity	Irrigated Crop Production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



Powder Sub-Major Basin

Yellowstone River Basin

HUC8	Name
10090209	Lower Powder
10090210	Mizpah
10090207	Middle Powder
10090208	Little Powder



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HUC: 10090207 Middle Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	ial L DW	lse Rec	Cause Name *	Source Name *
Powder	MT42J001_010	POWDER RIVER, Wyoming border to Little Powder River	5	78.21	MILES	C-3	Х	N	-	х	Salinity	Natural Sources
		Little Fowder River										Source Unknown



HUC: 10090208 Little Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class	Be AqL	nefic . Ag	ial U	Jse Rec	Cause Name *	Source Name *
Powder	MT42I001_010	LITTLE POWDER RIVER, Wyoming border to mouth (Powder River)	5	63.31		C-3					Salinity	Natural Sources
		bolder to modifi (Fowder River)										Source Unknown



HUC: 10090209 Lower Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic Ag			Cause Name *	Source Name *
Powder	MT42J003_011	POWDER RIVER, Little Powder River to Mizpah Creek	5	99	MILES	C-3	Х	N	-	Х	Salinity	Natural Sources Source Unknown
Powder	MT42J003_012	POWDER RIVER, Mizpah Creek to mou (Yellowstone River)	uth 5	45.33	MILES	C-3	Х	N	-	Х	Salinity	Natural Sources Source Unknown
Powder	MT42J004_010	STUMP CREEK, headwaters to mouth (Powder River)	5	29.77	MILES	C-3	Х	N	-	x	Salinity	Natural Sources



HUC: 10090210 Mizpah Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	ial L DW	Jse Rec	Cause Name *	Source Name *
Powder	MT42J005_011	MIZPAH CREEK, headwaters to Corral Creek	5	131.98	MILES	C-3	Х	N	-	Х	Salinity	Natural Sources
Powder	MT42J005_012	MIZPAH CREEK, Corral Creek to the mouth (Powder River)	5	22.98	MILES	C-3	Х	N	-	Х	Salinity	Natural Sources

Lower Yellowstone Big Porcupine Lower Yellowstone-Sunday O'Fallon Rosebud

Lower Yellowstone Sub-Major Basin

Yellowstone River Basin

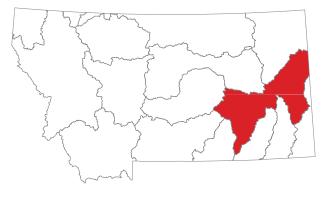
USGS HUC HUC NAME

10100001 Lower Yellowstone-Sunday

10100002 Big Porcupine 10100003 Rosebud

10100005 O'Fallon

10100004 Lower Yellowstone



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Yellowstone River	MT42K001_010	YELLOWSTONE RIVER, the Cartersvill Diversion Dam to Powder River	e 5	88.73	MILES	B-3	N	I	I	I	Alteration in stream-side or littoral	Agriculture
		Diversion Dam to Powder River									vegetative covers 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
											рН	Streambank Modifications/destabilization
Yellowstone River	MT42K001_020	YELLOWSTONE RIVER, the Big Horn to Cartersville Diversion Dam	o 4C	59.51	MILES	B-3	N	F	Х	Х	Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Middle Yellowstone	MT42K002_020	HARRIS CREEK, headwaters to mouth	5	27.39	MILES	C-3	Ν	-	-	N	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
Tributaries		(Yellowstone River)									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	MT42K002_030	SUNDAY CREEK, the North and South	5	15.28	MILES	C-3	N	-	-	N	Chlorophyll-a	Irrigated Crop Production
Tributaries		Forks to mouth (Yellowstone River)									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	
Middle Yellowstone	MT42K002_040	MUSTER CREEK, headwaters to mouth	n 5	31.39	MILES	C-3	N	-	-	N	Chlorophyll-a	Irrigated Crop Production
Tributaries		(Yellowstone River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Transfer of Water from an Outside Watershed
											Other flow regime alterations	
											Phosphorus (Total)	
											Solids (Suspended/Bedload)	
Middle Yellowstone Tributaries	MT42K002_060	DEADMAN CREEK, headwaters to mou (North Fork Sunday Creek)	ith 5	17.28	MILES	C-3	N	-	-	F	Nitrogen (Total)	Source Unknown

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*}The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Middle Yellowstone Tributaries	MT42K002_060	DEADMAN CREEK, headwaters to mou (North Fork Sunday Creek)	th 5	17.28	MILES	C-3	N	-	-	F	Phosphorus (Total)	
Middle Yellowstone Tributaries	MT42K002_070	STELLAR CREEK, headwaters to moutl (Little Porcupine Creek)	n 5	42.96	MILES	C-3	N	-	-	N	Cadmium	Rangeland Grazing
· · · · · · · · · · · · · · · · · · ·		(Emile r ereapine ereen)									Chlorophyll-a	Source Unknown
											Phosphorus (Total)	
											рН	
Middle Yellowstone	MT42K002_080	NORTH FORK SUNDAY CREEK,	5	33.76	MILES	C-3	N	-	-	F	Sedimentation/Siltation	Channelization
Tributaries		Custer/Rosebud County border to mouth (Sunday Creek)	1								Sodium	Crop Production (Crop Land or Dry Land)
											Solids (Suspended/Bedload)	Natural Sources
											Specific Conductance	
											Total Dissolved Solids	
Middle Yellowstone	MT42K002_090	SARPY CREEK, Crow Indian Reservation	on 5	89.35	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
Tributaries		Boundary to mouth (Yellowstone River)									Nitrogen (Total)	Non-irrigated Crop Production
											Phosphorus (Total)	
Middle Yellowstone	MT42K002_110	EAST FORK ARMELLS CREEK, Colstri	p 5	32.36	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture
Tributaries		to mouth (Armells Creek)									Nitrogen (Total)	Coal Mining
											Specific Conductance	Transfer of Water from an Outside Watershed
											Total Dissolved Solids	
Middle Yellowstone	MT42K002_160	LITTLE PORCUPINE CREEK,	5	118.8	MILES	C-3	N	-	-	N	Chlorophyll-a	Rangeland Grazing
Tributaries		headwaters to mouth (Yellowstone Rive	r)								Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
											Nitrogen (Total)	
											Phosphorus (Total)	
											Total Dissolved Solids	
Middle Yellowstone Tributaries	MT42K002_170	EAST FORK ARMELLS CREEK, headwaters to Colstrip	4C	24.67	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Agriculture



HUC: 10100003 Rosebud Watershed: Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Rosebud	MT42A001_011	ROSEBUD CREEK, boundary at S28/2 T6N R42E to mouth (Yellowstone River		4.28	MILES	C-3	N	-	-	Х	Physical substrate habitat alterations	Loss of Riparian Habitat
Rosebud	MT42A001_012	ROSEBUD CREEK, Northern Cheyenn Reservation boundary to boundary at S28/29 T6N R42E	ie 5	111.77	MILES	C-3	N	-	-	Х	Other	Dam Construction (Other than Upstream Flood Control Projects)



HUC: 10100004 Lower Yellowstone **Watershed:** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Yellowstone River	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	5	53.67	MILES	B-3	N	F	F	F	Alteration in stream-side or littoral vegetative covers Chromium (total)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
											Copper	Natural Sources
											Fish-Passage Barrier	Rangeland Grazing
											Lead	Source Unknown
											Nitrogen (Total)	Streambank Modifications/destabilization
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Total Dissolved Solids	
											рН	
Yellowstone River	MT42M001_012	YELLOWSTONE RIVER, Powder River Lower Yellowstone Diversion Dam	to 4C	76.73	MILES	B-3	N	F	Х	Х	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	N	-	-	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Channelization Highways, Roads, Bridges, Infrastructure (New
											Physical substrate habitat alterations	Construction) Irrigated Crop Production
Lower Yellowstone	MT42M002_020	FOURMILE CREEK, headwaters to Nort Dakota border	h 5	29.74	MILES	C-3	N	-	-	N	Chlorophyll-a	Dam or Impoundment
		Dakota border									Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
											Nitrogen (Total)	
											Other flow regime alterations	
											Total Dissolved Solids	
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to	5	33.37	MILES	C-3	N	-	-	N	Copper	Hydrostructure Impacts on Fish Passage
		mouth (Yellowstone River)									Fish-Passage Barrier	Irrigated Crop Production
											Iron	Source Unknown
											Lead	Transfer of Water from an Outside Watershed
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Other flow regime alterations	
											Phosphorus (Total)	

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HUC: 10100004 Lower Yellowstone Watershed: Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to	5	33.37	MILES	C-3	N	-	-	N	Solids (Suspended/Bedload)	
		mouth (Yellowstone River)									Total Dissolved Solids	
Lower Yellowstone	MT42M002_040	LONE TREE CREEK, confluence of No Fork to mouth (Yellowstone River)	rth 5	17.27	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers	Channelization
		Tork to mouth (Tellowstone River)									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	5	49.85	MILES	B-2	N	N	N	N	Arsenic	Channelization
		(Yellowstone River), T22N R59E S19									Excess Algal Growth	Irrigated Crop Production
											Iron	Natural Sources
											Lead	Source Unknown
											Low flow alterations	
											Mercury	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Solids (Suspended/Bedload)	
											Sulfates	
											Total Dissolved Solids	
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwate	ers 5	20.32	MILES	B-2	N	N	N	N	Arsenic	Channelization
		to mouth (Fox Creek), T22N R58E S21									Excess Algal Growth	Irrigated Crop Production
											Iron	Natural Sources
											Lead	Source Unknown
											Low flow alterations	
											Mercury	
											Nitrogen (Total)	



HUC: 10100004 Lower Yellowstone **Watershed:** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwater	s 5	20.32	MILES	B-2	N	N	N	N	Phosphorus (Total)	
		to mouth (Fox Creek), T22N R58E S21									Physical substrate habitat alterations	
											Solids (Suspended/Bedload)	
											Sulfates	
											Total Dissolved Solids	
Lower Yellowstone	MT42M002_060	O'BRIEN CREEK, North Dakota border to mouth (Yellowstone River)	o 5	15.53	MILES	C-3	N	-	-	N	Excess Algal Growth	Animal Feeding Operations (NPS)
		mouth (Tellowstone Kivel)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
											Selenium	
Lower Yellowstone	MT42M002_070	CRANE CREEK, headwaters to mouth	5	24.25	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral	Channelization
		(Yellowstone River, T21N R58E S23)									vegetative covers 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	N	-	-	F	Fish-Passage Barrier	Low Water Crossing
Lower Yellowstone	MT42M002_100	COTTONWOOD CREEK, headwaters to mouth (Yellowstone River)	5	21.99	MILES	C-3	Ν	-	-	F	Cadmium	Channelization
		modif (Tellowstoffe River)									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	5	53.66	MILES	C-3	N	-	-	N	Chlorophyll-a	Crop Production (Crop Land or Dry Land)
		(Yellowstone River)									Fish-Passage Barrier	Hydrostructure Impacts on Fish Passage
											Iron	Irrigated Crop Production
											Nitrogen (Total)	Natural Sources
											Other flow regime alterations	
											Phosphorus (Total)	
											Solids (Suspended/Bedload)	
Lower Yellowstone	MT42M002_120	MORGAN CREEK, headwaters to mouth (Yellowstone River)	n 4C	19.8	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to mou (Yellowstone River)	th 5	55.89	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

 $\textbf{AqL} \small{=} \small{\textbf{Aquatic Life};} \quad \textbf{Ag} \small{=} \small{\textbf{Agriculture};} \quad \textbf{DW} \small{=} \small{\textbf{Drinking Water};} \quad \textbf{Rec} \small{=} \small{\textbf{Primary Contact Recreation}}$

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*}The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 10100004 Lower Yellowstone **Watershed:** Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to mou	th 5	55.89	MILES	C-3	N	-	-	F	Cadmium	Natural Sources
		(Yellowstone River)									Chromium (total)	Source Unknown
											Copper	
											Iron	
											Lead	
											Nickel	
											Selenium	
											Solids (Suspended/Bedload)	
											Zinc	
Lower Yellowstone	MT42M002_141	CEDAR CREEK, 26 miles upstream to	5	27.49	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Yellowstone River)									vegetative covers Arsenic	Natural Sources
											Copper	Spills from Trucks or Trains
											Iron	
											Lead	
Lower Yellowstone	MT42M002_142	CEDAR CREEK, tributary confluence at	5	20.13	MILES	C-3	N	_		F	Copper	Natural Sources
Lower Tellowstorie	W142W002_142	12N 57E S35 to tributary confluence at 13N 56E S27	3	20.13	WIILLS	0-3	IN			'	Iron	Natural Sources
		13N 30E 321									Lead	
											Selenium	
											Celeman	
Lower Yellowstone	MT42M002_150	CABIN CREEK, headwaters to mouth (Yellowstone River)	5	102.54	MILES	C-3	Ν	-	-	F	Nitrogen (Total)	Dam or Impoundment
		(Oxygen, Dissolved	Natural Sources
											Sedimentation/Siltation	Rangeland Grazing
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth	5	15.15	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral	Channelization
		(Yellowstone River)									vegetative covers Copper	Hydrostructure Impacts on Fish Passage
											Excess Algal Growth	Irrigated Crop Production
											Fish-Passage Barrier	Rangeland Grazing
											High Flow Regime	Source Unknown



