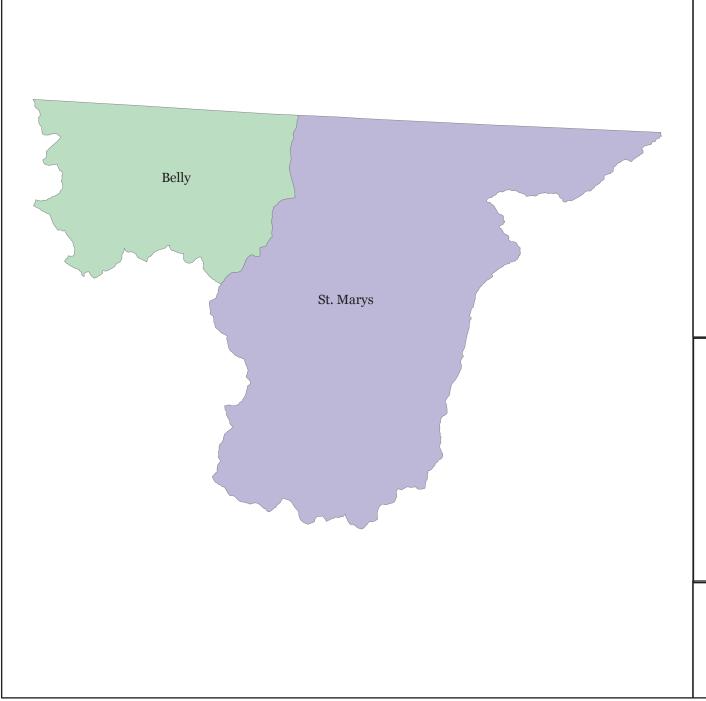
ST WTRSHD	HUC HUC Name	ST WTRSHD	HUC	HUC Name
Upper South	09040001 St. Marys		10060004	West Fork Poplar
Saskatchewan River	09040002 Belly	Missouri Donlar	10060005	Charlie-Little Muddy
	10020001 Red Rock	Missouri-Poplar	10060006	Big Muddy
ers	10020002 Beaverhead		10060007	Brush Lake Closed Basin
wat	10020003 Ruby		10070001	Yellowstone Headwaters
ad	10020004 Big Hole	<u>ə</u>	10070002	Upper Yellowstone
Ϋ́	10020005 Jefferson	stor	10070003	
onc	10020006 Boulder	» No		Upper Yellowstone-Lake Basin
Missouri Headwaters	10020007 Madison	Ύе⊪	10070005	• •
Σ	10020008 Gallatin	ē		Clarks Fork Yellowstone
:=	10030101 Upper Missouri	Upper Yellowstone		Upper Yellowstone-Pompeys Pillar
Upper Missouri	10030101 Upper Missouri-Dearborn		10070007	
<u>Si</u> Si	10030102 Spper Missean Bearson			Big Horn Lake
e Z	10030103 311111 10030104 Sun	Big Horn		Shoshone
dd		포		Lower Bighorn
	10030105 Belt	Big		
	10030201 Two Medicine			Little Bighorn
as	10030202 Cut Bank	Tongue		Upper Tongue
Marias	10030203 Marias	Ŭ		Lower Tongue
2	10030204 Willow	<u>_</u>		Middle Powder
	10030205 Teton	Powder		Little Powder
Φ	10040101 Bullwhacker-Dog	Pov	10090209	Lower Powder
Fort Peck Lake	10040102 Arrow	_	10090210	Mizpah
쏭	10040103 Judith	Φ	10100001	Lower Yellowstone-Sunday
D O	10040104 Fort Peck Reservoir	fon	10100002	Big Porcupine
ort.	10040105 Big Dry	Lower	10100003	Rosebud
Щ	10040106 Little Dry	Lower Yellowstone	10100004	Lower Yellowstone
_	10040201 Upper Musselshell	<b>&gt;</b>	10100005	O'Fallon
Musselshell	10040202 Middle Musselshell	ri⁄ e	10110201	Upper Little Missouri
Se Se	10040203 Flat Willow	sou	10110202	Boxelder
ins;	10040204 Box Elder	Aiss	10110203	Middle Little Missouri
≥	10040205 Lower Musselshell	<u> </u>	10110204	Beaver
	10050001 Milk Headwaters	Little Missouri/ Belle Fourche		Lower Belle Fourche
	10050002 Upper Milk			Middle Kootenai
	10050003 Wild Horse Lake		17010102	
	10050004 Middle Milk	Kootenai	17010103	
	10050005 Big Sandy	oote		Lower Kootenai
	10050006 Sage	Ϋ́	17010105	
	10050007 Lodge		17010106	•
J	10050007 Edge 10050008 Battle			Upper Clark Fork
M III	10050000 Datile 10050009 Peoples			Flint-Rock
	10050009 1 copies 10050010 Cottonwood			Blackfoot
	10050010 Cottonwood 10050011 Whitewater			Middle Clark Fork
	10050011 Whitewater 10050012 Lower Milk		17010204	
		e		
	10050013 Frenchman	Pend Oreille		North Fork Flathead
	10050014 Beaver	) <sub>Б</sub>		Middle Fork Flathead
	10050015 Rock	Per		Flathead Lake
	10050016 Porcupine	_		South Fork Flathead
	10060001 Prairie Elk-Wolf		17010210	
Missouri-Poplar	10060002 Redwater		17010211	
	10060003 Poplar			Lower Flathead
			17010213	Lower Clark Fork



## Upper South Saskatchewan River Sub-Major Basin

Included with Missouri River Basin for Administrative Purposes

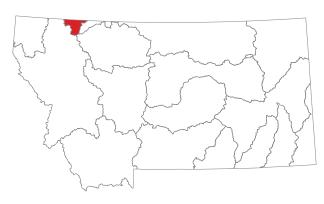
**USGS HUC** 

**HUC NAME** 

09040001

St. Marys

09040002 Belly



**Montana Department of Environmental Quality** 



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

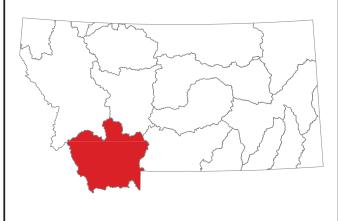
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Cut Bank - Two Medicine	MT40T002_010	DIVIDE CREEK, headwaters to mouth (Saint Mary River)	4C	10.55	MILES	A-1	N	F	х	Х	Habitat Alterations Other anthropogenic substrate alterations	Channelization  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 HU	JC 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



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	Х	Alteration in stream-side or littoral	Crop Production (Irrigated)
		Canyon Reservoir									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	
											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	
Red Rock	MT41A002_010	CLARK CANYON RESERVOIR	4C	4922.1	ACRES	B-1	N	F	F	Х	Flow Regime Modification	Crop Production (Irrigated)
												Drought-related Impacts
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	Crop Production (Irrigated)
		to mouth (Horse Prairie Creek)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
Red Rock	MT41A003_020	MUDDY CREEK, confluence of	5	11.08	MILES	B-1	N	F	F		Turbidity	Agriculture
Neu Nock	W141A003_020	Sourdough and Wilson Creek to mouth (Big Sheep Creek), T14S R10W S10	3	11.00	IVIILLO	D-1				•	rubialty	Streambank Modifications/destabilization
												Citating and Modifications, destablished
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters mouth (Clark Canyon Res)	to 5	46.67	MILES	B-1	N	F	N	I	Arsenic	Crop Production (Irrigated)
											Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	
											Flow Regime Modification	
											Lead	
											Mercury	

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: 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)	0 5	46.67	MILES	B-1	N	F	N	I	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	Algae	Crop Production (Irrigated)
		(Ned Nock Niver)									Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
Red Rock	MT41A004_010	PRICE CREEK, headwaters to mouth (Red Rock River)	5	10.52	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(Ned Nock Niver)									Flow Regime Modification	Water Diversions
											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
		(1101251 010019									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
		(1121121112114)									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	Х	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)
		,									Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail



**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	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		(LOWE! RED ROCK 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 Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											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	Crop Production (Irrigated)
		(Upper Red Rock Lake)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											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	Algae	Crop Production (Irrigated)
		(Winslow Creek)									Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	
											Sedimentation/Siltation	
Red Rock	MT41A004_140	BEAN CREEK, headwaters to mouth (Re	ed 5	6.62	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Channelization
		Rock River), T14S R3E S7									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Water Diversions
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	2217.5	ACRES	B-1	N	Х	Х	Х	Flow Regime Modification	Agriculture
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Low Water Crossing
												Rangeland Grazing

<sup>\*</sup>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:** 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	Х	Х		Upstream Source
Red Rock	MT41A005_030	UPPER RED ROCK LAKE	5	2947	ACRES	B-1	N	х	Х	Χ	Flow Regime Modification	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	y Size	Units	Use Class			cial ( DW		Cause Name *	Source Name *
Beaverhead	MT41B001_010	BEAVERHEAD RIVER, Clark Canyon Dam to Grasshopper Creek	5	12.32	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
		Daili to Grassriopper Creek									Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Dam or Impoundment
											Phosphorus, Total	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B001_020	BEAVERHEAD RIVER, Grasshopper	5	66.04	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		Creek to mouth (Jefferson River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Loss of Riparian Habitat
											Physical substrate habitat alterations	Site Clearance (Land Development or Redevelopment)
											Sedimentation/Siltation	redevolopmenty
											Temperature	
Beaverhead	MT41B002_010	GRASSHOPPER CREEK, headwaters	s to 5	60.18	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		mouth (Beaverhead River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Lead	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Mine Tailings
											Phosphorus, Total	Streambank Modifications/destabilization
											Sedimentation/Siltation	
Beaverhead	MT41B002_020	FARLIN CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S7	n 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, headwate	ers 5	42.88	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Channelization
		to mouth (Beaverhead River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related)
											Temperature	Related) Livestock (Grazing or Feeding Operations)
												Water Diversions
Beaverhead	MT41B002_040	EAST FORK BLACKTAIL DEER CREE headwaters to mouth (Blacktail Deer Creek)	EK, 4C	21.24	MILES	B-1	N	F	F	F	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

<sup>\*</sup> 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

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



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_100	FRENCH CREEK, headwaters to mouth (Rattlesnake Creek)	4A	6.55	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		(Nattieshake Creek)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_110	CLARK CANYON CREEK, headwaters mouth (Beaverhead River), T9S R10W S28	o 5	8.07	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	
Beaverhead	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	5	12.76	MILES	B-1	N	F	F	Х	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	5	6.53	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		T6S R7W S34 to Staudaher Bishop Ditc	n								vegetative covers Aluminum	Crop Production (Crop Land or Dry Land)
											Copper	Surface Mining
											Iron	Unspecified Unpaved Road or Trail
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
Beaverhead	MT41B002_132	STONE CREEK, Left and Middle Fork to	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 Flow Regime Modification	Crop Production (Crop Land or Dry Land)
											Iron	Crop Production (Irrigated)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Highway/Road/Bridge Runoff (Non-construction Related)
											Phosphorus, Total	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	Source Unknown
											Turbidity	Surface Mining
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	5	4.13	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)



HUC: 10020002 Beaverhead Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial L DW	Jse 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	Flow Regime Modification  Nitrogen, Total  Phosphorus, Total  Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_150	WELLMAN CREEK, headwaters to mou (Grasshopper Creek)	th 5	3.02	MILES	B-1	N	X	F	X	Aluminum Cadmium Copper Lead Zinc	Subsurface (Hardrock) Mining
Beaverhead	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscoll Creek), T6S R12W S18	5	3.66	MILES	B-1	N	N	N	I	Alteration in stream-side or littoral vegetative covers Arsenic Nitrogen, Total Phosphorus, Total	Grazing in Riparian or Shoreline Zones Subsurface (Hardrock) Mining
Beaverhead	MT41B002_170	TAYLOR CREEK, headwaters to mouth (Grasshopper Creek)	5	11.73	MILES	B-1	N	F	F	N	Sedimentation/Siltation  Alteration in stream-side or littoral vegetative covers Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_180	SCUDDER CREEK, headwaters to mou (Grasshopper Creek), T6S R12W S19	th 5	5.62	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen, Total Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones



HUC: 10020003 Ruby Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial L 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	I	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Water Diversions
											Sedimentation/Siltation	
											Temperature	
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	1	Alteration in stream-side or littoral	Crop Production (Irrigated)
		mouth (Ruby River)									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Copper	Mine Tailings
											Flow Regime Modification	Unspecified Unpaved Road or Trail
											Lead	
											Mercury	
											Sedimentation/Siltation	
Ruby	MT41C002_020	MILL CREEK, headwaters to mouth (Ru	by 5	21.68	MILES	B-1	N	F	F	х	Alteration in stream-side or littoral	Crop Production (Irrigated)
		River)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus, Total	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	
											Temperature	
Ruby	MT41C002_030	INDIAN CREEK, headwaters to mouth	4A	12.44	MILES	B-1	N	F	F	1	Alteration in stream-side or littoral	Channelization
		(Leonard Slough)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												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



HUC: 10020003 Ruby Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Ruby	MT41C002_040	ALDER GULCH, headwaters to mouth	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	1	Alteration in stream-side or littoral	Channelization
		mouth (Ruby River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Lead	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Mine Tailings
											Sedimentation/Siltation	Placer Mining
												Unspecified Unpaved Road or Trail
Ruby	MT41C002_060	CURRANT CREEK, headwaters to mou	th 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	
5.1	NT.440000 400	OADDEN ODESKALLA ALA MA	_	<b></b>	50	5.4		_	_	_	All of the state of the state of	
Ruby	MT41C002_100	GARDEN CREEK, headwaters to mouth (Ruby Reservoir)	n 5	7.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Unspecified Unpaved Road or Trail
											Phosphorus, Total	
											Sedimentation/Siltation	
Ruby	MT41C002_110	MORMON CREEK, headwaters to mout	h 5	7.86	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones



HUC: 10020003 Ruby Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Ruby	MT41C002_110	MORMON CREEK, headwaters to mout	h 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	1	Alteration in stream-side or littoral	Channelization
		mouth (Ruby River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											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 mouth (Ruby River)	to 4A	8.48	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Ruby	MT41C003_060	SWEETWATER CREEK, headwaters to	5	24.72	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
		mouth (Ruby River)									vegetative covers Chlorophyll-a	Rangeland Grazing
											Flow Regime Modification	Unspecified Unpaved Road or Trail
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
Ruby	MT41C003_080	WEST FORK RUBY RIVER, headwaters to mouth (Ruby River)	s 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



**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	
		Creek to mouth (Ruby River)									Phosphorus, Total	
											Sedimentation/Siltation	
Ruby	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	5	6.2	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Natural Sources
		(Nuby Niver), 1113 Nov 310									Cadmium	Placer Mining
											Lead	Rangeland Grazing
											Nitrogen, Total	
											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
		(Middle Fork Ruby River)										Source Unknown
Ruby	MT41C003_150	SHOVEL CREEK, headwaters to mouth (Cabin Creek)	1 4A	5.61	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Rangeland Grazing



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 mo	ıth 5	49.27	MILES	B-1	N	F	N	ı	Cadmium	Acid Mine Drainage
		(Jefferson River)									Copper	Crop Production (Irrigated)
											Flow Regime Modification	Dam Construction (Other than Upstream Flood
											Lead	Control Projects) Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
											Temperature	Highway/Road/Bridge Runoff (Non-construction
											Zinc	Related) Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
												Streambank Modifications/destabilization
Middle Big Hole	MT41D001_020	BIG HOLE RIVER, Pintlar Creek to Div Creek	de 4A	44.39	MILES	A-1	N	F	N	ı	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
											Copper	Agriculture
											Flow Regime Modification	Crop Production (Irrigated)
											Lead	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
											Temperature	Rangeland Grazing
												Unspecified Unpaved Road or Trail
Upper Big Hole	MT41D001_030	BIG HOLE RIVER, headwaters to Pintla Creek	ar 4A	65.16	MILES	A-1	N	F	F	Χ	Alteration in stream-side or littoral vegetative covers	Agriculture
		Cleek									Flow Regime Modification	Crop Production (Crop Land or Dry Land)
											Sedimentation/Siltation	Crop Production (Irrigated)
											Temperature	Grazing in Riparian or Shoreline Zones
												Highways, Roads, Bridges, Infrastructure (New Construction) Loss of Riparian Habitat
												Rangeland Grazing
												Silviculture Activities
												Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mou (Big Hole River)	th 4A	18.98	MILES	B-1	N	F	N	X	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage

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		enefic L Ag			Cause Name *	Source Name *
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mou	h 4A	18.98	MILES	B-1	N	F	N	Х	Arsenic	Channelization
		(Big Hole River)									Cadmium	Crop Production (Irrigated)
											Copper	Highways, Roads, Bridges, Infrastructure (New
											Flow Regime Modification	Construction) Impacts from Abandoned Mine Lands (Inactive)
											Lead	Impacts from Hydrostructure Flow
											Physical substrate habitat alterations	Regulation/modification Mine Tailings
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
											Zinc	
Lower Big Hole	MT41D002_020	CAMP CREEK, headwaters to mouth (E	ig 5	15.6	MILES	B-1	N	N	N	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
-		Hole River)									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Unspecified Unpaved Road or Trail
											Phosphorus, Total	
											Sedimentation/Siltation	
Lower Big Hole	MT41D002_030	CANYON CREEK, headwaters to mouth	n 4C	18.41	MILES	B-1	N	х	Х	Х	Flour Doning Madification	Agriculture
Lower big Hole	W141D002_030	(Big Hole River)	1 40	10.41	MILES	D-1	IN	^	^	^	Flow Regime Modification	Crop Production (Irrigated)
												Crop Froduction (inigated)
Lower Big Hole	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	4A	13.99	MILES	B-1	N	F	F	I	Alteration in stream-side or littoral vegetative covers	Agriculture
		(2.3 )									Flow Regime Modification	Water Diversions
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
											Total Kjehldahl Nitrogen (TKN)	
Lower Big Hole	MT41D002_050	MOOSE CREEK, headwaters to mouth	4A	16.99	MILES	B-1	N	Х	Х	х	Flow Regime Modification	Crop Production (Crop Land or Dry Land)
		(Big Hole River at Maiden Rock)									Sedimentation/Siltation	Crop Production (Irrigated)
												Grazing in Riparian or Shoreline Zones
												Silviculture Activities



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Lower Big Hole	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	4A	16.99	MILES	B-1	N	Х	X	Х		Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	4A	4.93	MILES	B-1	N	F	F	1	Alteration in stream-side or littoral vegetative covers	Agriculture
		(big flote Kiver)									Flow Regime Modification	Crop Production (Crop Land or Dry Land)
											Nitrogen, Total	Crop Production (Irrigated)
											Phosphorus, Total	Rangeland Grazing
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
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 Forest Boundary	4A	13.91	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Agriculture
		Forest Boundary									Flow Regime Modification	Crop Production (Irrigated)
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
Lower Big Hole	MT41D002_100	BIRCH CREEK, National Forest Bounda	ary 4A	10.67	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Channelization
		to mouth (Big Hole River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Other anthropogenic substrate alterations	Dam or Impoundment
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_110	WILLOW CREEK, headwaters to mouth	4C	23.39	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Agriculture
		(Big Hole River), T4S R8W S1										Crop Production (Irrigated)
Lower Big Hole	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	n 5	4.09	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		(Camp Creek), 123 Kow 31									vegetative covers Copper	Grazing in Riparian or Shoreline Zones
											Lead	Subsurface (Hardrock) Mining
											Mercury	
											Phosphorus, Total	
											Sediment	



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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Lower Big Hole	MT41D002_140	SOAP CREEK, headwaters to mouth (B Hole River), T2S R9W S10	ig 4A	8.24	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)
		100 1001, 120 1000 010									Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	5	4.06	MILES	A-1	N	F	F	F	Nitrogen, Total	Grazing in Riparian or Shoreline Zones
		mount (big note river)									Phosphorus, Total	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	
Lower Big Hole	MT41D002_160	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	ost 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	Algae	Acid Mine Drainage
		(Big Hole River)									Alteration in stream-side or littoral	Agriculture
											vegetative covers Copper	Crop Production (Irrigated)
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Rangeland Grazing
												Silviculture Activities



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Middle Big Hole	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	5	12.69	MILES	A-1	N	F	N	N		Site Clearance (Land Development or Redevelopment) Unspecified Unpaved Road or Trail
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 (Bit Hole River)	ig 4A	9.21	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Irrigated)
		Hole River)									vegetative covers Flow Regime Modification	Rangeland Grazing
											Sedimentation/Siltation	Streambank Modifications/destabilization
Middle Big Hole	MT41D003_050	FRENCH CREEK, headwaters to mouth	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	Х	Alteration in stream-side or littoral	Agriculture
		mouth (French Creek-Deep Creek)									vegetative covers Arsenic	Atmospheric Deposition - Toxics
											Copper	Contaminated Sediments
											Flow Regime Modification	Crop Production (Irrigated)
											Iron	Grazing in Riparian or Shoreline Zones
											Other anthropogenic substrate alterations	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Natural Sources
											Turbidity	Placer Mining
												Rangeland Grazing
												Silviculture Activities
												Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mouth	n 5	3.09	MILES	A-1	N	N	N	F	Alteration in stream-side or littoral	Acid Mine Drainage
		(California Creek-French Creek-Deep Creek)									vegetative covers Arsenic	Agriculture
											Copper	Atmospheric Deposition - Toxics



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U		Cause Name *	Source Name *
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mou	th 5	3.09	MILES	A-1	N	N	N	F	Lead	Channelization
		(California Creek-French Creek-Deep Creek)									Other anthropogenic substrate alterations	Crop Production (Irrigated)
											Physical substrate habitat alterations	Dredge Mining
											Sedimentation/Siltation	Erosion from Derelict Land (Barren Land)
												Forest Roads (Road Construction and Use)
												Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Mine Tailings
												Natural Sources
												Silviculture Activities
												Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_090	SIXMILE CREEK, headwaters to mouth	1 4A	4.4	MILES	A-1	N	F	F	F	Physical substrate habitat alterations	Rangeland Grazing
		(California Creek)									Sedimentation/Siltation	Silviculture Activities
												Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_110	SEVENMILE CREEK, headwaters to	4A	6.43	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral	Natural Sources
		mouth (Deep Creek)									vegetative covers Sedimentation/Siltation	Rangeland Grazing
												Streambank Modifications/destabilization
Middle Big Hole	MT41D003_120	TWELVEMILE CREEK, headwaters to	5	9.09	MILES	A-1	N	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
•		mouth (Deep Creek)										Silviculture Harvesting
Middle Big Hole	MT41D003_130	CORRAL CREEK, headwaters to mout	h 4A	5.2	MILES	A-1	N	F	F	F	Alteration in stream-side or littoral	Natural Sources
wilding bly Hole	M141D003_130	(Deep Creek)	1 40	J. <u>Z</u>	IVIILLO	Α-1	IN	'		ļ	vegetative covers  Physical substrate habitat alterations	Rangeland Grazing
											Sedimentation/Siltation	Silviculture Activities
								_	_			
Middle Big Hole	MT41D003_160	FISHTRAP CREEK, confluence of Wes Middle Forks to mouth (Big Hole River)	t& 5	5.85	MILES	A-1	N	F	F	1	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
												Water Diversions

