



**Montana 2010**

# **Final Water Quality Integrated Report**



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**TABLE OF CONTENTS**

Acronyms ..... vii

1.0 Introduction..... 1-1

2.0 Background Information..... 2-1

    2.1 State Overview..... 2-1

    2.2 Description of Surface Waters ..... 2-1

        2.2.1 Assessment Unit Mapping..... 2-2

        2.2.2 Streams..... 2-3

        2.2.3 Lakes ..... 2-3

        2.2.4 Waters within State Jurisdiction and Management..... 2-4

3.0 Water Pollution Control Programs..... 3-1

    3.1 Water Quality Standards..... 3-1

        3.1.1 Montana Water Classification System..... 3-1

        3.1.2 Reference Condition ..... 3-5

    3.2 Total Maximum Daily Load Program (TMDL)..... 3-6

        3.2.1 Definition and Regulatory Requirements ..... 3-6

        3.2.2 Program Overview..... 3-7

        3.2.3 TMDL Prioritization Process..... 3-7

4.0 Surface Water Monitoring and Assessment..... 4-1

    4.1 Monitoring and Assessment Program..... 4-1

        4.1.1 Program Purpose..... 4-1

        4.1.2 Coordination and Collaboration..... 4-1

        4.1.3 Monitoring Networks and Projects ..... 4-3

    4.2 Assessment Methodology ..... 4-6

        4.2.1 Overview..... 4-6

        4.2.2 Data Quality Assessment..... 4-6

        4.2.3 Beneficial-Use Support..... 4-7

        4.2.4 Waterbody Assessment Records in WARD Data System..... 4-7

        4.2.5 Quality Assurance and Quality Control Program ..... 4-8

    4.3 Assessment Results..... 4-9

        4.3.1 Water Quality Reporting Categories..... 4-9

        4.3.2 Statewide Summary of Water Quality Assessments..... 4-11

        4.3.3 Designated Use-Support Summaries ..... 4-12

        4.3.4 CWA Section 314 (Clean Lakes Program)..... 4-15

    4.4 Wetlands Program..... 4-16

        4.4.1 Montana Wetlands Program Overview..... 4-16

        4.4.2 Monitoring and Assessment..... 4-17

        4.4.3 Restoration and Partnerships..... 4-17

    4.5 Public Health Issues..... 4-18

        4.5.1 Spill Reports..... 4-18

        4.5.2 Fish Kills..... 4-18

        4.5.3 Fish Consumption Advisories..... 4-19

5.0 Assessment Data Control Activities ..... 5-1

    5.1 Data Management Activities in the Assessment Database (ADB)..... 5-1

        5.1.1 Assessment Unit Changes..... 5-1

5.1.2 Assessment Unit Metadata and Data Entry Error Correction ..... 5-3  
5.1.3 Changes to AU Beneficial Use and TMDL Planning Area Assignment ..... 5-5  
5.1.4 Changes to Causes and Sources Associated with Assessment Units ..... 5-9  
5.1.5 Approved TMDLs ..... 5-12  
6.0 Public Participation ..... 6-1  
6.1 Public Consultation for 2010 303(d) List Development ..... 6-1  
6.2 Public Comment for the 2010 Integrated Report ..... 6-1  
6.3 DEQ Responses to Public Comments ..... 6-3  
6.4 Report Changes Made Prior to Final Report ..... 6-18  
6.4.1 Data Edits in Response to Public Comments ..... 6-18  
6.4.2 Data Edits Made in Response to DEQ QC Activities ..... 6-18  
7.0 Glossary ..... 7-1  
8.0 References ..... 8-1

**LIST OF TABLES**

Table 2-1. Montana Surface Waters based on High Resolution (1:24,000) NHD ..... 2-3

Table 2-2. Montana Surface Waters based on Medium Resolution (1:100,000) NHD ..... 2-3

Table 2-3. State Waters Exclusive of Tribal Lands, National Parks, and Wilderness Areas based on High Resolution (1:24,000) NHD..... 2-4

Table 2-4. State Waters Exclusive of Tribal Lands, National Parks, and Wilderness Areas based on Medium Resolution (1:100,000) NHD ..... 2-4

Table 3-1. Montana Surface Water Classifications..... 3-3

Table 3-2. Designated Beneficial Uses by Waterbody Class..... 3-4

Table 3-3. Montana Surface Waters with Unique Use Classifications ..... 3-4

Table 3-4. Montana Groundwater Classifications..... 3-5

Table 4-1. Size and Count of Assessment Units Assigned to Reporting Categories ..... 4-10

Table 4-2. Category 2B Assessment Units..... 4-10

Table 4-3. 2008 Category 2B Assessment Units and Causes Delisted in 2010 ..... 4-11

Table 4-4. Top 10 Causes of Impairment – All Assessment Units ..... 4-11

Table 4-5. Top 10 Confirmed Sources of Impairment – All Assessment Units ..... 4-12

Table 4-6. Beneficial Use-Support Summary – Rivers and Streams ONLY ..... 4-13

Table 4-7. Top 10 Causes of Impairment – Rivers and Streams ONLY..... 4-13

Table 4-8. Top 10 Confirmed Sources of Impairment – Rivers and Streams ONLY ..... 4-14

Table 4-9. Beneficial Use-Support Summary - Lakes and Reservoirs ONLY ..... 4-14

Table 4-10. Top 10 Causes of Impairment – Lakes and Reservoirs ONLY ..... 4-15

Table 4-11. Confirmed Sources of Impairment – Lakes and Reservoirs ONLY ..... 4-15

Table 4-12. Trophic Status of Lakes and Reservoirs ..... 4-16

Table 4-13. Water Quality Trends for Lakes and Reservoirs..... 4-16

Table 4-14. Montana Waters with Fish Consumption Advisories in 2007 ..... 4-19

Table 5-1. Assessment Unit Changes During the 2010 Reporting Cycle ..... 5-1

Table 5-2. General Data Quality Control and Corrections for 2010 Cycle in the Assessment Database (ADB)..... 5-3

Table 5-3. Beneficial Use and TPA Assignment Changes..... 5-5

Table 5-4. Changes to Causes and Sources Associated with Assessment Units..... 5-10

Table 5-5. TMDLs Approved Prior to the 2008 Reporting Cycle Corrected During the 2010 Reporting Cycle ..... 5-12

Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle ..... 5-12

Table 6.1. List of Comments..... 6-2

**LIST OF FIGURES**

Figure 2-1. Montana's Sub-Major Basins and DEQ Administrative Basins ..... 2-2



## **APPENDICES**

- Appendix A – Impaired Waters
- Appendix B – Waters in Need of TMDL
- Appendix C – Waters with Use Support Assessments
- Appendix D – Impairment Causes De-Listed
- Appendix E – Beneficial Use Support Changes
- Appendix F – Approved TMDLs
- Appendix G – Monitoring and Assessment Schedule



**ACRONYMS**

ADB	Assessment Database
ARM	Administrative Rules of Montana
AU	Assessment Unit
BLM	Bureau of Land Management
BMP	Best Management Practice
BPJ	Best Professional Judgment
CERCA	Comprehensive Environmental Cleanup and Responsibility Act
CFL	Cycle First Listed
CFR	Code of Federal Regulations
CW	Coldwater (fisheries)
CWA	Clean Water Act
CWAIC	Clean Water Act Information Center
DEQ	Department of Environmental Quality
DEQ-7	Circular DEQ-7, Montana Water Quality Standards
DQA	Data Quality Assessment
EA	Environmental Assessment
EC	Electrical Conductivity
EIS	Environmental Impact Statement
EMAP	Environmental Monitoring and Assessment Program
EPA	U.S. Environmental Protection Agency
FWP	Montana Department of Fish, Wildlife, and Parks
FY	Fiscal Year
GIS	Geographic Information System
HUC	Hydrologic Unit Code
ILF	In-Lieu-Fee
IR	Integrated Report
MCA	Montana Code Annotated
MWQA	Montana Water Quality Act
MTNHP	Montana Natural Heritage Program
NHD	National Hydrography Dataset
NPDES	National Pollution Discharge Elimination System
NPS	Non-Point Source Pollution
NWIS	National Water Information System
PCBs	Polychlorinated bi-phenyls
PWS	Public Water Supply
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QMP	Quality Management Plan
SAR	Sodium Absorption Ratio

SCD	Sufficient Credible Data
SOP	Standard Operating Procedure
STAG	State TMDL Advisory Group
TKN	Total Kjehldahl Nitrogen
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
TPA	TMDL Planning Area
TSS	Total suspended solids
UM	University of Montana
USACE	United States Army Corps of Engineers
USFS	United States Forest Service
USGS	United States Geological Survey
WARD	Water Quality Assessment, Reporting, and Documentation
WMS	Watershed Management Section (DEQ)
WPCAC	Water Pollution Control Advisory Council
WMAS	Water Quality Monitoring and Assessment Section (DEQ)
WQPB	Water Quality Planning Bureau (DEQ)
WQRP	Water Quality Restoration Plan
WQS	Water Quality Standards
WQSA	Water Quality Standards Attainment
WW	Warmwater (fisheries)

## 1.0 INTRODUCTION

The Montana Department of Environmental Quality (DEQ) is the state agency responsible for implementing delegated components of the federal Water Pollution Control Act (commonly referred to as the Clean Water Act (CWA)) for waters under state jurisdiction. As required under sections 303(d) and 305(b) of the CWA, DEQ conducts or coordinates ongoing water quality assessments and compiles the state-wide report on the status and trends of water quality. To satisfy the requirements of sections 303(d) and 305(b), this report includes:

- A description of Montana’s water resources
- A description of water pollution control programs
- A description of water quality monitoring programs
- A general water quality assessment for Montana’s waters
- Beneficial use support (i.e. standards attainment) decisions for assessed waters
- Watershed planning priorities for waters not meeting standards
- A discussion of public health concerns
- A list of updates to Montana’s water quality assessment database and data management system during this reporting cycle
- A list of waters with completed and approved Total Maximum Daily Loads (TMDLs) allowable to meet water quality standards and support beneficial uses

Report appendices contain listings of the surface waters in Montana that have been assessed and found to have one or more beneficial use that is impaired (**Appendix A**), all required Total Maximum Daily Loads (TMDLs) in need of development, i.e., 303(d) List (**Appendix B**), waterbodies assessed during the 2010 reporting cycle (**Appendix C**), pollutant causes “de-listed” from the 303(d) List (**Appendix D**), changes to beneficial use support (**Appendix E**), EPA-approved TMDLs (**Appendix F**), and the program’s monitoring and assessment schedule for 2010-2012 (**Appendix G**). For a list of terms used throughout this report, refer to the Glossary.



## 2.0 BACKGROUND INFORMATION

DEQ reports on the surface waters by hydrologic basins and uses current geographic information systems (GIS) to facilitate spatial analysis, mapping, and water quality assessments. This section discusses how surface waters are organized for administrative purposes, the types and amount of surface waters (miles or acres), and the total length and area of waters over which the state has jurisdiction or management authority.

### 2.1 State Overview

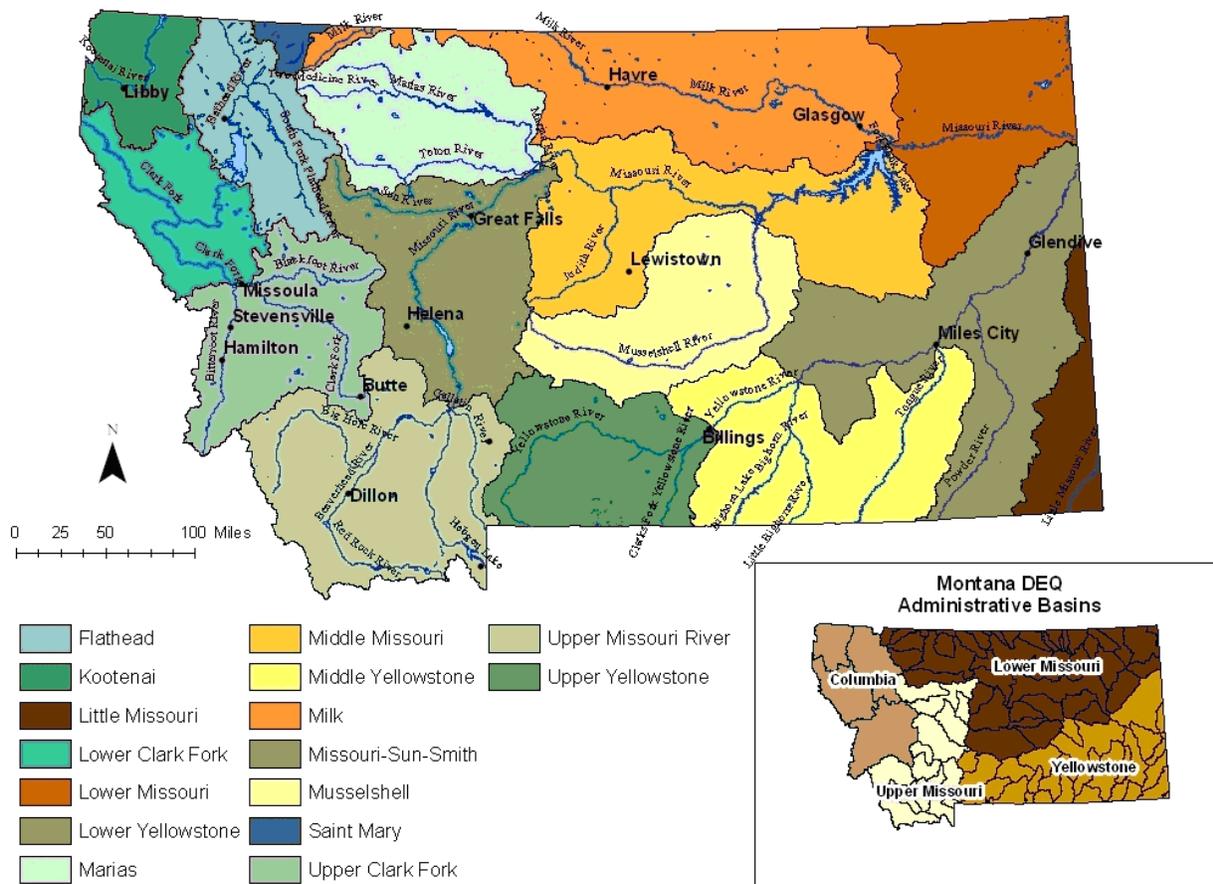
Montana contains headwater streams within three major river basins: the Clark Fork and Flathead rivers in the Columbia basin, the Missouri and Yellowstone rivers in the Mississippi Basin, and the St. Mary River in the Saskatchewan-Nelson basin, Canada. For administrative purposes, DEQ has grouped the state's 16 sub-major basins into four administrative basins (**Figure 2-1**):

- Columbia – all waters west of the continental divide, including the Clark Fork, Flathead, and Kootenai rivers
- Upper Missouri – the Missouri River basin from its headwaters downstream to the confluence with the Marias River
- Lower Missouri – the Missouri River basin from the Marias River confluence to the North Dakota border, including the Marias, Musselshell, and Milk rivers, as well as the Montana headwaters of the St. Mary basin
- Yellowstone – all waters of the Yellowstone River within Montana, including the Little Missouri watershed in southeast Montana

### 2.2 Description of Surface Waters

The stream and lake size estimates used in this report come from the National Hydrography Dataset (NHD). Total length of streams, ditches, and canals are calculated from all linear waters in the NHD. Due to the substantial variation in lake number and size estimates between various NHD dataset editions, the total lake area for the state is based on named waters at least five acres in size (**Tables 2-1** and **2-2**).