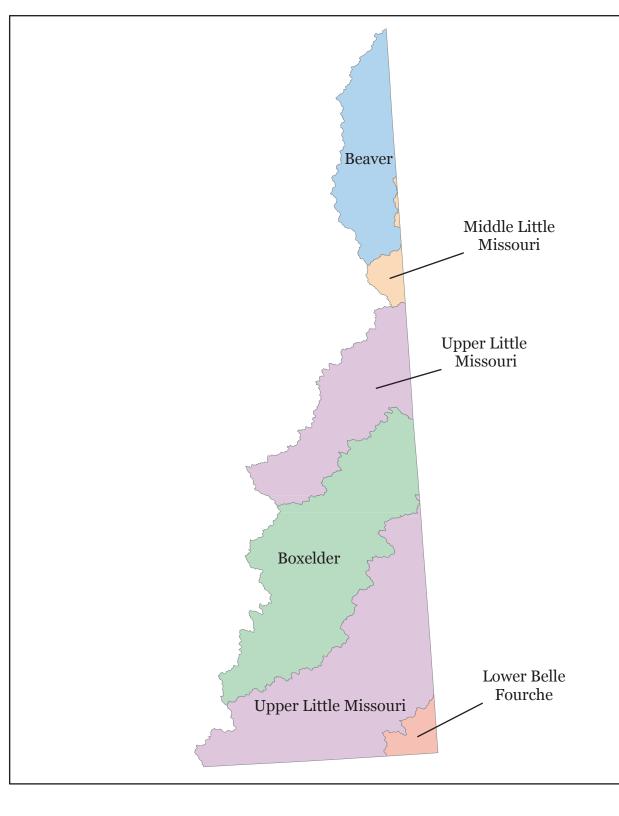
HUC: 10100004 Lower Yellowstone Watershed: Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name * Source Name *
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	5	15.15	MILES	C-3	N	-	-	N	Lead
		(Tellowstoffe River)									Solids (Suspended/Bedload)



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

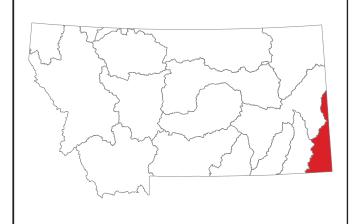
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
O` Fallon	MT42L001_010	PENNEL CREEK, headwaters to mouth (O'Fallon Creek)	n 5	65.97	MILES	C-3	N	-	-	F	Total Dissolved Solids	Source Unknown
O` Fallon	MT42L001_020	SANDSTONE CREEK, headwaters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



Little Missouri/Belle Fourche Sub-Major Basin

Yellowstone River Basin

USGS HUC	HUC NAME
10110201	Upper Little Missouri
10110202	Boxelder
10110203	Middle Little Missouri
10110204	Beaver
10120202	Lower Belle Fourche
	10110201 10110202 10110203 10110204



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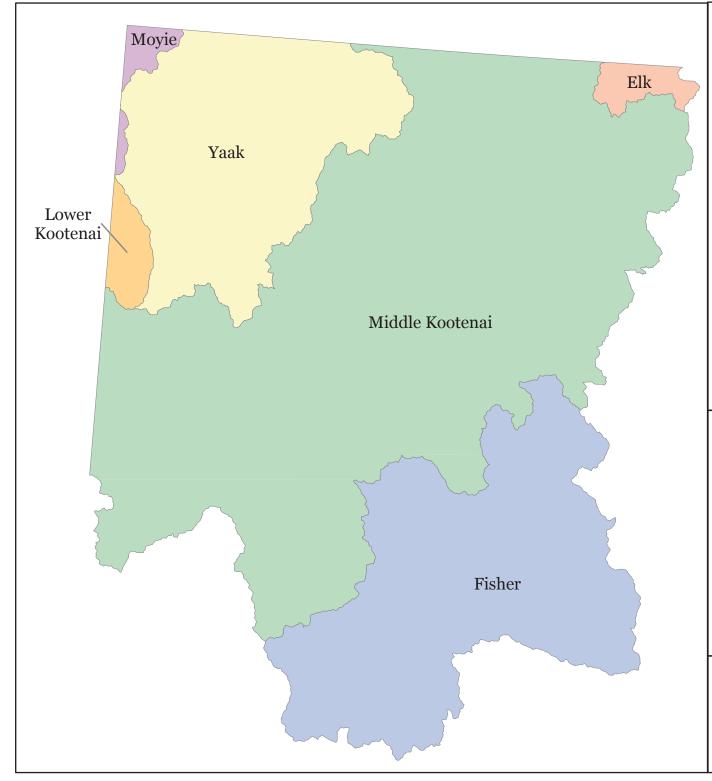
HUC: 10110201 Upper Little Missouri **Watershed:** Little Missouri/Belle Fourche

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Ben AqL				Cause Name *	Source Name *
Little Missouri	MT39F001_010	THOMPSON CREEK, Wyoming border	to 5	41.22	MILES	C-3		-	-	Х	Cadmium	Natural Sources
		mouth (Little Missouri River)									Copper	
											Iron	
											Zinc	
Little Missouri	MT39F001_020	LITTLE MISSOURI RIVER, Wyoming border to South Dakota border	5	106.1	MILES	C-3	N	-	-	F	Cadmium	Agriculture
		border to South Dakota border									Copper	Natural Sources
											Iron	Source Unknown
											Lead	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Zinc	



HUC: 10110204 Beaver Watershed: Little Missouri/Belle Fourche

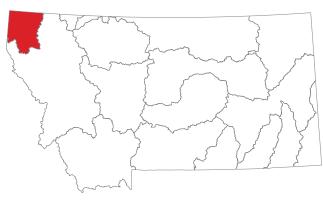
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class	Bene AqL A			Cause Name *	Source Name *
Little Missouri	MT39G002_010	LAMESTEER NATIONAL WILDLIFE REFUGE	5	73.6	ACRES	C-3	N -	-	Х	Other	Agriculture



Kootenai Sub-Major Basin

Columbia River Basin

USGS HUC	HUC NAME
17010101	Middle Kootenai
17010102	Fisher
17010103	Yaak
17010104	Lower Kootenai
17010105	Moyie
17010106	Elk



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HUC: 17010101 Middle Kootenai Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic _ Ag			Cause Name *	Source Name *
Kootenai	MT76D001_010	KOOTENAI RIVER, Libby Dam to Yaak River	. 5	44.64	MILES	B-1	N	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PI-566 NRCS Structures)
Kootenai	MT76D002_010	STANLEY CREEK, headwaters to mout (Lake Creek)	th 4A	6.3	MILES	B-1	N	F	F	N	Copper Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Zinc	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Streambank Modifications/destabilization Surface Mining
Kootenai	MT76D002_020	DRY CREEK, 1 mile upstream from Sta Highway 56 to mouth (Lake Creek)	te 4C	2.1	MILES	B-1	N	х	Х	N	Other flow regime alterations Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
Kootenai	MT76D002_030	KEELER CREEK, headwaters to Lake Creek	4C	9.15	MILES	B-1	N	F	Х	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)	4A	3.62	MILES	B-1	N	Х	N	X	Alteration in stream-side or littoral vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium Lead Zinc	
Kootenai	MT76D002_050	BIG CHERRY CREEK, Snowshoe Cree to Mouth (Libby Creek)	k 4A	13.07	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Cadmium Lead 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	d 4C	11.24	MILES	B-1	N	F	F	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Kootenai	MT76D002_062	LIBBY CREEK, from the Highway 2 brid to mouth (Kootenai River)	lge 4A	14.8	MILES	B-1	N	F	X	Х	Physical substrate habitat alterations Sedimentation/Siltation	Site Clearance (Land Development or Redevelopment) Streambank Modifications/destabilization
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	n 4A	17.57	MILES	B-1	N	F	F	N	Copper	Forest Roads (Road Construction and Use)

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 17010101 Middle Kootenai Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	4A	17.57	MILES	B-1	N	l F	F	N	Lead	Loss of Riparian Habitat
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Mill Tailings
											Sedimentation/Siltation	Mine Tailings
												Natural Sources
Bobtail Creek	MT76D002_080	BOBTAIL CREEK, headwaters to mouth (Kootenai River)	n 4A	11.53	MILES	B-1	N	I F	X	F	Other flow regime alterations	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Source Unknown
											Turbidity	
Kootenai	MT76D002_100	CRIPPLE HORSE CREEK, headwaters to mouth (Lake Koocanusa)	to 4C	12.62	MILES	B-1	N	Х	х	Х	Low flow alterations	Silviculture Activities
											Physical substrate habitat alterations	
Kootenai	MT76D003_010	LAKE KOOCANUSA	5	28874.5	ACRES	B-1	N	F	F	F	Other flow regime alterations	Dam or Impoundment
											Selenium	Sources Outside State Jurisdiction or Borders
Tobacco	MT76D004_010	TOBACCO RIVER, confluence of Grave Creek & Fortine Creek to mouth (Lake Koocanusa)	4A	14.21	MILES	B-1	N	F	F	F	Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Streambank Modifications/destabilization
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth (Grave Creek)	n 4A	33.46	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
											vegetative covers Excess Algal Growth	Channelization
											Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	Forest Roads (Road Construction and Use)
											Temperature, water	Grazing in Riparian or Shoreline Zones
												Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Activities
												Source Unknown
Tobacco	MT76D004_030	EDNA CREEK, headwaters to mouth (Fortine Creek)	4A	10.55	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Silviculture Harvesting
Tobacco	MT76D004_040	SWAMP CREEK, headwaters to mouth (Fortine Creek)	4A	11.94	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
											vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Irrigated Crop Production

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
* The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 17010101 Middle Kootenai Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Tobacco	MT76D004_040	SWAMP CREEK, headwaters to mouth (Fortine Creek)	4A	11.94	MILES	B-1	N	F	F	N		Silviculture Harvesting
Tobacco	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	4A	4.92	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Silviculture Harvesting
											Phosphorus (Total)	
											Sedimentation/Siltation	
Grave Creek	MT76D004_060	GRAVE CREEK, Foundation Creek to mouth (Fortine Creek)	4A	17.43	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use)
											Other flow regime alterations Sedimentation/Siltation	Silviculture Harvesting
Tobacco	MT76D004_070	THERRIAULT CREEK, headwaters to mouth (Tobacco River)	4A	9.71	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Tobacco	MT76D004_080	DEEP CREEK, headwaters to mouth (Fortine Creek)	4A	11.02	MILES	A-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Excess Algal Growth	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Tobacco	MT76D004_091	SINCLAIR CREEK, confluence of unnamed tributary, Lat -114.945 Long	4A	7.9	MILES	B-1	N	Х	Х	х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		48.908 to mouth (Tobacco River)										Highway/Road/Bridge Runoff (Non-construction Related)



HUC: 17010102 Fisher Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Fisher	MT76C001_010	FISHER RIVER, the Silver Butte/Pleasa Valley junction to mouth (Kootenai River		33.78	MILES	B-1	N	F	F	F	High Flow Regime	Channelization Streambank Modifications/destabilization
Fisher	MT76C001_020	WOLF CREEK, headwaters to mouth (Fisher River)	4A	39.26	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Temperature, water	Channelization Streambank Modifications/destabilization
Fisher	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Valley Fisher River)	4A	3.05	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Loss of Riparian Habitat Silviculture Activities Source Unknown