**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

<sup>\*</sup> 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		nefic . Ag			Cause Name *	Source Name *
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	I	Flow Regime Modification	
		, •									Phosphorus, Total	
											Sedimentation/Siltation	
Middle Big Hole	MT41D003_170	PINTLAR CREEK, headwaters to mouth	n 5	21.25	MILES	A-1	N	F	F	X	Flow Regime Modification	Crop Production (Irrigated)
		(Big Hole River)									Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Temperature	Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Natural Sources
Middle Big Hole	MT41D003_200	WISE RIVER, headwaters to mouth (Big	1 4A	26.67	MILES	A-1	N	F	F	Х	Alteration in stream-side or littoral	Agriculture
		Hole River)									vegetative covers Cadmium	Channelization
											Copper	Crop Production (Irrigated)
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Rangeland Grazing
												Unspecified Unpaved Road or Trail
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	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Middle Big Hole	MT41D003_220	ELKHORN CREEK, headwaters to mout (Jacobson Creek)	th 4A	7.52	MILES	A-1	N	F	F	F	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	ı	Alteration in stream-side or littoral	Crop Production (Irrigated)
		headwaters to mouth (Big Hole River)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Loss of Riparian Habitat
												Silviculture Activities
North Fork Big Hole	MT41D004_020	MUSSIGBROD CREEK, headwaters to	5	14.62	MILES	A-1	N	F	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		mouth (North Fork Big Hole River)									vegetative covers Flow Regime Modification	Agriculture
											Lead	Crop Production (Crop Land or Dry Land)
											Other anthropogenic substrate alterations	Crop Production (Irrigated)
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Managed Pasture Grazing
												Natural Sources
												Rangeland Grazing
North Fork Big Hole	MT41D004_030	JOHNSON CREEK, headwaters to mou	th 5	15.7	MILES	A-1	N	F	F	I	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(North Fork Big Hole River)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Silviculture Harvesting
											Sedimentation/Siltation	
North Fork Big Hole	MT41D004_040	SCHULTZ CREEK, headwaters to mout	h 5	3.28	MILES	A-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		(Johnson Creek)										Grazing in Riparian or Shoreline Zones



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
North Fork Big Hole	MT41D004_040	SCHULTZ CREEK, headwaters to mout (Johnson Creek)	h 5	3.28	MILES	A-1	N	F	F	F		Silviculture Harvesting
North Fork Big Hole	MT41D004_060	TIE CREEK, headwaters to mouth (Nort Fork Big Hole River)	h 5	16.49	MILES	A-1	N	F	F	F	Nitrogen, Total	Rangeland Grazing
		Tolk big flore (tiver)									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	Grazing in Riparian or Shoreline Zones
		Cleek									Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
												Silviculture Activities
												Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth	4A	10.88	MILES	A-1	N	F	F	F	Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
		(North Fork Big Hole River)									Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
												Silviculture Activities
												Streambank Modifications/destabilization
												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	Х	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(North Fork Big Hole River)									vegetative covers Flow Regime Modification	Dredge Mining
											Physical substrate habitat alterations	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Rangeland Grazing
												Silviculture Activities
												Unspecified Unpaved Road or Trail



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Upper Big Hole	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	5	25	MILES	A-1	N	F	F	х	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)
		(2.9 : 10.0 : 1110.)									Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											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 vegetative covers	Agriculture
		Hole River)									Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Impacts from Hydrostructure Flow Regulation/modification
											Physical substrate habitat alterations	Loss of Riparian Habitat
											Sedimentation/Siltation	
Jpper Big Hole	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	4A	21.88	MILES	A-1	N	1	I	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		(big noie River)										Grazing in Riparian or Shoreline Zones
Jpper Big Hole	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	5	19	MILES	A-1	N	F	F	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		modui (waim Spilligs Cleek)									Copper	Crop Production (Crop Land or Dry Land)
											Flow Regime Modification	Crop Production (Irrigated)
											Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
											Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Rangeland Grazing
												Unspecified Unpaved Road or Trail
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



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Upper Big Hole	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	5	6.85	MILES	A-1	N	F	F	F	Sedimentation/Siltation	
Upper Big Hole	MT41D004_180	WARM SPRINGS CREEK, headwaters mouth (Big Hole River)	to 5	20	MILES	A-1	N	F	F	1	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Crop Production (Irrigated) Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Loss of Riparian Habitat
											Phosphorus, Total	
											Sedimentation/Siltation	
Upper Big Hole	MT41D004_190	STEEL CREEK, headwaters to mouth	5	16.69	MILES	A-1	N	F	N	1	Alteration in stream-side or littoral	Acid Mine Drainage
		(Big Hole River)									vegetative covers Cadmium	Agriculture
											Copper	Crop Production (Crop Land or Dry Land)
											Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Other anthropogenic substrate alterations	Habitat Modification - other than Hydromodification
											Phosphorus, Total	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow
											Sedimentation/Siltation	Regulation/modification Loss of Riparian Habitat
												Rangeland Grazing
												Rural (Residential Areas)
												Unspecified Unpaved Road or Trail
Upper Big Hole	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	h 4A	8.81	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_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	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Upper Big Hole	MT41D004_220	DOOLITTLE CREEK, headwaters to mouth (Big Hole River)	4A	5.59	MILES	A-1	N	F	F	Х	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Agriculture  Crop Production (Irrigated)
											Sedimentation/Siltation	Highways, Roads, Bridges, Infrastructure (New Construction)
Middle Big Hole	MT41D004_230	SAWLOG CREEK, headwaters to mout (Big Hole River)	h 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	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefi L Ag			Cause Name *	Source Name *
Jpper Jefferson	MT41G001_011	JEFFERSON RIVER, headwaters to confluence of Jefferson Slough	5	40.9	MILES	B-1	N	F	F	Х	Flow Regime Modification	Crop Production (Irrigated)
		confidence of Jenerson Slough									Iron	Dam or Impoundment
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow
											Sedimentation/Siltation	Regulation/modification Loss of Riparian Habitat
											Temperature	Natural Sources
												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	Crop Production (Irrigated)
		River)									Flow Regime Modification	Dam or Impoundment
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	Natural Sources
												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 S1	1								vegetative covers Arsenic	Channelization
											Cause Unknown	Crop Production (Irrigated)
											Nitrogen, Total	Dam or Impoundment
											Other anthropogenic substrate alterations	Forest Roads (Road Construction and Use)
											Phosphorus, Total	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
											Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related)
											Temperature	Highways, Roads, Bridges, Infrastructure (New
											Total Suspended Solids (TSS)	Construction) Loss of Riparian Habitat
												Municipal Point Source Discharges
												Sediment Resuspension (Clean Sediment)
												Source Unknown



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		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 mou (Big Pipestone Creek-Jefferson River)	ith 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	X	Flow Regime Modification  Physical substrate habitat alterations  Sedimentation/Siltation	Crop Production (Irrigated) Grazing in Riparian or Shoreline Zones Natural Sources Silviculture Activities Unspecified Unpaved Road or Trail Water Diversions
Upper Jefferson	MT41G002_040	LITTLE PIPESTONE CREEK, headwat 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	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Lead Mercury Physical substrate habitat alterations	Agriculture Channelization Crop Production (Irrigated) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) 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	X	Arsenic Copper Flow Regime Modification Lead Mercury	Acid Mine Drainage  Contaminated Sediments  Impacts from Abandoned Mine Lands (Inactive)  Impacts from Hydrostructure Flow Regulation/modification Mine Tailings



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	Х	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	Х	Flow Regime Modification	Acid Mine Drainage
		confidence to mount (senerson rever)									Temperature	Crop Production (Irrigated)
											Zinc	Impacts from Abandoned Mine Lands (Inactive)
												Water Diversions
Lower Jefferson	MT41G002_090	NORWEGIAN CREEK, headwaters to	5	10.82	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
		mouth (Willow Creek Reservoir)									vegetative covers Arsenic	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	
											Temperature	
Upper Jefferson	MT41G002_100	FISH CREEK, headwaters to mouth	4A	19.87	MILES	B-1	N	F	1	1	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Jefferson Canal), T1S R5W S12									vegetative covers Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Water Diversions
Upper Jefferson	MT41G002_110	CHERRY CREEK, headwaters to mouth	4A	6.88	MILES	B-1	N	F	1	ı	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Jefferson River)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Loss of Riparian Habitat
												Water Diversions
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to	0 5	16.2	MILES	B-1	N	F	F	N	Algae	Agriculture
		mouth (Willow Creek)									Alteration in stream-side or littoral	Crop Production (Irrigated)
											vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Highway/Road/Bridge Runoff (Non-construction Related)
											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	Х	I	Х	Aluminum	Subsurface (Hardrock) Mining



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



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			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	n 4A	9.28	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral	Acid Mine Drainage
		of Boulder									vegetative covers 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	4A	35.85	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		Cottonwood Creek									vegetative covers Arsenic	Contaminated Sediments
											Cadmium	Crop Production (Irrigated)
											Copper	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Habitat Modification - other than Hydromodification
											Iron	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	
											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 R3\ S2	V								vegetative covers Arsenic	Contaminated Sediments
											Cadmium	Crop Production (Irrigated)
											Copper	Forest Roads (Road Construction and Use)
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Iron	Highways, Roads, Bridges, Infrastructure (New Construction)



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	Lead	Impacts from Abandoned Mine Lands (Inactive)
		the mouth (Jefferson Slough), T1N R3W S2	V								Sedimentation/Siltation	Impacts from Hydrostructure Flow
											Temperature	Regulation/modification 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)
											Flow Regime Modification	Silviculture Activities
											Lead	Subsurface (Hardrock) Mining
											Nitrogen, Nitrate	
											Sedimentation/Siltation	
											Turbidity	
											Zinc	
Boulder - Elkhorn	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	4A	11.72	MILES	B-1	N	х	N	F	Aluminum	Acid Mine Drainage
		moutii (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)



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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefi L Ag			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 mou	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	Loss of Riparian Habitat
											Total Suspended Solids (TSS)	Mine Tailings
											Zinc	Rangeland Grazing
												Silviculture Activities
Boulder - Elkhorn	MT41E002_050	LOWLAND CREEK, headwaters to mou	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
											Flow Regime Modification	Habitat Modification - other than Hydromodificatio
											Iron	Highways, Roads, Bridges, Infrastructure (New Construction)



HUC: 10020006 Boulder Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E002_061	ELKHORN CREEK, headwaters to Woo Gulch	od 4A	8.16	MILES	B-1	N	х	N	Х	Lead 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	X	N	Х	Arsenic Cadmium	Acid Mine Drainage  Crop Production (Irrigated)
											Flow Regime Modification  Lead  Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow
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	Regulation/modification Agriculture Channelization
											Copper Iron Nitrogen, Total Phosphorus, Total	Grazing in Riparian or Shoreline Zones  Highway/Road/Bridge Runoff (Non-construction Related)  Highways, Roads, Bridges, Infrastructure (New Construction)  Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_080	LITTLE BOULDER RIVER, headwaters mouth (Boulder River)	to 4A	16.3	MILES	B-1	N	F	F	Х	Sedimentation/Siltation  Alteration in stream-side or littoral vegetative covers  Aluminum	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	Х	F	F	Alteration in stream-side or littoral vegetative covers Aluminum	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mot (Boulder River)	uth 4A	12.83	MILES	B-1	N	х	F	F	Copper Sedimentation/Siltation  Alteration in stream-side or littoral vegetative covers Iron	Impacts from Abandoned Mine Lands (Inactive)  Grazing in Riparian or Shoreline Zones  Impacts from Abandoned Mine Lands (Inactive)



HUC: 10020006 Boulder Watershed: Missouri Headwaters

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mou	th 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	th 4A	6.44	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Dam or Impoundment
		(Boulder River)									vegetative covers Fish Passage Barrier	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Sediment Resuspension (Clean Sediment)
											Phosphorus, Total	Source Unknown
											Sedimentation/Siltation	Water Diversions
Boulder - Elkhorn	MT41E002_130	NURSERY CREEK, headwaters (east	4A	1.4	MILES	B-1	N	Х	X	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	



<b>HUC:</b> 10020007	Madison	vvate	rsnea: r	viissou	п пеас	iwaters	•					
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Madison	MT41F001_010	MADISON RIVER, Madison Dam to mouth (Missouri River)	5	41.31	MILES	B-1	N	Х	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	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	1	Х	N	F	Arsenic	Natural Sources
Madison	MT41F001_030	MADISON RIVER, Hebgen Dam to Qual	ke 5	2.29	MILES	B-1	1	Х	N	F	Arsenic	Natural Sources
Madison	MT41F002_010	CHERRY CREEK, headwaters to mouth	5	24	MILES	B-1	Ν	Х	Χ	X	Sedimentation/Siltation	Agriculture
		(Madison River)									Temperature	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	Crop Production (Irrigated)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Non-Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Habitat Modification - other than Hydromodification
											Sedimentation/Siltation	Impacts from Abandoned Mine Lands (Inactive)
											Selenium	Loss of Riparian Habitat
											Temperature	Natural Sources
											Turbidity	Streambank Modifications/destabilization
Madison	MT41F002_030	HOT SPRINGS CREEK, headwaters to	5	14	MILES	B-1	N	Х	F	N	Flow Regime Modification	Crop Production (Irrigated)
		mouth (Madison River)									Iron	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Impacts from Hydrostructure Flow Regulation/modification
											Phosphorus, Total	Unspecified Unpaved Road or Trail
											Sedimentation/Siltation	Water Diversions



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U		Cause Name *	Source Name *
Madison	MT41F004_010	BLAINE SPRING CREEK, headwaters	to 5	4.95	MILES	B-1	N	Х	N	N	Algae	Aquaculture (Permitted)
		mouth (Madison River, T7S R1W S6)									Arsenic	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Natural Sources
											Nitrogen, Total	Streambank Modifications/destabilization
											Sedimentation/Siltation	Water Diversions
Madison	MT41F004_020	O'DELL SPRING CREEK, headwaters t	o 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	Crop Production (Irrigated)
											Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Habitat Modification - other than Hydromodification
												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	s 4C	6.34	MILES	B-1	N	Х	Χ	Х	Alteration in stream-side or littoral	Agriculture
		boundary to mouth (Madison River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
												Impacts from Hydrostructure Flow Regulation/modification 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	Crop Production (Irrigated)
		(Madison Kivor, 100 Kriv 020)									Flow Regime Modification	Grazing in Riparian or Shoreline Zones
												Streambank Modifications/destabilization
Madison	MT41F004_060	NORTH MEADOW CREEK, headwaters to mouth (Ennis Lake)	s 5	18.53	MILES	B-1	N	Χ	F	F	Flow Regime Modification	Channelization
		to moun (Limis Lake)									Sedimentation/Siltation	Crop Production (Irrigated)
												Grazing in Riparian or Shoreline Zones
												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		nefic . Ag			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 modul (Elino Edito)									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	X	Х	Х	Flow Regime Modification	Crop Production (Irrigated)
		(Wadison Kiver)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification Unspecified Unpaved Road or Trail
Madison	MT41F004_100	WEST FORK MADISON RIVER,	5	39.41	MILES	B-1	N	F	F	F	Temperature	Agriculture
		headwaters to mouth (Madison River)										Crop Production (Irrigated)
												Impacts from Hydrostructure Flow Regulation/modification Water Diversions
Madison	MT41F004_130	MOORE CREEK, springs to mouth	5	15.83	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Fletcher Channel), T5S R1W S15									vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones
											Escherichia coli (E. Coli)	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Loss of Riparian Habitat
											Phosphorus, Total	Natural Sources
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Temperature	Rural (Residential Areas)
												Streambank Modifications/destabilization
												Transfer of Water from an Outside Watershed
Madison	MT41F004_140	ANTELOPE CREEK, headwaters to	5	9.48	MILES	B-1	N	х	Х	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Cliff Lake)									vegetative covers Flow Regime Modification	Channelization
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Loss of Riparian Habitat
												Unspecified Unpaved Road or Trail

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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		Water Diversions
Madison	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison Rive	5 er	4.36	MILES	B-1	I	Х	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	Х	N	Х	Arsenic	Habitat Modification - other than Hydromodification
											Flow Regime Modification	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	X	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth (Hebgen Lake)									vegetative covers Flow Regime Modification	Natural Sources
											Sedimentation/Siltation	Silviculture Activities
												Unspecified Unpaved Road or Trail
Madison	MT41F006_030	WATKINS CREEK, headwaters to moutl (Hebgen Lake)	h 5	7.08	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		(Hobgon Lake)									Flow Regime Modification	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			ial U DW		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	Х	Flow Regime Modification	Crop Production (Irrigated)
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 Escherichia coli (E. Coli)	Agriculture Animal Feeding Operations (NPS)
											Flow Regime Modification	Channelization
											Nitrogen, Total	Crop Production (Crop Land or Dry Land)
											Other anthropogenic substrate alterations	Crop Production (Irrigated)
											Phosphorus, Total	Grazing in Riparian or Shoreline Zones
											Physical substrate habitat alterations	Natural Sources
											Sedimentation/Siltation	Unrestricted Cattle Access
												Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H002_020	GODFREY CREEK, headwaters to mou	th 4A	9	MILES	B-1	N	Х	Х	N	Algae	Agriculture
		(Moreland Ditch), T1S R3E S12									Alteration in stream-side or littoral	Animal Feeding Operations (NPS)
											vegetative covers Escherichia coli (E. Coli)	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, Middl Creek Assoc Ditch diversion to mouth (Gallatin River)	e 4C	6.26	MILES	B-1	N	F	F	1	Flow Regime Modification	Crop Production (Irrigated)
Lower Gallatin	MT41H003_010	EAST GALLATIN RIVER, confluence of	4A	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 411	to 4A	22.12	MILES	B-2	N	х	Х	N	Algae	Crop Production (Crop Land or Dry Land)
		Smith Creek									Alteration in stream-side or littoral	Crop Production (Irrigated)
											vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											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	Category	y Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Lower Gallatin	MT41H003_020	EAST GALLATIN RIVER, MT HWY 411	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 t	o 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	
											pH	
Lower Gallatin	MT41H003_040	SOURDOUGH CREEK, confluence of	4A	4.88	MILES	B-1	N	Х	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	Crop Production (Irrigated)
		S6									Escherichia coli (E. Coli)	Grazing in Riparian or Shoreline Zones
											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 mout (Rocky Creek)	th 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	i 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 (E. Coli)	Livestock (Grazing or Feeding Operations)

**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

<sup>\*</sup> 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: 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	d 4A	6.76	MILES	B-1	N	Х	Х	N	Nitrate	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 (E. Coli)	Agriculture
		(Smith Creek)									Nitrate	Crop Production (Crop Land or Dry Land)
											Nitrogen, Total	
											Sediment	
Lower Gallatin	MT41H003_080	ROCKY CREEK, confluence of Jackson	n 4A	7.94	MILES	B-1	N	Х	Х	Х	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 (Rocky Creek)	4A	10.15	MILES	B-1	N	Х	Х	N	Algae	Crop Production (Crop Land or Dry Land)
		(ROCKY Cleek)									Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Silviculture Harvesting
											Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_090	THOMPSON CREEK (Thompson Sprin		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
											Nitrogen, Total	Crop Production (Crop Land or Dry Land)
												Grazing in Riparian or Shoreline Zones

<sup>\*</sup>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.



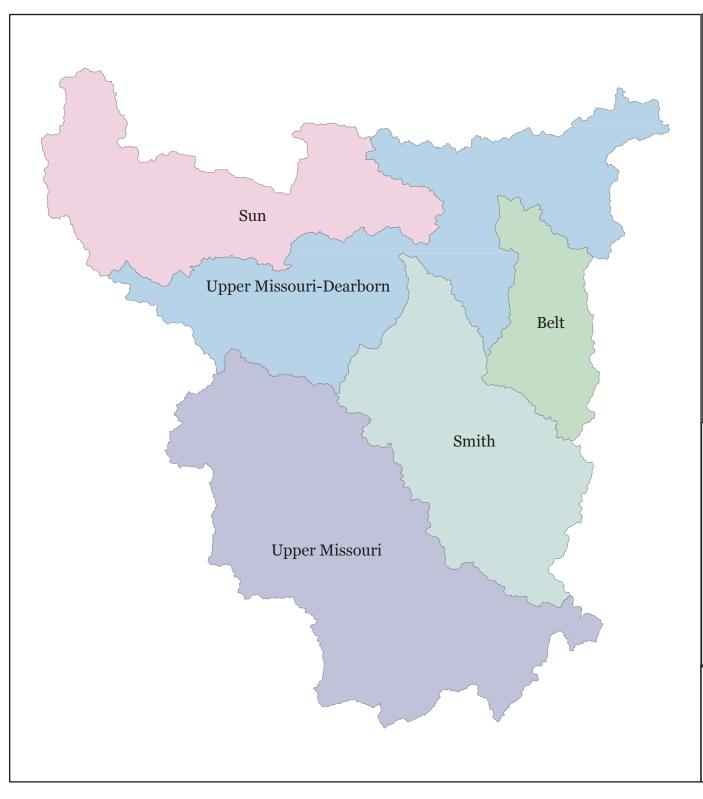
HUC: 10020008 Gallatin Watershed: Missouri Headwaters

Lower Gallatin  MT41H003_100  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  MT41H003_110  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  MT41H003_110  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  MT41H003_110  MT41H003_120  MT41H003_120  MT41H003_120  MT41H003_132  MT41H003	Shoreline Zones reas
Lower Gallatin MT41H003_110 BRIDGER CREEK, headwaters to mouth (East Gallatin River)  And In the provided of the provided in the mouth (East Gallatin River)  And In the provided in the mouth (East Gallatin River)  And In the provided in the mouth (East Gallatin River)  And In the provided in the mouth (East Gallatin River)  And In the provided in the mouth (East Gallatin River)  And In the provided in the provided in the mouth (East Gallatin River)  And In the provided in the provided in the mouth (East Gallatin River)  And In the provided in the provided in the provided in the mouth (East Gallatin River)  And In the provided in t	Shoreline Zones reas
Lower Gallatin  MT41H003_110  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  APPROVED  APPROVED  APPROVED  APPROVED  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  APPROVED  APPROVED  APPROVED  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  APPROVED  APPROVED  APPROVED  BRIDGER CREEK, headwaters to mouth (East Gallatin River)  APPROVED  APPR	reas
(East Gallatin River)    Cast Gallatin River)   Mitrate/Nitrite (Nitrite + Nitrate as N)   Impacts from Resort Al Unspecified Unpaved for the Nitrate of Production (Bridger Creek)   Miles   B-1   N   X   X   X   Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation   Grazing in Riparian or vegetative covers Sedimentation/Siltation   Miles Sedimentation/S	reas
Lower Gallatin MT41H003_120 STONE CREEK, headwaters to mouth (Bridger Creek)  Lower Gallatin MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE CREEK, Bozeman water supply intake to the mouth (East Gallatin River)  MT41H003_132 HYALITE	
Lower Gallatin MT41H003_120 STONE CREEK, headwaters to mouth (Bridger Creek)  And the mouth (East Gallatin River)  MT41H003_132 STONE CREEK, headwaters to mouth (Bridger Creek)  And the mouth (East Gallatin River)  And the mouth (East Gallatin River)  And Stone Creek, MILES B-1 N X X X Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation  Sedimentation/Siltation  And X X X N Flow Regime Modification  Crop Production (Irrigation Residential Districts Sedimentation/Siltation  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Sedimentation/Siltation  Flow Regime Modification  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Flow Regime Modification  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Flow Regime Modification  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Flow Regime Modification  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Flow Regime Modification  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetative covers Sedimentation/Siltation  Nitrogen, Total  Managed Pasture Grazing In Riparian or Vegetation Covers Sedimentation/Siltation  Note of the Managed Pasture Grazing In Riparian Or Vegetation Covers Sedimentation/Si	Road or Trail
(Bridger Creek)  (Bridg	
Sedimentation/Siltation Residential Districts Silviculture Harvesting Unspecified Unpaved Managed Pasture Grad  Lower Gallatin MT41H003_132 HYALITE CREEK, Bozeman water supply 4A 20.99 MILES B-1 N X X N Flow Regime Modification Crop Production (Irrigation intake to the mouth (East Gallatin River)  Nitrogen, Total Leaking Underground States Grad  Managed Pasture Grad  Mana	Shoreline Zones
Lower Gallatin MT41H003_132 HYALITE CREEK, Bozeman water supply 4A 20.99 MILES B-1 N X X N Flow Regime Modification Crop Production (Irrigan intake to the mouth (East Gallatin River) Nitrogen, Total Leaking Underground S Managed Pasture Graves	
Lower Gallatin MT41H003_132 HYALITE CREEK, Bozeman water supply 4A 20.99 MILES B-1 N X X N Flow Regime Modification Crop Production (Irrigatintake to the mouth (East Gallatin River) Nitrogen, Total Leaking Underground S Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River) Nitrogen, Total Managed Pasture Grant Control of the mouth (East Gallatin River)	
intake to the mouth (East Gallatin River)  Nitrogen, Total  Leaking Underground S  Managed Pasture Graz	Road or Trail
Nitrogen, Total Leaking Underground Managed Pasture Grazie	ted)
·	3torage Tanks
	ring
Natural Sources	
Upper Gallatin MT41H005_010 STORM CASTLE CREEK, headwaters to 5 14.19 MILES B-1 N F X F Alteration in stream-side or littoral Forest Roads (Road C the mouth (Gallatin River), T4S R4E S33	onstruction and Use)
Phosphorus, Total Natural Sources	
Physical substrate habitat alterations Silviculture Activities	
Upper Gallatin MT41H005_020 TAYLOR FORK, Lee Metcalf Wilderness 5 13.98 MILES B-1 N X X F Physical substrate habitat alterations Silviculture Activities	
boundary to mouth (Gallatin River)  Sedimentation/Siltation  Site Clearance (Land I Redevelopment)	evelopment or
Upper Gallatin MT41H005_030 CACHE CREEK, headwaters to mouth 5 4.66 MILES B-1 N F X F Alteration in stream-side or littoral Agriculture	
(Taylor Fork) vegetative covers Physical substrate habitat alterations Forest Roads (Road C	onstruction and Use)
Sedimentation/Siltation Silviculture Activities	
	tems (Septic Systems and
confluence Middle and North Forks to  Similar Decentralized S  mouth (Gallatin River)  Nitrate/Nitrite (Nitrite + Nitrate as N)  Silviculture Activities	ystems)
Nitrogen, Total Site Clearance (Land D	Development or
Redevelopment) Phosphorus, Total	