Because the NHD was developed primarily using U.S. Geological Survey (USGS) topographical maps produced over many decades, the coverage detail and accuracy varies across the state. The consistency and accuracy of mapping for perennial streams and larger lakes is considered good; thus, their size estimates are reliable. However, due to variability in mapping intermittent and ephemeral streams, their size estimates are less reliable.



**Figure 2-1. Montana's Sub-Major Basins and DEQ Administrative Basins**

### 2.2.1 Assessment Unit Mapping

Previously, the Assessment Unit’s (AU) geographic locations were based on the Medium Resolution (1:100,000) NHD. A new geographic dataset called the High Resolution NHD was built by the USGS and the U.S. Environmental Protection Agency (EPA). The High Resolution NHD is based on a more sophisticated data model. Flow lines in the new High Resolution NHD show greater detail in waterbody channels, capturing more twists, turns and meanders of the streams and canals making the High Resolution NHD more suitable for viewing at a scale of 1:24,000.

In 2010, Montana’s AUs were transitioned to the High Resolution NHD, which had an effect on many attributes of the AUs, most notably their lengths and exact location of their end points. In some cases an AU’s receiving waterbody changed because the High Resolution NHD included small canals and streams that the Medium Resolution NHD did not.

A quality control process was implemented during the transition from Medium Resolution to High Resolution NHD in order to identify errors in waterbody names, locations, end points, and AU assignments. These modifications and corrections are detailed in **Section 5, Tables 5-1 and 5-2.**

As a result of the greater detail, the lengths of most flow lines are slightly longer in the High Resolution NHD than the Medium Resolution NHD. In addition, the High Resolution includes more of the smaller waterbodies that were not included in the Medium Resolution, specifically, more intermittent streams and ditches. The difference in the sum of the two datasets sets is shown in **Tables 2-1** and **2-2**.

**Table 2-1. Montana Surface Waters based on High Resolution (1:24,000) NHD**

RIVER BASINS	Perennial Streams (Miles)	Intermittent & Ephemeral Streams (Miles)	Ditches & Canals (Miles)	Lakes & Reservoirs <sup>1</sup> (Acres)
Columbia	19,413	30,042	1,813	235,441
Upper Missouri	16,541	38,324	4,001	102,561
Lower Missouri	12,622	142,294	3,878	345,242
Yellowstone	11,176	96,746	3,422	30,498
Montana Total	59,752	307,406	13,114	713,742

<sup>1</sup>Named waters  $\geq$  5 acres. Size estimates of all waters derived by DEQ from 1:24,000-scale NHD.

**Table 2-2. Montana Surface Waters based on Medium Resolution (1:100,000) NHD**

RIVER BASINS	Perennial Streams (Miles)	Intermittent & Ephemeral Streams (Miles)	Ditches & Canals (Miles)	Lakes & Reservoirs <sup>1</sup> (Acres)
Columbia	16,997	12,522	1,022	226,986
Upper Missouri	14,603	17,858	2,504	101,613
Lower Missouri	8,872	47,713	1,637	344,163
Yellowstone	9,171	38,972	1,951	22,064
Montana Total	49,643	117,065	7,114	694,826

<sup>1</sup>Named waters  $\geq$  5 acres. Size estimates of all waters derived by DEQ from 1:100,000-scale NHD.

## 2.2.2 Streams

Streams belong to one of three general categories that are defined by their flow characteristics and streambed position relative to the local shallow groundwater table.

Ephemeral streams are always above the local shallow groundwater and flow only in response to snowmelt or rainfall. They are dry most of the year and typically are found in the semi-arid and mountain headwater regions of Montana.

Intermittent streams are below the local shallow groundwater table during part of the year and flow in response to groundwater recharge during snowmelt and precipitation events.

Perennial streams are always below the local shallow groundwater table and typically flow on the surface throughout the year.

## 2.2.3 Lakes

All lakes and reservoirs are part of the state's water resources, but most of the assessments have been focused on significant publicly owned lakes, which have public access and recreation potential. Unfortunately, the NHD does not identify lake ownership. Therefore, in this report, only named perennial lakes  $\geq$  5 acres are considered significant publicly owned lakes.

This subset of the total lake acreage may contain private reservoirs or may exclude some small alpine or pothole lakes on public lands. Until resources are available for a statewide survey on lake ownership, DEQ will identify significant publicly owned lakes for section 305(b) as described above.

## 2.2.4 Waters within State Jurisdiction and Management

Montana's water quality management programs do not have authority over all of the waters described in **Tables 2-1** and **2-2**. EPA or tribal governments are responsible for assessing the condition of all waters located entirely within officially recognized tribal reservations. The exception is Flathead Lake, which is managed jointly by the state and the Flathead Reservation and, therefore, is included in the state waters tables. In addition, waters within national parks and wilderness areas are not subject to state management. Thus, **Tables 2-3** and **2-4** present a clearer picture of the waters that are the primary focus of the Montana water quality management program. Even though they do not manage tribal land waters, DEQ has a direct and vested interest in the quality of all waters in the state.

**Table 2-3. State Waters Exclusive of Tribal Lands, National Parks, and Wilderness Areas based on High Resolution (1:24,000) NHD**

RIVER BASINS	Perennial Streams (Miles)	Intermittent & Ephemeral Streams (Miles)	Ditches & Canals (Miles)	Lakes & Reservoirs <sup>1</sup> (Acres)
Columbia	14,989	23,862	944	204,361
Upper Missouri	15,322	37,453	3,999	102,072
Lower Missouri	10,255	126,543	3,203	318,857
Yellowstone	8,533	84,605	3,171	11,621
Montana Total	49,099	272,463	11,317	636,911

<sup>1</sup>Named waters  $\geq 5$  acres. Size estimates of all waters derived by DEQ from 1:24,000-scale NHD.

**Table 2-4. State Waters Exclusive of Tribal Lands, National Parks, and Wilderness Areas based on Medium Resolution (1:100,000) NHD**

RIVER BASINS	Perennial Streams (Miles)	Intermittent & Ephemeral Streams (Miles)	Ditches & Canals (Miles)	Lakes & Reservoirs <sup>1</sup> (Acres)
Columbia	13,389	977	548	193,449
Upper Missouri	13,686	17,532	2,504	100,185
Lower Missouri	6,973	41,999	1,223	318,904
Yellowstone	6,778	35,342	1,812	26,928
Montana Total	40,826	95,850	6,087	639,466

<sup>1</sup>Named waters  $\geq 5$  acres. Size estimates of all waters derived by DEQ from 1:100,000-scale NHD.

To calculate the total area of waters the state manages, DEQ combined the boundaries of national parks, wilderness areas, and reservations into one set of areas to be excluded. For the best quality, DEQ used 1:24,000-resolution data that represented the actual boundaries of these excluded areas, thus including holdings that were outside of the boundaries identified in the 1:100,000-resolution data.

Because of the resulting greater accuracy of these boundaries, the sum of managed perennial streams and lakes/reservoirs were reduced compared with the Medium Resolution NHD calculations. Even though the High Resolution data showed a total area of waters greater than the Medium Resolution NHD, the reduction occurred because some waters were excluded based upon the new excluded datasets.



## **3.0 WATER POLLUTION CONTROL PROGRAMS**

DEQ is the delegated authority implementing several federal Clean Water Act (CWA) programs in Montana. Collectively, these programs are designed to achieve the CWA's broad goal of maintaining fishable and swimmable waters, i.e., attaining water quality standards. **Section 3** of the 2010 Integrated Report provides only an overview of the status of water quality standards and Total Maximum Daily Load (TMDL) programs.

### **3.1 Water Quality Standards**

States adopt water quality standards to protect public health and welfare, to maintain or improve water quality, and to comply with the CWA. Water quality standards define the quality goals of a waterbody, or portion thereof, by 1) designating the use or uses that the water is expected to support; 2) setting criteria that define the quality necessary to protect the uses; and 3) preventing degradation of water quality through non-degradation provisions.

#### **3.1.1 Montana Water Classification System**

##### **3.1.1.1 Beneficial Uses**

In the 1950s Montana classified its waterbodies according to the present and future beneficial uses they should be capable of supporting (75-5-301 MCA). The State Water-Use Classification System (ARM 17.30.604-629) identifies the following beneficial uses:

- Drinking, culinary, and food processing
- Support for fishes and aquatic life, waterfowl, and furbearers
- Bathing, swimming, recreation, and aesthetics
- Agricultural water supply
- Industrial water supply

###### **3.1.1.1.1 Drinking Water, Culinary, and Food Processing**

Human health criteria address toxins and carcinogens. Criteria for carcinogens, such as arsenic, are set to a specific level of increased cancer risk resulting from lifelong exposure by drinking contaminated water and consuming the fish it supports. For all carcinogens except arsenic, the Montana Legislature has determined the acceptable risk as one case of cancer per 100,000 persons exposed. For arsenic the acceptable risk is one cancer per 1,000 persons exposed (MCA 75-5-301(2)(b)).

###### **3.1.1.1.2 Aquatic Life and Fishes**

Broadly, support of aquatic life means the protection of fish and other aquatic animals and plants normally associated with a healthy ecosystem. Aquatic life can be impaired by chemical pollutants, sediments, temperature changes, riparian habitat degradation, stream channel modifications, excessive water withdrawal, irrigation return flows, and other actions that disrupt the waterbody's naturally occurring hydrological conditions or biological integrity.

The beneficial use for fish is defined as either coldwater (salmonid) or warmwater (non-salmonid). Mountain, foothill, and intermontane streams and lakes typically support coldwater fish, such as trout and associated game and nongame fish. Eastern prairie streams and lakes, and the lower Missouri and Yellowstone rivers, typically support warmwater fish. These waters are naturally warm and have higher suspended sediment and total dissolved solids. They typically support sauger, catfish, and a wide variety of nongame fish.

#### **3.1.1.1.3 Recreation**

Recreation includes primary and secondary contact recreation, i.e., swimming/wading and boating, respectively. Noxious algae growth, or health concerns associated with *E. coli* bacteria, can impair the waterbody's use for swimming.

#### **3.1.1.1.4 Agriculture and Industry**

Generally, if a waterbody supports drinking water, culinary and food processing, recreation, and aquatic life, DEQ assumes it will also support agricultural and industrial uses. However, additional salinity and toxicity information may be required to determine suitability for agricultural use. Specific numeric water quality criteria for electrical conductivity (EC) and sodium adsorption ratio (SAR) have been set to protect irrigated agriculture in the Rosebud Creek, Tongue, Powder, and Little Powder river basins, including their tributaries (ARM 17.30.670).

### **3.1.1.2 Surface Water Classification System**

Montana's surface-water-use classification system bases class assignments primarily on water temperature, fish, and associated aquatic life (**Table 3-1**). Each class has an associated beneficial use (**Table 3-2**). A waterbody supports its beneficial uses when it meets the Water Quality Standards (WQS) established to protect those uses. A waterbody is impaired when any one of its WQS are violated. Determining whether or not a specific use is supported is independent of all other designated uses. For example, a waterbody may partially support aquatic life because of excess nutrients, not support drinking water because of arsenic, but fully support agriculture and industrial uses.

Classes A, B, and C are the three most common. Class I is a temporary category assigned to three streams that were grossly impaired when the system was established. Classes A-Closed and A-1 are considered high quality, the principal beneficial use of which is public water supply. The A-Closed class may invoke watershed protection and use restrictions to protect drinking water.

Classes B and C each have subsections according to whether they support coldwater or warmwater aquatic life. B-1, B-2, C-1, and C-2 support coldwater aquatic life; B-3 and C-3 support warmwater aquatic life. B and C waters have nearly identical use classifications, but B waters specify drinking water as a beneficial use whereas C waters do not.

C-3 streams are suitable for warmwater aquatic life and recreation. Because these streams often contain naturally high total dissolved solids (salinity), their quality is marginal for drinking and agricultural and industrial uses.

In August 2003 Montana added four additional classes: D, E, F, and G. The classes include ephemeral streams (E-1, E-2), ditches (D-1, D-2), seasonal or semi-permanent lakes and ponds (E-3, E-4, E-5), and waters with low or sporadic flow (F-1). G-1 waters must be maintained for watering wildlife and livestock and supporting secondary contact recreation and aquatic life, not including fish. These waters are marginally suitable for irrigation after treatment or with mitigation measures and includes “holding water” from coal bed methane development.