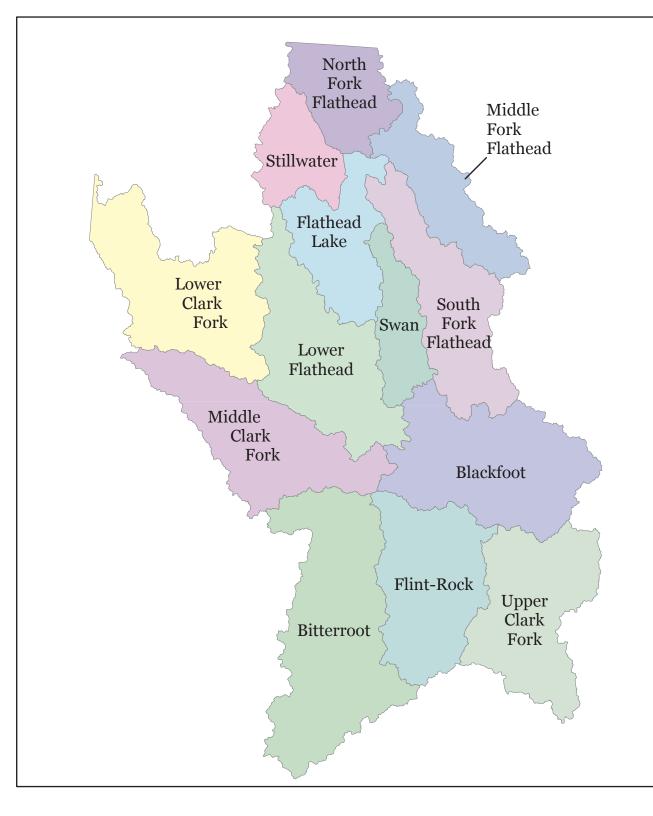
HUC: 17010103 Yaak Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Yaak	MT76B002_010	SEVENTEEN MILE CREEK, headwater to mouth (Yaak River)	s 4A	16.41	MILES	B-1	N	Х	Х	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Yaak	MT76B002_020	LAP CREEK, headwaters to mouth (Yaa River)	ak 4A	4.77	MILES	B-1	N	х	Х	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Yaak	MT76B002_080	SOUTH FORK YAAK RIVER, headwate to mouth (Yaak River)	ers 4A	12.81	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Yaak	MT76B002_100	EAST FORK YAAK RIVER, headwaters mouth (Yaak River)	to 4A	14.6	MILES	B-1	N	Х	X	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities Silviculture Harvesting Source Unknown



HUC: 17010104 Lower Kootenai Watershed: Kootenai

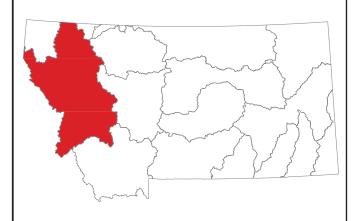
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	cial (DW	Jse / Rec	Cause Name *	Source Name *
Kootenai	MT76A001_010	KOOTENAI RIVER, confluence with Yaa River to Idaho border	ak 5	6.09	MILES	B-1	N	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PI-566 NRCS Structures)



Pend Oreille Sub-Major Basin

Columbia River Basin

USGS HUC	HUC NAME
17010201	Upper Clark Fork
17010202	Flint-Rock
17010203	Blackfoot
17010204	Middle Clark Fork
17010205	Bitterroot
17010207	Middle Fork Flathead
17010208	Flathead Lake
17010209	South Fork Flathead
17010210	Stillwater
17010211	Swan
17010212	Lower Flathead
17010206	North Fork Flathead
17010213	Lower Clark Fork



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HUC: 17010201 Upper Clark Fork **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U		Cause Name *	Source Name *
Clark Fork River	MT76G001_010	CLARK FORK RIVER, Little Blackfoot	4A	27.78	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Agriculture
		River to Flint Creek									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Cadmium	Irrigated Crop Production
											Copper	Mill Tailings
											Iron	Municipal Point Source Discharges
											Lead	
											Low flow alterations	
											Mercury	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Clark Fork River	MT76G001_030	CLARK FORK RIVER, Cottonwood Cre	eek 4A	14.94	MILES	C-1	N	F	-	N	Alteration in stream-side or littoral	Agriculture
		to Little Blackfoot River									vegetative covers Cadmium	Channelization
											Copper	Grazing in Riparian or Shoreline Zones
											Iron	Irrigated Crop Production
											Lead	Mill Tailings
											Low flow alterations	Mine Tailings
											Nitrogen (Total)	Municipal Point Source Discharges
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Zinc	
Clark Fork River	MT76G001_040	CLARK FORK RIVER, Warm Springs	4A	27.83	MILES	C-2	N	F	-	N	Alteration in stream-side or littoral	Agriculture
		Creek to Cottonwood Creek									vegetative covers Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Irrigated Crop Production
											Iron	Livestock (Grazing or Feeding Operations)
											Lead	Mill Tailings

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Clark Fork River	MT76G001_040	CLARK FORK RIVER, Warm Springs Creek to Cottonwood Creek	4A	27.83	MILES	C-2	N	F	-	N	Low flow alterations	Mine Tailings
		Creek to Cottonwood Creek									Nitrogen (Total)	Municipal (Urbanized High Density Area)
											Phosphorus (Total)	Municipal Point Source Discharges
											Sedimentation/Siltation	
Upper Clark Fork	MT76G002_011	WARM SPRINGS CREEK, headwaters to	o 4C	14.74	MILES	A-1	N	F	ı	F	Physical substrate habitat alterations	Channelization
		Meyers Dam, T5N R12W S25										Highway/Road/Bridge Runoff (Non-construction Related)
Upper Clark Fork	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork),	4A	17.22	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		T6N R9W S6									Arsenic	Irrigated Crop Production
											Cadmium	Mill Tailings
											Copper	
											Iron	
											Lead	
											Low flow alterations	
											Physical substrate habitat alterations	
											Zinc	
Upper Clark Fork	MT76G002_030	CABLE CREEK, headwaters to mouth	4A	6.36	MILES	B-1	N	F	F	F	Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
		(Warm Springs Creek)									Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	
Upper Clark Fork	MT76G002_040	STORM LAKE CREEK, headwaters to	4A	9.73	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Channelization
		mouth (Un-Named canal/Ditch)									vegetative covers Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Silviculture Harvesting
Upper Clark Fork	MT76G002_051	MILL CREEK, headwaters to section line	4A	11.01	MILES	B-1	N	F	F	F	Arsenic	Contaminated Sediments
		between Sec 27 and 28, T4N, R11W									Cadmium	Mill Tailings
											Copper	Mine Tailings
											Lead	
											Zinc	

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HUC: 17010201 Upper Clark Fork **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Upper Clark Fork	MT76G002_052	MILL CREEK, line between sections 27 28 T4N R11W to Mill-Willow Bypass	'- 4A	9.5	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral vegetative covers	Contaminated Sediments
		diversion									Arsenic	Irrigated Crop Production
											Cadmium	Mill Tailings
											Copper	
											Iron	
											Lead	
											Low flow alterations	
											Zinc	
Upper Clark Fork	MT76G002_061	WILLOW CREEK, headwaters to T4N	4A	6.13	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		R10W S30									vegetative covers Arsenic	Mill Tailings
											Cadmium	Natural Sources
											Copper	
											Iron	
											Lead	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Zinc	
Upper Clark Fork	MT76G002_062	WILLOW CREEK, T4N R10W S30 to	4A	7.12	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Agriculture
		mouth (Mill Creek), T4N R10W S11									vegetative covers Arsenic	Atmospheric Deposition - Toxics
											Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Mill Tailings
											Iron	
											Lead	
											Low flow alterations	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Zinc	



HUC: 17010201 Upper Clark Fork **Watershed:** Pend Oreille

1100. 17010201	Оррег Оштк г	OIK Water	i Silieu.	Cild	JI CINC							
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class	Be Aq	enefi L Ag	cial (DW	Jse / Rec	Cause Name *	Source Name *
Upper Clark Fork	MT76G002_072	LOST CREEK, south boundary of Lost Creek State Park to mouth (Clark Fork River)	4A	19.07	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic	Agriculture Contaminated Sediments
											Copper	Grazing in Riparian or Shoreline Zones
											Lead	Irrigated Crop Production
											Low flow alterations	Municipal Point Source Discharges
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Physical substrate habitat alterations	
											Sulfates	
Upper Clark Fork	MT76G002_080	MODESTY CREEK, headwaters to mou	ith 4A	14.72	MILES	B-1	N	F	N	N	Arsenic	Agriculture
		(Clark Fork River)									Cadmium	
											Copper	
											Lead	
											Low flow alterations	
Upper Clark Fork	MT76G002_090	RACETRACK CREEK, the national fore boundary to mouth (Clark Fork River)	st 4C	11.07	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture Irrigated Crop Production
Upper Clark Fork	MT76G002_100	DEMPSEY CREEK, the national forest	4A	13.44	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		boundary to mouth (Clark Fork River)									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	
											Sedimentation/Siltation	
Upper Clark Fork	MT76G002_110	TIN CUP JOE CREEK, Tin Cup Lake	4A	6.5	MILES	B-1	N	F	F	N	Low flow alterations	Agriculture
Opper Clark I Ork	W170G002_110	outlet to mouth (Clark Fork River)	40	0.5	WIILLS	D-1	IN	į	'	IN	Sedimentation/Siltation	Agriculture
											Sedimentation/Siltation	
Upper Clark Fork	MT76G002_120	MILL-WILLOW BYPASS, Mill and Willow Creek diversion to Silver Bow Creek	w 4A	4.2	MILES	B-1	N	F	N	F	Arsenic	Mill Tailings
		(below ponds)									Cadmium	
											Copper	
											Lead	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Upper Clark Fork	MT76G002_120	MILL-WILLOW BYPASS, Mill and Willow Creek diversion to Silver Bow Creek (below ponds)	v 4A	4.2	MILES	B-1	N	F	N	F	Zinc	
Upper Clark Fork	MT76G002_131	PETERSON CREEK, headwaters to Jac Creek	k 4A	6.27	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Copper	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
											Iron Lead	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Silviculture Activities
											Phosphorus (Total)	Silviculture Harvesting
											Sedimentation/Siltation	Source Unknown
											Total Kjehldahl Nitrogen (TKN)	
Upper Clark Fork	MT76G002_132	PETERSON CREEK, Jack Creek to	4A	7.1	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		mouth (Clark Fork River)									vegetative covers Iron	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Temperature, water	
Upper Clark Fork	MT76G002_140	ANTELOPE CREEK, headwaters to	4A	6.08	MILES	B-1	N	F	F	N	Low flow alterations	Agriculture
		mouth (Gardner Ditch)									Sedimentation/Siltation	
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, Blacktail Creek t	o 4A	29.18	MILES	ı	N	F	N	N	Arsenic	Grazing in Riparian or Shoreline Zones
		Warm Springs Creek (Clark Fork River)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Livestock (Grazing or Feeding Operations)
											Lead	Municipal Point Source Discharges
											Mercury	Site Clearance (Land Development or Redevelopment)
											Nitrates	redevelopment)

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, Blacktail Creek		29.18	MILES	1	N	F	N	N	Nitrogen (Total)	
		Warm Springs Creek (Clark Fork River)									Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Zinc	
Upper Clark Fork	MT76G003_030	GERMAN GULCH, headwaters to mout	h 4A	8.24	MILES	B-1	N	F	N	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
		(Silver Bow Creek)									Cyanide	Placer Mining
											Selenium	
Upper Clark Fork	MT76G003_031	BEEFSTRAIGHT CREEK, Minnesota Gulch to mouth (German Gulch)	4A	3.5	MILES	B-1	N	Х	х	Х	Cyanide	Mine Tailings
Upper Clark Fork	MT76G003_040	BROWNS GULCH CREEK, headwaters	4A	19.31	MILES	B-1	N	Χ	Χ	X	Sedimentation/Siltation	Agriculture
		to the mouth (Silver Bow Creek)										Silviculture Harvesting
Little Blackfoot	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Cree	ek 4A	26.5	MILES	B-1	N	х	N	N	Alteration in stream-side or littoral	Agriculture
		to mouth (Clark Fork River)									vegetative covers Aluminum	Channelization
											Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Livestock (Grazing or Feeding Operations)
											Low flow alterations	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Phosphorus (Total)	Rangeland Grazing
											Sedimentation/Siltation	Residential Districts
Little Blackfoot	MT76G004_020	LITTLE BLACKFOOT RIVER, the	4A	22.54	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Channelization
		headwaters to Dog Creek									vegetative covers Aluminum	Crop Production (Crop Land or Dry Land)
											Arsenic	Highway/Road/Bridge Runoff (Non-construction Related)
											Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Livestock (Grazing or Feeding Operations)
											Cyanide	
											Lead	
											Sedimentation/Siltation	