HUC: 10020008 Gallatin Watershed: Missouri Headwaters

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



## **Upper Missouri Sub-Major Basin**

**Upper Missouri River Basin** 

USGS HUC	<b>HUC NAME</b>
10030101	Upper Missouri
10030102	Upper Missouri-Dearborn
10030103	Smith
10030104	Sun
10030105	Belt



Montana Department of Environmental Quality



HUC: 10030101 Upper Missouri Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri River	MT41I001_011	MISSOURI RIVER, headwaters to Tost	ton 5	21.95	MILES	B-1	N	F	N	F	Arsenic	Crop Production (Irrigated)
		Dam									Flow Regime Modification	Crop Production (Non-Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Municipal Point Source Discharges
												Natural Sources
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	Agriculture
		Canyon Ferry Reservoir									vegetative covers Cadmium	Crop Production (Irrigated)
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Flow Regime Modification	
											Lead	
											Sedimentation/Siltation	
Canyon Ferry	MT41I002_010	AVALANCHE CREEK, headwaters to	4C	16.71	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Agriculture
		mouth (Canyon Ferry Reservoir)										Crop Production (Irrigated)
Canyon Ferry	MT41I002_020	BATTLE CREEK, headwaters to mouth	n 5	22.76	MILES	B-1	N	F	F	1	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Sixteenmile Creek)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
Canyon Ferry	MT41I002_030	BEAVER CREEK, headwaters to mouth	h 5	14.74	MILES	B-1	N	F	N	Х	Cadmium	Agriculture
		(Canyon Ferry Reservoir)									Chromium, Total	Crop Production (Irrigated)
											Flow Regime Modification	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Phosphorus, Total	
											Silver	
											Zinc	
Canyon Ferry	MT41I002_041	CONFEDERATE GULCH, headwaters Hunter Gulch	to 5	10.04	MILES	B-1	N	F	Х	X	Alteration in stream-side or littoral vegetative covers	Agriculture

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		nefic . Ag			Cause Name *	Source Name *
Canyon Ferry	MT41I002_041	CONFEDERATE GULCH, headwaters	to 5	10.04	MILES	B-1	N	F	Х	Х	Cadmium	Channelization
		Hunter Gulch									Flow Regime Modification	Dredge Mining
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Highway/Road/Bridge Runoff (Non-construction
											Physical substrate habitat alterations	Related) Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
												Placer Mining
Canyon Ferry	MT41I002_042	CONFEDERATE GULCH, Hunter Gulch	n 5	5.21	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Agriculture
		to mouth (Canyon Ferry Reservoir)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Irrigated)
											Phosphorus, Total	Dredge Mining
											Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
Canyon Ferry	MT41I002_050	CROW CREEK, National Forest bounda	ary 5	15.89	MILES	B-1	N	N	F	Х	Alteration in stream-side or littoral	Agriculture
		to mouth (Missouri River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Habitat Modification - other than Hydromodification
											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 bounda to mouth (Missouri River)	ry 5	20.35	MILES	B-1	N	Х	Χ	1	Flow Regime Modification	Channelization
		to mouth (wissouth Niver)									Temperature	Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
												Water Diversions
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth (Missouri River)	5	21.56	MILES	B-1	N	F	F	I	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Crop Production (Irrigated)  Forest Roads (Road Construction and Use)



TMDL Planning	IDOS	Waterbody	Cotomo	. 0:	He't	Use	Ве	enefic	cial L	Jse	Course Name *	Causa Nama t
Area	ID305B	Name/Location	Category	Size	Units	Class					Cause Name *	Source Name *
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth	5	21.56	MILES	B-1	N	F	F	1	Phosphorus, Total	Grazing in Riparian or Shoreline Zones
		(Missouri River)									Sedimentation/Siltation	
											Temperature	
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	Х	N	Х	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	I	Alteration in stream-side or littoral	Crop Production (Irrigated)
, ,		(Canyon Ferry Reservoir)	-			•		•	•		vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Placer Mining
											Gedimentation/Sination	



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	X	Mercury	Impacts from Abandoned Mine Lands (Inactive)
Canyon Ferry	MT41I002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	6.42	MILES	B-1	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)	ers 5	5.87	MILES	B-1	Х	Х	N	Х	Arsenic	Acid Mine Drainage
		to mouth (maian Cleek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Mercury	
Missouri River	MT41I003_010	CANYON FERRY RESERVOIR	5	32810	ACRES	B-1	N	N	N	N	Algae	Acid Mine Drainage
											Ammonia, Un-ionized	Agriculture
											Arsenic	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	Flow Regime Modification	Dam or Impoundment
		Prickly Pear Creek									Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Municipal Point Source Discharges
											Sedimentation/Siltation	Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
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)



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Holter	MT41I005_012	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	Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones
Canyon Ferry	MT41I005_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
Holter	MT41I005_040	VIRGINIA CREEK, headwaters to mout (Canyon Creek)	h 5	8.25	MILES	B-1	N	F	F	F	Lead	Impacts from Abandoned Mine Lands (Inactive)
Holter	MT41I005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	5	23.9	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Agriculture Forest Roads (Road Construction and Use)
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	Silviculture Activities
												Water Diversions
Holter	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 Flow Regime Modification Physical substrate habitat alterations Temperature	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Loss of Riparian Habitat Water Diversions
Holter	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)
Lake Helena	MT41I006_020	PRICKLY PEAR CREEK, Helena WWT Discharge Ditch to Lake Helena	P 5	4.15	MILES	I	N	F	N	I	Alteration in stream-side or littoral vegetative covers Ammonia, Un-ionized	Acid Mine Drainage Agriculture
											Arsenic	Contaminated Sediments
											Cadmium	Grazing in Riparian or Shoreline Zones
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Flow Regime Modification	Industrial Point Source Discharge
											Lead	Municipal (Urbanized High Density Area)
											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	P 5	4.15	MILES	1	N	F	N	I	Nitrogen, Total	Rural (Residential Areas)
		Discharge Ditch to Lake Helena									Phosphorus, Total	Unspecified Unpaved Road or Trail
											Physical substrate habitat alterations	Water Diversions
											Sedimentation/Siltation	
											Temperature	
											Zinc	
Lake Helena	MT41I006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP	5	6.54	MILES	1	N	х	N	I	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		Discharge									Ammonia, Un-ionized	Agriculture
											Arsenic	Contaminated Sediments
											Cadmium	Crop Production (Irrigated)
											Copper	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Habitat Modification - other than Hydromodification
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Industrial Point Source Discharge
											Phosphorus, Total	Municipal (Urbanized High Density Area)
											Physical substrate habitat alterations	Municipal Point Source Discharges
											Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Temperature	Rural (Residential Areas)
											Zinc	Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_040	PRICKLY PEAR CREEK, Lump Gulch County Road Wylie Drive	to 4A	10.84	MILES	B-1	N	х	N	Х	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		County Road Wylle Blive									Arsenic	Channelization
											Cadmium	Contaminated Sediments
											Copper	Highways, Roads, Bridges, Infrastructure (New Construction)
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Industrial Point Source Discharge
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	Water Diversions
											Zinc	



TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U DW	Jse Rec	Cause Name *	Source Name *
Lake Helena	MT41I006_050	PRICKLY PEAR CREEK, Spring Creek Lump Gulch	to 4A	7.05	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		Lump Guich									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	Mine Tailings
											Physical substrate habitat alterations	Placer Mining
											Sedimentation/Siltation	Streambank Modifications/destabilization
											Zinc	
Lake Helena	MT41I006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	4A	8.84	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage
		Opining Orocik									Lead	Highways, Roads, Bridges, Infrastructure (New Construction)
											Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Total Suspended Solids (TSS)	Loss of Riparian Habitat
												Placer Mining
												Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S	4A	2.92	MILES	B-1	N	Х	N	Х	Cadmium	Impacts from Abandoned Mine Lands (Inactive)
		mount (1 notify 1 can orosity, 1711 town									Lead	Mine Tailings
												Subsurface (Hardrock) Mining
Lake Helena	MT41I006_080	SPRING CREEK, Corbin Creek to mout	h 4A	1.74	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Acid Mine Drainage
		(Prickly Pear Creek)									vegetative covers Arsenic	Agriculture
											Cadmium	Channelization
											Copper	Contaminated Sediments
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Lead	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)	
											Zinc	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lake Helena	MT41I006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		(Spring Greek)									Arsenic	Dam or Impoundment
											Cadmium	Mill Tailings
											Copper	Mine Tailings
											Iron	
											Lead	
											Sediment	
											Silver	
											Temperature	
											Zinc	
											рН	
Lake 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)
		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	
Lake 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	
Lake 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)



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U 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)	<b>4</b> A	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	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	MT41l006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.5 Long -112.214	4A 73	7.32	MILES	A-1	N	N	N	X	Zinc  Arsenic  Cadmium  Copper  Flow Regime Modification  Lead  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	MT41l006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	<b>4</b> A	16.38	MILES	B-1	N	X	N	X	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Eutrophication	Acid Mine Drainage Agriculture Channelization Crop Production (Irrigated) Habitat Modification - other than Hydromodification



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear	4A	16.38	MILES	B-1	N	Х	N	Х	Flow Regime Modification	Highways, Roads, Bridges, Infrastructure (New Construction)
		Creek)									Lead	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Impacts from Hydrostructure Flow
											Phosphorus, Total	Regulation/modification Site Clearance (Land Development or
											Sedimentation/Siltation	Redevelopment)
											Zinc	
Lake Helena	MT41I006_150	SILVER CREEK, headwaters to T11N R4W S30 / S31 to Lake Helena	5	22.1	MILES	B-1	N	х	N	Х	Arsenic	Agriculture
		N4W 3307 331 to Lake Helelia									DDE (Dichlorodiphenyldichloroethylene)	Crop Production (Irrigated)
											Flow Regime Modification	Dredge Mining
											Mercury	Mill Tailings
											Other anthropogenic substrate alterations	Subsurface (Hardrock) Mining
Lake Helena	MT41I006_160	SEVENMILE CREEK, headwaters to	4A	8.45	MILES	B-1	N	Х	N	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Tenmile Creek)									vegetative covers Arsenic	Channelization
											Copper	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Impacts from Abandoned Mine Lands (Inactive)
											Lead	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	
											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	X	Х	Х	Zinc	Impacts from Abandoned Mine Lands (Inactive)



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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			DW		Cause Name *	Source Name *
Lake Helena	MT41I006_210	JENNIES FORK, headwaters to mouth	5	1.36	MILES	B-1	N	F	N	F	Lead	Forest Roads (Road Construction and Use)
		(Silver 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	1 4A	7.81	MILES	B-1	N	Х	I	X	Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lake Helena	MT41I006_230	GRANITE CREEK, headwaters to mout	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	Crop Production (Irrigated)
											Nitrogen, Total	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus, Total	Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges
												Natural Sources
												Rangeland Grazing
Missouri River	MT41I007_020	HOLTER LAKE	5	4358	ACRES	B-1	N	Х	Х	Х	Mercury	Atmospheric Deposition - Toxics
												Historic Bottom Deposits (Not Sediment)
												Illegal Dumps or Other Inappropriate Waste Dispos
												Impacts from Abandoned Mine Lands (Inactive)
												Placer Mining
												Source Unknown
Missouri River	MT41I007_040	HAUSER LAKE	5	3190	ACRES	B-1	N	х	N	F	Arsenic	Acid Mine Drainage
											DDT (Dichlorodiphenyltrichloroethane)	Agriculture
											Dissolved Oxygen	Atmospheric Deposition - Toxics
											Endosulfan sulfate	Contaminated Sediments
											Endrin aldehyde	Dam Construction (Other than Upstream Flood Control Projects)



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri River	MT41I007_040	HAUSER LAKE	5	3190	ACRES	B-1	N	Х	N	F	Mercury	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	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			ial U DW		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
		Dam									Mercury	Crop Production (Irrigated)
											Physical substrate habitat alterations	Dam Construction (Other than Upstream Flood
											Polychlorinated Biphenyls (PCBs)	Control Projects) Industrial Point Source Discharge
											Sedimentation/Siltation	Industrial/Commercial Site Stormwater Discharge
											Selenium	(Permitted)
											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 (PCBs)	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Industrial Point Source Discharge
											Temperature	Natural Sources
											Turbidity	Post-development Erosion and Sedimentation
Missouri River	MT41Q001_014	MISSOURI RIVER, Morony Dam to	5	54.62	MILES	B-3	N	F	N	N	Aluminum	Agriculture
		Marias River									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 Creek to Sheep Creek	5	20.93	MILES	B-1	N	F	N	F	Arsenic	Crop Production (Irrigated)
		Oleek to Slieeh Cleek									Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	rregulation/introdiffication



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Missouri River	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	5	20.93	MILES	B-1	N	F	N	F		Natural Sources
Missouri River	MT41Q001_022	MISSOURI RIVER, Sheep Creek to St River	in 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	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	5	19.03	MILES	B-3	N	N	N	×	Cadmium Flow Regime Modification Salinity Sedimentation/Siltation Selenium Zinc	Agriculture  Crop Production (Irrigated)  Impacts from Hydrostructure Flow Regulation/modification
Missouri Cascade	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek Missouri River)		4.32	MILES	B-1	N	X	N	X	Aluminum Arsenic Cadmium Copper Iron Lead Nickel Zinc	Acid Mine Drainage Subsurface (Hardrock) Mining
Missouri Cascade	MT41Q002_030	NUMBER FIVE COULEE, headwaters mouth (Cottonwood Creek)	to 5	13.68	MILES	B-1	N	X	N	×	Aluminum Cadmium Iron Lead Nickel Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missou		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 mou (Missouri River)	th 5	48.26	MILES	B-1	N	F	F	Х	Temperature	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 modul (Declipoli (NVCI)										Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_030	SOUTH FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	4A	16.14	MILES	B-1	N	F	х	F	Flow Regime Modification	Grazing in Riparian or Shoreline Zones
		neadwaters to modiff (Dearboth River)									Sedimentation/Siltation	Habitat Modification - other than Hydromodification
												Water Diversions
Dearborn	MT41Q003_040	FLAT CREEK, Henry Creek to mouth	4A	15.92	MILES	B-1	N	F	Х	F	Flow Regime Modification	Grazing in Riparian or Shoreline Zones
		(Dearborn River)									Sedimentation/Siltation	Habitat Modification - other than Hydromodification
												Water Diversions
Benton Lake	MT41Q005_020	BENTON LAKE	5	5345.1	ACRES	B-3	N	N	N	N	Algae	Agriculture
											Nitrogen, Total	Crop Production (Irrigated)
											Salinity	
											Selenium	
											Sulfate	



HUC: 10030103 Smith Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Smith	MT41J001_010	SMITH RIVER, North and South Forks t	o 5	98.1	MILES	B-1	N	F	F	N	Escherichia coli (E. Coli)	Agriculture
		Hound Creek									Flow Regime Modification	Crop Production (Irrigated)
											Phosphorus, Total	Rangeland Grazing
Smith	MT41J001_020	SMITH RIVER, Hound Creek to mouth	5	24.14	MILES	B-1	N	F	F	1	Alteration in stream-side or littoral	Agriculture
		(Missouri River)									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Other anthropogenic substrate alterations	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Rangeland Grazing
											Physical substrate habitat alterations	
											Temperature	
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 (E. 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 (E. 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	X	Х	Х	N	Escherichia coli (E. Coli)	Source Unknown
Smith	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	5	10.41	MILES	B-1	N	F	F	F	Flow Regime Modification	Crop Production (Irrigated)
		(Gallias Gleen)									Nitrogen, Total	Livestock (Grazing or Feeding Operations)



HUC: 10030103 Smith Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW	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 Sedimentation/Siltation Temperature	
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
Smith	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	5	9.01	MILES	B-1	N	F	F	N	Sedimentation/Siltation  Alteration in stream-side or littoral vegetative covers Escherichia coli (E. Coli)  Flow Regime Modification	Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones
0.11	MT44 1000 000	NEW AN OPER'S	_	40.0		D.4		_	_	_	Sedimentation/Siltation Temperature	
Smith	MT41J002_082	NEWLAN CREEK, headwaters to New Reservoir	lan 5	13.3	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Cadmium	Grazing in Riparian or Shoreline Zones  Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Transfer of Water from an Outside Watershed
Smith	MT41J002_100	LITTLE CAMAS CREEK, headwaters to mouth (Camas Creek)	0 5	3.82	MILES	B-1	N	F	F	N	Chlorophyll-a Nitrogen, Total Temperature	Rangeland Grazing
Smith	MT41J002_110	CAMAS CREEK, junction of Big and Li Camas Creeks to mouth (Smith River)	ttle 5	14.28	MILES	B-1	Х	Х	Х	N	Escherichia coli (E. Coli)	Source Unknown
Smith	MT41J002_120	MOOSE CREEK, headwaters to mouth (Sheep Creek)	5	11.63	MILES	B-1	N	F	F	I	Aluminum	Natural Sources



**HUC:** 10030104 Sun Watershed: Upper Missouri

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial ( DW		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 Flow Regime Modification	Channelization
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
											Temperature	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	Flow Regime Modification	Agriculture
		(MISSOUTI RIVET)									Nitrogen, Total	Channelization
											Phosphorus, Total	Crop Production (Irrigated)
											Sedimentation/Siltation	Rangeland Grazing
											Total Suspended Solids (TSS)	
Sun	MT41K002_010	MUDDY CREEK, headwaters to mouth	n 4A	35.84	MILES	1	N	N	N	N	Nitrogen, Total	Agriculture
		(Sun River)									Phosphorus, Total	Channel Erosion/Incision from Upstream
											Salinity	Hydromodifications Crop Production (Crop Land or Dry Land)
											Sedimentation/Siltation	Habitat Modification - other than Hydromodification
											Selenium	Streambank Modifications/destabilization
											Sulfate	
											Temperature	
											Total Dissolved Solids (TDS)	
Sun	MT41K002_020	FORD CREEK, from two miles above Smith Creek (T20N R8W S25) to mout (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 mou (Sun River Valley Ditch)	th 5	3.6	MILES	B-1	Х	Х	х	Ν	Escherichia coli (E. 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			ial U DW		Cause Name *	Source Name *
Belt	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	r 5	50.77	MILES	B-1	N	N	N	X	Alteration in stream-side or littoral vegetative covers Cadmium	Acid Mine Drainage 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	ı	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	Χ	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	th 4A	3.47	MILES	B-1	N	Х	N	Х	Arsenic	Acid Mine Drainage
		(Dry Fork Belt Creek)									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Copper	Mine Tailings



**HUC:** 10030105 Belt Watershed: Upper Missouri

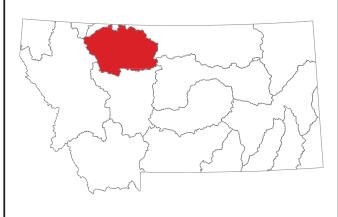
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Belt	MT41U002_020	GALENA CREEK, headwaters to mouth	4A	3.47	MILES	B-1	N	х	N	Х	Iron	
		(Dry Fork Belt Creek)									Lead	
											Zinc	
Belt	MT41U002_030	DRY FORK BELT CREEK, headwaters	to 5	18.88	MILES	B-1	N	х	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	
Belt	MT41U002_040	LITTLE BELT CREEK, three miles	5	3.24	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
		upstream to mouth (Belt Creek)									vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Loss of Riparian Habitat
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
Belt	MT41U002_050	BIG OTTER CREEK, headwaters to	5	33.49	MILES	B-1	N	х	x	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)

# Cut Bank Willow Two Medicine Marias Teton

## Marias Sub-Major Basin

### **Lower Missouri River Basin**

USGS HUC	<b>HUC NAME</b>
10030201	Two Medicine
10030202	Cut Bank
10030203	Marias
10030204	Willow
10030205	Teton



## Montana Department of Environmental Quality



HUC: 10030201 Two Medicine Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag		se Rec	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	Flow Regime Modification  Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Irrigated)
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	Flow Regime Modification  Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture  Crop Production (Crop Land or Dry Land)
											Sedimentation/Siltation	Crop Production (Irrigated)
											Temperature	Water Diversions



**HUC:** 10030202 Cut Bank Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag		Jse / 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 Conductivity	
											Total Dissolved Solids (TDS)	
Cut Bank - Two Medicine	MT41L001_040	CUT BANK CREEK, Blackfeet Reservation boundary to mouth (Maria:	5	21.07	MILES	B-2	N	F	F	N	Flow Regime Modification	Crop Production (Irrigated)
		River)	3								Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Non-Irrigated)
											Temperature	Municipal Point Source Discharges
												Water Diversions



**HUC:** 10030203 Marias Watershed: Marias

TMDL Planning	ID305B	Waterbody	Category	Size	Units	Use			cial U		Cause Name *	Source Name *
Area		Name/Location				Class	AqL	. Ag	DW	Rec		
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	Agriculture
											Salinity	
Marias - Willow	MT41P002_050	CORRAL CREEK, headwaters to mout (Cottonwood Creek)	th 5	22.98	MILES	B-2	N	х	Х	Х	Phosphorus, Total	Agriculture



**HUC:** 10030204 Willow Watershed: Marias

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



**HUC:** 10030205 Teton Watershed: Marias

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Sun	MT41K004_030	FREEZEOUT LAKE	5	3013.2	ACRES	B-2	N	N	N	N	Aquatic Plants (Macrophytes)	Agriculture
											Phosphorus, Total	Crop Production (Irrigated)
											Selenium	Source Unknown
											Sulfate	
											Total Dissolved Solids (TDS)	
Teton	MT41O001_010	TETON RIVER, Muddy Creek to mouth	4A	121.42	MILES	B-3	N	F	F	F	Flow Regime Modification	Agriculture
		(Marias River)									Salinity	Channelization
											Sedimentation/Siltation	Crop Production (Irrigated)
											Sulfate	Highways, Roads, Bridges, Infrastructure (New
											Total Dissolved Solids (TDS)	Construction) Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
												Water Diversions
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 Flow Regime Modification	Channelization
											Salinity	Crop Production (Crop Land or Dry Land)
											Sulfate	Grazing in Riparian or Shoreline Zones
											Temperature	Impacts from Hydrostructure Flow Regulation/modification
											Total Dissolved Solids (TDS)	Municipal Point Source Discharges
											Total Suspended Solids (TSS)	Streambank Modifications/destabilization
												Water Diversions
Teton	MT41O001_030	TETON RIVER, North and South Forks	to 4C	31.56	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Channelization
		Deep Creek									vegetative covers Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
												Water Diversions
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 Habitat Alterations	Streambank Modifications/destabilization
											Sedimentation/Siltation	