Note: The classification system designated uses for waterbodies as present at the time of classification in 1955. Waterbodies may now have other realized uses that are not officially designated. In such cases, a waterbody may be reclassified to officially recognize these other uses. Conversely, designated uses *cannot* be removed from a waterbody without a formal Use Attainability Analysis and approval under rulemaking by the Montana Board of Environmental Review. To date Montana has not added any waters in these four new classes; rather they are placeholders for future use.

**Table 3-1. Montana Surface Water Classifications**

<b>Classification</b>	<b>Description</b>
A-CLOSED	Suitable for drinking, culinary and food processing purposes after simple disinfection.
A-1	Suitable for drinking, culinary and food processing purposes after conventional treatment for removal of naturally present impurities.
B-1	Suitable for drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; agricultural/industrial water supply.
B-2	Suitable for drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and marginal propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; agricultural/industrial water supply.
B-3	Suitable for drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; agricultural/industrial water supply.
C-1	Suitable for bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; agricultural/industrial water supply.
C-2	Suitable for bathing, swimming and recreation; growth and marginal propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; agricultural/industrial water supply.
C-3	Suitable for bathing, swimming and recreation; growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl, and furbearers. Quality is naturally marginal for drinking, culinary and food processing purposes, agricultural/industrial water supply. Degradation that impacts existing or established uses is prohibited.
I	The goal for these waters is to fully support the following uses: drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and propagation of fishes and associated aquatic life, waterfowl, and furbearers; agricultural/industrial water supply.
D-1	Suitable for agricultural purposes and secondary contact recreation.
D-2	Suitable for agricultural purposes and secondary contact recreation. Because of conditions resulting from flow regulation, maintenance of the ditch, or geomorphological and riparian habitat conditions, quality is marginally suitable for aquatic life.
E-1	Suitable for agricultural purposes, secondary contact recreation, and wildlife.
E-2	Suitable for agricultural purposes, secondary contact recreation, and wildlife. Because of habitat, low flow, hydro-geomorphic, and other physical conditions, waters are marginally suitable for aquatic life.
E-3	Suitable for agricultural purposes, secondary contact recreation, and wildlife.
E-4	Suitable for aquatic life, agricultural purposes, secondary contact recreation, and wildlife.

**Table 3-1. Montana Surface Water Classifications**

Classification	Description
E-5	Suitable for agricultural purposes, secondary contact recreation, saline tolerant aquatic life, and wildlife.
F-1	Suitable for secondary contact recreation, wildlife, and aquatic life, not including fish.
G-1	To be maintained suitable for watering wildlife and livestock, aquatic life not including fish, secondary contact recreation, and marginally suitable for irrigation after treatment or with mitigation measures.

**Table 3-2. Designated Beneficial Uses by Waterbody Class**

Beneficial Uses	Water Use Classification							
	A-Closed	A-1	B-1	B-2	B-3	C-1	C-2	C-3
Aquatic Life	X	X	X	X	X	X	X	X
Fishes (salmonid)	X	X	X	X		X	X	
Fishes (non-salmonid)					X			X
Agriculture	X	X	X	X	X	X	X	M
Industry	X	X	X	X	X	X	X	M
Drinking Water (human health)	X	X	X	X	X			M
Recreation	X	X	X	X	X	X	X	X

X = Beneficial use

M= Marginal Use (may exist)

**3.1.1.2.1 Waters in need of Water Use Classification Review**

DEQ believes that waterbody segments identified in **Table 3-3** need to be reviewed for appropriate classification. When the use-classification system was established in 1955, these waters were so impacted that uses typical of otherwise similar waters were not supported. The state's goal is to improve the quality of these waterbodies so that they fully support all appropriate beneficial uses.

**Table 3-3. Montana Surface Waters with Unique Use Classifications**

Waterbody	Classification
Rainy Creek (mainstem from the W.R. Grace Company water supply intake to the Kootenai River)	C-1
Clark Fork River (from Warm Springs Creek to Cottonwood Creek)	C-2
Clark Fork River (from Cottonwood Creek to the Little Blackfoot River)	C-1
Ashley Creek (mainstem from bridge crossing on Airport Road to the Flathead River)	C-2
Prickly Pear Creek (below East Helena – Upper Missouri Basin)	I
Silver Bow Creek (Upper Clark Fork Basin)	I
Muddy Creek (Sun River Basin)	I

**3.1.1.3 Groundwater Classification System**

Groundwater is classified according to its actual quality and use as of October 1982 and is broken into four classes: I, II, III, and IV (**Table 3-4**).

**Table 3-4. Montana Groundwater Classifications**

Classification	Description
I	Groundwater has a specific conductance less than 1,000 $\mu\text{S}/\text{cm}$ at 77°F (25°C) and is suitable for public and private water supplies, food processing, irrigation, drinking water for livestock and wildlife, and commercial and industrial purposes with little or no treatment required.
II	Groundwater has a specific conductance range of 1,000 to 2,500 $\mu\text{S}/\text{cm}$ at 77°F (25°C). Public and private water supplies may use Class II groundwater where better quality water is not available. The primary uses are irrigation, stock water, and industrial purposes.
III	Groundwater has a specific conductance range of 2,500 to 15,000 $\mu\text{S}/\text{cm}$ at 77°F (25°C). Its primary uses are stock water and industrial purposes. It is marginally suitable for some salt-tolerant crops.
IV	Groundwater has a specific conductance greater than 15,000 $\mu\text{S}/\text{cm}$ at 77°F (25°C). Used primarily for industrial purposes.

### 3.1.2 Reference Condition

DEQ uses what is called a reference condition to compare water quality among a group of waterbodies. Thus, reference sites are relatively undisturbed waterbodies that represent a naturally occurring, or baseline, condition (i.e., the natural biological, physical, and chemical integrity of a region). Reference sites are useful because many of Montana's narrative criteria require water quality to be compared with naturally occurring conditions.

Building from work conducted in the early 1990s (Bahls et al., 1992), DEQ is developing a robust reference site dataset. Field work was re-initiated to locate and sample reference stream sites (in 2000) and lakes (in 2003). In 2004 DEQ began assembling an extensive list of potential stream and lake reference sites and developed a process to consistently evaluate candidate stream reference sites (Suplee et al., 2005). Some pre-established reference sites have already been thoroughly reviewed using similar techniques and, therefore, were not re-evaluated.

Evaluating streams requires quantitative analysis of the watershed and water quality for each site, as well as qualitative assessments of stream health and condition using a set of criteria and best professional judgment (BPJ). Each quantitative analysis or BPJ criterion evaluated some aspect of stream or watershed condition that had the potential to affect water quality and aquatic life. To become a general purpose reference, a site had to pass each applicable screen, which tested for:

- cumulative impacts from multiple causes
- sufficiency of site-specific data
- impacts from land use based on the proportion of agriculture
- high concentrations of heavy metals (i.e., above numeric standards)
- impacts from mines
- road density (coldwater streams only)
- timber harvest intensity (coldwater streams only)

Although the screening process identified a group of reference stream sites, DEQ must still ensure that the sites are sufficiently similar to other sites against which they will be compared. In general, Omernik's (2000) level III ecoregions have proved to be an excellent tool for the initial

partitioning of Montana reference streams. However, in certain cases, more specific geospatial characteristics than those found in level III ecoregions may need to be determined for the reference and comparison sites. Geospatial characteristics will vary according to the parameter of interest. For example, elevation is important when considering aquatic insects (macroinvertebrates), while watershed area is important when considering prairie stream fish populations. Additionally, nutrient concentrations are best explained by level IV (fine-scale) ecoregions. Some water quality parameters and biological assessment metrics can be referenced at a coarse scale (e.g., level III ecoregions), while others cannot.

## **3.2 Total Maximum Daily Load Program (TMDL)**

### **3.2.1 Definition and Regulatory Requirements**

Total Maximum Daily Load (TMDL) is a tool for implementing water quality standards and is based on the relationship between pollutant sources and water quality conditions. The TMDL is a calculation of the maximum amount of pollutant that a waterbody can receive and still meet applicable surface WQS (75-5-103 (32)). It allocates pollutant loadings among all sources (point, nonpoint, and natural background) and is most often expressed as a mass per unit loading of the pollutant, e.g., tons/year of sediment. Both Montana law (MCA 75-5-703) and the federal Clean Water Act require TMDLs for impaired or threatened waterbodies. Montana code defines an impaired waterbody as “a waterbody or stream segment for which sufficient credible data shows that the waterbody or stream segment is failing to achieve compliance with applicable water quality standards” (MCA 75-5-103 (11)). A threatened waterbody is “a waterbody or stream segment for which sufficient credible data and calculated increases in loads show that the waterbody or stream segment is fully supporting its designated uses but threatened for a particular designated use because of (a) proposed sources that are not subject to pollution prevention or control actions required by a discharge permit, the nondegradation provisions, or reasonable land, soil, and water conservation practices; or (b) documented adverse pollution trends” (MCA 75-5-103 (31)).

DEQ submits TMDLs for pollutant-caused impairments to EPA for approval. A Water Quality Restoration Plan (WQRP) that includes TMDLs may also address pollution-caused impairments or threats; however, these pollution-caused impairments are not considered by EPA in their TMDL approval process. Impaired waterbodies are placed in Category 5 of the Integrated Report if impairment includes at least one pollutant, such as a specific metal or nutrient, sediment, or temperature. These Category 5 waters make up the 303(d) list, which details the waterbody/pollutant combinations. By definition, each Category 5 waterbody requires one or more TMDLs. Waterbodies impaired by pollution<sup>1</sup> only, for which a TMDL cannot explicitly be crafted (such as alterations to wetland habitats or substrate alterations), are placed in Category 4C of the Integrated Report.

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<sup>1</sup> On the Assessment Database Cause list, an impairment is considered pollution if the cause cannot be described as a mass/unit load (e.g., lbs/day), bio-assessment-related causes excepted. Conversely, a pollutant can be measured as a mass/unit load.

### 3.2.2 Program Overview

DEQ believes that water quality restoration and protection are best addressed through integrated efforts within a defined geographic area. Thus, DEQ uses a watershed-based approach to develop TMDLs within what are called TMDL Planning Areas (TPAs). TPAs generally follow USGS Hydrologic Unit Code 4th field (HUC4) boundaries. In a few cases TPAs are subsets within an HUC4, while in other cases TPAs include multiple HUC4 units. Additionally, the Clark Fork, Missouri, and Yellowstone rivers each form their own large river TPA.

Within a TPA, TMDLs are developed for waterbodies impaired by a particular pollutant, or set of pollutants. This allows for greater efficiency by addressing impairment causes regardless of when a waterbody is first put on the 303(d) list. This approach, referred to as “list neutral,” also results in a better understanding of impairment causes across the watershed and any contributing sources upon which TMDL allocations will be based. Thus, watershed restoration plans are developed to wholly and expeditiously improve water quality throughout the watershed.

A large percent of Montana waters fall within the pollution category, i.e., Category 4C. Typically, water quality restoration plans include both TMDLs for pollutant-caused impairments and restoration goals and objectives for pollution-caused impairments. This allows DEQ to identify and recommend improvements that address all impairment causes within a watershed.

### 3.2.3 TMDL Prioritization Process

DEQ considers many factors when assessing TMDL priority. Currently, a main factor driving TMDL priority is satisfying the terms of a 2004 settlement agreement and court-ordered planning schedule with milestone dates in December 2007 and 2012. By December 31, 2007, DEQ needed to demonstrate significant progress in developing TMDLs for the Blackfoot Headwaters, Middle Blackfoot, Yaak, Swan, St. Regis, Bitterroot Headwaters, Flathead Headwaters, and Nine Mile TPAs. This requirement was satisfied. By December 31, 2012, more than 750 additional waterbody-pollutant combinations must have TMDLs.

Because a watershed approach (**Section 3.2.2**) provides greater efficiency and better TMDL quality, DEQ uses this approach in a “list-neutral” manner, focusing on TPAs in western Montana while concurrently improving water quality assessment methods for eastern Montana. The list-neutral approach incorporates input from the plaintiffs of the settlement agreement and original court-ordered schedule, and will result in more TMDLs completed through 2012 than initially required per the court order. Additionally, this will create more robust TMDL development, and a better overall water quality program, because DEQ will be able to improve its identification, assessment, and implementation process for water quality protection.

The TMDL development priority status for all waterbody-pollutant combinations on the 303(d) list is reported in **Appendix B**. The highest priority is assigned to waterbody-pollutant combinations with TMDLs scheduled for completion by 2012 using the list-neutral watershed approach. Medium priority is assigned to waterbody-pollutant combinations with pollutants first listed during the 1996 reporting cycle or earlier (i.e., cycle first listed or CFL is less than or equal to 1996), and not scheduled for completion before 2012. Low priority is assigned to waterbody-

pollutant combinations first listed after the 1996 reporting cycle and not scheduled for completion by the end of 2012.

The high priority pollutants identified in **Appendix B** generally are selected on a rotating basis by basin, with a focus on watersheds, or TPAs, within the Upper Clark Fork and Upper Missouri basins. TPA selection was based on a combination of the following factors:

**Stakeholder Interest.** Historically, TMDL development has focused on areas with significant stakeholder interest, which often involve protecting native fish or high quality waters for recreational or economic purposes. It is beneficial to complete TMDLs in areas where stakeholders will use the TMDL and water quality restoration planning process to help guide locally led water quality implementation activities.

**Funding Availability.** Section 319 Nonpoint Source Pollution Program monies from EPA have been a major source of funding for TMDL development; therefore, DEQ has focused on TPAs that used 319 monies to develop TMDLs consistent with DEQ and EPA guidance using subcontractors (e.g., consulting firms). These areas tend to have high stakeholder interest as defined above.

**Significant New Pollutant Sources.** In many areas water quality problems or concerns are linked to significant population growth. Other new pollutant sources can arise from proposed industrial or energy development activities, such as coal bed methane development. Addressing these concerns through a water quality planning process (e.g., TMDL) makes this an important criterion for scheduling TPAs.