HUC: 17010201 Upper Clark Fork **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Little Blackfoot	MT76G004_032	SPOTTED DOG CREEK, forest bounda to mouth (Little Blackfoot River)	ary 4A	10.67	MILES	B-1	N	Х	F	N	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Little Blackfoot	MT76G004_040	ELLISTON CREEK, headwaters to mou	ıth 4A	4.95	MILES	B-1	N	х	Х	Х	Alteration in stream-side or littoral	Channelization
		(Little Blackfoot River)									vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat
												Silviculture Harvesting
												Site Clearance (Land Development or Redevelopment)
Little Blackfoot	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	4A	5.35	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		папп Стеек									Aluminum	Impacts from Abandoned Mine Lands (Inactive)
											Arsenic	Mine Tailings
											Beryllium	
											Cadmium	
											Copper	
											Lead	
											Sedimentation/Siltation	
											Zinc	
Little Blackfoot	MT76G004_052	TELEGRAPH CREEK, Hahn Creek to	4A	2.51	MILES	B-1	N	Х	N	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		mouth (Little Blackfoot River)									Cadmium	
											Copper	
											Lead	
											Mercury	
											Zinc	
Little Blackfoot	MT76G004_054	O'KEEFE CREEK, headwaters to moutl	h 4A	2	MILES	B-1	N	х	1	Х	Cadmium	Impacts from Abandoned Mine Lands (Inactive)
		(Telegraph Creek)									Copper	
											Zinc	
Little Blackfoot	MT76G004_055	SALLY ANN CREEK, headwaters to	4A	1.6	MILES	B-1	N	Х	I	Х	Cadmium	Impacts from Abandoned Mine Lands (Inactive)

AqL=Aquatic Life; Ag=Agriculture; DW=Drinking Water; Rec=Primary Contact Recreation

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Little Blackfoot	MT76G004_055	SALLY ANN CREEK, headwaters to	4A	1.6	MILES	B-1	N	Х	I	Х	Copper	Mine Tailings
		mouth (O'Keefe Creek)									Zinc	
Little Blackfoot	MT76G004_060	MONARCH CREEK, headwaters to mo (Ontario Creek)	uth 4A	4.68	MILES	B-1	N	Х	F	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		(Ontario Creek)									Copper	Mine Tailings
											Lead	
											Mercury	
											рН	
Little Blackfoot	MT76G004_071	DOG CREEK, headwaters to Meadow	4A	4.33	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Channelization
		Creek									vegetative covers Aluminum	Impacts from Abandoned Mine Lands (Inactive)
											Arsenic	Livestock (Grazing or Feeding Operations)
											Cadmium	Mine Tailings
											Copper	Rangeland Grazing
											Lead	Silviculture Harvesting
											Sedimentation/Siltation	
											Zinc	
Little Blackfoot	MT76G004_072	DOG CREEK, Meadow Creek to mouth	4A	13.63	MILES	B-1	N	Х	I	N	Alteration in stream-side or littoral	Agriculture
		(Little Blackfoot River)									vegetative covers Aluminum	Channelization
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Livestock (Grazing or Feeding Operations)
											Phosphorus (Total)	Mine Tailings
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Rangeland Grazing
												Rural (Residential Areas)
Little Blackfoot	MT76G004_079	AMERICAN GULCH CREEK, headwate	ers 4A	2.7	MILES	B-1	Х	Х	N	Х	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
		to mouth (Dog Creek)										Mine Tailings
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to	4A	11.45	MILES	B-1	N	Х	х	N	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		mouth (Little Blackfoot River)									vegetative covers Low flow alterations	Dredge Mining

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to	4A	11.45	MILES	B-1	N	Χ	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Flow Alterations from Water Diversions
		mouth (Little Blackfoot River)									Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												Irrigated Crop Production
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Little Blackfoot	MT76G004_091	CARPENTER CREEK, headwaters to Basin Creek	4C	3.67	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	
											Thysical substrate habitat anerations	
Little Blackfoot	MT76G004_092	CARPENTER CREEK, Basin Creek to mouth (Little Blackfoot River)	4A	4.87	MILES	B-1	N	Χ	Х	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
		,									Other anthropogenic substrate alterations	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	Livestock (Grazing or Feeding Operations)
											Physical substrate habitat alterations	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Little Blackfoot	MT76G004_100	WOODSON GULCH, headwaters to mouth (Carpenter Creek), T11N R7W S2	4C	.84	MILES	B-1	N	F	F	N	Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
		modal (Galponio, Grootly, Time in Ga										Placer Mining
Little Blackfoot	MT76G004_112	THREEMILE CREEK, Quigley Ranch	4A	7.46	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		Reservoir to mouth (Little Blackfoot Rive	er)								vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Highway/Road/Bridge Runoff (Non-construction Related)
											Phosphorus (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Managed Pasture Grazing
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Rangeland Grazing
Little Blackfoot	MT76G004_120	TROUT CREEK, headwaters to mouth	4A	11.5	MILES	B-1	N	Х	Х	X	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		(Little Blackfoot River)										Impacts from Abandoned Mine Lands (Inactive)
												Silviculture Harvesting
Little Blackfoot	MT76G004_130	ONTARIO CREEK, headwaters to moutl (Little Blackfoot River)	h 4A	6.4	MILES	B-1	N	Х	F	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Little Blackfoot	MT76G004_130	ONTARIO CREEK, headwaters to mou	ıth 4A	6.4	MILES	B-1	N	Χ	F	Х	Cadmium	
		(Little Blackloot River)									Copper	
											Lead	
											Zinc	
Upper Clark Fork	MT76G005_071	DUNKLEBERG CREEK, headwaters t T9N R12W S2 SW	o 4A	3.91	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones Mine Tailings
											Cadmium	
											Copper	
											Iron	
											Lead	
											Zinc	
Upper Clark Fork	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S		4.05	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Un-named Canal), T10N R11W S30	1								vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	Rangeland Grazing
											Copper	Streambank Modifications/destabilization
											Iron	
											Lead	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Zinc	
Upper Clark Fork	MT76G005_081	HOOVER CREEK, headwaters to Mille	r 4A	5.17	MILES	B-1	N	Х	Х	N	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
		Lake									Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction
											Turbidity	Related) Streambank Modifications/destabilization
Upper Clark Fork	MT76G005_082	HOOVER CREEK, Miller Lake to moutl	h 4A	7.05	MILES	B-1	N	Х	X	N	Low flow alterations	Agriculture
	_	(Clark Fork River)									Nitrogen (Total)	Dam Construction (Other than Upstream Flood
											Phosphorus (Total)	Control Projects) Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Highway/Road/Bridge Runoff (Non-construction Related)

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HUC: 17010201 Upper Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW	Jse Rec	Cause Name *	Source Name *
Upper Clark Fork	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	4A	7.05	MILES	B-1	N	X	Х	N	Sedimentation/Siltation	Livestock (Grazing or Feeding Operations) Streambank Modifications/destabilization
Upper Clark Fork	MT76G005_091	GOLD CREEK, headwaters to National Forest boundary	4A	8.1	MILES	B-1	N	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)	4A	7.77	MILES	B-1	N	F	F	N	Iron Lead	Agriculture Grazing in Riparian or Shoreline Zones
											Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	Irrigated Crop Production
Upper Clark Fork	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	4A	12.5	MILES	B-1	X	F	F	N	Sedimentation/Siltation	Streambank Modifications/destabilization
Upper Clark Fork	MT76G005_111	WARM SPRINGS CREEK, headwaters line between R9W and R10W	to 4A	9.54	MILES	B-1	N	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 (Cla Fork River)	4A rk	6.28	MILES	B-1	N	F	F	N	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	4A	.8	MILES	B-1	N	X	N	Х	Aluminum Arsenic Cadmium Copper Iron Lead	Impacts from Abandoned Mine Lands (Inactive)
											Mercury	
											Zinc	
											pH	



HUC: 17010202 Flint-Rock **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefi L Ag			Cause Name *	Source Name *
Clark Fork River	MT76E001_010	CLARK FORK RIVER, Flint Creek to	4A	50.93	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Channelization
		Blackfoot River									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Cadmium	Mill Tailings
											Chlorophyll-a	Mine Tailings
											Copper	Municipal Point Source Discharges
											Iron	
											Lead	
											Mercury	
											Nitrogen (Total)	
											Phosphorus (Total)	
											Zinc	
Rock	MT76E002_020	EAST FORK ROCK CREEK, East Fork	4A	9.74	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Agriculture
		Reservoir to mouth (Middle Fork Rock Creek)									vegetative covers Chlorophyll-a	Forest Roads (Road Construction and Use)
											Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	Source Unknown
											Temperature, water	
Rock	MT76E002_030	WEST FORK ROCK CREEK, headwate	rs 4A	25.15	MILES	B-1	N	Х	F	х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		to mouth (Rock Creek)									Sedimentation/Siltation	Placer Mining
												Subsurface (Hardrock) Mining
Rock	MT76E002_040	UPPER WILLOW CREEK, headwaters	o 4C	21.7	MILES	B-1	N	Х	X	X	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Rock Creek)									vegetative covers Low flow alterations	Irrigated Crop Production
											Physical substrate habitat alterations	
Rock	MT76E002_050	BREWSTER CREEK, East Fork to mou	th 4C	4.57	MILES	B-1	N	Х	Х	F	Fish-Passage Barrier	Irrigated Crop Production
	52.002_000	(Rock Creek)				- 1		^	^		Low flow alterations	Source Unknown
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK,	4A	2.93	MILES	B-1	N	Х	Χ	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)

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HUC: 17010202 Flint-Rock Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek),	4A	2.93	MILES	B-1	N	Х	Х	N	vegetative covers	Grazing in Riparian or Shoreline Zones
		T6N R15W S22									Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Rock	MT76E002_061	ANTELOPE CREEK, headwaters to mouth (Rock Creek)	4A	6.9	MILES	B-1	N	Χ	Х	Х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		modif (Rock Cleek)										Unspecified Unpaved Road or Trail
Rock	MT76E002_070	QUARTZ GULCH, headwaters to mouth (Eureka Gulch)	n 4A	3.43	MILES	B-1	N	Х	F	Х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(Euleka Gulcii)									Aluminum	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Placer Mining
											Sedimentation/Siltation	Silviculture Activities
Rock	MT76E002_080	BASIN GULCH, headwaters to mouth	4A	1.45	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Impacts from Abandoned Mine Lands (Inactive)
		(Eureka Gulch)									vegetative covers Arsenic	Placer Mining
Rock	MT76E002_090	EUREKA GULCH, confluence of Quartz	4A	1.93	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Natural Sources
		Gulch and Basin Gulch to mouth (Un- Named Ditch)									vegetative covers Arsenic	Open Pit Mining
											Mercury	Placer Mining
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Rock	MT76E002_100	SCOTCHMAN GULCH, headwaters to	4A	6.88	MILES	B-1	N	Х	F	N	Aluminum	Agriculture
		mouth (Upper Willow Creek)									Nitrogen (Total)	Forest Roads (Road Construction and Use)
											Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
												Placer Mining
												Rangeland Grazing
												Silviculture Harvesting
Rock	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	4A	6.33	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

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HUC: 17010202 Flint-Rock Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Rock	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	4A	6.33	MILES	B-1	N	Х	N	N	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
		(Nock Oreek)									Copper	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen (Total)	
											Sedimentation/Siltation	
Rock	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	4A	2.99	MILES	B-1	N	Х	F	N	Aluminum	Forest Roads (Road Construction and Use)
		(Nock Oreek)									Iron	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus (Total)	Rangeland Grazing
											Sedimentation/Siltation	Silviculture Activities
Rock	MT76E002_160	MINERS GULCH, headwaters to mouth	1 4A	5.42	MILES	B-1	N	Х	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		(Upper Willow Creek), T8N R15W S23										Impacts from Abandoned Mine Lands (Inactive)
												Silviculture Activities
												Source Unknown
Flint	MT76E003_011	FLINT CREEK, Georgetown Lake to	4A	28.09	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Agriculture
		confluence with Boulder Creek									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Low flow alterations	
											Mercury	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Flint	MT76E003_012	FLINT CREEK, Boulder Creek to mouth	n 4A	16.92	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Agriculture
		(Clark Fork River)									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Iron	Streambank Modifications/destabilization
											Lead	



HUC: 17010202 Flint-Rock Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Flint	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	4A	16.92	MILES	B-1	N	F	N	F	Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Turbidity	
Flint	MT76E003_020	DOUGLAS CREEK, confluence of Midd and South Forks to mouth (Flint Creek), T9N R13W S10		7.07	MILES	B-1	N	F	х	F	Nitrogen, Nitrate Phosphorus (Total) 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)	4A	3.13	MILES	B-1	N	X	N	X	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Zinc	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Flint	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	o 4A	11.21	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Lead Mercury	Agriculture Grazing in Riparian or Shoreline Zones Mill Tailings
Flint	MT76E003_050	SOUTH FORK LOWER WILLOW CREEK, headwaters to mouth (Lower Willow Creek Reservoir)	4A	13.34	MILES	B-1	N	F	N	X	Antimony Arsenic Cadmium Copper Lead Mercury	Mill Tailings Mine Tailings
Flint	MT76E003_060	BOULDER CREEK, headwaters to mou (Flint Creek)	th 4A	14.23	MILES	B-1	N	F	N	X	Arsenic Lead Mercury Physical substrate habitat alterations Zinc	Impacts from Abandoned Mine Lands (Inactive) Silviculture Harvesting