**HUC:** 10030205 Teton Watershed: Marias

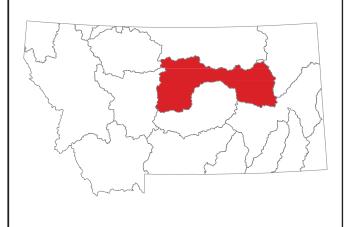
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Teton	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	4A	9.57	MILES	B-1	N	F	х	N	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Habitat Alterations Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Agriculture  Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat  Streambank Modifications/destabilization  Water Diversions
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 Flow Regime Modification	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	X	N	Alteration in stream-side or littoral vegetative covers Habitat Alterations 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	Х	Х	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Sedimentation/Siltation Temperature	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat Water Diversions
Teton	MT41O004_020	PRIEST BUTTE LAKE	4A	446.5	ACRES	B-2	N	N	N	X	Salinity Selenium Sulfate Total Dissolved Solids (TDS)	Agriculture  Crop Production (Irrigated)  Impacts from Hydrostructure Flow Regulation/modification

# Bullwhacker-Dog Fort Peck Reservoir Big Dry Little Dry

# Fort Peck Lake Sub-Major Basin

### **Missouri River Basin**

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



# **Montana Department of Environmental Quality**



**HUC:** 10040101 Bullwhacker-Dog 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	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	5	102.05	MILES	B-3	N	F	F	Х	Alteration in stream-side or littoral vegetative covers Copper	Agriculture Grazing in Riparian or Shoreline Zones
											Lead	Source Unknown
Bullwhacker - Dog	MT41T002 020	DOG CREEK, Cutbank Creek to mouth	n 5	26.03	MILES	C-3	N	_	_	F	Physical substrate habitat alterations  Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
		(Missouri River)	. 3		220	2.0	•			•	Sedimentation/Siltation	2.22.0



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L 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 (TDS)	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

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			icial ( ) DW		Cause Name *	Source Name *
Judith - Arrow	MT41S001_010	JUDITH RIVER, Big Spring Creek to mouth (Missouri River)	4C	72.02	MILES	B-2	N	F	F	х	Alteration in stream-side or littoral vegetative covers	Agriculture
		,									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- Creek	g 5	16.15	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral vegetative covers	Animal Feeding Operations (NPS)
		CIEEK									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	Crop Production (Non-Irrigated)
		mouth (Wolf Creek)									vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											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 (TDS)	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



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW	lse Rec	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 Biochemical oxygen demand (BOD) Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Channelization  Confined Animal Feeding Operations - CAFOS (Point Source)  Loss of Riparian Habitat  Source Unknown
Judith - Arrow	MT41S002_080	SOUTH FORK JUDITH RIVER, headwaters to mouth	5	21.16	MILES	B-1	N	F	х	x	Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Site Clearance (Land Development or
Judith - Arrow	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	5	6.17	MILES	C-3	N	-	-	X	Cyanide Iron Selenium Thallium	Redevelopment) 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 (PCBs)	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 (PCBs) Sedimentation/Siltation	Channelization  Contaminated Sediments  Dam or Impoundment  Grazing in Riparian or Shoreline Zones  Loss of Riparian Habitat  Streambank Modifications/destabilization
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	Unspecified Urban Stormwater  Animal Feeding Operations (NPS)  Grazing in Riparian or Shoreline Zones  Loss of Riparian Habitat  Site Clearance (Land Development or Redevelopment)

<sup>\*</sup>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	Size	Units	Use Class			ial U DW		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	Х	N	Algae	Grazing in Riparian or Shoreline Zones
		Creek)									Alteration in stream-side or littoral	Loss of Riparian Habitat
											vegetative covers Dissolved Oxygen	Source Unknown
											Flow Regime Modification	Water Diversions
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											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



HUC: 10040104 Fort Peck Reservoir Watershed: Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class	Be Aql	enefi L Ag	cial U DW	Jse Rec	Cause Name *	Source Name *
Landusky	MT40E002_050	ALDER GULCH, headwaters to mouth	4A	4.04	MILES	C-3	N	-	ı	Х	Mercury	
		(Ruby Creek), T26N R25E S16									Selenium	
											Zinc	
											pH	
Landusky	MT40E002_060	RUBY CREEK, Un-Named tributary T2	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	ice 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 (E. Coli)	
											Lead	
											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 (Ro	ock 5	1.74	MILES	C-3	N	N	N	N	Alteration in stream-side or littoral vegetative covers	Natural Sources
		Oreeky									Arsenic	Rangeland Grazing
											Cadmium	Surface Mining
											Copper	
											Mercury	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Selenium	
											Zinc	
											pH	
Landusky	MT40E002_110	SULLIVAN CREEK, headwaters to mou (Rock Creek)	ith 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
											Flow Regime Modification	
											Iron	
											Lead	
											Nickel	
											Physical substrate habitat alterations	
											Selenium	
											Zinc	
Fort Peck Area Tributaries	MT40E002_130	FARGO COULEE, headwaters to mouth	n 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	



HUC: 10040104 Fort Peck Reservoir Watershed: Fort Peck Lake

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			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	4A	89.42	MILES	C-3	N	-	-	F	Nitrogen, Total	Agriculture
		(Big Dry Creek arm of Fort Peck 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
											Nitrate	
											Nitrogen, Total	
											Phosphorus, Total	
											Sulfate	
											Total Dissolved Solids (TDS)	
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

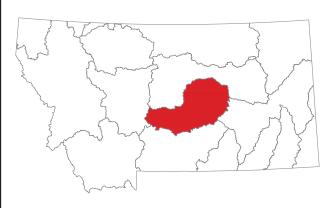
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Big and Little Dry	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	h 5	98.62	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers Ammonia,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

# Lower Musselshell Box Elder Flatwillow Middle Musselshell Upper Musselshell

# Musselshell Sub-Major Basin

### **Lower Missouri River Basin**

<b>USGS HUC</b>	<b>HUC NAME</b>
10040201	Upper Musselshell
10040202	Middle Musselshell
10040203	Flatwillow
10040204	Box Elder
10040205	Lower Musselshell



# Montana Department of Environmental Quality



**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	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin	5	55.3	MILES	B-2	N	Х	F	N	Alteration in stream-side or littoral vegetative covers	Agriculture
		Diversion Canal									Escherichia coli (E. Coli)	Channelization
											Flow Regime Modification	Crop Production (Crop Land or Dry Land)
											Habitat Alterations	Crop Production (Irrigated)
											Iron	Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization
Upper - Middle Musselshell	MT40A001_020	MUSSELSHELL RIVER, Deadmans Ba	sin 5	94.49	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral	Agriculture
		Supply Canal to HUC boundary near Roundup									vegetative covers Escherichia coli (E. Coli)	Channelization
											Flow Regime Modification	Crop Production (Crop Land or Dry Land)
											Habitat Alterations	Crop Production (Irrigated)
											Iron	Grazing in Riparian or Shoreline Zones
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Sediment	Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization
Upper - Middle Musselshell	MT40A002_011	NORTH FORK MUSSELSHELL RIVER	4C	13.8	MILES	B-1	N	Х	Х	N	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
		headwaters to Bair Reservoir										Natural Sources
Upper - Middle Musselshell	MT40A002 012	NORTH FORK MUSSELSHELL RIVER.	5	24.31	MILES	B-1	N	X	F	N	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
- I I I I I I I I I I I I I I I I I I I		Bair Reservoir to confluence with South Fork Musselshell River	-		220		••	. •			Escherichia coli (E. Coli)	Impacts from Abandoned Mine Lands (Inactive)
											Iron	Impacts from Hydrostructure Flow
												Regulation/modification



**HUC:** 10040201 Upper Musselshell Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Upper - Middle Musselshell	MT40A002_012	NORTH FORK MUSSELSHELL RIVER Bair Reservoir to confluence with South	, 5	24.31	MILES	B-1	N	Х	F	N	Phosphorus, Total	Natural Sources
		Fork Musselshell River										On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Upper - Middle Musselshell	MT40A002_030	TRAIL CREEK, headwaters to mouth (North Fork Musselshell River)	5	10.1	MILES	B-1	N	Χ	F	N	Chlorophyll-a	Agriculture
		(NOTHER OIL WIGSSEISHEII (NET)									Phosphorus, Total	Crop Production (Crop Land or Dry Land)
											Sediment	Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification
Upper - Middle Musselshell	MT40A002_040	MILL CREEK, headwaters to mouth (North Fork Musselshell River)	5	4.81	MILES	B-1	Ν	Х	Χ	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
		(NOTH) FOR MUSSEISHEII RIVEL)									Chlorophyll-a	Silviculture Activities
											Sediment	Unspecified Unpaved Road or Trail
Careless Creek	MT40A002_050	CARELESS CREEK, confluence with Swimming Woman Creek to mouth (Musselshell River)	5	20.8	MILES	C-3	N	-	-	I	Alteration in stream-side or littoral vegetative covers Habitat Alterations	Channel Erosion/Incision from Upstream Hydromodifications Grazing in Riparian or Shoreline Zones
											Iron	Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Natural Sources
												Streambank Modifications/destabilization
Careless Creek	MT40A002_051	CARELESS CREEK, headwaters to	4C	47.82	MILES	B-1	N	Х	F	1	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		confluence with Swimming Woman Cree	ek								vegetative covers	Grazing in Riparian or Shoreline Zones
Upper - Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth	5	98.64	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral	Crop Production (Crop Land or Dry Land)
		(Musselshell River)									vegetative covers Escherichia coli (E. Coli)	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Natural Sources
											Habitat Alterations	On-site Treatment Systems (Septic Systems and
											Iron	Similar Decentralized Systems) Rangeland Grazing
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Unspecified Unpaved Road or Trail
												Water Diversions
Upper - Middle Musselshell	MT40A002_080	PAINTED ROBE CREEK, headwaters to	5	40.92	MILES	C-3	N	N	-	Х	Nitrogen, Total	Crop Production (Non-Irrigated)
		mouth (Musselshell River)									Salinity	Grazing in Riparian or Shoreline Zones



**HUC:** 10040201 Upper Musselshell Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Upper - Middle Musselshell	MT40A002_080	PAINTED ROBE CREEK, headwaters to mouth (Musselshell River)	5	40.92	MILES	C-3	N	N	-	Х	Sulfate	Impacts from Hydrostructure Flow Regulation/modification
Upper - Middle Musselshell	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	5	18.19	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers	Channelization
		mouth (Musselshell Mver)									Escherichia coli (E. Coli)	Dam or Impoundment
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Highway/Road/Bridge Runoff (Non-construction Related) Livestock (Grazing or Feeding Operations)
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Unspecified Unpaved Road or Trail
Upper - Middle Musselshell	MT40A002_110	MILLER CREEK, confluence of East an	d 5	12.04	MILES	B-1	N	Х	Х	Х	Sediment	Crop Production (Crop Land or Dry Land)
		West Forks Miller Creek to mouth (Little Elk Creek)										Grazing in Riparian or Shoreline Zones
												Impacts from Hydrostructure Flow Regulation/modification Unspecified Unpaved Road or Trail
Upper - Middle Musselshell	MT40A002_120	AMERICAN FORK, confluence of Middle		39.42	MILES	B-1	1	Х	F	N	Escherichia coli (E. Coli)	Agriculture
		and North Forks American Fork to mout (Musselshell River)	n									Grazing in Riparian or Shoreline Zones
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Upper - Middle Musselshell	MT40A002_130	BIG COULEE CREEK, confluence of North and South Forks Big Coulee Cree	5	59.52	MILES	C-3	N	-	-	N	Escherichia coli (E. Coli)	Agriculture
		to mouth (Musselshell River)	ĸ								Iron	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
											Nitrogen, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
											Selenium	Similar Decembratized Systems)



HUC: 10040202 Middle Musselshell Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class	Bene AqL A		al Use DW R		Cause Name *	Source Name *
Upper - Middle Musselshell	MT40C001_010	MUSSELSHELL RIVER, HUC boundary	y 5	114.6	MILES	C-3	N -		- F		Alteration in stream-side or littoral	Agriculture
		near Roundup to Flatwillow Creek									vegetative covers Flow Regime Modification	Channelization
											Habitat Alterations	Crop Production (Crop Land or Dry Land)
											Iron	Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												Impacts from Hydrostructure Flow Regulation/modification Natural Sources
												Streambank Modifications/destabilization
Upper - Middle Musselshell	MT40C002_010	NORTH WILLOW CREEK, headwaters mouth (Musselshell River)	to 5	117.27	MILES	C-3	N N	٧	- ×	(	Alteration in stream-side or littoral vegetative covers	Crop Production (Non-Irrigated)
		moun (Musselshell Niver)									Iron	Dam or Impoundment
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Impacts from Hydrostructure Flow Regulation/modification
											Salinity	Natural Sources
											Sedimentation/Siltation	Source Unknown
											Sulfate	Streambank Modifications/destabilization
												Unspecified Unpaved Road or Trail



HUC: 10040203 Flatwillow Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic . Ag		Jse Rec	Cause Name *	Source Name *
Flatwillow - Box Elder	MT40B001_021	FLATWILLOW CREEK, headwaters to Highway 87 bridge	5	40.11	MILES	B-2	N	Х	х	х	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Iron Sediment	Crop Production (Crop Land or Dry Land) Crop Production (Irrigated) Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Natural Sources
												Streambank Modifications/destabilization Unspecified Unpaved Road or Trail
Flatwillow - Box Elder	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	5	99.88	MILES	C-3	N	-	-	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Iron Selenium	Agriculture  Crop Production (Crop Land or Dry Land)  Crop Production (Irrigated)  Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
Flatwillow - Box Elder	MT40B001_040	NORTH FORK FLATWILLOW CREEK, headwaters to confluence with South Fe	5 ork	27.56	MILES	B-2	N	х	x	Х	Sediment	Natural Sources  Agriculture  Loss of Riparian Habitat  Rangeland Grazing



HUC: 10040204 Box Elder Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Flatwillow - Box Elder	MT40B002_001	BOX ELDER CREEK, headwaters to mouth	5	139.16	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
		moun									Iron	Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												Natural Sources
												Streambank Modifications/destabilization
Flatwillow - Box Elder	MT40B002_010	McDONALD CREEK, North and South	5	89.18	MILES	C-3	N	N	-	N	Escherichia coli (E. Coli)	Crop Production (Irrigated)
		Forks to mouth (Box Elder Creek)									Iron	Crop Production (Non-Irrigated)
											Salinity	Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Flatwillow - Box Elder	MT40B002_020	FORDS CREEK, headwaters in Chicag	go 4A	2.98	MILES	C-3	N	-	N	Х	Arsenic	Acid Mine Drainage
		Gulch to East Fork Fords Creek									Cadmium	Impacts from Abandoned Mine Lands (Inactive)
											Lead	
											Zinc	
											рН	
Flatwillow - Box Elder	MT40B002_021	FORDS CREEK, East Fork Fords Creet to mouth (Box Elder Creek)	ek 5	69.84	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land)
											Escherichia coli (E. Coli)	Grazing in Riparian or Shoreline Zones
											Iron	Impacts from Abandoned Mine Lands (Inactive)
												Natural Sources
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization
Flatwillow - Box Elder	MT40B002_030	COLLAR GULCH CREEK, headwaters	s 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	



HUC: 10040204 Box Elder Watershed: Musselshell

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Flatwillow - Box Elder	MT40B002_030	COLLAR GULCH CREEK, headwaters mouth (Fords Creek)	to 4A	6.38	MILES	C-3	N	-	N	Х	Zinc pH	
Flatwillow - Box Elder	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	4A	3.75	MILES	C-3	N	-	N	X	Alteration in stream-side or littoral vegetative covers Antimony Arsenic Cyanide Iron Mercury Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Heap-leach Extraction Mining Mine Tailings
Flatwillow - Box Elder	MT40B002_070	SOUTH FORK McDONALD CREEK, headwaters to confluence with North Fo McDonald Creek	5 rk	50.29	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers Escherichia coli (E. Coli)	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Natural Sources On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization



HUC: 10040205 Lower Musselshell Watershed: Musselshell

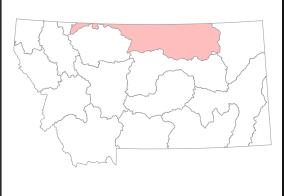
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Lower Musselshell	MT40C003_010	MUSSELSHELL RIVER, Flatwillow Cre to Fort Peck Reservoir	iek 5	75.94	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers Escherichia coli (E. Coli) Flow Regime Modification Habitat Alterations Iron	Channelization Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges Natural Sources On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Streambank Modifications/destabilization
Lower Musselshell	MT40C004_030	BLOOD CREEK, Dovetail County Road mouth (Musselshell River)	to 4C	57.36	MILES	C-3	N	-	-	х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones  Natural Sources

### HIGGS HIIC 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 Big Sandy Creek Lower Milk 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



Montana Department of Environmental Quality



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 Flow Regime Modification	Natural Sources Source Unknown
											Iron Lead	Water Diversions
Upper Milk	MT40F005_010	FRESNO RESERVOIR	4C	5007	ACRES	B-3	N	F	x	Х	Flow Regime Modification  Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification



HUC: 10050004 Middle Milk Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial 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
		Cleek										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	Χ	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 Beau	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									vegetative covers Flow Regime Modification	Crop Production (Irrigated)
											Iron	Natural Sources
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
												Water Diversions
Middle Milk and Tributaries	MT40J002_010	BEAVER CREEK, Beaver Creek	5	24.92	MILES	B-1	N	F	N	F	Flow Regime Modification	Channelization
		Reservoir to mouth (Milk River)									Iron	Natural Sources
											Lead	Source Unknown
											Mercury	
											Sedimentation/Siltation	
											Temperature	
Middle Milk and Tributaries	MT40J002_020	BULLHOOK CREEK, headwaters to the	5	24.9	MILES	B-3	N	F	F	Х	Alteration in stream-side or littoral	Habitat Modification - other than Hydromodification
		Bullhook Dam, T32N R16E S16									vegetative covers Flow Regime Modification	Natural Sources
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Residential Districts
											Sedimentation/Siltation	Source Unknown
											Temperature	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



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)	rs 5	50.17	MILES	B-1	N	F	F	F	Nitrogen, Total	Rangeland Grazing
		to modul (mint titol)									Phosphorus, Total	Source Unknown
											Sedimentation/Siltation	
											Temperature	



**HUC:** 10050005 Big Sandy Watershed: Milk

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



**HUC:** 10050006 Sage Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefi L Ag		Use / 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)
											Sulfate	Crop Production (Irrigated)
											Total Dissolved Solids (TDS)	Crop Production (Non-Irrigated)
												Grazing in Riparian or Shoreline Zones
												Natural Sources
Big Sandy - Sage	MT40G001_012	SAGE CREEK, Confluence of Russell Creek T36N R9E S32 to the mouth (Big	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)	J								vegetative covers Salinity	Crop Production (Irrigated)
											Sulfate	Crop Production (Non-Irrigated)
											Total Dissolved Solids (TDS)	Grazing in Riparian or Shoreline Zones
												Natural Sources



**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	Dissolved Oxygen	Agriculture
		mouth (Milk River)									Flow Regime Modification	Dam or Impoundment
											Mercury	Golf Courses
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Residential Districts
											Nitrogen, Total	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	y Size	Units	Use Class		enefic L 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	
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 Belknap Reservation boundary	5	.9	MILES	B-1	N	F	N	х	Alteration in stream-side or littoral vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive) 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	
											Cyanide	



**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	
											На	



HUC: 10050010 Cottonwood Watershed: Milk

TME Area	L Planning	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	cial L DW	Jse Rec	Cause Name *	Source Name *
Middle	Milk and Tributaries	MT40J005_020	COTTONWOOD CREEK, Black Coulee mouth (Milk River)	eto 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	Ber 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)	ler 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	Categor	y Size	Units	Use Class			ial U DW	Jse Rec	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 (E. 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	X	Alteration in stream-side or littoral	Agriculture
		Reservoir, T25N R35E S26									vegetative covers Flow Regime Modification	Dam or Impoundment
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization
Lower Milk	MT40O002_033	WILLOW CREEK, Halfpint Reservoir to	5	76.13	MILES	B-3	N	F	Х	X	Alteration in stream-side or littoral	Agriculture
		mouth (Milk River), T28N R40E S29									vegetative covers Flow Regime Modification	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
											Sediment	Rangeland Grazing
Lone Tree Creek	MT40O002_050	LONE TREE CREEK, headwaters to	4A	22.22	MILES	B-3	N	Х	Х	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		mouth at Willow Creek									vegetative covers 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	Х	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Flow Regime Modification	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	N	X	Alteration in stream-side or littoral vegetative covers Nitrogen, Total Phosphorus, Total Physical substrate habitat alterations	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	Uranium  Arsenic  Cadmium  Copper  Dissolved Oxygen  Iron	Natural Sources Source Unknown
											Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen, Total Phosphorus, Total Sediment	
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  Dissolved Oxygen  Lead  Nitrogen, Total	Agriculture Animal Feeding Operations (NPS) Natural Sources Source Unknown



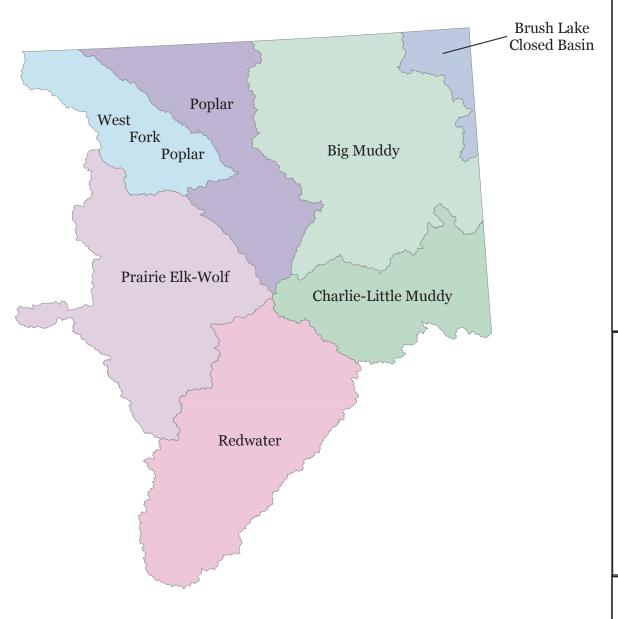
HUC: 10050014 Beaver Watershed: Milk

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U	lse Rec	Cause Name *	Source Name *
		1141110, 200411011				0.000	лчь		<b>D</b> 11	Nec		
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 Flow Regime Modification	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	Crop Production (Irrigated)
												Dam or Impoundment
Beaver	MT40M003_020	NELSON RESERVOIR	5	4112.5	ACRES	B-3	N	F	х	N	Flow Regime Modification	Crop Production (Irrigated)
											Phosphorus, Total	Impacts from Hydrostructure Flow Regulation/modification



**HUC:** 10050016 Porcupine Watershed: Milk

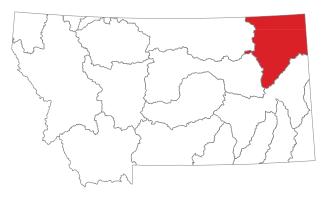
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic Ag	ial U	se Rec	Cause Name *	Source Name *
Lower Milk	MT40O003_010	PORCUPINE CREEK, confluence of We and Middle Forks to mouth (Milk River)	est 5	49.29	MILES	B-3	N	N	F	Х	Nitrogen, Total Phosphorus, Total	Crop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