**Linkage to Discharge Permits.** Pollutant levels in an area with a National Pollutant Discharge Elimination System permit (NPDES) are included in a portion of the TMDL allocation. Therefore, developing a TMDL on a watershed scale is critical in determining appropriate permit requirements. This is particularly true when new permits are proposed or permits are renewed. This criterion is often linked to New Pollutant Sources above.

**Upstream to Downstream Staging.** River basins are often comprised of several TPA watersheds. It is often desirable to develop TMDLs in upstream watersheds prior to developing TMDLs in downstream watersheds of the same basin river; therefore, TPAs in headwater areas are often scheduled before downstream areas.

**Data Availability & Knowledge about the Water Resources.** Work is often focused in areas where existing knowledge can facilitate TMDL development and data can be readily obtained. Existing knowledge includes available reference data, knowledge of aquatic resource and pollutant impacts, source loading data, and data about existing conditions and capabilities. It also includes knowledge of the relative influences of natural background conditions. These reasons tend to favor TMDL development in western Montana and in waters that support coldwater fish (e.g. trout) versus waters in eastern Montana that support warm water fish.

**Existing Resource Commitments.** TPAs with existing significant efforts toward TMDL development tend to take higher priority over those without.

**Additional Factors.** Additional factors include the number of TMDLs within a watershed, the ability to correct existing problems, the importance of water quality to local economies, and the ability to positively impact native species.

Court directives can potentially affect the above priorities and list-neutral watershed approach. If, for example, the list-neutral watershed approach could not satisfy the goals of the existing court order, then the TMDL priority might need modification for some waterbody-pollutant combinations.



## **4.0 SURFACE WATER MONITORING AND ASSESSMENT**

Under delegated authority to implement Clean Water Act (CWA) programs, DEQ directly monitors the surface waters of the state and works with other agencies and organizations to collect water quality data and observations. DEQ conducts assessments of the state's surface water quality and makes determinations of beneficial-use support. This section includes the status and trends of Montana's surface waters and surface water-related programs.

### **4.1 Monitoring and Assessment Program**

#### **4.1.1 Program Purpose**

DEQ is responsible for:

- Collecting and analyzing physical, chemical, and biological data to ensure that water quality standards are met and reporting this information to the public using the Integrated Report (40 C.F.R. § 100 - 135 (2007)).
- Developing and reviewing Water Quality Standards (WQS), Total Maximum Daily Loads (TMDLs), and implementation strategies associated with TMDLs.

##### **4.1.1.1 Monitoring Goals**

The monitoring goals for 2008-2010 were to:

- Continue and expand a baseline reference stream monitoring program in collaboration with the University of Montana
- Continue and expand biological monitoring to support bio-criteria development
- Continue and support water quality standards development
- Continue and support a variety of special studies and assessments (e.g., addressing public requests to add or remove waters from the 303(d) list, etc.)

##### **4.1.1.2 Monitoring Objectives and Design**

DEQ designs each monitoring project to ensure that it meets its objectives. At present, the majority of the monitoring designs are targeted. **Section 4.1.3** provides a brief summary of each project.

#### **4.1.2 Coordination and Collaboration**

As indicated in the 2009-2019 monitoring strategy (Montana Department of Environmental Quality, 2009), the need to coordinate and collaborate with other entities to continue monitoring projects is critical and implicit in CWA programs. Thus, DEQ has developed partnerships and cooperative agreements with the Bureau of Land Management, U.S. Forest Service, University of Montana, and the United States Geological Survey. Additionally, DEQ has agreements with several conservation districts, watershed groups, and nonprofit organizations. **Sections 4.1.2.1 – 4.1.2.6** provide brief discussions of these agreements.

#### **4.1.2.1 Bureau of Land Management (BLM)**

The objective of the BLM's water quality monitoring program is to determine if the waters that flow through BLM-administered land meets state WQS. To achieve this goal, DEQ and BLM established a Memorandum of Understanding. For the last six years, five to seven candidate reference sites have been sampled (three times per year) within, or adjacent to, BLM land. BLM provides a portion of the funds for this monitoring effort.

#### **4.1.2.2 United States Forest Service (USFS)**

The U.S. Forest Service (USFS) monitors waters within national forest lands. DEQ uses USFS data in its water quality assessment process and to develop watershed restoration plans.

#### **4.1.2.3 Tri-State Water Quality Council**

The nonprofit Tri-State Water Quality Council is a partnership of diverse community interests working together to improve and protect water quality throughout the 26,000-square-mile Clark Fork-Pend Oreille watershed. The watershed includes the Clark Fork River in western Montana, Pend Oreille Lake in northern Idaho, and the Pend Oreille River in eastern Washington. The Tri-state's long-term monitoring program tracks the effectiveness of the Clark Fork-Pend Oreille Basin water quality management plan in addressing interstate nutrient and eutrophication issues. A council member, DEQ provides financial support for some of the monitoring program's components.

#### **4.1.2.4 United States Geological Survey (USGS)**

Data collected by the U.S. Geological Survey (USGS) is available to the public on the National Water Information System website. DEQ provides financial support for several surface water monitoring projects conducted by USGS. The majority of these efforts are in the Powder-Tongue River, Bitterroot, and Flathead basins. USGS also assists DEQ in monitoring the United States portion of the Poplar River and East Fork of the Poplar River as part of an agreement with Canada.

#### **4.1.2.5 University of Montana (UM)**

DEQ contracts with the Watershed Health Clinic of the Environmental Studies Program at the University of Montana (UM), Missoula, to continue the state's reference project. Under these contracts, UM graduate students perform field sampling and laboratory analyses. DEQ provides financial support, training, and most of the necessary field supplies for monitoring.

### **4.1.2.6 Conservation Districts, Watershed Groups, and Nonprofit Organizations**

Partnerships with conservation districts, local watershed groups, and nonprofit organizations with an interest in water quality issues vary. Some simply ask to be informed of monitoring events in their area, while others assist with stream access through private lands. Others are fully involved in sampling efforts. These partnerships continue through TMDL development and implementation projects funded by CWA section 319 grants administered by DEQ.

### **4.1.3 Monitoring Networks and Projects**

During 2008-2010 WQPB undertook several monitoring projects discussed briefly in **Sections 4.1.3.1 - 4.1.3.4**. The monitoring projects were:

- reference site
- lakes and reservoirs
- Flathead Lake watershed
- other

#### **4.1.3.1 Reference Site Monitoring Project**

In the early 1990s, DEQ initiated a project to define the water quality and biological characteristics of minimally disturbed streams. Wadeable streams were targeted, and a network of monitoring locations was established on sites that land managers had deemed minimally disturbed by humans (Bahls et al., 1992). Water column and biological samples were collected, as well as field parameters of water quality. In 2000, DEQ began a second phase of the study, using more refined and rigorous screening methods than during the 1990s' project (Suplee et al., 2005). The main objectives are to establish a network of reference sites, define reference conditions for WQS assessments, establish TMDL endpoints, and to aide in developing WQS. In 2008-2009 a total of 32 candidate reference sites were sampled three times per summer. Protocols used in the reference project are described in the Quality Assurance Project Plan Reference Addendum (Montana Department of Environmental Quality, 2005d).

#### **4.1.3.2 Lakes and Reservoirs Monitoring**

Since 2003 DEQ has been sampling lakes using a monitoring design targeted on lakes and reservoirs. The main objectives are to collect nutrient, chlorophyll *a*, and shoreline impact data to identify lake characteristics that can be used to predict appropriate trophic status for lakes on a regional scale. The data will form a baseline for future lake classification to assess the beneficial-use support status of lakes and to provide data for trend analysis. DEQ works with UM to conduct the field sampling. A complete description of the lake sampling protocols can be found in the Quality Assurance Project Plan Lakes Addendum (Montana Department of Environmental Quality, 2005c). In 2008, 24 lakes were sampled using the standard lake objectives and sampling protocols as described above.

### **4.1.3.3 Flathead Lake Watershed Monitoring**

As part of the TMDL program, DEQ continues its comprehensive monitoring program to support watershed and water quality model development in the Flathead Lake watershed. The program is a cooperative effort among USGS, UM, and private sector contractors. General activities include monitoring rivers and tributaries to calibrate and validate watershed models, monitoring lake and reservoir profiles to characterize pollutant fate and transport and assessing water quality to support TMDL analysis in the basin.

### **4.1.3.4 Other Monitoring**

#### **4.1.3.4.1 Periphyton Monitoring**

As part of the assessment process, DEQ uses biological assemblages to assess the level of beneficial-use support. The main objective is to develop metrics and assessment tools for interpreting biological data. A current study to refine periphyton metrics will evaluate metrics and their possible refinement. As a result, new periphyton metrics have been developed for the Middle Rockies Ecoregion (Teply and Bahls, 2006). Other Montana ecoregions require more data in order to validate and develop the metrics. In 2008-2009 DEQ sampled the final 10 streams to complete the required number of periphyton samples per ecoregion. Protocols to collect the periphyton samples are described in the 2005 field procedures manual (Montana Department of Environmental Quality, 2005a).

#### **4.1.3.4.2 Uniform Nutrient Monitoring**

In order to establish nutrient criteria for Montana streams, Suplee et al. (2008) recommended that unique level IV ecoregions be segregated only for rule-making if they have a per-nutrient minimum of 12 independent samples, from reference sites, during base flow. The purpose of this project was to fill the data gaps for those level IV ecoregions that are likely unique but which have less than the 12 sample-per-ecoregion minimum. In 2008-2009, 29 streams were sampled, and sampling will continue in 2010.

#### **4.1.3.4.3 Little Beaver Creek and Little Missouri River Monitoring**

Little Beaver Creek is a perennial-to-intermittent prairie stream (C-3) located in Carter and O'Fallon counties. The Carter County portion has been sampled since 2007. Due to landowner concerns about the water quality of Little Beaver Creek, monitoring efforts have been focused on getting baseline data for nutrients. In addition, several long-term data recorders (YSI) have been installed to obtain data on dissolved oxygen, pH, specific conductivity, and water temperature in Eastern Montana streams, including a reference site.

The Little Missouri River is a perennial stream (C-3) located in Carter County. This 109.5-mile river is split into two segments, and since 2006 it has been listed for nutrients (total Kjeldahl nitrogen (TKN) and total phosphorus) and metals (cadmium, copper, iron, lead, zinc). In 2007 more metal and nutrient samples were collected (total nitrogen instead of TKN) to obtain a larger and more robust data set to aid in the assessment of this waterbody's beneficial uses. This project will continue until 2012.

#### **4.1.3.4.4 Scotchman Gulch and Flat Gulch Project**

Scotchman Gulch and Flat Gulch are perennial-to-intermittent streams (B-3) located in Granite county. Both are currently on the 303(d) list. The upper portions of both gulches are primarily located on public land managed by the BLM and USFS, whereas the lower portions are mainly private. A private landowner on Flat Gulch and the BLM has requested DEQ to delist both these gulches for sediment and nutrients. Thus, the purpose of this project is to evaluate if Scotchman Gulch and Flat Gulch are supporting their beneficial uses. This project began in 2009 and will continue in 2010.

#### **4.1.3.4.5 Box Elder Creek Nutrient Addition Project**

The study's overall purpose is to determine the effects of varied levels of nutrient enrichment on water quality and beneficial uses of perennial-to-intermittent prairie streams of eastern Montana. Draft nutrient criteria have been developed for wadeable streams here (Suplee et al., 2008), but DEQ believes more work is required to refine these criteria. The results of this project might significantly advance and improve the nutrient criteria for eastern Montana prairie streams. This project will continue until 2012.

#### **4.1.3.4.6 Macroinvertebrate-Nutrient Project**

The current Montana O/E (observed/expected) indicator was built with data collected from multiple sources, each employing different sampling protocols. Preliminary results from a study of the two main macroinvertebrate sampling methods used by DEQ (kick net and EMAP Reach Wide (EMAP- RW)) showed that using different protocols can produce different O/E results for the same site. DEQ has adopted the EMAP-RW (Peck et al., 2003) method, hence the need to collect more data using this method in DEQ approved reference sites. Macroinvertebrate data was collected in 50 reference sites in 2009. The data collected from this project will be used to validate an improved O/E model. In addition, nutrients will also be collected at the selected sites to strengthen the nutrient database.

#### **4.1.3.4.7 TMDL Planning Area Projects**

As part of the TMDL development, in 2009 DEQ worked with UM to initiate a pilot project to collect data in priority TMDL planning areas (TPAs). Two graduate students collected nutrients and metals data from 44 sites on the Middle Clark Fork, Clark Fork-Drummond, and Rock TPAs. This project will continue until 2011.

#### **4.1.3.4.8 Use Attainability Project**

The main objective of the Use Attainability project was to evaluate seven streams that were listed for metals in the 2006 Water Quality Integrated Report. The only source found was natural, hence, the streams were placed in Category 2B, which indicates that a WQS is exceeded due only to natural sources. This is a temporary category, to be reviewed once every three years at a minimum. The streams were re-evaluated in 2009. Results are reflected in this report under Category 2B streams **Table 4.3**.

#### **4.1.3.4.9 Upper Flathead River Basin Monitoring Project**

Water quality and streamflow monitoring was conducted in 2009 in the upper Flathead River basin. The sampling was coordinated with other USGS monitoring activities to minimize cost. This project specifically funds a streamflow gaging station in the Flathead River above Flathead

Lake, near Bigfork. Five other rivers are monitored for flow and several water quality parameters under this project.

## **4.2 Assessment Methodology**

### **4.2.1 Overview**

In 40 CFR Part 130.4(b), the CWA requires that “[t]he state’s water monitoring program shall include collection and analysis of physical, chemical, and biological data, and quality assurance and control programs to assure scientifically valid data.” In 40 CFR Part 130.7(b)(5), the CWA requires that “[e]ach state shall assemble and evaluate all existing and readily available water quality-related data and information to develop the list.”

In keeping with the CWA, the Montana Water Quality Act (MWQA) requires that the department “shall develop and maintain a data management system that can be used to assess the validity and reliability of the data used in the listing and priority ranking process” [MCA 75-5-702(5)].