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HUC: 17010202 Flint-Rock **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Flint	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	4A	8.87	MILES	B-1	N	Х	I	N	Chlorophyll-a	Impacts from Abandoned Mine Lands (Inactive)
		(Fillit Cleek)									Iron	Irrigated Crop Production
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Managed Pasture Grazing
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Flint	MT76E003_090	PRINCETON GULCH, headwaters to	4A	3.89	MILES	B-1	N	F	х	Х	Nitrates	Placer Mining
		mouth (Boulder Creek)									Physical substrate habitat alterations	
Flint	MT76E003_100	DOUGLAS CREEK, headwaters to when	e 4A	3.76	MILES	B-1	N	N	N	1	Antimony	Impacts from Abandoned Mine Lands (Inactive)
		stream ends, T7N R14W S25									Arsenic	Silviculture Activities
											Cadmium	Streambank Modifications/destabilization
											Copper	
											Iron	
											Lead	
											Mercury	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Zinc	
Flint	MT76E003_110	SMART CREEK, headwaters to mouth	4A	11.6	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Freshettes or Major Flooding
		(Flint Creek), T9N R13W S21									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Iron	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen (Total)	Silviculture Harvesting
											Phosphorus (Total)	Watershed Runoff following Forest Fire
											Sedimentation/Siltation	
Flint	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	4A	1.8	MILES	B-1	N	F	N	х	Alteration in stream-side or littoral	Channelization
		1714 IX 144V 929									vegetative covers Arsenic	Habitat Modification - other than Hydromodificat
											Cadmium	Impacts from Abandoned Mine Lands (Inactive)

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HUC: 17010202 Flint-Rock Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Flint	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	4A	1.8	MILES	B-1	N	F	N	Х	Copper	
		17N K14W 525									Fish-Passage Barrier	
											Lead	
											Zinc	
Flint	MT76E003_140	ROYAL GOLD CREEK, headwaters to mouth (Boulder Creek)	4A	3.3	MILES	B-1	N	Х	Х	Х	Copper	Impacts from Abandoned Mine Lands (Inactive)
		mouth (Boulder Creek)									Lead	
Clark Fork - Drummond	MT76E004_010	WALLACE CREEK, headwaters to mout (Clark Fork River)	h 4A	4.32	MILES	B-1	N	F	F	X	Copper	Impacts from Abandoned Mine Lands (Inactive)
Clark Fork - Drummond	MT76E004_020	CRAMER CREEK, headwaters to mouth	4A	11.98	MILES	B-1	N	F	N	N	Aluminum	Highway/Road/Bridge Runoff (Non-construction
		(Clark Fork River)									Cause Unknown	Related) Impacts from Abandoned Mine Lands (Inactive)
											Lead	Source Unknown
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_030	TENMILE CREEK, headwaters to mouth	4A	4.92	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Bear Creek-Clark Fork River)									vegetative covers Phosphorus (Total)	Silviculture Activities
											Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	e 4C	11.96	MILES	B-1	N	F	F	F	Physical substrate habitat alterations	Streambank Modifications/destabilization
Clark Fork - Drummond	MT76E004_042	HARVEY CREEK, Grouse Gulch to mou	th 4C	4.01	MILES	B-1	N	F	F	N	Low flow alterations	Agriculture
		(Clark Fork River)									Physical substrate habitat alterations	Streambank Modifications/destabilization
Clark Fork - Drummond	MT76E004_050	MULKEY CREEK, headwaters to mouth	4A	5.99	MILES	B-1	N	X	х	N	Sedimentation/Siltation	Low Water Crossing
		(Clark Fork River)										Source Unknown
Clark Fork - Drummond	MT76E004_060	RATTLER GULCH, headwaters to mouth	n 4A	8.08	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		(Clark Fork River), T11N R13W S22									vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Silviculture Harvesting
											Phosphorus (Total)	
											Sedimentation/Siltation	

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HUC: 17010202 Flint-Rock **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U		Cause Name *	Source Name *
Clark Fork - Drummond	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clar Fork River near Bearmouth)	4A k	5.12	MILES	B-1	N	F	F	N	Chlorophyll-a Low flow alterations	Placer Mining Silviculture Harvesting
											Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Subsurface (Hardrock) Mining
Clark Fork - Drummond	MT76E004_080	ANTELOPE CREEK, headwaters to mouth (Clark Fork River)	4C	8.45	MILES	B-1	N	Х	Х	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat
												Streambank Modifications/destabilization



HUC: 17010203 Blackfoot Watershed: Pend Oreille

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be Aq	enefic L Ag	cial U DW	lse Rec	Cause Name *	Source Name *
Blackfoot Headwaters	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	4A	16.11	MILES	B-1	N	N	N	F	Cadmium	Subsurface (Hardrock) Mining
		Landers Fork									Copper	Surface Mining
											Iron	
											Lead	
											Manganese	
											Zinc	
Blackfoot Headwaters	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	4A	48	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
		Nevada Creek									Aluminum	Silviculture Harvesting
											Cadmium	Subsurface (Hardrock) Mining
											Iron	Surface Mining
											Sedimentation/Siltation	
											Zinc	
Middle Blackfoot	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to	4A	21.44	MILES	B-1	N	F	F	F	Nitrogen (Total)	Irrigated Crop Production
		Monture Creek									Phosphorus (Total)	Source Unknown
											Sedimentation/Siltation	
											Temperature, water	
Middle Blackfoot	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	4A	23.53	MILES	B-1	N	F	F	F	Nitrogen (Total)	Flow Alterations from Water Diversions
		Delitionit Creek									Phosphorus (Total)	Source Unknown
											Sedimentation/Siltation	Streambank Modifications/destabilization
											Temperature, water	
Blackfoot Headwaters	MT76F002_020	WILLOW CREEK, Sandbar Creek to	4A	2.94	MILES	B-1	N	F	N	F	Other flow regime alterations	Highway/Road/Bridge Runoff (Non-construction
		mouth (Blackfoot River), T15N R7W S3	4								Sedimentation/Siltation	Related) Streambank Modifications/destabilization
Blackfoot Headwaters	MT76F002_030	POORMAN CREEK, headwaters to mo	uth 4A	14.31	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Construction Stormwater Discharge (Permitted)
		(Blackfoot River)									vegetative covers Cadmium	Flow Alterations from Water Diversions
											Copper	Forest Roads (Road Construction and Use)
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Low flow alterations	Silviculture Activities

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Blackfoot Headwaters	MT76F002_030	POORMAN CREEK, headwaters to mou (Blackfoot River)	th 4A	14.31	MILES	B-1	N	F	F	N	Sedimentation/Siltation	
Blackfoot Headwaters	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek mouth (Blackfoot River)	to 4A	.52	MILES	B-1	N	F	N	F	Cadmium	Acid Mine Drainage
		moun (Blackloot River)									Copper	Mine Tailings
											Iron	Subsurface (Hardrock) Mining
											Lead	Surface Mining
											Manganese	
											Zinc	
Blackfoot Headwaters	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	4A	1.67	MILES	B-1	N	F	N	F	Aluminum	Acid Mine Drainage
		(Willow Creek)									Copper	Highway/Road/Bridge Runoff (Non-construction
											Iron	Related) Impacts from Abandoned Mine Lands (Inactive)
											Manganese	Mine Tailings
											Sedimentation/Siltation	Subsurface (Hardrock) Mining
												Surface Mining
Blackfoot Headwaters	MT76F002_070	ARRASTRA CREEK, headwaters to mouth (Blackfoot River)	4A	12.86	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Agriculture
		mount (Blackiout River)										Highway/Road/Bridge Runoff (Non-construction Related) Streambank Modifications/destabilization
Blackfoot Headwaters	MT76F003_010	MIKE HORSE CREEK, headwaters to	4A	.69	MILES	B-1	N	Х	N	Х	Aluminum	Acid Mine Drainage
		mouth (Beartrap Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Mine Tailings
											Iron	
											Lead	
											Manganese	
											Zinc	
Nevada Creek	MT76F003_011	NEVADA CREEK, headwaters to Nevad	a 4A	19.84	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		Lake									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Placer Mining
												Streambank Modifications/destabilization

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Nevada Creek	MT76F003_011	NEVADA CREEK, headwaters to Nevad	a 4A	19.84	MILES	B-1	N	F	F	N	Physical substrate habitat alterations	
		Lake									Solids (Suspended/Bedload)	
											Temperature, water	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_012	NEVADA CREEK, Nevada Lake to mout (Blackfoot River)	h 4A	27.95	MILES	B-1	N	F	F	N	Low flow alterations	Agriculture
		(Diackloot Niver)									Nitrogen (Total)	Streambank Modifications/destabilization
											Phosphorus (Total)	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Temperature, water	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_021	JEFFERSON CREEK, headwaters to 1 mile above confluence with Madison	4A	3.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Channelization
		Gulch									Sedimentation/Siltation	Placer Mining
												Rangeland Grazing
												Streambank Modifications/destabilization
Nevada Creek	MT76F003_022	JEFFERSON CREEK, 1 mile above Madison Gulch to mouth (Nevada Creek	4A	3.39	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Channelization
		iviadisori Guicii to moutii (Nevada Creek	,								Aluminum	Dredge Mining
											Iron	Grazing in Riparian or Shoreline Zones
											Low flow alterations	Irrigated Crop Production
											Nitrogen (Total)	Source Unknown
											Phosphorus (Total)	Streambank Modifications/destabilization
											Sedimentation/Siltation	
											Solids (Suspended/Bedload)	
Nevada Creek	MT76F003_030	GALLAGHER CREEK, headwaters to	4A	7.34	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		mouth (Nevada Creek)									vegetative covers Low flow alterations	Rangeland Grazing
											Nitrogen (Total)	
											Phosphorus (Total)	

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HUC: 17010203 Blackfoot **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Nevada Creek	MT76F003_030	GALLAGHER CREEK, headwaters to	4A	7.34	MILES	B-1	N	F	F	N	Sedimentation/Siltation	
		mouth (Nevada Creek)									Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_040	BRAZIEL CREEK, headwaters to mouth (Nevada Creek)	4A	3.95	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Highway/Road/Bridge Runoff (Non-construction Related) Rangeland Grazing
											Phosphorus (Total)	Silviculture Activities
											Sedimentation/Siltation	
Nevada Creek	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek T13N R11W S18	4A x),	2.1	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
											Nitrogen (Total)	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Nevada Creek	MT76F003_060	BLACK BEAR CREEK, headwaters to	4A	7.67	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		mouth (Bear Creek), T12N R12W S22									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Managed Pasture Grazing
											Sedimentation/Siltation	Silviculture Harvesting
											Solids (Suspended/Bedload)	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_071	WASHINGTON CREEK, headwaters to	4A	5.84	MILES	B-1	N	F	X	N	Low flow alterations	Dredge Mining
		Cow Gulch									Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	
Nevada Creek	MT76F003_072	WASHINGTON CREEK, Cow Gulch to	4A	4.44	MILES	B-1	N	F	Х	N	Iron	Agriculture
		mouth (Nevada Creek)									Low flow alterations	Highway/Road/Bridge Runoff (Non-construction
											Sedimentation/Siltation	Related) Impacts from Abandoned Mine Lands (Inactive)
												Streambank Modifications/destabilization
Nevada Creek	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	4A	13.02	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Nevada Creek	MT76F003_081	DOUGLAS CREEK, headwaters to	4A	13.02	MILES	B-1	N	F	N	N	Arsenic	Grazing in Riparian or Shoreline Zones
		Murray Creek									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)	4A	10.91	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers	Flow Alterations from Water Diversions
		modifi (Nevada-Colloffwood Creeks)									Arsenic	Grazing in Riparian or Shoreline Zones
											Iron	Irrigated Crop Production
											Low flow alterations	Loss of Riparian Habitat
											Nitrogen (Total)	Rangeland Grazing
											Phosphorus (Total)	Source Unknown
											Sedimentation/Siltation	
											Temperature, water	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_090	COTTONWOOD CREEK, South Fork	4A	6.77	MILES	B-1	N	F	Х	N	Low flow alterations	Agriculture
		Cottonwood Creek to mouth (Douglas Creek)									Sedimentation/Siltation	
											Temperature, water	
Nevada Creek	MT76F003_100	NEVADA SPRING CREEK, headwaters	to 4A	5.78	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Nevada Creek)									vegetative covers Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification
Nevada Creek	MT76F003_120	MURRAY CREEK, headwaters to mouth	4A	8.83	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Flow Alterations from Water Diversions
		(Douglas Creek), T12N R12W S6									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Chlorophyll-a	Irrigated Crop Production
											Low flow alterations	Potash Mining