# Missouri-Poplar Sub-Major Basin

### **Lower Missouri River Basin**

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



# Montana Department of Environmental Quality



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ 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 Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
											Temperature	
Lower Missouri	MT40S001_012	MISSOURI RIVER, Milk River to Poplar River	5	81.86	MILES	B-3	N	F	F	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
											Temperature	
Redwater	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	4A	38.87	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Agriculture
		Torks to mount (wissour rever)									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 i oiks to mouth (wissour river)									Phosphorus, Total	Crop Production (Non-Irrigated)
											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 Conductivity	
											Sulfate	
											Total Dissolved Solids (TDS)	
											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	Crop Production (Non-Irrigated)
											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	/ Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Lower Missouri	MT40Q001_011	POPLAR RIVER, Confluence of East & Middle Forks to Fort Peck Reservation boundary, T33N R48E S12	<b>5</b>	29.94	MILES	B-2	N	F	F	N	Escherichia coli (E. Coli) Sedimentation/Siltation Temperature	Natural Sources Rangeland Grazing Source Unknown
Lower Missouri	MT40Q001_012	MIDDLE FORK POPLAR RIVER, headwater (confluence of Lost Child & Goose Creeks) to the mouth (Poplar River)	5	36.46	MILES	B-2	N	F	F	N	Escherichia coli (E. Coli) Sedimentation/Siltation Temperature	Natural Sources Rangeland Grazing Source Unknown
Lower Missouri	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	5	41.95	MILES	B-2	N	N	F	F	Iron Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen, Total Phosphorus, Total Sodium Specific Conductivity	Crop Production (Crop Land or Dry Land)  Natural Sources  Source Unknown
Lower Missouri	MT40Q002_020	EAST FORK POPLAR RIVER, Canada border to mouth (Poplar River)	a 5	21.58	MILES	B-2	N	N	F	N	Chlorophyll-a Flow Regime Modification Iron	Impacts from Hydrostructure Flow Regulation/modification Natural Sources Source Unknown



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic . Ag			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	Flow Regime Modification	Dam or Impoundment
		Dakota border									Temperature	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 Conductivity	
Lower Missouri	MT40S004_020	HARDSCRABBLE CREEK, headwaters mouth (Missouri River)	to 5	35.91	MILES	C-3	N	-	-	F	Nitrogen, Total	Agriculture
		mouth (Missouth River)									Specific Conductivity	Natural Sources
											Total Dissolved Solids (TDS)	



**HUC:** 10060006 Big Muddy Watershed: Missouri-Poplar

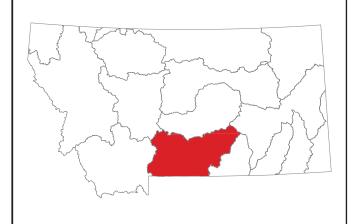
TMDL Planning Area	ID305B	Waterbody Name/Location	Catego	ry Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Lower Missouri	MT40R001_010	BIG MUDDY CREEK, north corner of F Peck Reservation boundary to mouth (Missouri River)	ort 5	82.08	MILES	C-3	N	-	-	x	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40R001_020	BIG MUDDY CREEK, Canadian border northern boundary of Fort Peck Reservation	to 5	119.54	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral vegetative covers Copper Lead Mercury Nitrogen, Total Organic Enrichment Phosphorus, Total Zinc	Agriculture  Crop Production (Non-Irrigated)  Grazing in Riparian or Shoreline Zones  Source Unknown
Lower Missouri	MT40R003_010	MEDICINE LAKE	5	9726.1	ACRES	C-3	N	-	-	F	Cadmium Lead Mercury	Atmospheric Deposition - Toxics Source Unknown

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



# **Montana Department of Environmental Quality**



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Yellowstone River	MT43B001_010	YELLOWSTONE RIVER, Yellowstone	5	4.79	MILES	B-1	N	F	N	F	Ammonia, Total	Highway/Road/Bridge Runoff (Non-construction
		Park Boundary to Reese Creek									Arsenic	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	5	8.68	MILES	A-1	N	х	N	Х	Ammonia, Un-ionized	Highway/Road/Bridge Runoff (Non-construction
		border to Yellowstone National Park Boundary									Arsenic	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	5	3.03	MILES	B-1	N	F	F	Х	Flow Regime Modification	Water Diversions
		Mine to mouth (Yellowstone River)									Temperature	
Cooke City	MT43B002_040	MILLER CREEK, headwaters to mouth	1 4A	2.56	MILES	B-1	N	Х	F	Х	Copper	Acid Mine Drainage
		(Soda Butte Creek)										Mine Tailings
												Natural Sources



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 *
Yellowstone River	MT43B003_010	YELLOWSTONE RIVER, Reese Creek to Bridger Creek	o 4C	119	MILES	B-1	N	X	Х	X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Loss of Riparian Habitat  Site Clearance (Land Development or Redevelopment)  Streambank Modifications/destabilization
rellowstone - 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	Flow Regime Modification  Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
'ellowstone - 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	Х	Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
'ellowstone - Sweet Grass	MT43B004_022	BIG TIMBER CREEK, headwaters	5	26.75	MILES	B-1	N	F	N	I	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	
/ellowstone - Sweet Grass	MT43B004_031	LOWER DEER CREEK, 4 mile upstrean to mouth (Yellowstone River)	n 4C	4.43	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
∕ellowstone - Sweet Grass	MT43B004_041	UPPER DEER CREEK, Cartwright Gulc to mouth (Yellowstone River)	n 4C	6.95	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
ellowstone - 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 Sediment	Silviculture Activities
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to	5	1.37	MILES	B-1	N	F	F	N	Algae	Agriculture
		mouth (Yellowstone River)									Fish Passage Barrier	Channelization
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Habitat Modification - other than Hydromodific



**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	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 mouth (renowstone River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Channelization
											Sedimentation/Siltation	Source Unknown
Paradise	MT43B004_061	TOM MINER CREEK, Tepee Creek to	5	.73	MILES	B-1	N	F	F	х	Flow Regime Modification	Water Diversions
		mouth (Yellowstone River)									Temperature	
Paradise	MT43B004_071	MILL CREEK, National Forest boundary	4C	7.4	MILES	B-1	N	х	х	Х	Flow Regime Modification	Agriculture
		to mouth (Yellowstone River)										Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_081	PINE CREEK, 2.5 miles upstream to	4C	2.42	MILES	B-1	N	Х	Χ	Х	Flow Regime Modification	Crop Production (Irrigated)
		mouth (Yellowstone River)										Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_090	SUCE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Yellowstone River)	4C	3.85	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	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	Х	Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_102	SIX MILE CREEK, Absaroka-Beartooth	5	2.54	MILES	B-1	N	Х	Х	Х	Other anthropogenic substrate alterations	Loss of Riparian Habitat
		Wilderness boundary to National Forest 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	Х	Flow Regime Modification	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	Flow Regime Modification	Agriculture
Boulder - Big Timber	MT43B004_131	BOULDER RIVER, Clayton Ditch to	5	5.51	MILES	B-1	N	F	F	х	Copper	Crop Production (Irrigated)
		mouth (Yellowstone River)									Flow Regime Modification	Impacts from Abandoned Mine Lands (Inactive)
											Iron	
											Lead	
											Silver	
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and	5	27.84	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		Falls (T3S R12E S26) to Clayton Ditch (T1N R14E S34)									vegetative covers Chromium, Total	Grazing in Riparian or Shoreline Zones

<sup>\*</sup> 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		nefic . Ag			Cause Name *	Source Name *
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	Copper	Source Unknown
		(T1N R14E S34)									Iron	
											Lead	
											Nickel	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
Boulder - Big Timber	MT43B004_133	BOULDER RIVER, confluence of the Ea Fork Boulder River to Natural bridge and		24.1	MILES	B-1	N	F	F	N	Algae	Coal Mining Discharges (Permitted)
		Falls (T35 R12E S26)	4								Copper	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, Absaroka-Beartooth Wilderness boundary to confluence of	4A	5.97	MILES	B-1	N	F	N	F	Copper	Impacts from Abandoned Mine Lands (Inactive)
		East Fork Boulder River									Iron	
											Lead	
Boulder - Big Timber	MT43B004_141	EAST BOULDER RIVER, Elk Creek to mouth (Boulder River)	5	3.14	MILES	B-1	N	F	F	N	Chlorophyll-a	Source Unknown
		mount (boulder Niver)									Flow Regime Modification	Streambank Modifications/destabilization
											Other anthropogenic substrate alterations	Water Diversions
											Sedimentation/Siltation	
Boulder - Big Timber	MT43B004_142	EAST BOULDER RIVER, National Fore	st 4C	3.07	MILES	B-1	N	F	1	N	Chlorophyll-a	Agriculture
		boundary to Elk Creek									Flow Regime Modification	Source Unknown
Yellowstone - Sweet Grass	MT43B004_150	SWEET GRASS CREEK, headwaters to mouth (Yellowstone River)	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 (Boulder River)	4A	1.55	MILES	B-1	N	Х	Х	Х	Copper	
		(Doulder Kiver)									Iron	
											Lead	



**HUC:** 10070003 Shields Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Shields	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	4A	18.99	MILES	B-1	N	х	х	Х	Alteration in stream-side or littoral vegetative covers Flow Regime Modification 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	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Physical substrate habitat alterations Sedimentation/Siltation	Crop Production (Irrigated) Grazing in Riparian or Shoreline Zones 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	Flow Regime Modification Sedimentation/Siltation	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	Algae  Alteration in stream-side or littoral vegetative covers Sediment	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	Х	Flow Regime Modification	Crop Production (Irrigated)
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 boundar to mouth (Shields River)	ry 4C	14.34	MILES	B-1	N	F	F	Х	Flow Regime Modification	Water Diversions



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW	Jse Rec	Cause Name *	Source Name *
Yellowstone River	MT43F001_011	YELLOWSTONE RIVER, City of Laurel PWS to City of Billings PWS	5	19.4	MILES	B-2	N	F	ı	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	5	13.68	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral	Channelization
		(Yellowstone River)									vegetative covers Flow Regime Modification	Drought-related Impacts
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Yellowstone - Sweet Grass	MT43F002_021	CANYON CREEK, highway 532 to mout (Yellowstone River)	h 4C	19.6	MILES	B-2	N	Х	Х	Х	Flow Regime Modification	Water Diversions
Yellowstone - Sweet Grass	MT43F002_022	CANYON CREEK, headwaters to highw	ay 5	29.7	MILES	B-2	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		532									vegetative covers Dissolved Oxygen	Channelization
											Flow Regime Modification	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 Macroinvertebrates	Channelization
											Dissolved Oxygen	Crop Production (Irrigated)
											Flow Regime Modification	Drought-related Impacts
											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_030	HALFBREED LAKE	5	211	ACRES	B-2	N	N	N	X	Salinity	Agriculture



HUC: 10070005 Stillwater Watershed: Upper Yellowstone

				- 1 1 -	Tonome							
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW	Jse Rec	Cause Name *	Source Name *
Cooke City	MT43C001_010	STILLWATER RIVER, headwaters to	4A	3.71	MILES	B-1	N	F	ı	Х	Copper	Acid Mine Drainage
		Absaroka-Beartooth Wilderness boundary									Sedimentation/Siltation pH	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive)
												Mine Tailings
												Natural Sources
Stillwater - Columbus	MT43C001_020	STILLWATER RIVER, Forest Service	5	45.59	MILES	B-1	N	F	N	F	Cadmium	Hardrock Mining Discharges (Permitted)
		Boundary to the mouth (Yellowstone 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 mouth (Castle Creek)	5	5.91	MILES	B-1	N	F	F	N	Chlorophyll-a	Crop Production (Irrigated)
		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	N	F	F	N	Chlorophyll-a	Livestock (Grazing or Feeding Operations)
		mount (Limestone Creek), 143 K13L 32	-9								Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
												Upstream Source
Stillwater - Columbus	MT43C002_041	GROVE CREEK, confluence of South Fork Grove Creek, T4S R18E S13 to the	5	5.23	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
		mouth (Stillwater River), T3S R18E S34									vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Loss of Riparian Habitat
											Sedimentation/Siltation	Natural Sources
Stillwater - Columbus	MT43C002_050	FISHTAIL CREEK, headwaters to mouth	n 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)	n 5	13.16	MILES	B-1	N	F	F	N	Chlorophyll-a	Crop Production (Irrigated)

**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: 10070005 Stillwater Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	n 5	13.16	MILES	B-1	N	F	F	N	Flow Regime Modification Sedimentation/Siltation	Water Diversions
Stillwater - Columbus	MT43C002_081	BUTCHER CREEK, highway 78 to mout (Rosebud Creek)	th 5	22.02	MILES	B-1	N	F	F	X	Flow Regime Modification Physical substrate habitat alterations Sediment	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	Hydrostructure Impacts on Fish Passage Source Unknown
Stillwater - Columbus	MT43C002_090	WEST ROSEBUD CREEK, Absaroka- Beartooth Wilderness boundary to moutl (Rosebud Creek)	5 h	31.77	MILES	B-1	N	F	F	F	Benthic Macroinvertebrates	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 Macroinvertebrates	Source Unknown
Cooke City	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	4A	1.94	MILES	B-1	N	X	N	X	Aluminum Cadmium Copper Iron Lead Sedimentation/Siltation Zinc pH	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Natural Sources



HUC: 10070006 Clarks Fork Yellowstone Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefi L Ag			Cause Name *	Source Name *
Clarks Fork Yellowstone	MT43D001_011	CLARKS FORK YELLOWSTONE RIVE	R, 5	43.32	MILES	B-2	N	х	1	N	Ammonia, Total	Crop Production (Irrigated)
		Bridger Creek to mouth (Yellowstone River)									Chlorophyll-a	Habitat Modification - other than Hydromodification
											Copper	Impacts from Hydrostructure Flow
											Flow Regime Modification	Regulation/modification Source Unknown
											Iron	Streambank Modifications/destabilization
											Lead	
											Mercury	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Phosphorus, Total	
											Physical substrate habitat alterations	
											Sediment	
											Temperature	
Cooke City	MT43D001_020	CLARKS FORK YELLOWSTONE RIVE	R, 4A	3.22	MILES	B-1	N	F	F	Х	Copper	Acid Mine Drainage
		headwaters to Absaroka-Beartooth Wilderness boundary									рН	Impacts from Abandoned Mine Lands (Inactive)
												Mine Tailings
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	Crop Production (Irrigated)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Rangeland Grazing
											Sedimentation/Siltation	
Clarks Fork Yellowstone	MT42D002 020	BEAR CREEK, headwaters to mouth	5	21.14	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Cyan Draduation (Instant)
Clarks Fork Yellowstone	MT43D002_020	(Clarks Fork)	5	21.14	MILES	D-1	IN	Г	Г	IN	vegetative covers	Crop Production (Irrigated)
											Chlorophyll-a	Impacts from Abandoned Mine Lands (Inactive)
											Flow Regime Modification	Loss of Riparian Habitat
											Iron	Rangeland Grazing
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Transfer of Water from an Outside Watershed
											Phosphorus, Total	



HUC: 10070006 Clarks Fork Yellowstone Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U		Cause Name *	Source Name *
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	5	21.14	MILES	B-1	N	F	F	N	Sedimentation/Siltation	
Clarks Fork Yellowstone	MT43D002_031	BLUEWATER CREEK, unnamed tributar		11.41	MILES	B-1	N	F	F	N	Chlorophyll-a	Agriculture
		at T6N R24E S7 NWNE to mouth (Clarks Fork Yellowstone River)	5								Nitrate/Nitrite (Nitrite + Nitrate as N)	Animal Feeding Operations (NPS)
											Phosphorus, Total	Aquaculture (Permitted)
											Sedimentation/Siltation	Crop Production (Irrigated)
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 Reservoir	5	12.07	MILES	B-1	N	X	Х	Х	Flow Regime Modification	Impacts from Hydrostructure Flow
		to mouth (Rock Creek)									Organic Enrichment	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	Flow Regime Modification	Crop Production (Irrigated)
		(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 Dissolved Oxygen	Dam or Impoundment
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Loss of Riparian Habitat
											Phosphorus, Total	Natural Sources
											Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems) Sediment	Petroleum/natural Gas Production Activities (Permitted) Pipeline Breaks
											Specific Conductivity	Rangeland Grazing
											Temperature	Upstream Source
											Total Dissolved Solids (TDS)	
											Turbidity	
Cooke City	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	4A	3.34	MILES	B-1	N	Х	F	Х	Aluminum	Acid Mine Drainage

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: 10070006 Clarks Fork Yellowstone Watershed: Upper Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Cooke City	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	4A	3.34	MILES	B-1	N	Х	F	Х	Cadmium	Highway/Road/Bridge Runoff (Non-construction Related)
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Iron	Mine Tailings
											Lead	
											Sedimentation/Siltation	
											Zinc	
											рН	
Clarks Fork Yellowstone	MT43D002_120	ROCK CREEK, Red Lodge Creek to	4C	16.02	MILES	B-1	N	х	х	Х	Flow Regime Modification	Crop Production (Irrigated)
		mouth (Clarks Fork)										Water Diversions
Clarks Fork Yellowstone	MT43D002_131	ROCK CREEK, West Fork Rock Creek to	o 4C	27.47	MILES	B-1	N	х	Х	Х	Flow Regime Modification	Crop Production (Irrigated)
		Red Lodge Creek										Water Diversions
Clarks Fork Yellowstone	MT43D002_140	COTTONWOOD CREEK, headwaters to	5	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 Dissolved Oxygen	Drought-related Impacts
											Sediment	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



HUC: 10070007 Upper Yellowstone-Pompeys Watershed: Upper Yellowstone

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



**HUC:** 10070008 Pryor Watershed: Upper Yellowstone

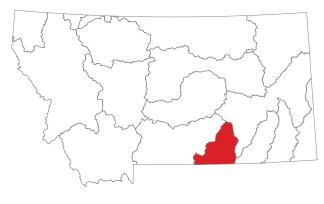
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U		Cause Name *	Source Name *
Yellowstone - Lower Bighorn	MT43E001_010	PRYOR CREEK, Interstate 90 bridge to mouth (Yellowstone River)	5	14.98	MILES	C-3	N	-	-	Х	Benthic Macroinvertebrates	Crop Production (Irrigated)
3		,									Flow Regime Modification	Source Unknown
												Water Diversions
Yellowstone - Lower Bighorn	MT43E001_011	PRYOR CREEK, Crow Reservation Boundary to Interstate 90 bridge	5	2.88	MILES	B-1	N	F	F	N	Algae	Agriculture
Bignom		boundary to interstate 90 bridge									Flow Regime Modification	Natural Sources
											Sedimentation/Siltation	Sources Outside State Jurisdiction or Borders
												Upstream Source
												Water Diversions

# 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



**Montana Department of Environmental Quality** 



HUC: 10080010 Bighorn Lake Watershed: Big Horn

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be 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

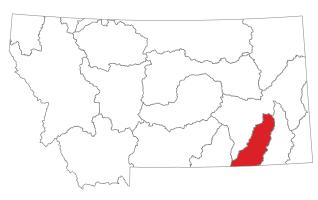
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			ial U DW		Cause Name *	Source Name *
Yellowstone - Lower Bighorn	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	5	40.02	MILES	B-2	Х	F	N	Х	Lead	Source Unknown
Yellowstone - Lower Bighorn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

# Lower Tongue Upper Tongue

# Tongue Sub-Major Basin

**Yellowstone River Basin** 

USGS HUC HUC NAME 10090101 Upper Tongue 10090102 Lower Tongue



Montana Department of Environmental Quality



HUC: 10090101 Upper Tongue Watershed: Tongue

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



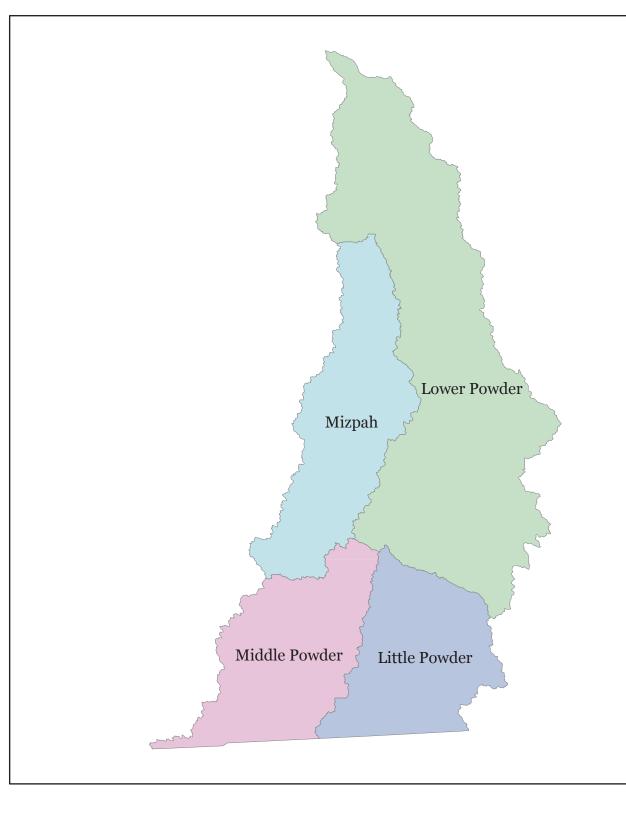
HUC: 10090102 Lower Tongue Watershed: Tongue

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic - Ag			Cause Name *	Source Name *
Tongue	MT42C001_011	TONGUE RIVER, Twelve Mile Dam to	5	20.9	MILES	B-3	N	N	N	I	Cadmium	Crop Production (Irrigated)
		mouth (Yellowstone River)									Copper	Dam Construction (Other than Upstream Flood
											Flow Regime Modification	Control Projects) Impacts from Hydrostructure Flow
											Iron	Regulation/modification Natural Sources
											Lead	Streambank Modifications/destabilization
											Nickel	
											Salinity	
											Sediment	
											Zinc	
Tongue	MT42C001_013	TONGUE RIVER, Hanging Woman Cre	ek 5	74.97	MILES	B-3	N	F	F	1	Flow Regime Modification	Crop Production (Irrigated)
		to Beaver Creek									Iron	Impacts from Hydrostructure Flow
											Sediment	Regulation/modification Natural Sources
												Streambank Modifications/destabilization
Tongue	MT42C001_014	TONGUE RIVER, Beaver Creek to	5	72	MILES	B-3	N	F	F	ı	Flow Regime Modification	Crop Production (Irrigated)
		Twelve Mile Dam, T6N R48E S29									Iron	Impacts from Hydrostructure Flow
											Sediment	Regulation/modification 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 Pumpkin Creek	5	87.68	MILES	C-3	Ν	N	-	I	Flow Regime Modification	Crop Production (Irrigated)
		i umpatti Oreek									Salinity	Natural Sources
											Temperature	
Tongue	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Cree to the mouth (Tongue River)	k 5	92.19	MILES	C-3	N	N	-	1	Flow Regime Modification	Crop Production (Irrigated)



HUC: 10090102 Lower Tongue Watershed: Tongue

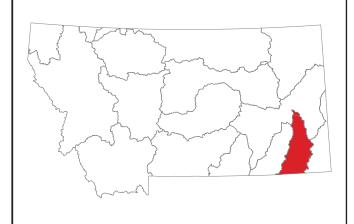
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic Ag	ial L DW	Jse Rec	Cause Name *	Source Name *
Tongue	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Cree to the mouth (Tongue River)		92.19	MILES	C-3	N		-	I	Salinity Temperature	Natural Sources



# Powder Sub-Major Basin

**Yellowstone River Basin** 

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



Montana Department of Environmental Quality



HUC: 10090207 Middle Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic	cial U	Jse Rec	Cause Name *	Source Name *
Powder	MT42J001_010	POWDER RIVER, Wyoming border to Little Powder River		78.21		C-3				х	Salinity	Natural Sources
		2										Source Unknown



HUC: 10090208 Little Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class	Be AqL	nefic . Ag	ial L DW	lse Rec	Cause Name *	Source Name *
Powder	MT42l001_010	LITTLE POWDER RIVER, Wyoming border to mouth (Powder River)	5			C-3					Salinity	Natural Sources Source Unknown



HUC: 10090209 Lower Powder Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U		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	-	Х	Salinity	Natural Sources



**HUC:** 10090210 Mizpah Watershed: Powder

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic	ial U	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