From the 2000-2008 listing cycles, DEQ has used a consistent process to assess the validity and reliability of data and to make beneficial-use support determinations. The concepts underlying this process came from an EPA model for assessing the beneficial uses of streams using a combination of physical (habitat), biological, and chemical monitoring (U.S. Environmental Protection Agency, 1997). Using these guidelines as the basic framework, DEQ adapted it to address the sufficient credible data requirements of the MWQA (MCA 75-5-702).

### **4.2.2 Data Quality Assessment**

The MWQA directs DEQ to “develop and maintain a data management system that can be used to assess the validity and reliability of the data used in the listing and priority ranking process.” The system allows for an assessment record to document all the measures of data rigor, allowing users to understand the assessor’s basis (i.e., level of underlying information) supporting the use-support decisions.

Previous versions of the state’s assessment method for the period 2000-2008 referred to the validity and reliability assessment process as “Sufficient Credible Data” (SCD). The data evaluation considered the technical, representativeness, currency, quality, and spatial and temporal components of readily available data and information for each of the data types (biology, chemical, and physical/habitat). It established a measure of each data type’s rigor, and the sum of all data types were translated to a qualitative statement of confidence for the beneficial-use assessment.

Through a newly developed Data Quality Assessment (DQA) process, data will be checked for validity and reliability. The process will incorporate a decision-making hierarchy to identify potential and confirmed pollutant issues. For example, screening will identify any obvious WQS issues, and DEQ will conduct more rigorous efforts to resolve any uncertainty or conflicting data.

The proposed DQA considers most of the same technical, spatial/temporal, quality, and age concepts as were reviewed under SCD; however, the process will allow DEQ to make decisions about particular beneficial uses if sufficient data is available for a specific component identified as a likely impairment. The pollutant-based assessment methods will have specific objectives and decision-making criteria for assessing the validity and reliability of data.

### 4.2.3 Beneficial-Use Support

DEQ's revised methods (DQA) will focus water quality monitoring on assessing beneficial uses. By evaluating the likelihood of specific impairments and their effects, potential pollutants can be targeted and monitored during sampling studies. These pollutant-based assessment methods will have specific objectives and decision-making criteria for determining impairments.

Once sufficient quality data has been collected for a waterbody, its level of beneficial-use support can be determined. During this process, the level of use-support is assigned for each beneficial use based on whether or not state WQS are met. Decisions are recorded in the state's Water Quality Assessment, Reporting, and Documentation (WARD) information management system, which includes EPA's water quality assessment program (Assessment Database – ADB v 2.2).

During a separate public review period, DEQ will solicit stakeholder comments about the proposed assessment revisions, and then present a summary of the comments to the State TMDL Advisory Group (STAG). In addition, DEQ encourages comments to this Integrated Report about what worked with the old assessment method and what could be improved.

#### 4.2.3.1 Levels of Use Support

Beneficial-use support determinations have six levels:

- **Full Support** – The beneficial use is found in its natural condition, or best practical condition, and WQS are attained.
- **Full Support (Threatened)** – The beneficial use is fully supported but observed trends, or proposed new sources of pollution not subject to permitting, indicate a high probability of future impairment.
- **Partial Support** – One or more data types show impairment. The beneficial use is only partially supported based on the nature and rigor of the data, as well as site-specific conditions.
- **Non-Support** – One or more WQS for the beneficial use are not attained.
- **Insufficient Information** – There is not enough technical, spatial/temporal, quality, or currency data to represent conditions, or the data is not comparable to state WQS, preventing assessment.
- **Not Assessed** – A beneficial-use support determination has not been initiated.

#### 4.2.4 Waterbody Assessment Records in WARD Data System

Each waterbody assessment record consists of the following parts:

- **Water Quality Assessment Records for Each Assessment Unit** – DEQ documents the assessment of each waterbody assessment unit (AU) in its WARD system. A Water Quality Assessment Record is created for each AU, detailing the AU and documenting data sources used, data quality evaluation performed (SCD), use-support decisions, impairment information, cause/source information, delisting information, and how the data was used to reach an assessment decision. An electronic report of the assessment record is available on the Clean Water Act Information Center (CWAIC) website (<http://cwaic.mt.gov>).
- **Hard Copy Data Files for Each Assessment Unit Evaluated** – These files may contain water quality data, maps, photographs, references to relevant documents, and references to electronic information sources. Assessment record files may be reviewed in person at DEQ's office in Helena.
- **Assessment Database (ADB v 2.2)** – When the assessment record is completed in WARD, and passes at least two internal quality control checks, the federal reporting data is put into the state's version of EPA's Assessment Database. The ADB contains the majority of the data used to develop the tables and reports comprising the state's Water Quality Integrated Report. As required by law, Montana submits a copy of this database, along with the supporting assessment reports, to EPA for approval.
- **Geographic (Reach) Indexing** – All assessment units are indexed on the 1:24,000-scale High Resolution National Hydrography Dataset (NHD) for display and mapping using Geographic Information Systems (GIS).

Public access to all electronic data, information, and maps is available on DEQ's CWAIC website at <http://cwaic.mt.gov>. Visitors to the CWAIC site can run interactive queries of the state's Assessment Database from the 2000-2010 reporting cycles, view the 303(d) lists (1996 to present; 1998 excluded) and view 305(b) reports for the 1996-2010 period. Access to the electronic Assessment Reports and online mapping for each assessment unit is also available.

#### **4.2.5 Quality Assurance and Quality Control Program**

Within DEQ, the Water Quality Planning Bureau (WQPB) operates under an EPA-approved Quality Management Plan (QMP) (Montana Department of Environmental Quality, 2008). The QMP establishes a quality system for all bureau activities, including, but not limited to, monitoring state surface waters and producing this Water Quality Integrated Report.

The QMP requires the bureau to plan projects, document the planning, and provide for independent assessment and oversight to assure scientifically valid processes and data used for decision-making. For water quality monitoring, WQPB plans and documents proposed activities in Quality Assurance Project Plans (QAPPs), or equivalent planning documents. The current QAPP established for sampling and water quality assessments (Montana Department of Environmental Quality, 2005b) will be revised to agree with the new assessment method.

## 4.3 Assessment Results

### 4.3.1 Water Quality Reporting Categories

For integrated reporting purposes, waterbodies (referred to as Assessment Units or AU) included in the Assessment Database are assigned to categories. There are five core reporting categories, one of which has three subcategories (Category 4). Also, the state has added two custom subcategories (user defined) to Category 2. The categories are:

Category 1: All applicable beneficial uses have been assessed and all uses are fully supported.

Category 2A: Available data and/or information indicate that some, but not all, of the beneficial uses are supported.<sup>2</sup>

Category 2B: Available data and/or information indicate that a water quality standard is exceeded due to an apparent natural source in the absence of any identified human sources.<sup>3</sup>

Category 3: There is insufficient data to assess use-support of any applicable beneficial use; no use-support determinations have been made.

Category 4A: All TMDLs necessary to correct all identified threats or impairments have been completed and approved.

Category 4B: Waterbodies on lands where “other pollution control requirements required by local, state, or federal authority” [40 CFR 130.7(b)(1)(iii) (2007)] are in place, are expected to address all waterbody-pollutant combinations, and expected to attain all WQS within a reasonable time. These control requirements act in lieu of a TMDL, thus no actual TMDLs are required.

Category 4C: Identified threats or impairments result from pollution categories such as dewatering or habitat modification and, thus, a TMDL is not required.

Category 5: One or more beneficial uses are impaired or threatened, and a TMDL is required to address causative factors.

The majority of the 1,138 AUs whose water quality attainments have been assessed are listed in Category 5, impaired and in need of a TMDL (**Table 4-1**).

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<sup>2</sup> State of Montana user-defined category that is identical to EPA’s Category 2 definition provided in the Assessment Database. Category 2A waters will appear as 2 (2A) in the Integrated Report.

<sup>3</sup> State of Montana user-defined category. Category 2B waters may carry a 2, 3, 4C, or 5 per database rules and would appear as a subcategory (e.g., 2 (2B), 4C (2B), or 5 (2B)) in the Integrated Report.

**Table 4-1. Size and Count of Assessment Units Assigned to Reporting Categories**

Category	2008					2010				
	River		Lake / Reservoir		Count Total	River		Lake / Reservoir		Count Total
	Miles	Count	Acres	Count		Miles	Count	Acres	Count	
1	2,136	123	63,640	15	138	2,278	119	58,675	15	134
2 (2A)	556	31	10,843	11	42	600	31	10,843	11	42
2 (2B)	124	3			3	130	3			3
3	1,585	73	23,830	9	82	1,837	87	29,662	13	100
4A	970	66	4,580	3	69	2,061	147	4,280	2	149
4C	1,833	101	39,258	4	105	1,825	92	9,005	4	96
4C (2B)	22	1			1	25	1			1
5	12,168	611	461,212	24	635	12,637	565	453,848	26	591
5 (2B)	1,164	29			29	687	19			19
<b>Total</b>	<b>20,558</b>	<b>1,038</b>	<b>603,363</b>	<b>66</b>	<b>1,104</b>	<b>22,079</b>	<b>1,064</b>	<b>566,313</b>	<b>71</b>	<b>1,135</b>

A list of all waters in subcategory 2B is provided in **Table 4-2**.

**Table 4-2. Category 2B Assessment Units**

2010 305(b) AU ID	Waterbody Name, Description	Category	Size (mi.)
MT40A002_020	ANTELOPE CREEK, headwaters to mouth (Musselshell River)	2,2B	36.8
MT43F002_030	KEYSER CREEK, headwaters to mouth (Yellowstone River)	2,2B	22.4
MT41P001_022	MARIAS RIVER, county road at T29N R6E S17 to mouth (Missouri River)	2,2B	70.5
MT42K002_170	EAST FORK ARMELLS CREEK, headwaters to Colstrip	4C,2B	24.7
MT43F002_022	CANYON CREEK, headwaters to highway 532	5,2B	29.7
MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	5,2B	20.1
MT43D002_140	COTTONWOOD CREEK, headwaters to the mouth (Clarks Fork of Yellowstone), T3S R24E S24	5,2B	19.6
MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	5,2B	39.3
MT40Q002_020	EAST FORK POPLAR RIVER, Canada border to mouth (Poplar River)	5,2B	21.6
MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	5,2B	38.6
MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	5,2B	18.3
MT42B002_032	HANGING WOMAN CREEK, Wyoming border to Stroud Creek	5,2B	31.4
MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	5,2B	20.9
MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	5,2B	22.0
MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	5,2B	17.6
MT42C002_020	OTTER CREEK, headwaters to mouth (Tongue River)	5,2B	108.1
MT42J004_010	STUMP CREEK, headwaters to mouth (Powder River)	5,2B	29.8
MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	5,2B	41.2
MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	5,2B	14.8
MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	5,2B	10.7
MT41R001_020	ARROW CREEK, Surprise Creek to the mouth (Missouri River)	5,2B	69.7
MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5,2B	76.7
MT40J005_020	COTTONWOOD CREEK, Black Coulee to the mouth (Milk River)	5,2B	57.4

The waterbodies identified in **Table 4.3** were listed in 2008 as category 5/2B for trace metals from natural sources. A deliberate field investigation including data collection and source assessment of these watersheds found no water standards were exceeded by these metals. Thus, these causes were removed (delisted) from Category 5 (i.e., 303(d) list). The good cause for delisting is “state determines water quality standard is being met.”

**Table 4-3. 2008 Category 2B Assessment Units and Causes Delisted in 2010**

2010 305(b) AU ID	Waterbody Name, Description	Category	Cause	Size (mi.)
MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	5	Copper, Lead, Zinc, Cadmium, Iron	14.7
MT40O002_010	CHERRY CREEK, headwaters to the mouth (Milk River)	1	Iron	38.3
MT40C004_020	LODGEPOLE CREEK, North and Middle Fork Lodgepole Creeks to the mouth (Musselshell River)	1	Iron	27
MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	5	Arsenic	5

### 4.3.2 Statewide Summary of Water Quality Assessments

All waters that do not meet WQS are reported as impaired, whether the impairment includes pollutants (Category 5), pollution (Category 4C), or whether the waters have completed required TMDLs (4A).

**Appendix A** includes a list of impaired waters and their identified causes and sources. Of the 78 specific causes listed in 2010, the two most common were sediment-related (pollutant) and alterations of streamside vegetative covers (pollution). The top 10 most common causes include sediment, nutrients, and metals-related pollutants and habitat or streamflow-related pollution (**Table 4.4**).

**Table 4-4. Top 10 Causes of Impairment – All Assessment Units**

Cause Name	# of AUs
Sedimentation/Siltation	450
Alteration in stream-side or littoral vegetative covers <sup>1</sup>	411
Low flow alterations <sup>1</sup>	238
Phosphorus (Total)	227
Lead	172
Physical substrate habitat alterations <sup>1</sup>	159
Copper	156
Total Kjehldahl Nitrogen (TKN)	114
Arsenic	113
Cadmium	107

<sup>1</sup> These causes are from pollution, or non-pollutants; therefore, TMDLs cannot be developed

Riparian, or shoreline, grazing is the most common confirmed source of impairment (**Table 4-5**). Other confirmed common sources include irrigated crop production, roads, water management,

mining, silviculture, channelization, and natural sources. Of the 2,708 identified AU/source combinations listed, 532 (20%) are confirmed.

**Table 4-5. Top 10 Confirmed Sources of Impairment – All Assessment Units**

Source Name	# of AUs
Grazing in Riparian or Shoreline Zones	119
Irrigated Crop Production	51
Forest Roads (Road Construction and Use)	36
Unspecified Unpaved Road or Trail	28
Flow Alterations from Water Diversions	26
Silviculture Harvesting	19
Impacts from Abandoned Mine Lands (Inactive)	19
Channelization	18
Natural Sources	16
Mine Tailings	16

#### 4.3.2.1 Category 5 Waterbody-Pollutant De-listings

During the 2010 reporting cycle, 352 waterbody-pollutant cause combinations were de-listed from Category 5 (**Appendix D**). Of these, 326 have approved TMDLs (4A).