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Nevada Creek	MT76F003_120	MURRAY CREEK, headwaters to mouth	n 4A	8.83	MILES	B-1	N	F	N	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
		(Douglas Creek), T12N R12W S6									Nitrogen (Total)	Silviculture Activities
											Phosphorus (Total)	Source Unknown
											Sedimentation/Siltation	Streambank Modifications/destabilization
											Temperature, water	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_130	BUFFALO GULCH, headwaters to mout	th 4A	6.36	MILES	B-1	N	Х	Х	Х	Physical substrate habitat alterations	Forest Roads (Road Construction and Use)
		(Nevada Creek)									Sedimentation/Siltation	Livestock (Grazing or Feeding Operations)
												Silviculture Activities
Middle Blackfoot	MT76F004_010	FRAZIER CREEK, headwaters to mouth	n 4A	4.44	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Flow Alterations from Water Diversions
		(Blackfoot River), T14N R12W S28									vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Hydrostructure Impacts on Fish Passage
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	
											Total Kjehldahl Nitrogen (TKN)	
Middle Blackfoot	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	4A	12.05	MILES	B-1	N	F	F	F	Sedimentation/Siltation	
Middle Blackfoot	MT76F004_050	WALES CREEK, reservoir outlet to mou	ith 4A	1.94	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Blackfoot River)									vegetative covers Chlorophyll-a	Irrigated Crop Production
											Low flow alterations	Rangeland Grazing
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Upstream Impoundments (e.g., PI-566 NRCS Structures)
											Nitrogen (Total)	Situation (
											Phosphorus (Total)	
											Sedimentation/Siltation	
Middle Blackfoot	MT76F004_060	WARD CREEK, headwaters to Browns	4A	10.38	MILES	B-1	N	F	F	F	Physical substrate habitat alterations	Agriculture
		Lake									Sedimentation/Siltation	Silviculture Activities
												Unspecified Unpaved Road or Trail

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HUC: 17010203 Blackfoot **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Middle Blackfoot	MT76F004_070	WARREN CREEK, headwaters to mout	h 4A	14.7	MILES	B-1	N	F	F	N	Fish-Passage Barrier	Agriculture
		(Blackfoot River)									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	N	F	F	N	Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier	Grazing in Riparian or Shoreline Zones 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	11.61	MILES	B-1	N	F	X	F	Alteration in stream-side or littoral vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
											Sedimentation/Siltation	Rangeland Grazing
												Silviculture Harvesting
Middle Blackfoot	MT76F004_100	MONTURE CREEK, headwaters to mou (Blackfoot River)	uth 4A	30.27	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Middle Blackfoot	MT76F004_110	KLEINSCHMIDT CREEK, Ward Creek to mouth (Rock Creek)	to 4A	4.67	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow
											Sedimentation/Siltation	Regulation/modification Managed Pasture Grazing
											Temperature, water	Source Unknown
Middle Blackfoot	MT76F005_020	RICHMOND CREEK, headwaters to mouth (Lake Alva)	4A	4.02	MILES	B-1	N	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	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		(00010) 24110)										Silviculture Harvesting
Middle Blackfoot	MT76F005_040	WEST FORK CLEARWATER RIVER,	4A	15.14	MILES	B-1	N	F	F	N	Nitrogen (Total)	
		headwaters to mouth (Clearwater River)								Phosphorus (Total)	
											Sedimentation/Siltation	

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefi L Ag			Cause Name *	Source Name *
Middle Blackfoot	MT76F005_060	BLANCHARD CREEK, North Fork to	4A	2.36	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		mouth (Clearwater River)									vegetative covers Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Highway/Road/Bridge Runoff (Non-construction Related)
Lower Blackfoot	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	4A	21.57	MILES	B-1	N	Х	F	N	Nitrogen (Total)	Flow Alterations from Water Diversions
		(Diackloot River)									Phosphorus (Total)	Livestock (Grazing or Feeding Operations)
											Physical substrate habitat alterations	Natural Sources
											Solids (Suspended/Bedload)	On-site Treatment Systems (Septic Systems and
											Temperature, water	Similar Decentralized Systems) Rangeland Grazing
												Streambank Modifications/destabilization
Lower Blackfoot	MT76F006_020	WEST FORK ASHBY CREEK, headwaters to mouth (Ashby Creek)	4A	3.1	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		neadwaters to mouth (Ashby Greek)									Phosphorus (Total)	Livestock (Grazing or Feeding Operations)
											Sedimentation/Siltation	Natural Sources
												Silviculture Activities
Lower Blackfoot	MT76F006_031	ELK CREEK, headwaters to Stinkwater	r 4A	8.5	MILES	B-1	N	Х	F	N	Nitrogen, Nitrate	Forest Roads (Road Construction and Use)
		Cleek									Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Livestock (Grazing or Feeding Operations)
											Sedimentation/Siltation	Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization
Lower Blackfoot	MT76F006_032	ELK CREEK, Stinkwater Creek to mout	th 4A	5.59	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Blackfoot River)									vegetative covers Sedimentation/Siltation	Streambank Modifications/destabilization
											Temperature, water	
Lower Blackfoot	MT76F006_040	KENO CREEK, headwaters to mouth (I	Elk 4A	2.87	MILES	B-1	N	F	Х	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		Creek)										Silviculture Harvesting
Lower Blackfoot	MT76F006_050	EAST FORK ASHBY CREEK, headward to mouth (Ashby Creek)	ters 4A	3.9	MILES	B-1	N	Х	х	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)

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HUC: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic Ag			Cause Name *	Source Name *
Lower Blackfoot	MT76F006_050	EAST FORK ASHBY CREEK, headwate to mouth (Ashby Creek)	ers 4A	3.9	MILES	B-1	N	Х	Х	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Silviculture Activities
Lower Blackfoot	MT76F006_060	CAMAS CREEK, 1 mile above mouth to	4A	1.63	MILES	B-1	N	Х	Х	N	Low flow alterations	Grazing in Riparian or Shoreline Zones
		mouth (Union Creek)									Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	Natural Sources
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Upstream Source
Lower Blackfoot	MT76F006_070	BELMONT CREEK, headwaters to mou	th 4A	10.6	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		(Blackfoot River)										Grazing in Riparian or Shoreline Zones
Lower Blackfoot	MT76F006_090	WASHOE CREEK, Headwater to mouth	4A	6.12	MILES	B-1	N	Х	Х	N	Chlorophyll-a	Livestock (Grazing or Feeding Operations)
		(Union Creek)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
											Nitrogen (Total)	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Phosphorus (Total)	Open Pit Mining
											Sedimentation/Siltation	Silviculture Harvesting
												Source Unknown
Nevada Creek	MT76F007_020	NEVADA LAKE	4A	350.9	ACRES	B-1	N	F	F	N	Nitrogen (Total)	Source Unknown
											Oxygen, Dissolved	Upstream/Dowstream Source
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Total Kjehldahl Nitrogen (TKN)	



HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Clark Fork River	MT76M001_010	CLARK FORK RIVER, Fish Creek to	4A	60.36	MILES	B-1	N	F	F	N	Copper	Mill Tailings
		Flathead River									Iron	Mine Tailings
											Lead	Municipal Point Source Discharges
											Nitrogen (Total)	
											Phosphorus (Total)	
Clark Fork River	MT76M001_020	CLARK FORK RIVER, Rattlesnake Cree to Fish Creek	k 4A	52.6	MILES	B-1	N	F	F	N	Chlorophyll-a	Industrial Point Source Discharge
		to fish Greek									Copper	Mill Tailings
											Iron	Municipal Point Source Discharges
											Lead	
											Nitrogen (Total)	
											Organic Enrichment (Sewage) Biological Indicators Phosphorus (Total)	
Clark Fork River	MT76M001_030	CLARK FORK RIVER, Blackfoot River to	o 4A	6.2	MILES	B-1	N	F	N	Х	Arsenic	Industrial Point Source Discharge
		Rattlesnake Creek									Cadmium	Mill Tailings
											Copper	Upstream Impoundments (e.g., PI-566 NRCS
											Iron	Structures)
											Lead	
											Nutrient/Eutrophication Biological Indicators Zinc	
Middle Clark Fork Tributaries	MT76M002_010	TAMARACK CREEK, headwaters to mouth (Clark Fork River)	4C	9.47	MILES	B-1	N	Х	Х	X	Fish-Passage Barrier	Dam or Impoundment
Middle Clark Fork Tributaries	MT76M002_020	CEDAR CREEK, headwaters to mouth (Clark Fork River)	4C	17.28	MILES	B-1	N	F	F	F	Low flow alterations	Flow Alterations from Water Diversions
Middle Clark Fork Tributaries	MT76M002_050	TROUT CREEK, headwaters to mouth (Clark Fork River)	4A	14.99	MILES	B-1	N	F	Х	Х	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction) 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	N	F	Х	F	Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)

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HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Middle Clark Fork Tributaries	MT76M002_090	PETTY CREEK, headwaters to mouth (Clark Fork River)	4A	12.2	MILES	B-1	N	х	х	F	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Temperature, water	Agriculture Highways, Roads, Bridges, Infrastructure (New Construction)
Middle Clark Fork Tributaries	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	4A	7.64	MILES	B-1	N	F	F	N	Chlorophyll-a Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Middle Clark Fork Tributaries	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	o 4C	23.56	MILES	A- CLOSE D	N	F	F	Х	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)	4A	18.86	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Sedimentation/Siltation Temperature, water	Flow Alterations from Water Diversions Irrigated Crop Production Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Streambank Modifications/destabilization
Middle Clark Fork Tributaries	MT76M002_140	MILL CREEK, headwaters to mouth (CI Fork River near Frenchtown)	ark 4C	13.67	MILES	B-1	N	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	N	X	Х	Х	Alteration in stream-side or littoral vegetative covers	Rangeland Grazing Silviculture Activities
Middle Clark Fork Tributaries	MT76M002_160	NEMOTE CREEK, headwaters to mout (confluence Clark Fork River)	h 4A	10.38	MILES	B-1	N	F	F	N	Chlorophyll-a Low flow alterations Nitrogen (Total) Phosphorus (Total) Temperature, water	Dredge Mining Flow Alterations from Water Diversions Source Unknown

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HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Middle Clark Fork Tributaries	MT76M002_170	DRY CREEK, headwaters to mouth (Cla Fork River)	ırk 4A	15.86	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
											Nitrogen (Total)	Natural Sources Source Unknown
Middle Clark Fork Tributaries	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	4A	8.02	MILES	B-1	N	X	N	N	Antimony Arsenic Cadmium Lead Mercury Physical substrate habitat alterations Sedimentation/Siltation Zinc	Impacts from Abandoned Mine Lands (Inactive) Unspecified Unpaved Road or Trail
Middle Clark Fork Tributaries	MT76M002_200	HALL GULCH, headwaters to mouth (Fi	at 4A	2	MILES	B-1	N	X	N	x	Antimony Arsenic Iron Lead Zinc	Impacts from Abandoned Mine Lands (Inactive)
St. Regis	MT76M003_010	ST. REGIS RIVER, headwaters to mout (Clark Fork River)	h 4A	40.3	MILES	B-1	N	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, Infrastructure (New Construction) Loss of Riparian Habitat Streambank Modifications/destabilization
St. Regis	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	4A	13.98	MILES	B-1	N	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, Infrastructure (New Construction) Loss of Riparian Habitat

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HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
St. Regis	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	4A	13.98	MILES	B-1	N	F	F	F		Silviculture Activities
St. Regis	MT76M003_030	SILVER CREEK, headwaters to mouth (St. Regis River)	4C	4.96	MILES	A-1	N	F	F	F	Other flow regime alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Hydrostructure Flow Regulation/modification
St. Regis	MT76M003_040	BIG CREEK, the East and Middle Forks mouth (St. Regis River)	to 4A	2.77	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Channelization
		moduli (St. Regis River)									Temperature, water	Loss of Riparian Habitat
												Streambank Modifications/destabilization
St. Regis	MT76M003_070	LITTLE JOE CREEK, North Fork to mou (St. Regis River)	ith 4A	2.6	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Natural Sources
											Sedimentation/Siltation	Streambank Modifications/destabilization
St. Regis	MT76M003_080	NORTH FORK LITTLE JOE CREEK, headwaters to mouth (Little Joe Creek)	4A	10.82	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New Construction) Streambank Modifications/destabilization
Ninemile	MT76M004_010	NINEMILE CREEK, headwaters to mout	h 4A	26.85	MILES	B-1	N	F	Х	F	Low flow alterations	Flow Alterations from Water Diversions
		(Clark Fork River)									Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
												Streambank Modifications/destabilization
Ninemile	MT76M004_020	STONY CREEK, headwaters to mouth	4A	7.07	MILES	B-1	N	F	F	N	Phosphorus (Total)	Agriculture
		(Ninemile Creek)									Sedimentation/Siltation	Irrigated Crop Production
Ninemile	MT76M004_031	McCORMICK CREEK, Little McCormick Creek to mouth (Ninemile Creek)	4C	2.01	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Placer Mining
Ninemile	MT76M004_040	JOSEPHINE CREEK, headwaters to mouth (Ninemile Creek)	4A	5.99	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		modal (Mileniae Greek)									Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Placer Mining
Ninemile	MT76M004_060	CEDAR CREEK, headwaters to mouth	4A	4.52	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Ninemile Creek)									vegetative covers Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Natural Sources