## Montana Department of Environmental Quality



**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	le 5	88.73	MILES	B-3	N	ı	ı	ı	Alteration in stream-side or littoral	Agriculture
		Diversion Dam to Powder River									vegetative covers Copper	Crop Production (Irrigated)
											Lead	Municipal Point Source Discharges
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
											Sediment	Post-development Erosion and Sedimentation
											Total Dissolved Solids (TDS)	Rangeland Grazing
											Zinc	Source Unknown
											рН	Streambank Modifications/destabilization
Yellowstone River	MT42K001_020	YELLOWSTONE RIVER, the Big Horn to Cartersville Diversion Dam	to 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)									Flow Regime Modification	Livestock (Grazing or Feeding Operations)
											Phosphorus, Total	Natural Sources
											Sediment	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	Crop Production (Irrigated)
Tributaries		Forks to mouth (Yellowstone River)									Copper	Crop Production (Non-Irrigated)
											Iron	Natural Sources
											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 (Yellowstone River)	n 5	31.39	MILES	C-3	N	-	-	N	Chlorophyll-a	Crop Production (Irrigated)
Tributaries		(Yellowstorie River)									Flow Regime Modification	Transfer of Water from an Outside Watershed
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Phosphorus, Total	
											Sediment	
Middle Yellowstone Tributaries	MT42K002_060	DEADMAN CREEK, headwaters to mou (North Fork Sunday Creek)	uth 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

<sup>\*</sup> 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 mouth (Little Porcupine Creek)	5	42.96	MILES	C-3	N	-	-	N	Cadmium	Rangeland Grazing
Tributaries		(Little Polcupine Greek)									Chlorophyll-a	Source Unknown
											Phosphorus, Total	
											рН	
Middle Yellowstone Tributaries	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth	5	33.76	MILES	C-3	N	-	-	F	Sedimentation/Siltation	Channelization
Tributaries		(Sunday Creek)	l								Sodium	Crop Production (Crop Land or Dry Land)
											Specific Conductivity	Natural Sources
											Total Dissolved Solids (TDS)	
Middle Yellowstone Tributaries	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	n 5	89.35	MILES	C-3	N	-	-	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Non-Irrigated)
Tributaries		boundary to mouth (renowstone River)									Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	
Middle Yellowstone	MT42K002_110	EAST FORK ARMELLS CREEK, mine	5	35.38	MILES	C-3	N	-	-	F	Alteration in stream-side or littoral	Agriculture
Tributaries		shops area (45.866, -106.638) to mouth (Armells Creek)									vegetative covers Aluminum	Coal Mining
											Habitat Alterations	Grazing in Riparian or Shoreline Zones
											Iron	Natural Sources
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
											Nitrogen, Total	Transfer of Water from an Outside Watershed
											Phosphorus, Total	
											Specific Conductivity	
											Total Dissolved Solids (TDS)	
Middle Yellowstone Tributaries	MT42K002_120	WEST FORK ARMELLS CREEK, headwaters to mouth (Armells Creek)	5	33.99	MILES	C-3	N	-	-	F	Aluminum	Natural Sources
Tributaries		neadwaters to mouth (Armens Creek)									Iron	Source Unknown
Middle Yellowstone	MT42K002_160	LITTLE PORCUPINE CREEK,	5	118.8	MILES	C-3	N	-	-	N	Chlorophyll-a	Rangeland Grazing
Tributaries		headwaters to mouth (Yellowstone River	)								Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
											Nitrogen, Total	



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic Ag		se Rec	Cause Name *	Source Name *
Middle Yellowstone Tributaries	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone Riv	5 er)	118.8	MILES	C-3	N	-	-	N	Phosphorus, Total  Total Dissolved Solids (TDS)	
Middle Yellowstone Tributaries	MT42K002_170	EAST FORK ARMELLS CREEK, headwaters to mine shops area (45.86 106.638)	4C 6, -	21.65	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Middle Yellowstone Tributaries	MT42K002_180	ARMELLS CREEK, confluence of East and West Forks to mouth (Yellowstone River)		28.76	MILES	C-3	N	-	-	Х	Aluminum Iron	Natural Sources Source Unknown



**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	e 4C	111.77	MILES	C-3	N	-	-	Х	Cause Unknown	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 U 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	Crop Production (Irrigated)  Impacts from Hydrostructure Flow Regulation/modification
											Copper	Natural Sources
											Fish Passage Barrier	Rangeland Grazing
											Lead	Source Unknown
											Nitrogen, Total	Streambank Modifications/destabilization
											Phosphorus, Total	
											Sedimentation/Siltation	
											Total Dissolved Solids (TDS)	
											рН	
Yellowstone River	MT42M001_012	YELLOWSTONE RIVER, Powder River Lower Yellowstone Diversion Dam	to 4C	76.73	MILES	B-3	N	F	Х	X	Fish Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Lower Yellowstone	MT42M002_010	BENNIE PEER CREEK, North Dakota border to mouth (Yellowstone River)	4C	10.17	MILES	C-3	N	-	-	I	Alteration in stream-side or littoral vegetative covers	Channelization
											Flow Regime Modification	Crop Production (Irrigated)
											Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
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
											Flow Regime Modification	Source Unknown
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Total Dissolved Solids (TDS)	
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to	5	33.37	MILES	C-3	N	-	-	ı	Copper	Crop Production (Irrigated)
		mouth (Yellowstone River)									Fish Passage Barrier	Hydrostructure Impacts on Fish Passage
											Flow Regime Modification	Source Unknown
											Iron	Transfer of Water from an Outside Watershed
											Lead	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Phosphorus, Total	



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	-	-	ı	Sediment	
		mouth (Yellowstone River)									Total Dissolved Solids (TDS)	
Lower Yellowstone	MT42M002_040	LONE TREE CREEK, confluence of No Fork to mouth (Yellowstone River)	orth 5	17.27	MILES	C-3	N	-	-	N	Alteration in stream-side or littoral vegetative covers	Channelization
		Fork to mouth (Tellowstone River)									Chlorophyll-a	Crop Production (Irrigated)
											Flow Regime Modification	Habitat Modification - other than Hydromodification
											Iron	
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Sediment	
Lower Yellowstone	MT42M002_051	FOX CREEK, headwaters to mouth	5	49.85	MILES	B-2	N	N	N	N	Algae	Channelization
		(Yellowstone River), T22N R59E S19									Arsenic	Crop Production (Irrigated)
											Flow Regime Modification	Natural Sources
											Iron	Source Unknown
											Lead	
											Mercury	
											Nitrogen, Total	
											Phosphorus, Total	
											Physical substrate habitat alterations	
											Sediment	
											Sulfate	
											Total Dissolved Solids (TDS)	
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwate to mouth (Fox Creek), T22N R58E S21	ers 5	20.32	MILES	B-2	N	N	N	N	Algae	Channelization
		to mouth (Fox Cleek), 122N K36E 321									Arsenic	Crop Production (Irrigated)
											Flow Regime Modification	Natural Sources
											Iron	Source Unknown
											Lead	
											Mercury	
											Nitrogen, Total	



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

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y 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	
											Sediment	
											Sulfate	
											Total Dissolved Solids (TDS)	
Lower Yellowstone	MT42M002_060	O'BRIEN CREEK, North Dakota border t mouth (Yellowstone River)	0 5	15.53	MILES	C-3	N	-	-	N	Algae	Animal Feeding Operations (NPS)
		modifi (Tellowstoffe River)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Irrigated)
											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 Flow Regime Modification	Crop Production (Irrigated)
											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	N	-	-	F	Cadmium	Channelization
		modifi (Tellowstoffe River)									Fish Passage Barrier	Hydrostructure Impacts on Fish Passage
											Iron	Natural Sources
											Physical substrate habitat alterations	Source Unknown
												Water Diversions
Lower Yellowstone	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	5	53.66	MILES	C-3	N	-	-	N	Chlorophyll-a	Crop Production (Crop Land or Dry Land)
		(Tellowstone River)									Fish Passage Barrier	Crop Production (Irrigated)
											Flow Regime Modification	Hydrostructure Impacts on Fish Passage
											Iron	Natural Sources
											Nitrogen, Total	
											Phosphorus, Total	
											Sediment	
Lower Yellowstone	MT42M002_120	MORGAN CREEK, headwaters to mouth (Yellowstone River)	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

**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

<sup>\*</sup> 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			cial U DW		Cause Name *	Source Name *
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to mo (Yellowstone River)	outh 5	55.89	MILES	C-3	N	-	-	F	Cadmium	Natural Sources
		(Yellowstone River)									Chromium, Total	Source Unknown
											Copper	
											Iron	
											Lead	
											Nickel	
											Sediment	
											Selenium	
											Zinc	
Lower Yellowstone	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	5	27.49	MILES	C-3	N	-	-	Х	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
											Arsenic	Natural Sources
											Copper	Spills from Trucks or Trains
											Iron	
											Lead	
Lower Yellowstone	MT42M002_142	CEDAR CREEK, tributary confluence a		20.13	MILES	C-3	N	-	-	F	Copper	Natural Sources
		12N 57E S35 to tributary confluence at 13N 56E S27									Iron	
											Lead	
											Selenium	
Lower Yellowstone	MT42M002_150	CABIN CREEK, headwaters to mouth	5	102.54	MILES	C-3	N	-	-	F	Dissolved Oxygen	Dam or Impoundment
		(Yellowstone River)									Nitrogen, Total	Natural Sources
											Sedimentation/Siltation	Rangeland Grazing
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth	5	15.15	MILES	C-3	N	_		N	Algae	Channelization
Lower renowstone	W142W002_100	(Yellowstone River)	3	10.10	IVIILLO	0-5	14			11	Alteration in stream-side or littoral	Crop Production (Irrigated)
											vegetative covers	Hydrostructure Impacts on Fish Passage
											Copper	Rangeland Grazing
											Fish Passage Barrier	Source Unknown
											Flow Regime Modification	Transfer of Water from an Outside Watershed
											Iron	Transfer of yvater from all Outside watersried



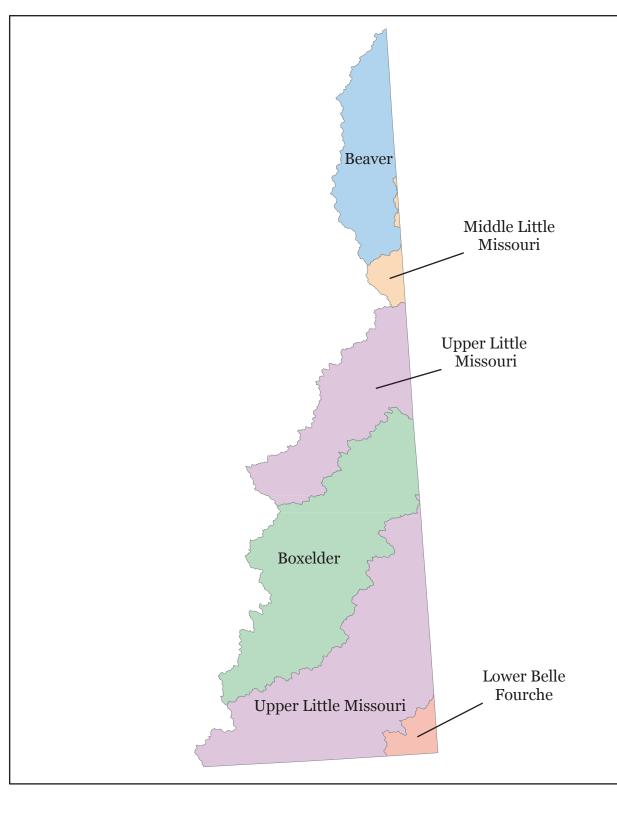
HUC: 10100004 Lower Yellowstone Watershed: Lower Yellowstone

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Ben AqL	efic Ag	ial U DW	se Rec	Cause Name * Sou	urce Name *
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	5	15.15	MILES	C-3	N	-	-	N	Lead	
		(Tellowstone raver)									Sediment	



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

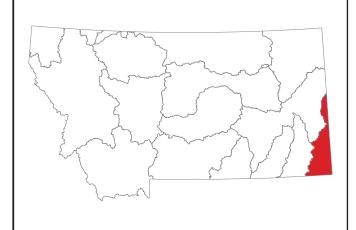
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
O'Fallon	MT42L001_010	PENNEL CREEK, headwaters to mouth (O'Fallon Creek)	n 5	65.97	MILES	C-3	N	-	-	F	Total Dissolved Solids (TDS)	Source Unknown
O'Fallon	MT42L001_020	SANDSTONE CREEK,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



## Little Missouri/Belle Fourche Sub-Major Basin

### **Yellowstone River Basin**

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



Montana Department of Environmental Quality



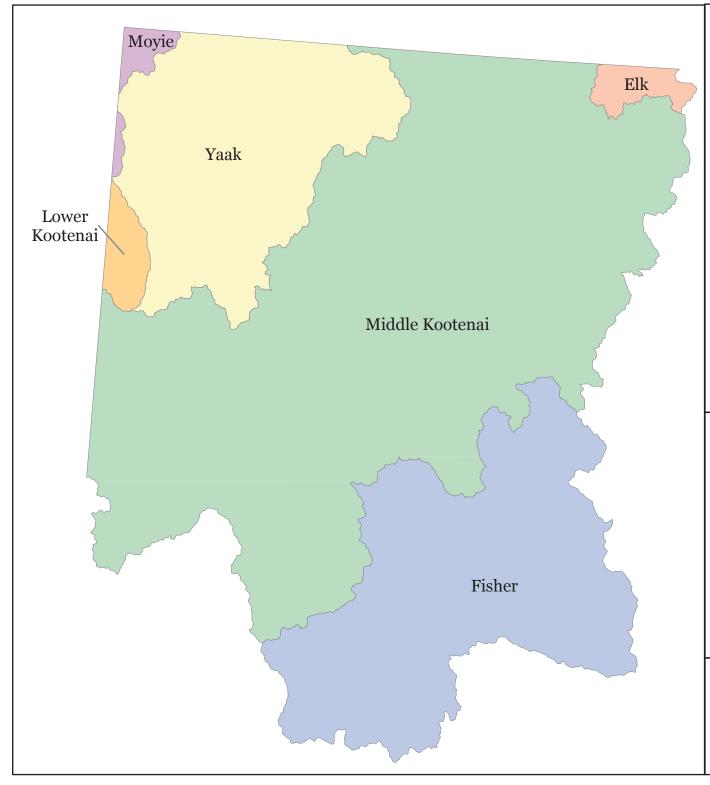
HUC: 10110201 Upper Little Missouri Watershed: Little Missouri/Belle Fourche

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Benef AqL Aç			Cause Name *	Source Name *
Little Missouri	MT39F001_010	THOMPSON CREEK, Wyoming border	r to 5	41.22	MILES	C-3	N -	-	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 Sodin Dakola border								Copper	Natural Sources
										Iron	Source Unknown
										Lead	
										Nitrogen, Total	
										Phosphorus, Total	
										Zinc	



HUC: 10110204 Beaver Watershed: Little Missouri/Belle Fourche

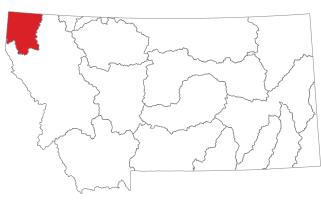
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class	Ben AqL	efici Ag	al Us DW	se Rec	Cause Name *	Source Name *
Little Missouri	MT39G002_010	LAMESTEER NATIONAL WILDLIFE REFUGE	4C	73.6	ACRES	C-3	N	-	-	х	Cause Unknown	Agriculture



## Kootenai Sub-Major Basin

## **Columbia River Basin**

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



**Montana Department of Environmental Quality** 



HUC: 17010101 Middle Kootenai Watershed: Kootenai

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ 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	Flow Regime Modification	Dam or Impoundment
		River									Temperature	Impacts from Hydrostructure Flow Regulation/modification
Kootenai	MT76D002_010	STANLEY CREEK, headwaters to mouth (Lake Creek)	n 4A	6.3	MILES	B-1	N	F	F	N	Copper	Impacts from Abandoned Mine Lands (Inactive)
		(Lake Oreek)									Nitrate/Nitrite (Nitrite + Nitrate as N)	Mine Tailings
												Streambank Modifications/destabilization
												Surface Mining
Kootenai	MT76D002_020	DRY CREEK, 1 mile upstream from Stat	e 4C	2.1	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Highways, Roads, Bridges, Infrastructure (New
		Highway 56 to mouth (Lake Creek)									Physical substrate habitat alterations	Construction)
Kootenai	MT76D002_030	KEELER CREEK, headwaters to Lake	4C	9.15	MILES	B-1	N	F	Х	F	Flow Regime Modification	Forest Roads (Road Construction and Use)
		Creek									Physical substrate habitat alterations	Silviculture Activities
Kootenai	MT76D002_040	SNOWSHOE CREEK, Cabinet Wilderness boundary to mouth (Big Cherry Creek)	4A	3.62	MILES	B-1	N	X	N	Х	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 Creek	< 4A	13.07	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		to Mouth (Libby Creek)									vegetative covers Cadmium	Habitat Modification - other than Hydromodification
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	Mine Tailings
											Zinc	
Kootenai	MT76D002_061	LIBBY CREEK, from 1 mi above Howard	I 4C	11.24	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Impacts from Abandoned Mine Lands (Inactive)
		Creek to Highway 2 bridge									vegetative covers Physical substrate habitat alterations	Placer Mining
Kootenai	MT76D002_062	LIBBY CREEK, from the Highway 2 brid	ge 4A	14.8	MILES	B-1	N	F	Х	Х	Physical substrate habitat alterations	Site Clearance (Land Development or
		to mouth (Kootenai River)									Sedimentation/Siltation	Redevelopment) Streambank Modifications/destabilization
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	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 L DW		Cause Name *	Source Name *
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	4A	17.57	MILES	B-1	N	F	F	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Loss of Riparian Habitat
		(Nooterial River)									Sedimentation/Siltation	Mill Tailings
												Mine Tailings
												Natural Sources
Bobtail Creek	MT76D002_080	BOBTAIL CREEK, headwaters to mouth	4A	11.53	MILES	B-1	N	F	X	F	Flow Regime Modification	Forest Roads (Road Construction and Use)
		(Kootenai River)									Sedimentation/Siltation	Source Unknown
											Turbidity	
Kootenai	MT76D002_100	CRIPPLE HORSE CREEK, headwaters	to 4C	12.62	MILES	B-1	N	Х	Х	Х	Flow Regime Modification	Silviculture Activities
		mouth (Lake Koocanusa)									Physical substrate habitat alterations	
Kootenai	MT76D003_010	LAKE KOOCANUSA	5	28874.5	ACRES	B-1	N	F	F	F	Flow Regime Modification	Dam or Impoundment
											Selenium	Sources Outside State Jurisdiction or Borders
Tobacco	MT76D004_010	TOBACCO RIVER, confluence of Grave	4A	14.21	MILES	B-1	N	F	F	F	Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones
		Creek & Fortine Creek to mouth (Lake Koocanusa)									Sedimentation/Siltation	Streambank Modifications/destabilization
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth	n 4A	33.46	MILES	B-1	N	F	F	N	Algae	Agriculture
		(Grave Creek)									Alteration in stream-side or littoral	Channelization
											vegetative covers Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
											Temperature	Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Activities
												Source Unknown
												Water Diversions
Tobacco	MT76D004_030	EDNA CREEK, headwaters to mouth	4A	10.55	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)
		(Fortine Creek)										Silviculture Harvesting
Tobacco	MT76D004_040	SWAMP CREEK, headwaters to mouth	4A	11.94	MILES	B-1	N	F	F	I	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Fortine Creek)									vegetative covers Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones



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	I		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	4A	17.43	MILES	B-1	N	F	Х	Х	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		mouth (Fortine Creek)									vegetative covers Flow Regime Modification	Silviculture Harvesting
											Sedimentation/Siltation	Water Diversions
Tobacco	MT76D004_070	THERRIAULT CREEK, headwaters to	4A	9.71	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Crop Production (Irrigated)
		mouth (Tobacco River)										Grazing in Riparian or Shoreline Zones
Tobacco	MT76D004_080	DEEP CREEK, headwaters to mouth	4A	11.02	MILES	A-1	N	F	F	N	Algae	Grazing in Riparian or Shoreline Zones
		(Fortine Creek)									Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	
Tobacco	MT76D004_091	SINCLAIR CREEK, confluence of un-	4A	7.9	MILES	B-1	N	х	Х	Х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		named tributary, Lat 48.908 Long - 114.945 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			ial U DW	se 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	Flow Regime Modification	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	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 (Yaz 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	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities Silviculture Harvesting Source Unknown



HUC: 17010104 Lower Kootenai Watershed: Kootenai

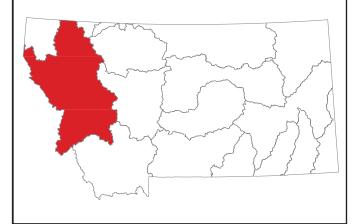
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	Be AqL	nefic . Ag	ial L DW	Jse Rec	Cause Name *	Source Name *
Kootenai	MT76A001_010	KOOTENAI RIVER, confluence with Yaz River to Idaho border	ak 5	6.09	MILES	B-1	N	F	F	F	Flow Regime Modification	Dam or Impoundment
		Net to tuallo boldel									Temperature	Impacts from Hydrostructure Flow Regulation/modification

# North Fork Flathead Middle Fork Flathead Stillwater Flathead Lake Lower Clark South Fork Fork Swan Flathead Lower Flathead Middle Clark Fork Blackfoot Flint-Rock Upper Clark **Bitterroot** Fork

# Pend Oreille Sub-Major Basin

## **Columbia River Basin**

<b>USGS HUC</b>	<b>HUC NAME</b>
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



**Montana Department of Environmental Quality** 



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



TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		nefic _ Ag			Cause Name *	Source Name *
Clark Fork River	MT76G001_040	CLARK FORK RIVER, Warm Springs	4A	27.83	MILES	C-2	N	F	-	N	Lead	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 t	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	X	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)
		T6N R9W S6									Arsenic	Grazing in Riparian or Shoreline Zones
											Cadmium	Mill Tailings
											Copper	
											Flow Regime Modification	
											Iron	
											Lead	
											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	ı	Alteration in stream-side or littoral	Channelization
		mouth (Un-Named canal/Ditch)									vegetative covers Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Silviculture Harvesting
												Water Diversions
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	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial U 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	Х	Alteration in stream-side or littoral vegetative covers	Contaminated Sediments
		diversion									Arsenic	Crop Production (Irrigated)
											Cadmium	Mill Tailings
											Copper	
											Flow Regime Modification	
											Iron	
											Lead	
											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
											Flow Regime Modification	
											Iron	
											Lead	
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
											Zinc	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		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	Crop Production (Irrigated)
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Lead	Municipal Point Source Discharges
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Physical substrate habitat alterations	
											Sulfate	
Upper Clark Fork	MT76G002_080	MODESTY CREEK, headwaters to mou	th 4A	14.72	MILES	B-1	N	F	N	Х	Arsenic	Agriculture
		(Clark Fork River)									Cadmium	Atmospheric Deposition - Toxics
											Copper	
											Flow Regime Modification	
											Lead	
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	Х	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	Agriculture Crop Production (Irrigated)
Upper Clark Fork	MT76G002_100	DEMPSEY CREEK, the national forest boundary to mouth (Clark Fork River)	4A	13.44	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Agriculture  Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones
Upper Clark Fork	MT76G002_110	TIN CUP JOE CREEK, Tin Cup Lake outlet to mouth (Clark Fork River)	4A	6.5	MILES	B-1	N	F	F	Х	Flow Regime Modification Sedimentation/Siltation	Agriculture
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	Arsenic Cadmium Copper Lead	Mill Tailings

<sup>\*</sup>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			ial U DW		Cause Name *	Source Name *
Upper Clark Fork	MT76G002_120	MILL-WILLOW BYPASS, Mill and Willov Creek diversion to Silver Bow Creek (below ponds)	v 4A	4.2	MILES	B-1	N	F	N	F	Zinc	
Jpper Clark Fork	MT76G002_131	PETERSON CREEK, headwaters to Jac	k 4A	6.27	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Crop Production (Irrigated)
		Creek									vegetative covers Copper	Forest Roads (Road Construction and Use)
											Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Iron	Highway/Road/Bridge Runoff (Non-construction Related)
											Lead	Impacts from Abandoned Mine Lands (Inactive)
											Nitrogen, Total	Silviculture Activities
											Phosphorus, Total	Silviculture Harvesting
											Sedimentation/Siltation	Source Unknown
											Total Kjehldahl Nitrogen (TKN)	
Jpper 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 Flow Regime Modification	Crop Production (Irrigated)
											Iron	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus, Total	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Temperature	
Jpper Clark Fork	MT76G002_140	ANTELOPE CREEK, headwaters to	4A	6.08	MILES	B-1	N	F	F	Х	Flow Regime Modification	Agriculture
		mouth (Gardner Ditch)									Sedimentation/Siltation	Source Unknown
												Streambank Modifications/destabilization
Jpper Clark Fork	MT76G003_020	SILVER BOW CREEK, Blacktail Creek	o 4A	29.18	MILES	1	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)