#### 4.3.3 Designated Use-Support Summaries

All waters are assigned a use class, which designates between three and six beneficial uses (refer to **Section 3.1.1.2 & Table 3-2**). When a water quality assessment is conducted, each beneficial use, with sufficient data and/or information to conduct an assessment, is evaluated to determine whether WQS are attained and the beneficial use is supported.

##### 4.3.3.1 Assessment of Rivers and Streams

To date, the state's water quality program has defined just more than 20,000 miles of rivers and streams in its copy of EPA's Assessment Database. The majority of these assessed waterbodies are not supporting their aquatic life or fisheries uses, which reflects the prominence of sediment and flow-related impairments. Conversely, most assessed waters do support their drinking water, recreation, agriculture, and industrial uses (**Table 4-6**).

**Table 4-6. Beneficial Use-Support Summary – Rivers and Streams ONLY**

CWA Goals	Beneficial Use	Total <sup>1</sup>	Fully Supporting	Fully Supporting & Threatened	Not Supporting <sup>2</sup>	Not Assessed	Insufficient Info
		(Miles)	(Miles)	(Miles)	(Miles)	(Miles)	(Miles)
Protect & Enhance Ecosystem	Aquatic Life	22,077	3,390	0	15,360	3,119	208
	Coldwater Fishery	12,693	1,734	0	9,211	1,200	548
	Warmwater Fishery	9,408	1,226	0	6,070	1,857	255
Protect & Enhance Public Health	Drinking Water	15,802	8,466	0	3,675	3,234	427
	Primary Contact Recreation	22,212	9,746	134	6,037	5,050	1,245
Social & Economic	Agricultural	16,664	12,054	0	2,248	2,121	241
	Industrial	15,857	12,164	0	1,497	1,977	219

<sup>1</sup>Total size (miles) of rivers or streams defined in the Assessment Database with this assigned beneficial use.

<sup>2</sup>Includes waters that are partially supporting their beneficial uses.

There are 74 identified causes of impairment to Montana's rivers and streams. The most common are sediment-related (pollutant) and alterations of streamside vegetative covers (pollution). (**Table 4.7**).

**Table 4-7. Top 10 Causes of Impairment – Rivers and Streams ONLY**

Cause Name	# of AUs
Sedimentation/Siltation	443
Alteration in stream-side or littoral vegetative covers <sup>1</sup>	409
Low flow alterations <sup>1</sup>	237
Phosphorus (Total)	219
Lead	167
Physical substrate habitat alterations <sup>1</sup>	157
Copper	154
Total Kjehldahl Nitrogen (TKN)	112
Arsenic	109
Cadmium	104

<sup>1</sup>These causes are from pollution, or non-pollutants; therefore, TMDLs cannot be developed.

There were 46 confirmed sources of impairment to Montana's rivers and streams. The most common confirmed source was riparian, or shoreline, grazing (**Table 4-8**). Other sources are related to irrigated crop production, roads, water management, mining, silviculture, channelization, and natural sources.

**Table 4-8. Top 10 Confirmed Sources of Impairment – Rivers and Streams ONLY**

Source Name	# of AUs
Grazing in Riparian or Shoreline Zones	118
Irrigated Crop Production	49
Forest Roads (Road Construction and Use)	36
Unspecified Unpaved Road or Trail	28
Flow Alterations from Water Diversions	26
Impacts from Abandoned Mine Lands (Inactive)	19
Silviculture Harvesting	18
Channelization	18
Mine Tailings	16
Natural Sources	16

### 4.3.3.2 Assessments of Lakes and Reservoirs

To date, the state's water quality program has defined just over 566,313 acres of lakes and reservoirs in its copy of EPA's Assessment Database. A majority of the assessed lakes and reservoirs are not supporting their aquatic life, drinking water, or recreation uses. In addition, most assessed waters do support their coldwater fishery, agriculture, and industrial uses. Half of the assessed warmwater lakes and reservoirs support a warmwater fishery and half do not (**Table 4-9**).

**Table 4-9. Beneficial Use-Support Summary - Lakes and Reservoirs ONLY**

CWA Goals	Beneficial Use	Total <sup>1</sup>	Fully Supporting	Fully Supporting & Threatened	Not Supporting <sup>2</sup>	Not Assessed	Insufficient Info
		(Acres)	(Acres)	(Acres)	(Acres)	(Acres)	(Acres)
Protect & Enhance Ecosystem	Aquatic Life	566,313	106,382	6,037	178,929	29,965	245,000
	Coldwater Fishery	526,096	225,081	6,037	26,086	23,892	245,000
	Warmwater Fishery	40,217	4,320	0	22,181	13,716	
Protect & Enhance Public Health	Drinking Water	546,171	190,044	0	301,659	50,968	3,500
	Primary Contact Recreation	566,313	212,180	0	307,843	42,790	3,500
Social & Economic	Agricultural	544,571	212,025	0	51,257	277,789	3,500
	Industrial	544,571	259,230	0	7,687	274,154	3,500

<sup>1</sup> Total size (acres) of lakes or reservoirs defined in the assessment database with this assigned beneficial use.

<sup>2</sup> Includes waters that are partially supporting their beneficial uses.

There are 39 identified causes of impairment to Montana's lakes and reservoirs. The most common causes are phosphorus (Total), other flow regime alterations, and mercury. (**Table 4.10**).

**Table 4-10. Top 10 Causes of Impairment – Lakes and Reservoirs ONLY**

Cause Name	# of AUs
Phosphorus (Total)	8
Mercury	7
Other flow regime alterations	7
Salinity	7
Sedimentation/Siltation	7
Lead	5
Nitrogen (Total)	5
Selenium	5
Arsenic	4
Cadmium	3

Of 37 impairment sources identified for Montana's lakes and reservoirs, nine are confirmed (Table 4-11). These include agricultural, point-source/urban, and climate-related sources.

**Table 4-11. Confirmed Sources of Impairment – Lakes and Reservoirs ONLY**

Source Name	# of AUs
Irrigated Crop Production	2
Drought-related Impacts	1
Grazing in Riparian or Shoreline Zones	1
Municipal Point Source Discharges	1
Unspecified Urban Stormwater	1
Atmospheric Deposition – Nitrogen	1
Agriculture	1
Transfer of Water from an Outside Watershed	1
Impacts from Abandoned Mine Lands (Inactive)	1

#### 4.3.4 CWA Section 314 (Clean Lakes Program)

DEQ last received CWA Section 314 funds for the Clean Lakes Program in 1994. Since 1998, when the grant was closed, Montana has been unable to support the Clean Lakes Program due to lack of funding.

##### 4.3.4.1 Trophic Status and Trend Analysis

DEQ has limited data to evaluate state lakes. Nonetheless, some assessment of lake trophic status and water quality trends were entered into DEQ's ADB. Of the 72 lake AUs represented in the ADB, 61 have been assessed for trophic status (Table 4-12). Of those 72 lakes, 11 have been assessed for trends (Table 4-13).

**Table 4-12. Trophic Status of Lakes and Reservoirs**

<b>Trophic Status</b>	<b>Number of Lakes</b>	<b>Total Size (Acres)</b>
Dystrophic	0	0
Eutrophic	11	40,483
Hypereutrophic	0	0
Mesotrophic	16	315,222
Oligotrophic	10	168,825
Unknown	24	38,546
<b>Total Assessed for Trophic Status</b>	<b>61</b>	<b>563,076</b>

**Table 4-13. Water Quality Trends for Lakes and Reservoirs**

<b>Trend</b>	<b>Number of Lakes</b>	<b>Total Size (Acres)</b>
STABLE	4	22,410
UNKNOWN	7	264,878
<b>Total Assessed for Trends</b>	<b>11</b>	<b>287,288</b>

## 4.4 Wetlands Program

### 4.4.1 Montana Wetlands Program Overview

DEQ's wetlands program is guided by a statewide conservation strategy titled Priceless Resources – A Strategic Framework for Wetland and Riparian Area Conservation and Restoration in Montana 2008-2012 (Montana Wetland Council, 2008). The strategy is endorsed by the Governor and directors of the State Department of Environmental Quality; Fish, Wildlife and Parks; and Natural Resources and Conservation.

The strategy was developed by the Montana Wetlands Council, an active network of diverse interests that works to conserve and restore Montana's wetland and riparian ecosystems. Numerous organizations were involved in developing the strategy, which reached out to more than 700 Montanans representing local, state, federal, and tribal agencies, as well as the agricultural community, biology and environmental conservation groups, consultants, land trusts, industry representatives (e.g. mining, wood products), real estate and land development interests, recreation and sportsmen, the educational sector, and other water- and wetland-related groups.

Montana's overarching wetland goal is no net loss of the state's remaining wetland resource base (as of 1989) and an overall increase in the quality and quantity of wetlands in Montana. Eight strategic directions guide wetland protection for DEQ and the Montana Wetland Council:

- public education
- professional training
- mapping, monitoring, and assessment
- restoration
- assisting local governments
- wetland vulnerability
- public policy
- effectiveness of the Montana Wetland Council

Five working groups help to implement the five-year strategic framework. DEQ recently submitted an FFY2010 EPA Region 8 Wetland Program Development Grant proposal to develop wetland program plans, including for the four core elements of a state wetlands program: 1) monitoring and assessment; 2) regulatory activities, including 401 certification; 3) voluntary restoration and protection; and 4) water quality standards for wetlands. As part of that grant, DEQ will develop actions, a schedule, and a list of responsible parties for each core element and further refine Montana's statewide conservation strategy.

#### **4.4.2 Monitoring and Assessment**

To fulfill EPA's CWA §106(e)(1) grant requirements, DEQ submitted a report to EPA Region 8 titled "Montana Statewide Water Quality Monitoring and Assessment Strategy 2009-2019." Section 10 of the report included an implementation schedule with several activities identified to accomplish short-term goals. DEQ has prepared a draft document, "Recommended strategies for Achieving Montana Water Quality Act Objectives for Montana's Wetlands" (Apfelbeck, 2010 (draft)), to address one of those short-term activities.

While DEQ was an early leader in the nation working on wetland condition assessment, this focus shifted due to court orders related to TMDL development, a lack of priority for comprehensive ambient monitoring, limited staff resources, and a change in EPA Region 8's grant approach. From 2002-2006 the Montana Natural Heritage Program's (MTNHP) Ecology Program contracted with DEQ to monitor and assess wetlands. In 2006 MTNHP took the lead on wetland monitoring and assessment. It directly receives EPA Wetland Program Development Grants and other EPA funding to a) develop GIS-based, rapid and intensive assessment methods; b) initiate a rotating basin approach to report on wetland condition; and c) develop reference standard wetland condition assessments and other tools for reporting on the condition of Montana's wetlands. MTNHP has recently prepared a draft report titled "Development Plan for a Statewide Wetland and Riparian Mapping, Assessment and Monitoring Program," (Montana Natural Heritage Program, 2010) which is being reviewed to coordinate with DEQ's draft monitoring plan and state water quality program responsibilities.

DEQ is contracting with MTNHP's Ecology Program for the field portion of the 2011 National Wetland Condition Assessment for Montana. MTNHP will sample nine sites with two revisits. Two additional sites and one site revisit occur on Tribal Lands. Another contract with MTNHP's Zoology Program took advantage of amphibian field work conducted for other projects, red-flagging impacted wetlands on the Natural Heritage Tracker website. As to the degree of wetland impact, MTNHP coded 10,185 wetland photos associated with more than 9,600 wetland surveys conducted across Montana. An ongoing DEQ contract with MTNHP's Aquatic Ecology Program is linking wetland habitat type and potential wetland condition with Odonata (dragonfly and damselfly) and Lepidoptera (butterfly) species.

#### **4.4.3 Restoration and Partnerships**

The Montana Wetlands Legacy Partnership (Legacy), formed in 2000, is a voluntary incentive-based partnership that focuses on wetland restoration and conservation on private land. Tom

Hinz, Department of Fish Wildlife and Parks (FWP), is the Legacy coordinator and provides a point of contact for landowners looking for technical and financial assistance from state, federal, tribal, and local governments, as well as from private conservation organization programs. This year a Legacy project was awarded the nation's highest Wetland Award for landowner stewardship. The Laszlos, owners of Granger Ranches in Madison County, have permanently protected more than half of their 14,000-acre ranch and restored or enhanced 510 acres of wetlands and 35,000 feet of stream channel and riparian habitats. This is the largest wetland and stream restoration project of its kind in the state and is a shining example of the restoration partnership taking place in Montana.

From 2004 to 2006 Legacy also administered the In-Lieu-Fee (ILF) Aquatic Resource Mitigation Program with funds managed by FWP. However, FWP decided to end the program because not enough funds were generated to ensure long-term monitoring and protection of the sites. Further, EPA and the U.S. Army Corp of Engineers (USACE) published a draft rules proposal to discontinue ILF programs. In the two and a half years that the Montana ILF program was in operation, \$500,000 was generated from wetland-related impacts, and funds were used for wetland mitigation, including an ILF project on the Granger Ranches. Since then, EPA and USACE have issued the final Mitigation Rule, which guides the development of improved ILF programs. In addition, the Montana Army Corps of Engineers has begun to require mitigation for stream-related impacts, which they estimate to be about 80% of the aquatic impacts in Montana. DEQ recently submitted an FFY2010 EPA Region 8 Wetland Program Development Grant proposal to develop an ILF Aquatic Resource Mitigation Program for Montana to satisfy CWA 404 mitigation requirements for impacts to streams, wetlands, and other aquatic resources.

In the grant proposal, DEQ will address the wetland program core element of developing actions, a schedule, and a list of responsible parties for voluntary restoration. The anticipated priorities include:

- Developing a strategy for increased voluntary wetland and riparian restoration and mitigation on state lands
- Developing a strategy to address water quality issues for voluntary wetland and riparian restoration and mitigation

## **4.5 Public Health Issues**

### **4.5.1 Spill Reports**

During 2008-2009 a total of 243 incidents of possible spills impacting water quality were reported to DEQ's Enforcement Division. These reports ranged from one cup of motor oil spilling into Lake Koocanusa to 60 barrels of crude oil leaking into Pennel Creek. All incidents were investigated, and their reports are available from the Enforcement Division.