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HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Ninemile	MT76M004_070	KENNEDY CREEK, headwaters to mou	ith 4A	5.64	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Irrigated Crop Production
		(Ninemile Creek)									vegetative covers Copper	Mine Tailings
											Lead	Placer Mining
											Low flow alterations	Subsurface (Hardrock) Mining
											Mercury	Surface Mining
											Sedimentation/Siltation	
											Zinc	
Ninemile	MT76M004_080	LITTLE MCCORMICK CREEK,	4A	3.54	MILES	B-1	N	ı	F	1	Fish-Passage Barrier	Placer Mining
		headwaters to mouth (McCormick Creel	K)								Low flow alterations	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	



HUC: 17010205 Bitterroot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Bitterroot	MT76H001_010	BITTERROOT RIVER, East and West forks to Skalkaho Creek	4C	27.21	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Rangeland Grazing Streambank Modifications/destabilization
Bitterroot	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek Eightmile Creek	to 4A	34.34	MILES	B-1	N	F	F	N	Low flow alterations Temperature, water	Agriculture Irrigated Crop Production Wet Weather Discharges (Non-Point Source)
Bitterroot	MT76H001_030	BITTERROOT RIVER, Eightmile Creek mouth (Clark Fork River)	t to 4A	23.6	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Lead Temperature, water	Agriculture Rangeland Grazing Source Unknown Wet Weather Discharges (Non-Point Source) Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Bitterroot Headwaters	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary mouth (Bitterroot River)	4A r to	30.77	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Temperature, water	Channelization Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrastructure (New Construction) Streambank Modifications/destabilization Watershed Runoff following Forest Fire
Bitterroot Headwaters	MT76H002_020	REIMEL CREEK, headwaters to mouth (East Fork Bitterroot River)	4A	7.71	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture Natural Sources
Bitterroot Headwaters	MT76H002_070	LAIRD CREEK, headwaters to mouth (East Fork Bitterroot River), T2N R20 S	4A 335	5.74	MILES	B-1	N	X	х	Х	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 mout (Laird Creek), T1N R20W S10	th 4A	2.29	MILES	B-1	N	X	х	Х	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	N	F	X	F	Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastructure (New Construction) Streambank Modifications/destabilization

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HUC: 17010205 Bitterroot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Bitterroot Headwaters	MT76H003_020	NEZ PERCE FORK BITTERROOT RIVER, headwaters to mouth (West For Bitterroot River)	4A k	15.23	MILES	B-1	N	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	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)	4A	17.59	MILES	B-1	N	F	F	F	Temperature, water	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	N	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	N	F	F	F	Sedimentation/Siltation	
Bitterroot	MT76H004_010	BASS CREEK, Selway-Bitterroot Wilderness boundary to mouth (un- named channel of Bitterroot River), T9N R20W S3	4A	5.07	MILES	B-1	N	F	F	N	Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Agriculture Dam or Impoundment Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Natural Sources
Bitterroot	MT76H004_020	KOOTENAI CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitterroot River)	4C	5.63	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture
Bitterroot	MT76H004_031	BEAR CREEK, Selway-Bitterroot Wilderness boundary to mouth (Fred Bu Creek), T7N R20W S7	4C rr	8.3	MILES	B-1	Х	F	Х	N	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	F	Х	N	Low flow alterations	Agriculture
Bitterroot	MT76H004_040	MILL CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Fred Burr Creek), T7N R20W S19	4A i	8.72	MILES	B-1	N	X	Х	N	Alteration in stream-side or littoral vegetative covers Low flow alterations	Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrastructure (New Construction)

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 17010205 Bitterroot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Bitterroot	MT76H004_040	MILL CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Fred Burr Creek), T7N R20W S19	4A	8.72	MILES	B-1	N	Х	Х	N	Temperature, water	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 (Bitterroo River)	4C t	13.63	MILES	B-1	N	F	Х	N	Low flow alterations	Agriculture
Bitterroot	MT76H004_070	LOST HORSE CREEK, headwaters to mouth (Bitterroot River)	4C	20.61	MILES	B-1	F	F	Х	N	Low flow alterations	Agriculture
Bitterroot	MT76H004_080	TIN CUP CREEK, Selway-Bitterroot	4C	7.95	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Irrigated Crop Production
		Wilderness boundary to mouth (Bitteroot River)									vegetative covers	Loss of Riparian Habitat
Bitterroot	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	4A	24.93	MILES	B-1	N	F	Х	F	Sedimentation/Siltation	Agriculture
		to mouth (bitterroot River)									Temperature, water	Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Bitterroot	MT76H004_100	SKALKAHO CREEK, headwaters to mouth (Bitterroot River)	4C	27.8	MILES	B-1	N	F	F	F	Low flow alterations	Irrigated Crop Production
Bitterroot	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	4A	17.16	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Flow Alterations from Water Diversions
		(Billerroot River)									vegetative covers Sedimentation/Siltation	Irrigated Crop Production
											Temperature, water	Loss of Riparian Habitat
												Silviculture Activities
Bitterroot	MT76H004_120	AMBROSE CREEK, headwaters to mou	th 4A	11.7	MILES	B-1	N	F	Х	N	Nitrogen (Total)	Agriculture
		(Threemile Creek)									Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Loss of Riparian Habitat
											Sedimentation/Siltation	
Bitterroot	MT76H004_130	MILLER CREEK, headwaters to mouth	4A	18.34	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		(Bitterroot River)									vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
											Temperature, water	Loss of Riparian Habitat
												Silviculture Activities
Bitterroot	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	4A	17.96	MILES	B-1	N	F	Х	N	Low flow alterations	Agriculture

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

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HUC: 17010205 Bitterroot **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Bitterroot	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	4A	17.96	MILES	B-1	N	F	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
		mouth (bitterroot River)									Nitrogen (Total)	Rangeland Grazing
											Phosphorus (Total)	
											Sedimentation/Siltation	
Bitterroot	MT76H004_150	McCLAIN CREEK, headwaters to mouth (Sin-tin-tin-em-ska Creek), T11N R20W S23	4A	7.12	MILES	B-1	N	F	Х	Х	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
Bitterroot	MT76H004_160	NORTH FORK RYE CREEK, headwater	s 4A	7.08	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		to mouth (Rye Creek-Bitterroot River, South of Darby)									vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Streambank Modifications/destabilization
Bitterroot	MT76H004_170	LICK CREEK, headwaters to mouth	4A	6.39	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Bitterroot River)									vegetative covers Aluminum	Grazing in Riparian or Shoreline Zones
											Chlorophyll-a	Livestock (Grazing or Feeding Operations)
											Phosphorus (Total)	Silviculture Activities
											Sedimentation/Siltation	Source Unknown
Bitterroot	MT76H004_180	MUDDY SPRING CREEK, headwaters t	o 4A	2.04	MILES	B-1	N	F	F	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
		mouth (Gold Creek) T7N R19W S2									Sedimentation/Siltation	Source Unknown
Bitterroot	MT76H004_190	RYE CREEK, North Fork to mouth	4A	5.98	MILES	B-1	N	F	х	N	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		(Bitterroot River)									vegetative covers 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,	4A	10.94	MILES	B-1	N	F	F	N	Bottom Deposits	Grazing in Riparian or Shoreline Zones
		confluence with South Burnt Fork Creek Mouth (Bitterroot River)	to								Nitrogen (Total)	Irrigated Crop Production
											Phosphorus (Total)	
Bitterroot	MT76H004_210	SWEATHOUSE CREEK, headwaters to mouth (Bitterroot River)	4A	11.62	MILES	B-1	N	x	x	N	Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total)	Agriculture Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

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HUC: 17010205 Bitterroot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Bitterroot	MT76H004_210	SWEATHOUSE CREEK, headwaters to mouth (Bitterroot River)	4A	11.62	MILES	B-1	N	Х	Х	N	Sedimentation/Siltation	
Bitterroot	MT76H005_011	LOLO CREEK, Mormon Creek to mouth	4A	3.12	MILES	B-1	N	F	Х	Х	Low flow alterations	Agriculture
		(Bitterroot River)									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 Mormo	on 4A	14.14	MILES	B-1	N	F	Х	F	Physical substrate habitat alterations	Agriculture
		Creek									Sedimentation/Siltation	Silviculture Activities
												Streambank Modifications/destabilization
Bitterroot	MT76H005_013	LOLO CREEK, headwaters to Sheldon Creek	4A	14.24	MILES	B-1	N	F	х	F	Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
		Cleek									Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Activities
Bitterroot	MT76H005_020	SOUTH FORK LOLO CREEK, Selway-	4C	6.87	MILES	B-1	N	F	F	N	Low flow alterations	Forest Roads (Road Construction and Use)
		Bitterroot Wilderness boundary to mouth (Lolo Creek)									Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification Silviculture Activities
Upper Lolo	MT76H005_030	GRANITE CREEK, headwaters to mouth (Lolo Creek)	ı 4A	9.39	MILES	B-1	N	F	Х	Х	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		(======================================									Fish-Passage Barrier	Silviculture Activities
											Sedimentation/Siltation	
Upper Lolo	MT76H005_040	EAST FORK LOLO CREEK, headwaters to mouth (Confluence with Lolo Creek)	s 4A	9.12	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		to moder (confidence with Lord Greek)									Fish-Passage Barrier	Highway/Road/Bridge Runoff (Non-construction Related)
											Sedimentation/Siltation	Silviculture Activities
Upper Lolo	MT76H005_050	WEST FORK LOLO CREEK, headwater to mouth (Lolo Creek)	s 4A	7.37	MILES	B-1	N	F	Х	Х	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		to mount (Loio Creek)									Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Streambank Modifications/destabilization
Upper Lolo	MT76H005_060	LOST PARK CREEK, headwaters to mouth (Confluence with East Fork Lolo	4A	5.08	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		Creek)									Fish-Passage Barrier	Silviculture Harvesting
											Sedimentation/Siltation	

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; = Beneficial Use Not Assigned
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HUC: 17010205 Bitterroot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	cial U	Jse / Rec	Cause Name *	Source Name *
Upper Lolo	MT76H005_070	LEE CREEK, headwaters to mouth (We-	st 4A	3.8	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Silviculture Activities
												Streambank Modifications/destabilization



HUC: 17010206 North Fork Flathead Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Big Creek (Columbia)	MT76Q002_050	BIG CREEK, headwaters to mouth (Nor Fork of the Flathead River)	th 4C	16.68	MILES	B-1	N	F	х	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use) Streambank Modifications/destabilization
Flathead Headwaters	MT76Q002_070	COAL CREEK, headwaters to South Fo	ork 4C	10.4	MILES	B-1	N	Х	Х	Х	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	N	F	Х	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting



HUC: 17010208 Flathead Lake **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Flathead - Stillwater	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	n 4A	15.64	MILES	B-1	N	F	X	N	Alteration in stream-side or littoral vegetative covers	Channelization
											Chlorophyll-a	Crop Production (Crop Land or Dry Land)
											Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Oxygen, Dissolved	Loss of Riparian Habitat
											Sedimentation/Siltation	Source Unknown
											Temperature, water	
Flathead - Stillwater	MT76O002_020	ASHLEY CREEK, Smith Lake to Kalisp Airport Road	ell 4A	14.17	MILES	B-2	N	F	Х	N	Low flow alterations	Agriculture
		Allport Noau									Nitrogen (Total)	Crop Production (Crop Land or Dry Land)
											Phosphorus (Total)	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature, water	
Flathead - Stillwater	MT76O002_030	ASHLEY CREEK, Kalispell airport road mouth (Flathead River)	to 4A	13.17	MILES	C-2	N	F	-	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Channelization Discharges from Municipal Separate Storm Sewer
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Systems (MS4) Irrigated Crop Production
											Nitrogen (Total)	Loss of Riparian Habitat
											Oxygen, Dissolved	Municipal Point Source Discharges
											Phosphorus (Total)	Upstream Source
											Sedimentation/Siltation	
											Temperature, water	
Flathead - Stillwater	MT76O002_040	SPRING CREEK, headwaters to mouth	5	4.8	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral	Agriculture
		(Ashley Creek)									vegetative covers Arsenic	Baseflow Depletion from Groundwater Withdrawals
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Channelization
											Nitrogen (Total)	Flow Alterations from Water Diversions
											Other flow regime alterations	Loss of Riparian Habitat
											Oxygen, Dissolved	Source Unknown
											Phosphorus (Total)	
											Physical substrate habitat alterations	