Warm Springs Creek (Clark Fork River)  Warm Springs Model Clark Fork River)  Warm Springs Model Control  Warm Springs Mo	TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Netrogen. Total Phosphores, Total Physical substrate habitat alterations Sedimentation/Siliation Zinc  GERMAN GULCH; headwaters to mouth (Gilver Bow Creek)  MIT76GO03_000  GERMAN GULCH; headwaters to mouth (Gilver Bow Creek)  MIT76GO03_000  GERMAN GULCH; headwaters to mouth (Gilver Bow Creek)  MIT76GO03_000  GERMAN GULCH; headwaters to mouth (Gilver Bow Creek)  MIT76GO03_000  GERMAN GULCH; headwaters to mouth (German Gulch)  MIT76GO03_000  MIT76GO03_00	Upper Clark Fork	MT76G003_020		o 4A	29.18	MILES	I	N	F	N	N	Nitrate	
Physical substrate habital alterations Socimentations/Siltation Zinc  pper Clark Fork MT76003_000 GERMAN GULCH; headwaters to mouth (Silver Bord Create)  Place Mining  BEEFSTRAIGHT CREEK, Mirmesotta on 1923 MILES B-1 N X X X X Cyanide Mine Tailings  BEEFSTRAIGHT CREEK, Mirmesotta on 1923 MILES B-1 N X X X X Sedimentation/Siltation  Place Mining  BROWNS GULCH CREEK, Near-active on 1923 MILES B-1 N X X X X Sedimentation/Siltation  BROWNS GULCH CREEK, Near-active on 1923 MILES B-1 N X X X X Sedimentation/Siltation  BROWNS GULCH CREEK, Near-active on 1923 MILES B-1 N X X X X Sedimentation/Siltation  BROWNS GULCH CREEK, Near-active on 1923 MILES B-1 N X X X X Sedimentation/Siltation  BROWNS GULCH CREEK, Near-active on 1923 MILES B-1 N X X X X Sedimentation/Siltation  Agriculture  Characteristic on 1924 Mining  Characteristic stream-side or littoral vegetables covers  Alternation  Agriculture  Lead On-stail Treatment Systems (Spatic Systems and Smile) December (Grazing or Feeding Operations)  Lead Smiles December Covers  Agriculture  Agriculture  Agriculture  Characteristic Mining of Grazing  Phosphone, Total Repair Modification  Lead Smiles December Covers  Agriculture  Agriculture  Agriculture  Characteristic Mining of Grazing  Agriculture  Agriculture  Phosphone, Total Repair Modification  Lead Smiles December Systems and Smile			Walli Spilligs Cleek (Clark Fork River)									Nitrogen, Total	
Sedimentation is in the poer Clark Fork Price (Silver Bow Creak)  Price Price Price (Silver Bow Creak)  Price Price Price (Silver Bow Creak)  Price Price Price Price (Silver Bow Creak)  Price P												Phosphorus, Total	
pper Clark Fork MT76G003_030 GERMAN GULCH, headwaters to mouth (Shver Bow Creek)  Page Clark Fork MT76G003_030 GERMAN GULCH, headwaters to mouth (Shver Bow Creek)  Page Clark Fork MT76G003_031 BEEFSTRAGHT CREEK, Minnesotia Gulch to mouth (German Gulch)  Spec Clark Fork MT76G003_040 BROWNS GULCH CREEK, Headwaters to thir mouth (German Gulch)  The mouth (Glark Fork Briver)  MT76G003_040 BROWNS GULCH CREEK, headwaters to thir mouth (German Gulch)  The mouth (Glark Fork River)  MT76G004_010 LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, th												Physical substrate habitat alterations	
Poper Clark Fork MT766003_030 GERMAN GUILCH, headwaters to mouth (Silver Bow Croek)  ### And Part												Sedimentation/Siltation	
(Silver Bow Creek)  (Ittle BlackFoOt RIVER, Dog Creek  (Silver Bow Creek)  (Ittle BlackFoOt RIVER, Dog Creek  (Silver Bow Creek)  (Ittle BlackFoOt RIVER, Dog Creek  (Silver Bow Creek)  (Silver Bow Creek)  (Silver Bow Creek)  (Ittle BlackFoOt RIVER, Dog Creek  (Ittle Blackfoot Mine Lands (Inactive)  (Ittle Blackfoot Mine Lands (Inactive)  (Ittle Blackfoot Mine Lands (Inactive)  (Ittle Blackfoot River)  (Ittle Blackfoot												Zinc	
Igner Clark Fork MT76G003_031 BEEFSTRAIGHT CREEK, Minnesotia Gulch to mouth (German Gulch)  pper Clark Fork MT76G003_040 BROWNS GULCH CREEK, headwaters to the mouth (Silver Bow Creek)  pper Clark Fork MT76G004_010 LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)  ### A 26.5 MILES B-1 N X X N N N N N N N N N N N N N N N N	Upper Clark Fork	MT76G003_030	·	h 4A	8.24	MILES	B-1	N	F	N	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)
Inper Clark Fork MT76G003_031 BEEFSTRAIGHT CREEK, Minnesota Guich to mouth (German Guich)  BPOWNS GULCH CREEK, headwaters to the mouth (Silver Bow Creek)  BROWNS GULCH CREEK, headwaters to the mouth (Silver Bow Creek)  BROWNS GULCH CREEK, headwaters to the mouth (Silver Bow Creek)  LITTLE BLACKFOOT RIVER, Dog Creek  A 26.5 MILES B-1 N X N N N Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Impacts from Abandoned Mine Lands (Inactive)  Flow Regime Modification Lead On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)  Rangeland Grazing  Sedimentation/Siltation in stream-side or littoral vegetative covers Aluminum Channelization Residential Districts  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  HT76G004_020 LITTLE			(Sliver Bow Creek)									Cyanide	Placer Mining
Guich to mouth (German Guich)  [pper Clark Fork   MT76G03_04] BROWNS GULCH CREEK, headwaters to the mouth (Silver Bow Creek)  [ITTLE BLACKFOOT RIVER. Dog Creek   4A   26.5   MILES   B-1   N   X   N   N   Alteration in stream-side or littoral vegetative covers Aluminum  [ITTLE BLACKFOOT RIVER, the headwaters to Dog Creek   4A   22.54   MILES   B-1   N   X   N   N   N   N   N   N   N   N												Selenium	
title Blackfoot MT76G004_010 LITTLE BLACKFOOT RIVER, Dog Creek 4A 26.5 MILES B-1 N X N N Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Impacts from Abandoned Mine Lands (Inactive) Elackfoot MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwa	Upper Clark Fork	MT76G003_031		4A	3.5	MILES	B-1	N	Х	Х	X	Cyanide	Mine Tailings
Silviculture Harvesting  MT76G004_010 LITTLE BLACKFOOT RIVER, Dog Creek 4A 26.5 MILES B-1 N X N N N Alteration in stream-side or littoral vegetative covers Adminium Channelization  Lead Similar Decentrations (Spetic Systems and Similar Decentrations)  Rangeland Grazing  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  MT76G004_020 Lead	Upper Clark Fork	MT76G003_040		4A	19.31	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	Agriculture
vegetative covers Aluminum Channelization  Arsenic Impacts from Abandoned Mine Lands (Inactive)  Flow Regime Modification Livestock (Grazing or Feeding Operations)  Lead On-site Treatment Systems and Similar Decentralized Systems)  Rangeland Grazing  Sedimentation/Siltation Residential Districts  Alteration in stream-side or littoral vegetative covers Aluminum  Arsenic Channelization  Channelization  Arsenic Channelization  Channelization  Channelization  Residential Districts  Crop Production (Crop Land or Dry Land)  Highway/Road/Bridge Runoff (Non-construction Related)  Impacts from Abandoned Mine Lands (Inactive)  Copper Livestock (Grazing or Feeding Operations)  Cyanide  Lead			to the modifi (diver bow creek)										Silviculture Harvesting
Aluminum Channelization  Arsenic Impacts from Abandoned Mine Lands (Inactive)  Flow Regime Modification Livestock (Grazing or Feeding Operations)  Lead On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)  Rangeland Grazing  Rangeland Grazing  Residential Districts  Sedimentation/Sittation Residential Districts  ittle Blackfoot MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  Aluminum Channelization  Lead On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)  Rangeland Grazing  Residential Districts  Channelization  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	Little Blackfoot	MT76G004_010		k 4A	26.5	MILES	B-1	N	Х	N	N		Agriculture
Flow Regime Modification  Livestock (Grazing or Feeding Operations)  Lead  On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)  Phosphorus, Total  Rangeland Grazing  Sedimentation/Siltation  Residential Districts  Alteration in stream-side or littoral vegetative covers  Aluminum  Arsenic  Highway/Road/Bridge Runoff (Non-construction Related)  Impacts from Abandoned Mine Lands (Inactive)  Copper  Livestock (Grazing or Feeding Operations)  Livestock (Grazing or Feeding Operations)  Lead  On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)  Rangeland Grazing  Sedimentation/Siltation  Residential Districts  Channelization  Crop Production (Crop Land or Dry Land)  Arsenic  Highway/Road/Bridge Runoff (Non-construction Related)  Impacts from Abandoned Mine Lands (Inactive)  Copper  Livestock (Grazing or Feeding Operations)  Cyanide  Lead			to mouth (Clark Fork River)									•	Channelization
Lead On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Rangeland Grazing Sedimentation/Siltation Residential Districts  ittle Blackfoot MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek  Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Crop Production (Crop Land or Dry Land) Arsenic Related) Cadmium Impacts from Abandoned Mine Lands (Inactive) Copper Cyanide Lead												Arsenic	Impacts from Abandoned Mine Lands (Inactive)
Similar Decentralized Systems) Similar Decentralized Systems) Rangeland Grazing Sedimentation/Siltation Residential Districts  Similar Decentralized Systems) Rangeland Grazing Sedimentation/Siltation Residential Districts  Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Highway/Road/Bridge Runoff (Non-construction Related) Cadmium Impacts from Abandoned Mine Lands (Inactive) Copper Cyanide Lead												Flow Regime Modification	Livestock (Grazing or Feeding Operations)
Phosphorus, Total Rangeland Grazing  Sedimentation/Siltation Residential Districts  Sedimentation/Siltation Residential Districts  Sedimentation/Siltation Residential Districts  Alteration in stream-side or littoral 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												Lead	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
ittle Blackfoot MT76G004_020 LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek 4A 22.54 MILES B-1 N X N X Alteration in stream-side or littoral 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												Phosphorus, Total	
headwaters to Dog Creek  Negetative 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 Copper Livestock (Grazing or Feeding Operations)  Cyanide Lead												Sedimentation/Siltation	Residential Districts
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	Little Blackfoot	MT76G004_020		4A	22.54	MILES	B-1	N	Х	N	Х		Channelization
Related) Cadmium Impacts from Abandoned Mine Lands (Inactive) Copper Livestock (Grazing or Feeding Operations) Cyanide Lead			headwaters to Dog Creek										Crop Production (Crop Land or Dry Land)
Cadmium Impacts from Abandoned Mine Lands (Inactive)  Copper Livestock (Grazing or Feeding Operations)  Cyanide  Lead												Arsenic	Highway/Road/Bridge Runoff (Non-construction
Cyanide Lead												Cadmium	
Lead												Copper	Livestock (Grazing or Feeding Operations)
												Cyanide	
Sedimentation/Siltation												Lead	
												Sedimentation/Siltation	

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			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	uth 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 mout	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)



**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_055	SALLY ANN CREEK, headwaters to mouth (O'Keefe Creek)	4A	1.6	MILES	B-1	N	Х	1	Х	Copper	Mine Tailings
		mount (O Reele Cleek)									Zinc	
Little Blackfoot	MT76G004_060	MONARCH CREEK, headwaters to mou (Ontario Creek)	ıth 4A	4.68	MILES	B-1	N	Х	F	Χ	Aluminum	Impacts from Abandoned Mine Lands (Inactive)
		(Ontario Oreek)									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	1	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	rs 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 Flow Regime Modification	Crop Production (Irrigated)

**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:** 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 *
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to	4A	11.45	MILES	B-1	N	Х	х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Dredge Mining
		mouth (Little Blackfoot River)									Sedimentation/Siltation	Forest Roads (Road Construction and Use)
												Grazing in Riparian or Shoreline Zones
												Impacts from Abandoned Mine Lands (Inactive)
												On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Water Diversions
Little Blackfoot	MT76G004_091	CARPENTER CREEK, headwaters to Basin Creek	4C	3.67	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations	Impacts from Abandoned Mine Lands (Inactive)
											Physical substrate habitat alterations	
Little Blackfoot	MT76G004_092	CARPENTER CREEK, Basin Creek to	4A	4.87	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 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	X	Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
		mouth (Carpenter Creek), 11114 177 V 32	.5									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	r)								vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Highway/Road/Bridge Runoff (Non-construction
											Phosphorus, Total	Related) 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	Х	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)	n 4A	6.4	MILES	B-1	N	Х	F	Х	Aluminum	Impacts from Abandoned Mine Lands (Inactive)

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

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Little Blackfoot	MT76G004_130	ONTARIO CREEK, headwaters to mou	ıth 4A	6.4	MILES	B-1	N	Х	F	Х	Cadmium	
		(Little Blackfoot 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	Х	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 St mouth (Un-named Canal), T10N R11W S30		4.05	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers Arsenic	Grazing in Riparian or Shoreline Zones  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	Х	N	Flow Regime Modification	Agriculture
oppor olark rolk	1700003_002	(Clark Fork River)	70	7.00	WILLS	D-1	14	^	^	14	Nitrogen, Total	Dam Construction (Other than Upstream Flood
											Phosphorus, Total	Control Projects)
											Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones  Highway/Road/Bridge Runoff (Non-construction Related)



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			cial U DW	lse 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	Flow Regime Modification	Agriculture  Crop Production (Irrigated)
											Lead	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Impacts from Abandoned Mine Lands (Inactive)
Upper Clark Fork	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	4A	12.5	MILES	B-1	Х	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	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification 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	X	Aluminum Arsenic Cadmium Copper Iron Lead Mercury	Impacts from Abandoned Mine Lands (Inactive)
											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 Blackfoot River	4A	50.93	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers	Channelization
		DIACKIOUI KIVEI									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	Crop Production (Irrigated)
		,									Flow Regime Modification	Forest Roads (Road Construction and Use)
											Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											Phosphorus, Total	Impacts from Hydrostructure Flow
											Sedimentation/Siltation	Regulation/modification Source Unknown
											Temperature	
Rock	MT76E002_030	WEST FORK ROCK CREEK, headwate	ers 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	to 4C	21.7	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral	Crop Production (Irrigated)
		mouth (Rock Creek)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											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	Crop Production (Irrigated)
		(Rock Creek)									Flow Regime Modification	Source Unknown
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK,	4A	2.93	MILES	B-1	N	Х	Х	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	Χ	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	4A	6.9	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
		mouth (Rock Creek)										Unspecified Unpaved Road or Trail
Rock	MT76E002_070	QUARTZ GULCH, headwaters to mouth	n 4A	3.43	MILES	B-1	N	Х	F	Х	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Eureka Gulch)									vegetative covers 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	z 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	
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	4A	6.33	MILES	B-1	N	Х	N	N	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline Zones
		(Rock Creek)									vegetative covers Arsenic	Impacts from Abandoned Mine Lands (Inactive)



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

	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	Copper	
		(NOCK CIEEK)									Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Sedimentation/Siltation	
Rock	MT76E002_120	FLAT GULCH, headwaters to mouth	4A	2.99	MILES	B-1	N	Х	F	N	Aluminum	Forest Roads (Road Construction and Use)
		(Rock Creek)									Iron	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Impacts from Abandoned Mine Lands (Inactive)
											Phosphorus, Total	Rangeland Grazing
											Sedimentation/Siltation	Silviculture Activities
Rock I	MT76E002_160	MINERS GULCH, headwaters to mouth	4A	5.42	MILES	B-1	N	Χ	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 I	MT76E003_011		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)
											Flow Regime Modification	
											Lead	
											Mercury	
											Phosphorus, Total	
											Sedimentation/Siltation	
Flint I	MT76E003_012	FLINT CREEK, Boulder Creek to mouth	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	
											Nitrogen, Total	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic _ Ag			Cause Name *	Source Name *
Flint	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	n 4A	16.92	MILES	B-1	N	F	N	F	Phosphorus, Total Sedimentation/Siltation Turbidity	
Flint	MT76E003_020	DOUGLAS CREEK, confluence of Midc 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 t 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)	rth 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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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Flint	MT76E003_070	BARNES CREEK, headwaters to mouth	4A	8.87	MILES	B-1	N	Х	ı	N	Chlorophyll-a	Crop Production (Irrigated)
		(Flint Creek)									Iron	Impacts from Abandoned Mine Lands (Inactive)
											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	X	Х	Nitrate	Placer Mining
		mouth (Boulder Creek)									Physical substrate habitat alterations	
Flint	MT76E003_100	DOUGLAS CREEK, headwaters to whe	re 4A	3.76	MILES	B-1	N	Х	N	ı	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	Freshets 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	, 4A	1.8	MILES	B-1	N	F	N	Х	Alteration in stream-side or littoral	Channelization
		T7N R14W S25									vegetative covers Arsenic	Habitat Modification - other than Hydromodification
											Cadmium	Impacts from Abandoned Mine Lands (Inactive)



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial U DW		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 R14W 525									Fish Passage Barrier	
											Lead	
											Zinc	
Flint	MT76E003_140	ROYAL GOLD CREEK, headwaters to	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	ı 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	n 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	Ν	F	F	X	Flow Regime Modification	Agriculture
		(Clark Fork River)									Physical substrate habitat alterations	Streambank Modifications/destabilization
Clark Fork - Drummond	MT76E004_050	MULKEY CREEK, headwaters to mouth (Clark Fork River)	4A	5.99	MILES	B-1	N	х	х	N	Sedimentation/Siltation	Low Water Crossing
		(Clark Fork River)										Source Unknown
Clark Fork - Drummond	MT76E004_060	RATTLER GULCH, headwaters to mout	h 4A	8.08	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers	Forest Roads (Road Construction and Use)
		(Clark Fork River), T11N R13W S22									Chlorophyll-a	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Silviculture Harvesting
											Phosphorus, Total	
											Sedimentation/Siltation	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
Clark Fork - Drummond	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	4A k	5.12	MILES	B-1	N	F	F	N	Chlorophyll-a Flow Regime Modification	Placer Mining Silviculture Harvesting
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Subsurface (Hardrock) Mining
											Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_080	ANTELOPE CREEK, headwaters to mouth (Clark Fork River)	4C	8.45	MILES	B-1	N	Х	Х	Х	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



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		enefic L Ag			Cause Name *	Source Name *
Blackfoot Headwaters	MT76F001_010	BLACKFOOT RIVER, headwaters to	4A	16.11	MILES	B-1	N	х	N	F	Cadmium	Subsurface (Hardrock) Mining
		Landers Fork									Copper	Surface Mining
											Iron	
											Lead	
											Manganese	
											Zinc	
Blackfoot Headwaters	MT76F001_020	BLACKFOOT RIVER, Landers Fork to	4A	48	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
		Nevada Creek									vegetative covers Aluminum	Silviculture Harvesting
											Cadmium	Subsurface (Hardrock) Mining
											Iron	Surface Mining
											Sedimentation/Siltation	
											Zinc	
Middle Blackfoot	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to	o 4A	21.44	MILES	B-1	N	F	F	F	Nitrogen, Total	Crop Production (Irrigated)
		Monture Creek									Phosphorus, Total	Source Unknown
											Sedimentation/Siltation	
											Temperature	
Middle Blackfoot	MT76F001_032	BLACKFOOT RIVER, Monture Creek t	o 4A	23.53	MILES	B-1	N	F	F	F	Nitrogen, Total	Source Unknown
		Belmont Creek									Phosphorus, Total	Streambank Modifications/destabilization
											Sedimentation/Siltation	Water Diversions
											Temperature	
Blackfoot Headwaters	MT76F002_020	WILLOW CREEK, Sandbar Creek to	4A	2.94	MILES	B-1	N	F	F	F	Flow Regime Modification	Highway/Road/Bridge Runoff (Non-construction
		mouth (Blackfoot River), T15N R7W S3	34								Sedimentation/Siltation	Related) Streambank Modifications/destabilization
Blackfoot Headwaters	MT76F002_030	POORMAN CREEK, headwaters to mo	outh 4A	14.31	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Construction Stormwater Discharge (Permitted)
344.00	5. 502_005	(Blackfoot River)			223			•	•	. •	vegetative covers Cadmium	Forest Roads (Road Construction and Use)
											Copper	Impacts from Abandoned Mine Lands (Inactive)
											Flow Regime Modification	Natural Sources
											Lead	Silviculture Activities



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)	uth 4A	14.31	MILES	B-1	N	F	F	Х	Sedimentation/Siltation	Water Diversions
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
		modif (Blackloot Niver)									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 (blackloot 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	la 4A	19.84	MILES	B-1	N	F	F	Х	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



TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			cial U DW		Cause Name *	Source Name *
Nevada Creek	MT76F003_011	NEVADA CREEK, headwaters to Nevad Lake	a 4A	19.84	MILES	B-1	N	F	F	Х	Physical substrate habitat alterations Sediment Temperature	
											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	Х	Flow Regime Modification  Nitrogen, Total	Agriculture Source Unknown
											Phosphorus, Total Physical substrate habitat alterations Sedimentation/Siltation Temperature Total Kjehldahl Nitrogen (TKN)	Streambank Modifications/destabilization
Nevada Creek	MT76F003_021	JEFFERSON CREEK, headwaters to 1 mile above confluence with Madison Gulch	4A	3.72	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Channelization  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	I	Alteration in stream-side or littoral vegetative covers Aluminum Flow Regime Modification Iron Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Channelization Crop Production (Irrigated) Dredge Mining Grazing in Riparian or Shoreline Zones Source Unknown Streambank Modifications/destabilization
Nevada Creek	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	4A	7.34	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Agriculture Rangeland Grazing



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 *
Nevada Creek	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	4A	7.34	MILES	B-1	N	F	F	N	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	4A	2.1	MILES	B-1	N	F	F	I	Alteration in stream-side or littoral	Crop Production (Irrigated)
		Company Ditch to mouth (Nevada Creel T13N R11W S18	<b>()</b> ,								vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Water Diversions
											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
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_071	WASHINGTON CREEK, headwaters to	4A	5.84	MILES	B-1	N	F	х	Х	Flow Regime Modification	Dredge Mining
		Cow Gulch									Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
											Sedimentation/Siltation	Placer Mining
												Source Unknown
Nevada Creek	MT76F003_072	WASHINGTON CREEK, Cow Gulch to	4A	4.44	MILES	B-1	N	F	х	Х	Flow Regime Modification	Agriculture
		mouth (Nevada Creek)									Iron	Highway/Road/Bridge Runoff (Non-construction
											Sedimentation/Siltation	Related) Impacts from Abandoned Mine Lands (Inactive)
												Source Unknown
												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	Crop Production (Irrigated)

**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: 17010203 Blackfoot Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial 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	Rangeland Grazing
											Flow Regime Modification	Source Unknown
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Water Diversions
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
											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	Crop Production (Irrigated)
		mouth (Nevada-Cottonwood Creeks)									Arsenic	Grazing in Riparian or Shoreline Zones
											Flow Regime Modification	Loss of Riparian Habitat
											Iron	Rangeland Grazing
											Nitrogen, Total	Source Unknown
											Phosphorus, Total	Water Diversions
											Sedimentation/Siltation	
											Temperature	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_090	COTTONWOOD CREEK, South Fork	4A	6.77	MILES	B-1	N	F	х	Х	Flow Regime Modification	Agriculture
		Cottonwood Creek to mouth (Douglas Creek)									Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	Rangeland Grazing
												Silviculture Activities
												Source Unknown
												Water Diversions
Nevada Creek	MT76F003_100	NEVADA SPRING CREEK, headwaters	s to 4A	5.78	MILES	B-1	N	F	х	Х	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 moutl (Douglas Creek), T12N R12W S6	h 4A	8.83	MILES	B-1	N	F	N	N	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)