### **4.5.2 Fish Kills**

A total of four fish kills were reported to FWP.

- Billings Bench Water Association Canal, July 24, 2008. Total fish kill of unknown number due to dewatering for canal repairs.

- Yellow Water Reservoir, Fergus County, July 26, 2009. Thousands of fish were killed due to undetermined causes.
- Mill Creek, Madison County, August 13, 2009. An estimated 300-400 brook trout, brown trout, and sculpin were killed due to herbicides.
- Hidden Lake, Gallatin County, August 19, 2009. Total fish kill of unknown number due to undetermined causes.

### 4.5.3 Fish Consumption Advisories

In 2007 the Montana Department of Public Health and Human Services issued fish consumption advisories for certain Montana waters where testing confirmed elevated levels of contaminants, specifically mercury and polychlorinated biphenyls (PCBs), which are harmful to human health (**Table 4-14**). Most waters in the state, however, have not been tested for contaminants (Montana Department of Health and Human Services et al., 2007). Additional fish consumption guidelines are available from FWP.

**Table 4-14. Montana Waters with Fish Consumption Advisories in 2007**

Ackley Lake	Fort Peck Reservoir	Nelson Reservoir
Alder Gulch	Frenchman Reservoir	Ninepipes NWR
Bair Reservoir	Fresno Reservoir	Noxon Rapids Reservoir
Basin Creek	Georgetown Lake	Park Lake (SW of Helena)
Big Spring Creek	Hauser Reservoir	Petrolia Reservoir
Bighorn Lake	Hebgen Reservoir	Prickly Pear Creek
Bynum Reservoir	Holter Reservoir	Seeley Lake
Cabinet Gorge Reservoir	Hyalite Lake	Silver Creek
Canyon Ferry Reservoir	Madison River	Soda Butte Creek
Castlerock Lake	Lake Koocanusa	South Sandstone Reservoir
Clark Canyon Reservoir	Lake Mary Ronan	Swan Lake
Clear Lake (S of Alberton)	Leigh Lake (S of Libby)	Tenmile Creek (W of Helena)
Cliff Lake	Lower Stillwater Lake	Thompson Falls Reservoir
Cooney Reservoir	Lump Gulch	Tiber Reservoir (Lake Elwell)
Missouri River (Headwaters to Toston)	Judith River (Below Big Spring Creek)	Upper Cold Lake (Mission Mountains)
Culver Pond	Martinsdale Reservoir	Tongue River Reservoir
Dailey Lake	Medicine Lake NWR	Upper Two Medicine Lake
East Fork Reservoir	Flathead Lake	Whitefish Lake
Ennis Lake	Mystic Lake (S of Bozeman)	Willow Creek Reservoir
Crystal Lake (E of Twin Bridges)		

Because of PCB contamination, since 2007 catch-and release fishing regulations have been in effect for Big Spring Creek above the Hwy. 191 Bridge, including East Fork Big Spring Creek downstream from the reservoir. The source likely stems from the historic use of PCB-laden paint used on the old fish hatcheries. Current regulations prohibit the harvesting and/or eating of fish from Big Spring Creek, the only fish-consumption-related closure in the state.



## 5.0 ASSESSMENT DATA CONTROL ACTIVITIES

DEQ's Water Quality Planning Bureau has been improving its assessment, data management, and reporting abilities and systems since the 2004 reporting cycle. The following sections describe the current state of these improvements. Also included are all cases where errant data was discovered and corrected and where certain activities have occurred but have not been recorded in the state's data system at the time of this report (e.g, recent EPA TMDL approvals).

### 5.1 Data Management Activities in the Assessment Database (ADB)

As result of new and improved data management systems for Clean Water Act section 305(b) reporting activities, the program is better able to visualize assessment data and their relationships. DEQ has identified inconsistencies and data entry errors that need to be resolved to better represent water quality assessment decisions. The goal is to improve reporting abilities, clarify assessment data and related information, and make transparent the assessment process for interested parties and stakeholders.

#### 5.1.1 Assessment Unit Changes

During the 2010 reporting cycle, DEQ added or modified 21 waterbodies for assessment purposes. This included designating 12 new Assessment Units (AUs), merging two existing AUs into one and creating 21 new AUs by splitting them from existing AUs. (**Table 5-1**).

**Table 5-1. Assessment Unit Changes During the 2010 Reporting Cycle**

Pre-2010 305(b) ID	2010 305(b) ID	Current Waterbody Description	Type	Comments
MT39E001_030	MT39E001_031	BOXELDER CREEK, headwaters to Corral Creek	Split	Retire/Replace
MT39E001_030	MT39E001_032	BOXELDER CREEK, Corral Creek to South Dakota Border	Split	Added
	MT39F001_015	THOMPSON CREEK, Powder River County border to Wyoming border	New	Added
	MT39F002_010	LITTLE BEAVER CREEK, headwaters to North Dakota border	New	Added
	MT39F002_020	DUGAN CREEK, headwaters to mouth (Little Beaver Creek)	New	Added
MT40J001_010	MT40J001_011	MILK RIVER, Fresno Dam to Thirtymile Creek	Split	Retire/Replace
MT40J001_010	MT40J001_012	MILK RIVER, Thirtymile Creek to Dobson Creek	Split	Added
MT40J001_010	MT40J001_013	MILK RIVER, Dobson Creek to Whitewater Creek	Split	Added
MT40M001_012	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Creek	Split	Retire/Replace
MT40M001_012	MT40M001_014	BEAVER CREEK, Big Warm Creek to Un-Named tributary, T30N R32E S32	Split	Added
MT40O002_030	MT40O002_031	WILLOW CREEK, headwaters to Halfpint Reservoir, T25N R35E S26	Split	Retire/Replace
MT40O002_030	MT40O002_032	HALFPINT RESERVOIR, T28N R40E S26	Split	Added
MT40O002_030	MT40O002_033	WILLOW CREEK, Halfpint Reservoir to mouth (Milk River), T28N R40E S29	Split	Added
MT40Q001_010	MT40Q001_011	POPLAR RIVER, T35N R48E S17 to the mouth (Fort Peck Reservation), T33N R48E S12	Split	Retire/Replace

**Table 5-1. Assessment Unit Changes During the 2010 Reporting Cycle**

Pre-2010 305(b) ID	2010 305(b) ID	Current Waterbody Description	Type	Comments
MT40Q001_010	MT40Q001_012	MIDDLE FORK POPLAR RIVER, T37N R45E S6 to the mouth (Poplar River), T36N R48E S33	Split	Added
	MT41E003_010	JACK CREEK, headwaters to mouth (Basin Creek)	New	Added
MT41G001_010	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Split	Retire/Replace
MT41G001_010	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Split	Added
	MT41G002_141	WHITETAIL DEER CREEK, headwater to Whitetail Creek	New	Added
	MT41G003_140	WHITETAIL RESERVOIR	New	Added
MT41H003_131	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	Split	Retire/Replace
	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	Split	Retire/Replace
	MT41I007_030	HELENA VALLEY CANAL, Helena Valley Reservoir to Lake Helena	New	Added
MT41I007_040	MT41I007_040	HAUSER LAKE	Merge	
MT41I004_010	MT41I007_040	MISSOURI RIVER, Canyon Ferry Dam to Hauser Lake	Merge	Retire/Merged
MT41J002_012	MT41J002_013	LAKE SUTHERLIN	New	Added
MT42C001_012	MT42C001_013	TONGUE RIVER, Hanging Woman Creek to Beaver Creek	Split	Retire/Replace
MT42C001_012	MT42C001_014	TONGUE RIVER, Beaver Creek to Twelve Mile Dam, T6N R48E S29	Split	Added
MT42C002_060	MT42C002_061	PUMPKIN CREEK, headwaters to Little Pumpkin Creek	Split	Retire/Replace
MT42C002_060	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creek to the mouth (Tongue River)	Split	Added
MT42J003_010	MT42J003_011	POWDER RIVER, Little Powder River to Mizpah Creek	Split	Retire/Replace
MT42J003_010	MT42J003_012	POWDER RIVER, Mizpah Creek to mouth (Yellowstone River)	Split	Added
MT42J005_010	MT42J005_011	MIZPAH CREEK, headwaters to Corral Creek	Split	Retire/Replace
MT42J005_010	MT42J005_012	MIZPAH CREEK, Corral Creek to the mouth (Powder River)	Split	Added
MT42M002_050	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Split	Retire/Replace
MT42M002_050	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Split	Added
MT43P001_010	MT43P001_011	BIGHORN LAKE (Yellowtail Reservoir)	Split	Retire/Replace
MT43P001_010	MT43P001_012	BIGHORN LAKE AFTERBAY (Yellowtail Afterbay Dam)	Split	Added
MT76B002_110	MT76B002_111	MEADOW CREEK, South Fork Meadow Creek, through Meadow Creek to mouth (Yaak River)	Split	Retire/Replace
MT76B002_110	MT76B002_112	NORTH FORK MEADOW CREEK, headwaters to mouth (Meadow Creek)	Split	Added
MT76D002_130	MT76D002_131	YOUNG CREEK, headwaters to mouth (Lake Koocanusa), T37N R28 S24	Split	Retire/Replace

**Table 5-1. Assessment Unit Changes During the 2010 Reporting Cycle**

Pre-2010 305(b) ID	2010 305(b) ID	Current Waterbody Description	Type	Comments
MT76D002_130	MT76D002_132	UNNAMED CREEK, Canadian Border to mouth (Young Creek), T37N R28 S15	Split	Added
MT76D002_130	MT76D002_133	SOUTH FORK YOUNG CREEK, headwaters to mouth (Young Creek), T37N R29W S14	Split	Added
MT76D002_140	MT76D002_141	DODGE CREEK, headwaters to mouth (Lake Koocanusa), T37N R28W S36	Split	Retire/Replace
MT76D002_140	MT76D002_142	SOUTH FORK DODGE CREEK, headwater to mouth (Dodge Creek), T37N R29W S36	Split	Added
MT76D002_170	MT76D002_171	EAST FORK PIPE CREEK, headwaters to mouth (Pipe Creek), T33N R31W S16	Split	Retire/Replace
MT76D002_170	MT76D002_172	BEULAH CREEK, headwaters to mouth (East Fork Pipe Creek), T33N R31W S16	Split	Added
MT76D002_170	MT76D002_173	BEARFITE CREEK, headwaters to mouth (Beulah Creek), T34N R31W S34	Split	Added
	MT76D004_091	SINCLAIR CREEK, confluence of unnamed tributary, Lat -114.945 Long 48.908 to mouth (Tobacco River)	New	Added
	MT76D004_092	SINCLAIR CREEK, headwaters to unnamed tributary, Lat -114.945 Long 48.908	New	Added
	MT76G004_120	TROUT CREEK, headwaters to mouth (at Little Blackfoot River)	New	Added
	MT76H003_011	PAINTED ROCKS LAKE, T1S R22W S26	New	Added
MT76H004_030	MT76H004_031	BEAR CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Fred Burr Creek), T7N R20W S7	Split	Retire/Replace
MT76H004_030	MT76H004_032	NORTH CHANNEL BEAR CREEK, headwater to the mouth (Fred Burr Creek), T8N R20W S32	Split	Added

### 5.1.2 Assessment Unit Metadata and Data Entry Error Correction

While managing the data and generating the 2010 Integrated Report, DEQ discovered and corrected some basic data entry and GIS indexing errors related to EPA-approved TMDLs, AU location descriptions, and mapping data (**Table 5.2**).

**Table 5-2. General Data Quality Control and Corrections for 2010 Cycle in the Assessment Database (ADB)**

305(b) ID	Waterbody Name	Data Corrected	Correction
MT40G001_020	Sage Creek	Waterbody Name, Location Description	The waterbody was previously listed as Sage Creek Headwaters. “Headwaters” was removed from the name.
MT41H005_020	Taylor Creek	Waterbody Name, Location Description	The waterbody was previously listed as Taylor Fork. U.S. Board of Geographic Names Geographic Name Information System shows this waterbody as Taylor Creek.
MT41S001_030	Judith River	Waterbody Name, Location Description	The waterbody was previously listed as Judith River Mainstem. “Mainstem” was removed from name.

**Table 5-2. General Data Quality Control and Corrections for 2010 Cycle in the Assessment Database (ADB)**

305(b) ID	Waterbody Name	Data Corrected	Correction
MT41S001_040	Judith River	Waterbody Name, Location Description	The waterbody was previously listed as Judith River Mainstem. “Mainstem” was removed from name.
MT76N003_021	Antimony Creek	Waterbody Name, Location Description	The waterbody was previously listed as Antimony Creek Drainage. “Drainage” was removed from name.
MT41C003_120	Basin Creek	Waterbody Name, Location Description	Corrected the receiving waterbody from Middle Fork Ruby River to Ruby River based on the High Resolution NHD.
MT41H003_085	Bear Creek	Waterbody Name, Location Description	The waterbody was previously listed as East Gallatin River Drainage. U.S. Board of Geographic Names Geographic Name Information System shows this waterbody as Bear Creek.
MT41I006_040	Prickly Pear Creek	End Point	The end of the AU was moved upstream approximately one mile to the Wylie Drive County Road to match the transition in Use Class along the creek.
MT41S002_090	Middle Fork Judith River	Waterbody Name	The waterbody was previously listed as Judith River Tributaries. U.S. Board of Geographic Names Geographic Name Information System shows this waterbody as Middle Fork Judith River.
MT42M002_050	Fox Creek	Waterbody Name, Location Description, AU Location	The waterbody was previously listed as Fox Creek (Including North Fork). The North Fork of Fox Creek was separated and became AU MT42M002_055.
MT76E002_010	Rock Creek	Waterbody Name	The waterbody was previously listed as Rock Creek Mainstem. “Mainstem” was removed from the name.
MT76F002_010	Landers Fork	Waterbody Name	The waterbody was previously listed as Landers Fork Blackfoot River. “Blackfoot River” was removed from the name.
MT76G002_011	Warm Springs Creek	End Point	The end point was extended downstream to Meyers Dam.
MT76G002_012	Warm Springs Creek	Start Point	The start point was moved downstream to Meyers Dam.
MT76G002_030	Cable Creek	End Point, Channel	The end point was moved downstream to the mouth (Warm Springs Creek) and a short unnamed tributary was removed from the AU.
MT76G002_100	Dempsey Creek	Start Point	The start point was moved back upstream from the Forest Service boundary to the original start point at Lat 46.312, Long -112.963
MT41P002_010	Dry Fork Marias River	Start Point	The start point was moved to US Highway 91 at Lat 48.215, Long -111.945.
MT41P002_020	Dry Fork Marias River	End Point	The end point was moved to US Highway 91 at Lat 48.215, Long -111.945.
MT76G006_010	Unnamed Creek	Waterbody Name	This was originally misnamed as Ontario Mine Wetland and assigned to the wrong waterbody; the correction changed the name and location to the proper waterbody.
MT41U001_011	Belt Creek	Start Point	The start point was moved upstream to the headwaters of Belt Creek at Lat 46.845, Long -110.669.