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HUC: 17010208 Flathead Lake **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Flathead Lake	MT76O003_010	FLATHEAD LAKE	5	57305	ACRES	A-1	N	F	F	F	Mercury	Atmospheric Deposition - Nitrogen
											Nitrogen (Total)	Impacts from Hydrostructure Flow
											Phosphorus (Total)	Regulation/modification Municipal Point Source Discharges
											Polychlorinated biphenyls	Silviculture Harvesting
												Source Unknown
												Unspecified Urban Stormwater
												Upstream Impoundments (e.g., PI-566 NRCS Structures)
Flathead Lake	MT76O004_020	LAKE MARY RONAN	4C	1517.2	ACRES	A-1	Т	F	Х	F	Chlorophyll-a	Agriculture
												Grazing in Riparian or Shoreline Zones
												Silviculture Activities



HUC: 17010209 South Fork Flathead Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Flathead Headwaters	MT76J001_010	SOUTH FORK FLATHEAD RIVER, Hungry Horse Dam to mouth	4C	5.31	MILES	B-1	Х	F	Х	N	Other flow regime alterations	



HUC: 17010210 Stillwater Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic _ Ag		Jse Rec	Cause Name *	Source Name *
Flathead - Stillwater	MT76P001_010	STILLWATER RIVER, Logan Creek to	4A	45.61	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		mouth									vegetative covers Sedimentation/Siltation	Loss of Riparian Habitat
												Site Clearance (Land Development or Redevelopment) Upstream Source
Flathead - Stillwater	MT76P001_030	LOGAN CREEK, headwaters to Tally	4A	21.16	MILES	B-1	N	F	X	F	Other flow regime alterations	Forest Roads (Road Construction and Use)
		Lake									Physical substrate habitat alterations	Silviculture Activities
											Sedimentation/Siltation	Streambank Modifications/destabilization
Flathead - Stillwater	MT76P001_040	SINCLAIR CREEK, headwaters to mout	h 4C	2.32	MILES	B-1	Х	Х	Х	N	Low flow alterations	Agriculture
		(Sheppard Creek)										Streambank Modifications/destabilization
Flathead - Stillwater	MT76P001_050	SHEPPARD CREEK, headwaters to	4A	15.92	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		mouth (Griffin Creek)									vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Grazing in Riparian or Shoreline Zones
												Silviculture Harvesting
Flathead - Stillwater	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to	5	24.8	MILES	B-2	N	F	F	F	Oil and Grease	Accidental release/Spill
		mouth (Stillwater River)									PCB in Water Column	Industrial Point Source Discharge
											Temperature, water	Silviculture Activities
												Site Clearance (Land Development or Redevelopment) Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Flathead - Stillwater	MT76P003_070	HASKILL CREEK Haskill Basin Pond to	4A	8.43	MILES	A-1	N	Χ	Χ	Χ	Sedimentation/Siltation	Agriculture
		mouth (Whitefish River)										Residential Districts
Flathead - Stillwater	MT76P004_010	WHITEFISH LAKE	5	3317.4	ACRES	A-1	Т	F	Х	F	Mercury	Source Unknown
											Polychlorinated biphenyls	



HUC: 17010211 Swan Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW	Jse Rec	Cause Name *	Source Name *
Swan	MT76K002_010	SWAN LAKE	4A	3273.6	ACRES	A-1	Т	F	F	F	BOD, sediment load (Sediment Oxygen Demand) Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrastructure (New Construction)
Swan	MT76K003_010	JIM CREEK, headwaters to mouth (Swa River), T21 R18W S8	n 4A	12.11	MILES	B-1	N	F	Х	F	Sedimentation/Siltation	Silviculture Harvesting
Swan	MT76K003_031	GOAT CREEK, headwaters to Squeezer Creek	r 4A	9.71	MILES	B-1	N	F	Х	F	Total Suspended Solids (TSS)	Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Harvesting



HUC: 17010212 Lower Flathead Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial (DW		Cause Name *	Source Name *
Lower Flathead	MT76L001_010	FLATHEAD RIVER, Flathead Reservati	ion 5	4.24	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Dam or Impoundment
		boundary to mouth (Clark Fork River)									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Impacts from Hydrostructure Flow Regulation/modification
											Nitrogen (Total)	Irrigated Crop Production
											Other flow regime alterations	Natural Sources
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Temperature, water	
Lower Flathead	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart	4A	5.2	MILES	B-2	N	х	Х	N	Chlorophyll-a	Upstream Impoundments (e.g., PI-566 NRCS
		Reservoir to Flathead Reservation Boundary									Nitrate/Nitrite (Nitrite + Nitrate as N)	Structures) Upstream Source
											Nitrogen (Total)	
											Other flow regime alterations	
											Phosphorus (Total)	
											Sedimentation/Siltation	
Lower Flathead	MT76L002_070	SULLIVAN CREEK, headwaters to	4A	3.9	MILES	B-1	N	X	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		Flathead Indian Reservation									vegetative covers Aluminum	Impacts from Abandoned Mine Lands (Inactive)
											Cadmium	Mine Tailings
											Copper	
											Phosphorus (Total)	
											Sedimentation/Siltation	
											Zinc	
											рН	



HUC: 17010213 Lower Clark Fork **Watershed:** Pend Oreille

TMDL Planning	ID305B	Waterbody	Category	v Size	Units	Use		enefic			Cause Name *	Source Name *
Area		Name/Location				Class	Aql	L Ag	DW	Rec		
Clark Fork River	MT76N001_010	CLARK FORK RIVER, Flathead River to	5	36.3	MILES	B-1	N	F	F	F	Dissolved Gas Supersaturation	Dam or Impoundment
		Thompson Falls Reservoir									Fish-Passage Barrier	Hydrostructure Impacts on Fish Passage
Clark Fork River	MT76N001_020	CLARK FORK RIVER, Noxon Dam to	5	2.85	MILES	B-1	N	F	F	F	Dissolved Gas Supersaturation	Dam or Impoundment
		Noxon Bridge									Fish-Passage Barrier	Hydrostructure Impacts on Fish Passage
											Other flow regime alterations	
											Temperature, water	
Middle Clark Fork Tributaries	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	4A	13.33	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers	Channelization
ributaries		(Clark Fork River)									Low flow alterations	Forest Roads (Road Construction and Use)
											Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Irrigated Crop Production
											Sedimentation/Siltation	
											Temperature, water	
Prospect Creek	MT76N003_020	PROSPECT CREEK, headwaters to	4A	19.07	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Clark Fork River)									vegetative covers Antimony	Mine Tailings
											Lead	Silviculture Activities
											Sedimentation/Siltation	
											Zinc	
Prospect Creek	MT76N003_021	ANTIMONY CREEK, headwaters to	4A	1.25	MILES	B-1	N	Х	N	Х	Antimony	Mill Tailings
		mouth (Prospect Creek)									Arsenic	Natural Sources
											Lead	
Prospect Creek	MT76N003_022	COX GULCH, headwaters to mouth	4A	3.61	MILES	B-1	N	Х	N	Х	Antimony	Mine Tailings
		(Prospect Creek)									Lead	
Lower Clark Fork		BEAVER CREEK, headwaters to mouth	4C	25.41	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
Tributaries		(Confluence with Clark Fork River)									vegetative covers	Grazing in Riparian or Shoreline Zones
												Natural Sources
Lower Clark Fork Tributaries	MT76N003_040	BULL RIVER, the North Fork to mouth (Cabinet Gorge Reservoir)	4A	25.18	MILES	B-1	N	F	Х	F	Physical substrate habitat alterations	Silviculture Activities

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HUC: 17010213 Lower Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Clark Fork Tributaries	MT76N003_040	BULL RIVER, the North Fork to mouth (Cabinet Gorge Reservoir)	4A	25.18	MILES	B-1	N	F	Х	F	Sedimentation/Siltation	Streambank Modifications/destabilization
Prospect Creek	MT76N003_050	CLEAR CREEK, headwaters to mouth (Prospect Creek)	4A	12.09	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Streambank Modifications/destabilization
Elk Creek	MT76N003_060	ELK CREEK, headwaters to mouth (Cabinet Gorge Reservoir)	4A	8.04	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Hardrock Mining Discharges (Permitted)
Prospect Creek	MT76N003_070	DRY CREEK, headwaters (confluence of East andWest Forks) to mouth (Prospec Creek)		4.23	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New Construction) Rangeland Grazing
Lower Clark Fork Tributaries	MT76N003_080	GRAVES CREEK, headwaters to mouth (Clark Fork River)	n 4C	10.52	MILES	B-1	N	F	x	Х	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)	n 4A	6.78	MILES	B-1	N	F	Х	X	Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Streambank Modifications/destabilization
Lower Clark Fork Tributaries	MT76N003_100	PILGRIM CREEK, headwaters to mouth (Clark Fork River)	ı 4C	7.15	MILES	A-1	N	F	X	F	Physical substrate habitat alterations	Channelization Grazing in Riparian or Shoreline Zones Streambank Modifications/destabilization
Lower Clark Fork Tributaries	MT76N003_120	WHITE PINE CREEK, headwaters to mouth (Beaver Creek)	4A	12.37	MILES	B-1	N	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/destabilization Watershed Runoff following Forest Fire
Lower Clark Fork Tributaries	MT76N003_130	VERMILION RIVER, headwaters to mou (Noxon Reservoir)	uth 4C	22.84	MILES	B-1	N	F	x	X	Alteration in stream-side or littoral vegetative covers	Placer Mining Silviculture Activities

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HUC: 17010213 Lower Clark Fork **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Lower Clark Fork Tributaries	MT76N003_130	VERMILION RIVER, headwaters to mou (Noxon Reservoir)	th 4C	22.84	MILES	B-1	N	F	Х	Х		Streambank Modifications/destabilization
Lower Clark Fork Tributaries	MT76N003_140	SWAMP CREEK, Cabinet Mountains Wilderness boundary to mouth (Noxon Reservoir)	4A	9.75	MILES	A-1	N	Х	Х	Х	Sedimentation/Siltation	Loss of Riparian Habitat
Middle Clark Fork	MT76N003_160	SWAMP CREEK, West Fork Swamp	4A	4.76	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Channelization
Tributaries		Creek to mouth (Clark Fork River), T20N R27W S3									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Forest Roads (Road Construction and Use)
											Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Silviculture Harvesting
											Sedimentation/Siltation	
Middle Clark Fork	MT76N003 170	HENRY CREEK, headwaters to mouth	4A	7.1	MILES	B-1	N	х	х	F	Alteration in stream-side or littoral	Channelization
Tributaries	_	(Clark Fork River), T19N R26W S1									vegetative covers Low flow alterations	Flow Alterations from Water Diversions
											Sedimentation/Siltation	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	I 4A	4.1	MILES	B-1	N	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	N	F	F	F	Other anthropogenic substrate alterations	Silviculture Activities
Thompson	MT76N005_030	McGREGOR CREEK, McGregor Lake to	4A	6.82	MILES	B-1	N	Х	Х	F	Other flow regime alterations	Channelization
		mouth (Thompson River)									Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related)
											Temperature, water	Hydrostructure Impacts on Fish Passage
												Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Thompson	MT76N005_040	LITTLE THOMPSON RIVER, headwater		19.92	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		to mouth (Thompson River), T22N R25W S8	V								vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones
											Phosphorus (Total)	Silviculture Harvesting
											Sedimentation/Siltation	
Thompson	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	4A	7.79	MILES	B-1	N	Х	X	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

AqL=Aquatic Life; **Ag**=Agriculture; **DW**=Drinking Water; **Rec**=Primary Contact Recreation

F=Fully Supporting; T=Threatened; N=Not Fully Supporting; I=Insufficient Information; X=Not Assessed; -= Beneficial Use Not Assigned

^{*} The impairment cause and source names in this appendix are listed alphabetically. There is no implied relationship between the listed causes and sources. See individual assessment reports for details.



HUC: 17010213 Lower Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW	se Rec	Cause Name *	Source Name *
Thompson	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	4A	7.79	MILES	B-1	N	Х	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total)	Livestock (Grazing or Feeding Operations) Silviculture Activities
											Phosphorus (Total) Sedimentation/Siltation	
Thompson	MT76N005_070	MCGINNIS CREEK, headwaters to mou (Little Thompson River)	th 4A	5.12	MILES	B-1	N	Х	X	F	Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Silviculture Harvesting Source Unknown