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

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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y 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	Arsenic	Grazing in Riparian or Shoreline Zones
		(Douglas Creek), T12N R12W S6									Chlorophyll-a	Potash Mining
											Flow Regime Modification	Rangeland Grazing
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Activities
											Nitrogen, Total	Source Unknown
											Phosphorus, Total	Streambank Modifications/destabilization
											Sedimentation/Siltation	Water Diversions
											Temperature	
											Total Kjehldahl Nitrogen (TKN)	
Nevada Creek	MT76F003_130	BUFFALO GULCH, headwaters to mout	h 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	Crop Production (Irrigated)
		(Blackfoot River), T14N R12W S28									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Hydrostructure Impacts on Fish Passage
											Phosphorus, Total	Water Diversions
											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	th 4A	1.94	MILES	B-1	N	F	F	N	Alteration in stream-side or littoral	Agriculture
		(Blackfoot River)									vegetative covers Chlorophyll-a	Crop Production (Irrigated)
											Flow Regime Modification	Dam or Impoundment
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing
											Nitrogen, Total	
											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



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class			ial U		Cause Name *	Source Name *
Middle Blackfoot	MT76F004_060	WARD CREEK, headwaters to Browns Lake	4A	10.38	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Silviculture Activities  Unspecified Unpaved Road or Trail
Middle Blackfoot	MT76F004_070	WARREN CREEK, headwaters to mout (Blackfoot River)	h 4A	14.7	MILES	B-1	N	F	F	Х	Fish Passage Barrier Flow Regime Modification Sedimentation/Siltation	Agriculture Channelization Crop Production (Irrigated) Source Unknown
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 Flow Regime Modification Nitrogen, Total	Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones  Rangeland Grazing
Middle Blackfoot	MT76F004_090	ROCK CREEK, headwaters to mouth (North Fork Blackfoot River)	4A	11.61	MILES	B-1	N	F	X	F	Phosphorus, Total Sedimentation/Siltation  Alteration in stream-side or littoral vegetative covers Flow Regime Modification Sedimentation/Siltation	Crop Production (Irrigated)  Grazing in Riparian or Shoreline Zones  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 t mouth (Rock Creek)	o 4A	4.67	MILES	B-1	N	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Sedimentation/Siltation Temperature	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Managed Pasture Grazing 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) Silviculture Harvesting



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			cial L DW		Cause Name *	Source Name *
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	
Middle Blackfoot	MT76F005_060	BLANCHARD CREEK, North Fork to	4A	2.36	MILES	B-1	N	F	F	Х	Alteration in stream-side or littoral	Agriculture
		mouth (Clearwater River)									vegetative covers Flow Regime Modification	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Water Diversions
Lower Blackfoot	MT76F006_010	UNION CREEK, headwaters to mouth	4A	21.57	MILES	B-1	N	х	F	N	Nitrogen, Total	Livestock (Grazing or Feeding Operations)
		(Blackfoot River)									Phosphorus, Total	Natural Sources
											Physical substrate habitat alterations	On-site Treatment Systems (Septic Systems and
											Sediment	Similar Decentralized Systems) Rangeland Grazing
											Temperature	Streambank Modifications/destabilization
												Water Diversions
Lower Blackfoot	MT76F006_020	WEST FORK ASHBY CREEK,	4A	3.1	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		headwaters to mouth (Ashby Creek)									vegetative covers Phosphorus, Total	Livestock (Grazing or Feeding Operations)
											Sedimentation/Siltation	Natural Sources
												Silviculture Activities
Lower Blackfoot	MT76F006_031	ELK CREEK, headwaters to Stinkwater	4A	8.5	MILES	B-1	N	Х	F	N	Nitrogen, Nitrate	Forest Roads (Road Construction and Use)
		Creek									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	h 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	

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TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Lower Blackfoot	MT76F006_040	KENO CREEK, headwaters to mouth (ECreek)	Elk 4A	2.87	MILES	B-1	N	F	X	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Lower Blackfoot	MT76F006_050	EAST FORK ASHBY CREEK, headwat to mouth (Ashby Creek)	ers 4A	3.9	MILES	B-1	N	х	х	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) 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	Flow Regime Modification	Crop Production (Irrigated)
		mouth (Union Creek)									Nitrogen, Total	Grazing in Riparian or Shoreline Zones
											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 (Blackfoot River)	ith 4A	10.6	MILES	B-1	N	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use)  Grazing in Riparian or Shoreline Zones
Lower Blackfoot	MT76F006_090	WASHOE CREEK, Headwater to mouth	n 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
											Phosphorus, Total	Similar Decentralized Systems) 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	Dissolved Oxygen	Source Unknown
											Nitrogen, Total	Upstream Source
											Phosphorus, Total	
											Sedimentation/Siltation	
											Total Kjehldahl Nitrogen (TKN)	



HUC: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class			ial U 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	k 4A	52.6	MILES	B-1	N	F	F	N	Chlorophyll-a	Industrial Point Source Discharge
		to Fish Creek									Copper	Mill Tailings
											Iron	Municipal Point Source Discharges
											Lead	
											Nitrogen, Total	
											Organic Enrichment	
											Phosphorus, Total	
Clark Fork River	MT76M001_030	CLARK FORK RIVER, Blackfoot River to	o 4A	6.2	MILES	B-1	N	F	N	Χ	Arsenic	Dam or Impoundment
		Rattlesnake Creek									Cadmium	Industrial Point Source Discharge
											Copper	Mill Tailings
											Eutrophication	
											Iron	
											Lead	
											Zinc	
Middle Clark Fork Tributaries	MT76M002_010	TAMARACK CREEK, headwaters to mouth (Clark Fork River)	4C	9.47	MILES	B-1	N	Х	Х	Χ	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	1	Flow Regime Modification	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)
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	Agriculture

**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: 17010204 Middle Clark Fork Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class			cial U 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	Flow Regime Modification	Highways, Roads, Bridges, Infrastructure (New Construction)
											Sedimentation/Siltation	
											Temperature	
Middle Clark Fork	MT76M002_100	WEST FORK PETTY CREEK,	4A	7.64	MILES	B-1	N	F	F	N	Chlorophyll-a	Forest Roads (Road Construction and Use)
Tributaries		headwaters to mouth (Petty Creek)									Phosphorus, Total	Silviculture Harvesting
											Sedimentation/Siltation	
Middle Clark Fork Tributaries	MT76M002_122	RATTLESNAKE CREEK, Rattlesnake Wilderness boundary to Rattlesnake Da	4C m	15.32	MILES	A- CLOSE D	N	F	F	Х	Flow Regime Modification	Dam Construction (Other than Upstream Flood Control Projects) Water Diversions
Middle Clark Fork	MT76M002_130	GRANT CREEK, Rattlesnake Wildernes	s 4A	14.54	MILES	B-1	N	F	F	N	Algae	Crop Production (Irrigated)
Tributaries		boundary to mouth (Clark Fork River)									Alteration in stream-side or littoral	Loss of Riparian Habitat
											vegetative covers Flow Regime Modification	Site Clearance (Land Development or Redevelopment)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Streambank Modifications/destabilization
											Nitrogen, Total	Water Diversions
											Sedimentation/Siltation	
											Temperature	
Middle Clark Fork	MT76M002_140	MILL CREEK, headwaters to mouth (Cla	ark 4C	13.67	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Agriculture
Tributaries		Fork River near Frenchtown)									vegetative covers	Golf Courses
												Grazing in Riparian or Shoreline Zones
Middle Clark Fork	MT76M002_150	SIXMILE CREEK, headwaters to mouth	4C	10.36	MILES	B-1	N	Х	Х	Х	Alteration in stream-side or littoral	Rangeland Grazing
Tributaries		(Clark Fork River)									vegetative covers	Silviculture Activities
Middle Clark Fork	MT76M002_160	NEMOTE CREEK, headwaters to mouth	n 4A	10.38	MILES	B-1	N	F	F	N	Chlorophyll-a	Dredge Mining
Tributaries		(confluence Clark Fork River)									Flow Regime Modification	Source Unknown
											Nitrogen, Total	Water Diversions
											Phosphorus, Total	
											Temperature	
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	Grazing in Riparian or Shoreline Zones

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

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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 U DW		Cause Name *	Source Name *
Middle Clark Fork Tributaries	MT76M002_170	DRY CREEK, headwaters to mouth (Cla Fork River)	ark 4A	15.86	MILES	B-1	N	F	F	N	Flow Regime Modification	Natural Sources
· · · · · · · · · · · · · · · · · · ·		. 6.11.11.6.)									Nitrogen, Total	Source Unknown
												Water Diversions
Middle Clark Fork	MT76M002_180	FLAT CREEK, headwaters to mouth	4A	8.02	MILES	B-1	N	Х	N	Х	Antimony	Impacts from Abandoned Mine Lands (Inactive)
Tributaries		(Clark Fork)									Arsenic	Unspecified Unpaved Road or Trail
											Cadmium	
											Lead	
											Mercury	
											Physical substrate habitat alterations	
											Sedimentation/Siltation	
											Zinc	
Middle Clark Fork	MT76M002_200	HALL GULCH, headwaters to mouth (FI	at 4A	2	MILES	B-1	N	Х	N	Х	Antimony	Impacts from Abandoned Mine Lands (Inactive)
Tributaries		Creek)									Arsenic	
											Iron	
											Lead	
											Zinc	
St. Regis	MT76M003_010	ST. REGIS RIVER, headwaters to mout	h 4A	40.3	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Channelization
		(Clark Fork River)									vegetative covers Flow Regime Modification	Highway/Road/Bridge Runoff (Non-construction
											Sedimentation/Siltation	Related) Highways, Roads, Bridges, Infrastructure (New
											Temperature	Construction) Loss of Riparian Habitat
												Streambank Modifications/destabilization
St. Regis	MT76M003_020	TWELVE MILE CREEK, headwaters to	4A	13.98	MILES	B-1	N	F	F	F	Physical substrate habitat alterations	Channelization
		mouth (St. Regis River)									Sedimentation/Siltation	Forest Roads (Road Construction and Use)
											Temperature	Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastructure (New Construction) Loss of Riparian Habitat Silviculture Activities



**HUC:** 17010204 Middle Clark Fork **Watershed:** Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	y Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
St. Regis	MT76M003_030	SILVER CREEK, headwaters to mouth (St. Regis River)	4C	4.96	MILES	A-1	N	F	F	F	Flow Regime Modification	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
		mouth (St. Regis River)									Temperature	Loss of Riparian Habitat
												Streambank Modifications/destabilization
St. Regis	MT76M003_070	LITTLE JOE CREEK, North Fork to mou (St. Regis River)	th 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	Flow Regime Modification	Impacts from Abandoned Mine Lands (Inactive)
		(Clark Fork River)									Sedimentation/Siltation	Streambank Modifications/destabilization
												Water Diversions
Ninemile	MT76M004_020	STONY CREEK, headwaters to mouth (Ninemile Creek)	4A	7.07	MILES	B-1	N	F	F	N	Phosphorus, Total	Agriculture
		(Millertille Creek)									Sedimentation/Siltation	Crop Production (Irrigated)
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	4A	5.99	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Forest Roads (Road Construction and Use)
		mouth (Ninemile Creek)									vegetative covers Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification
											Sedimentation/Siltation	Placer Mining
Ninemile	MT76M004_060	CEDAR CREEK, headwaters to mouth (Ninemile Creek)	4A	4.52	MILES	B-1	N	F	F	ı	Alteration in stream-side or littoral vegetative covers	Agriculture
		(Milenine Oreck)									Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Natural Sources
												Water Diversions
Ninemile	MT76M004_070	KENNEDY CREEK, headwaters to mou (Ninemile Creek)	th 4A	5.64	MILES	B-1	N	N	N	Χ	Alteration in stream-side or littoral vegetative covers	Crop Production (Irrigated)
		(									Copper	Mine Tailings

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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 *
Ninemile	MT76M004_070	KENNEDY CREEK, headwaters to mou	th 4A	5.64	MILES	B-1	N	N	N	Х	Flow Regime Modification	Placer Mining
	(Ninemile Creek)									Lead	Subsurface (Hardrock) Mining	
											Mercury	Surface Mining
											Sedimentation/Siltation	
											Zinc	
Ninemile	MT76M004_080	LITTLE MCCORMICK CREEK, headwaters to mouth (McCormick Creek	4A k)	3.54	MILES	B-1	N	I	F	I	Fish Passage Barrier Flow Regime Modification	Placer Mining
											Physical substrate habitat alterations	
											Sedimentation/Siltation	



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		enefic L Ag			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	X	Flow Regime Modification Temperature	Agriculture  Crop Production (Irrigated)  Wet Weather Discharges (Non-Point Source)
Bitterroot	MT76H001_030	BITTERROOT RIVER, Eightmile Creek mouth (Clark Fork River)	to 4A	23.6	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Lead Temperature	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 to	30.77	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	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 35	5.74	MILES	B-1	N	Х	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	h 4A	2.29	MILES	B-1	N	Х	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	Х	F	Physical substrate habitat alterations Sedimentation/Siltation Temperature	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	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	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	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	Flow Regime Modification Nitrogen, Total Phosphorus, Total Sedimentation/Siltation	Agriculture Crop Production (Irrigated) Dam or Impoundment Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Natural Sources Water Diversions
Bitterroot	MT76H004_020	KOOTENAI CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitterroot River)	4C ot	5.63	MILES	B-1	N	F	Х	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	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	N	F	Х	Х	Flow Regime Modification	Agriculture
Bitterroot	MT76H004_032	NORTH CHANNEL BEAR CREEK, headwater to the mouth (Fred Burr Creek), T8N R20W S32	4C	4.38	MILES	B-1	N	F	Х	Х	Flow Regime Modification	Agriculture
Bitterroot	MT76H004_040	MILL CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Free Burr Creek), T7N R20W S19	4A I	8.72	MILES	B-1	N	X	Х	X	Alteration in stream-side or littoral vegetative covers Flow Regime Modification	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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TMDL Planning Area	ID305B	Waterbody Name/Location	Categor	y Size	Units	Use Class		enefic L 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	X	Temperature	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	Х	Flow Regime Modification	Agriculture
Bitterroot	MT76H004_070	LOST HORSE CREEK, headwaters to mouth (Bitterroot River)	4C	20.61	MILES	B-1	N	F	Х	Х	Flow Regime Modification	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	Crop Production (Irrigated)
		Wilderness boundary to mouth (Bitteroot River)									vegetative covers	Loss of Riparian Habitat
Bitterroot	MT76H004_090	SLEEPING CHILD CREEK, headwaters	4A	24.93	MILES	B-1	N	F	Х	F	Sedimentation/Siltation	Agriculture
		to mouth (Bitterroot River)									Temperature	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	Flow Regime Modification	Crop Production (Irrigated)
Bitterroot	MT76H004_110	WILLOW CREEK, headwaters to mouth	4A	17.16	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Irrigated)
		(Bitterroot River)									vegetative covers Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	Silviculture Activities
												Water Diversions
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	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	Flow Regime Modification	Agriculture



TMDL Planning Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class		nefic - Ag			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)	Crop Production (Irrigated)
		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	Nitrogen, Total	Crop Production (Irrigated)
		confluence with South Burnt Fork Creek Mouth (Bitterroot River)	to								Phosphorus, Total	Grazing in Riparian or Shoreline Zones
											Sediment	
Bitterroot	MT76H004_210	SWEATHOUSE CREEK, Selway- Bitterroot Wilderness boundary to mouth (Bitterroot River)	<b>4</b> A	7.7	MILES	B-1	N	x	X	N	Alteration in stream-side or littoral vegetative covers Flow Regime Modification Phosphorus, Total	Agriculture  Loss of Riparian Habitat  Site Clearance (Land Development or Redevelopment)



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viculture Activities
rest Roads (Road Construction and Use)
ghway/Road/Bridge Runoff (Non-construction lated)
eambank Modifications/destabilization
rest Roads (Road Construction and Use)
viculture Harvesting
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TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Upper Lolo	MT76H005_060	LOST PARK CREEK, headwaters to mouth (Confluence with East Fork Lolo Creek)	4A	5.08	MILES	B-1	N	Х	Х	Х	Sedimentation/Siltation	
Upper Lolo	MT76H005_070	LEE CREEK, headwaters to mouth (We- Fork Lolo Creek)	est 4A	3.8	MILES	B-1	N	F	Х	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) 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	X	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	rk 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	X	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	n 4A	15.64	MILES	B-1	N	F	Х	N	Alteration in stream-side or littoral vegetative covers	Channelization
		Zano									Chlorophyll-a	Crop Production (Crop Land or Dry Land)
											Dissolved Oxygen	Grazing in Riparian or Shoreline Zones
											Nitrogen, Total	Loss of Riparian Habitat
											Sedimentation/Siltation	Source Unknown
											Temperature	
Flathead - Stillwater	MT76O002_020	ASHLEY CREEK, Smith Lake to Kalisp Airport Road	ell 4A	14.17	MILES	B-2	N	F	Х	N	Flow Regime Modification	Agriculture
		Allport Noad									Nitrogen, Total	Crop Production (Crop Land or Dry Land)
											Phosphorus, Total	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	Loss of Riparian Habitat
											Temperature	
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	Channelization
		mouti (i latileau Nivel)									Chlorophyll-a	Crop Production (Irrigated)
											Dissolved Oxygen	Discharges from Municipal Separate Storm Sewer Systems (MS4)
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Loss of Riparian Habitat
											Nitrogen, Total	Municipal Point Source Discharges
											Phosphorus, Total	Upstream Source
											Sedimentation/Siltation	
											Temperature	
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
											Dissolved Oxygen	Channelization
											Flow Regime Modification	Loss of Riparian Habitat
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
											Nitrogen, Total	Water Diversions
											Phosphorus, Total	
											Physical substrate habitat alterations	
											•	



HUC: 17010208 Flathead Lake Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . 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	Dam or Impoundment
											Phosphorus, Total	Impacts from Hydrostructure Flow
											Polychlorinated Biphenyls (PCBs)	Regulation/modification  Municipal Point Source Discharges
												Silviculture Harvesting
												Source Unknown
												Unspecified Urban Stormwater
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	Ben AqL	nefic Ag	ial U DW	se Rec	Cause Name *	Source Name *
Flathead Headwaters	MT76J001_010	SOUTH FORK FLATHEAD RIVER, Hungry Horse Dam to mouth	4C	5.31	MILES	B-1	N	F	Х	x	Flow Regime Modification	Impacts from Hydrostructure Flow Regulation/modification



HUC: 17010210 Stillwater 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 *
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	Х	F	Flow Regime Modification	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	N	х	Х	Х	Flow Regime Modification	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)									Polychlorinated Biphenyls (PCBs)	Industrial Point Source Discharge
											Temperature	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	Ν	Х	Х	Х	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 (PCBs)	



**HUC:** 17010211 Swan Watershed: Pend Oreille

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class		nefic . Ag			Cause Name *	Source Name *
Swan	MT76K002_010	SWAN LAKE	4A	3273.6	ACRES	A-1	Т	F	F	F	Nitrogen, Total	Forest Roads (Road Construction and Use)
											Phosphorus, Total	Highways, Roads, Bridges, Infrastructure (New
											Sediment Oxygen Demand	Construction)
											Sedimentation/Siltation	
Swan	MT76K003_031	GOAT CREEK, headwaters to Squeeze Creek	er 4A	9.71	MILES	B-1	N	F	X	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	Categor	y Size	Units	Use Class			cial L DW	Jse Rec	Cause Name *	Source Name *
Lower Flathead	MT76L001_010	FLATHEAD RIVER, Flathead Reservat	ion 5	4.24	MILES	B-1	N	F	F	F	Alteration in stream-side or littoral	Crop Production (Irrigated)
		boundary to mouth (Clark Fork River)									vegetative covers Flow Regime Modification	Dam or Impoundment
											Nitrate/Nitrite (Nitrite + Nitrate as N)	Impacts from Hydrostructure Flow Regulation/modification
											Nitrogen, Total	Natural Sources
											Phosphorus, Total	
											Sedimentation/Siltation	
											Temperature	
Lower Flathead	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbard	4A	5.2	MILES	B-2	N	Х	Х	N	Chlorophyll-a	Dam or Impoundment
		Reservoir to Flathead Reservation Boundary									Flow Regime Modification	Upstream Source
											Nitrate/Nitrite (Nitrite + Nitrate as N)	
											Nitrogen, Total	
											Phosphorus, Total	
											Sedimentation/Siltation	
Lower Flathead	MT76L002_070	SULLIVAN CREEK, headwaters to	4A	3.9	MILES	B-1	N	Х	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 Area	ID305B	Waterbody Name/Location	Category	/ Size	Units	Use Class			ial L DW		Cause Name *	Source Name *
Clark Fork River	MT76N001_010	CLARK FORK RIVER, Flathead River to Thompson Falls Reservoir	5	36.3	MILES	B-1	N	F	F	F	Dissolved Gas Supersaturation	Dam or Impoundment
											Fish Passage Barrier	Hydrostructure Impacts on Fish Passage
Clark Fork River	MT76N001_020	CLARK FORK RIVER, Noxon Dam to Noxon Bridge	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
											Flow Regime Modification	
											Temperature	
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
Tributaries		(Clark Fork River)									Flow Regime Modification	Crop Production (Irrigated)
											Nitrogen, Total	Forest Roads (Road Construction and Use)
											Phosphorus, Total	Grazing in Riparian or Shoreline Zones
											Sedimentation/Siltation	
											Temperature	
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	Loss of Riparian Habitat
											Lead	Mine Tailings
											Sedimentation/Siltation	Silviculture Activities
											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	MT76N003_030	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

**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

<sup>\*</sup>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		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	Х	x	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones  Highway/Road/Bridge Runoff (Non-construction Related)
Lower Clark Fork Tributaries	MT76N003_090	MARTEN CREEK, headwaters to mouth (Noxon Reservoir)	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)	n 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	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 more (Noxon Reservoir)	uth 4C	22.84	MILES	B-1	N	F	X	Х	Alteration in stream-side or littoral vegetative covers	Placer Mining Silviculture Activities

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 L DW		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 Tributaries	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N	4A	4.76	MILES	B-1	N	Х	Х	N	Alteration in stream-side or littoral vegetative covers	Channelization
Tributaries		R27W S3	l								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 Flow Regime Modification	Forest Roads (Road Construction and Use)
											Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
												Source Unknown
												Water Diversions
Lower Clark Fork Tributaries	MT76N003_180	DRY CREEK, headwaters to mouth (Bul River), T28N R33W S32	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	Flow Regime Modification	Channelization
		mouth (Thompson River)									Sedimentation/Siltation	Crop Production (Irrigated)
											Temperature	Highway/Road/Bridge Runoff (Non-construction Related) Hydrostructure Impacts on Fish Passage
												Impacts from Hydrostructure Flow Regulation/modification
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 R25V 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	X	Х	N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones



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 *
Thompson	MT76N005_060	LAZIER CREEK, headwaters to mouth	4A	7.79	MILES	B-1	N	Х	Х	N	Nitrate/Nitrite (Nitrite + Nitrate as N)	Livestock (Grazing or Feeding Operations)
		(Thompson River)									Nitrogen, Total	Silviculture Activities
											Phosphorus, Total	
											Sedimentation/Siltation	
Thompson	MT76N005_070	MCGINNIS CREEK, headwaters to mo	ith 4A	5.12	MILES	B-1	N	Х	Х	F	Fish Passage Barrier	Forest Roads (Road Construction and Use)
		(Little Thompson River)									Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
										Habitat M	Habitat Modification - other than Hydromodification	
												Silviculture Harvesting
												Source Unknown