In addition to the major corrections detailed in **Table 5.2**, approximately half of the 305(b) waterbody location descriptions and some of the waterbody names required minor modifications to standardize the name format and descriptions. This process included removal of extra spaces, correcting misspellings, and standardizing the format and order of the description and name text.

As part of the minor correction process, some waterbody names were changed to match the conventions used by the U.S. Board of Geographic Names and the National Hydrography Dataset’s Geographic Name Information System. For example, “Belt Creek, Dry Fork” was changed to “Dry Fork Belt Creek” and “Cr” to “Creek.”

### 5.1.3 Changes to AU Beneficial Use and TMDL Planning Area Assignment

While managing the data and generating the 2010 Integrated Report, DEQ discovered and corrected errors in beneficial-use designations and made changes in TPA assignments (**Table 5-3**).

**Table 5-3. Beneficial Use and TPA Assignment Changes**

305(b) ID	Waterbody Name	Data Corrected	Correction
MT41K004_030	Freezeout Lake	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41O002_041	Blackleaf Creek	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41O002_042	Blackleaf Creek	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41O003_010	Bynum Reservoir	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41O004_020	Priest Butte Lake	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41P003_010	Tiber Reservoir (Lake Elwell)	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41P004_010	Willow Creek	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41S001_010	Judith River	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41O001_020	Teton River	Beneficial Use	Changed Beneficial Use from Warmwater Fishery to Coldwater Fishery
MT41P005_010	Oilmont Wetland	Beneficial Use	Changed Beneficial Use from Coldwater Fishery to Warmwater Fishery
MT42M002_120	Morgan Creek	Beneficial Use	Changed Beneficial Use from Coldwater Fishery to Warmwater Fishery
MT41Q001_014	Missouri River	Beneficial Use	Changed Beneficial Use from Coldwater Fishery to Warmwater Fishery
MT40E002_060	Ruby Creek	TMDL Planning Area	Changed the name of the TPA from Fort Peck Tributaries to Landusky
MT41A001_010	Red Rock River	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A001_020	Red Rock River	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock

**Table 5-3. Beneficial Use and TPA Assignment Changes**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Data Corrected</b>	<b>Correction</b>
MT41A002_010	Clark Canyon Reservoir	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_010	Medicine Lodge Creek	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_020	Muddy Creek	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_090	Horse Prairie Creek	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_100	Bloody Dick Creek	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_150	Sheep Creek	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A003_210	Unnamed Drainage	TMDL Planning Area	Changed the name of the TPA from Lower Red Rock to Red Rock
MT41A004_010	Price Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_030	Fish Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_040	Corral Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_050	East Fork Clover Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_060	Hell Roaring Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_070	Long Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_080	O'dell Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_090	Peet Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_100	Tom Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_110	Red Rock Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_130	Jones Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A004_140	Bean Creek	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A005_020	Lower Red Rock Lake	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT41A005_030	Upper Red Rock Lake	TMDL Planning Area	Changed the name of the TPA from Upper Red Rock to Red Rock
MT40N001_010	Eagle Creek	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk
MT40O001_010	Milk River	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk
MT40O002_010	Cherry Creek	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk

**Table 5-3. Beneficial Use and TPA Assignment Changes**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Data Corrected</b>	<b>Correction</b>
MT40O002_020	Buggy Creek	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk
MT40O002_030	Willow Creek	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk
MT40O002_040	Beaver Creek	TMDL Planning Area	Changed the name of the TPA from Lower Milk - Rock to Lower Milk
MT43D002_050	Red Lodge Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_060	Red Lodge Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_070	Willow Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_080	West Red Lodge Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_090	Wyoming Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_120	Rock Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_131	Rock Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D002_132	Rock Creek	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_010	Cooney Reservoir	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_100	Basin Creek Lake	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_110	Big Moose Lake	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_120	Black Canyon Lake	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_130	Elpestrine Lake	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT43D003_140	Lower Basin Creek Lake	TMDL Planning Area	Changed the name of the TPA from Rock Creek - Red Lodge to Clarks Fork Yellowstone
MT41E001_010	Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E001_021	Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn

**Table 5-3. Beneficial Use and TPA Assignment Changes**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Data Corrected</b>	<b>Correction</b>
MT41E001_022	Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E001_030	Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_010	Uncle Sam Gulch	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_020	Cataract Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_030	Basin Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_040	High Ore Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_050	Lowland Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_061	Elkhorn Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_062	Elkhorn Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_070	Bison Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_080	Little Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_090	North Fork Little Boulder River	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_100	Muskrat Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_110	McCarthy Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_120	Dry Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_130	Nursery Creek	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41E002_140	Big Limber Gulch	TMDL Planning Area	Changed the name of the TPA from Boulder to Boulder - Elkhorn
MT41F001_010	Madison River	TMDL Planning Area	Changed the name of the TPA from Lower Madison to Madison
MT41F001_020	Madison River	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F001_030	Madison River	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F002_010	Cherry Creek	TMDL Planning Area	Changed the name of the TPA from Lower Madison to Madison
MT41F002_020	Elk Creek	TMDL Planning Area	Changed the name of the TPA from Lower Madison to Madison
MT41F002_030	Hot Springs Creek	TMDL Planning Area	Changed the name of the TPA from Lower Madison to Madison
MT41F004_010	Blaine Spring Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison

**Table 5-3. Beneficial Use and TPA Assignment Changes**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Data Corrected</b>	<b>Correction</b>
MT41F004_020	O'dell Spring Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_030	Beaver Creek	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F004_040	Indian Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_050	Jack Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_060	North Meadow Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_070	South Meadow Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_080	Ruby Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_090	Standard Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_100	West Fork Madison River	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_110	Elk River	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_120	Gazelle Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_130	Moore Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_140	Antelope Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F004_150	Buford Creek	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F005_010	Hebgen Lake	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F005_020	Quake Lake	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F005_030	Ennis Lake	TMDL Planning Area	Changed the name of the TPA from Middle Madison to Madison
MT41F006_010	South Fork Madison River	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F006_020	Red Canyon Creek	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT41F006_030	Watkins Creek	TMDL Planning Area	Changed the name of the TPA from Upper Madison to Madison
MT40O003_010	Porcupine Creek	TMDL Planning Area	Changed the name of the TPA from Lower Missouri to Lower Milk

### 5.1.4 Changes to Causes and Sources Associated with Assessment Units

Data entry errors were identified during an extensive data quality control process that was conducted during the 2008 reporting cycle. After a review of the errors the corrections were applied to the database in preparation for the 2010 Integrated Report. These changes corrected

assessment unit causes and sources in order to improve the accuracy of the cause and source description or to correct simple data entry errors. For cases where a cause name was changed, the errant cause from previous 303(d) lists were delisted due to flaws in the original listing (**Appendix D**) and the correct cause added, retaining the cycle first listed date of the delisted cause.

**Table 5-4. Changes to Causes and Sources Associated with Assessment Units**

305(b) ID	Waterbody Name	Correction
MT40B001_022	Flatwillow Creek	Cause: 'Nitrates' corrected to 'Nitrogen, Nitrate'.
MT40E002_100	Mill Gulch	Cause: 'Nitrogen, Nitrate' corrected to 'Nitrates'. Beneficial use correction.
MT40E003_020	Nelson Creek	Cause: 'Nitrogen, Nitrate' corrected to 'Nitrates'. Beneficial use corrected.
MT40E004_010	Fort Peck Reservoir	Cause: 'Aquatic Plants - Native' removed. Beneficial use determination corrected.
MT40S004_010	Charlie Creek	Cause: 'Total Dissolved Solids' and respective sources removed.
MT41B002_090	Rattlesnake Creek	Causes: 'Low flow alterations', 'Solids (Suspended/Bedload)' and respective sources ('Grazing in Riparian or Shoreline Zones', 'Irrigated Crop Production') added.
MT41B002_180	Scudder Creek	Cause: 'Total Kjehldahl Nitrogen (TKN)' corrected to 'Nitrogen (Total)'.
MT41C002_010	Wisconsin Creek	Impairment confidence corrected.
MT41D004_010	North Fork Big Hole River	Source 'Highway/Road/Bridge Runoff (Non-construction Related)' corrected to 'Loss of Riparian Habitat' for cause: 'Alteration in stream-side or littoral vegetative covers'. Use support determination corrected.
MT41F004_030	Beaver Creek	Use support certainty corrected.
MT41G002_140	Whitetail Creek	Impairment confidence corrected.
MT41G002_150	Charcoal Creek	Cause: 'Alteration in stream-side or littoral vegetative covers' added with respective source 'Grazing in Riparian or Shoreline Zones'; causes: 'Nitrogen (Total)' and 'Phosphorus (Total)' removed. Impairment Confidence corrected.
MT41H003_080	Rocky Creek	Source 'Channelization' removed from cause: 'Alteration in stream-side or littoral vegetative covers'; cause: 'Octachlorostyrene' and respective sources 'Channelization', 'Highways, Roads, Bridges, Infrastructure (New Construction)' added; cause: 'Other flow regime alterations' and respective sources removed.
MT41H003_131	Hyalite Creek	Impairment confidence corrected.
MT41I005_060	Fool Hen Creek	Cause: 'Zinc' and respective sources: 'Mill Tailings', 'Subsurface (Hardrock) Mining', 'Impacts from Abandoned Mine Lands (Inactive)' added.
MT41I006_080	Spring Creek	Source 'Channelization' added to cause: 'Alteration in stream-side or littoral vegetative covers'.
MT41I006_143	Tenmile Creek	Sources 'Acid Mine Drainage' and 'Impacts from Abandoned Mine Lands (Inactive)' removed from causes: 'Arsenic' and 'Cadmium'.
MT41I006_180	N. Fk. Warm Springs Creek	Source 'Grazing in Riparian or Shoreline Zones' added to causes: 'Alteration in stream-side or littoral vegetative covers', 'Other anthropogenic substrate alterations', 'Sedimentation/Siltation' and 'Organic Enrichment (Sewage) Biological Indicators'.
MT41I007_040	Hauser Lake	Cause: 'Endosulfan' corrected to 'Endosulfan sulfate'.
MT41J002_060	Elk Creek	Use support certainty corrected.
MT41J002_081	Newlan Creek - Lower	Cause: 'Fecal Coliform' corrected to 'Escherichia coli'.

**Table 5-4. Changes to Causes and Sources Associated with Assessment Units**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Correction</b>
MT41K002_020	Ford Creek	Impairment confidence corrected.
MT41P003_010	Tiber Reservoir (Lake Elwell)	Beneficial use corrected.
MT41P005_010	Oilmont Wetland	Beneficial use corrected.
MT41Q001_011	Missouri River	Cause: 'Pentachlorobenzene' corrected to 'PCB-1254'; cause: 'PCB-1260' added.
MT41Q001_013	Missouri River	Cause: 'Pentachlorobenzene' corrected to 'PCB-1254'; cause: 'PCB-1260' added.
MT41Q001_014	Missouri River	Beneficial use corrected.
MT42K002_070	Stellar Creek	Impairment confidence corrected.
MT42K002_080	North Fork Sunday Creek	Causes: 'Sedimentation/Siltation', 'Sodium', 'Solids (Suspended/Bedload)', 'Specific Conductance', 'Total Dissolved Solids' with respective sources: 'Channelization', 'Natural Sources' and 'Crop Production (Crop Land or Dry Land)' added.
MT42K002_120	W. Fk. Armells Creek	Use support certainty corrected.
MT42M002_120	Morgan Creek	Beneficial use corrected.
MT43B001_010	Yellowstone River	Impairment confidence corrected.
MT43B004_132	Boulder River	Impairment confidence corrected.
MT43B004_141	East Boulder River	Use support determination corrected.
MT43B004_142	East Boulder River	Use support determination corrected.
MT43D001_011	Clarks Fork Yellowstone River	Use support determination and test type corrected.
MT43D002_100	Silvertip Creek	Source 'Petroleum/natural Gas Activities' corrected to 'Petroleum/natural Gas Production Activities (Permitted)' for cause 'Other flow regime alterations'; source 'Rangeland Grazing' deleted for causes: 'Specific Conductance' and 'Turbidity'.
MT43D003_110	Big Moose Lake	Use support certainty corrected.
MT43Q002_010	Fly Creek	Cause: 'Alterations in wetland habitats' corrected to 'Alteration in stream-side or littoral vegetative covers'; sources 'Drought-related Impacts', 'Loss of Riparian Habitat' and 'Dam or Impoundment' removed from cause: 'Chlorophyll-a'.
MT76B002_060	Spread Creek	Cause: 'Nitrate/Nitrite (Nitrite + Nitrate as N)' with respective sources ('Silviculture Harvesting', 'Source Unknown') added.
MT76D002_090	Quartz Creek	Impairment confidence and use support determination corrected.
MT76E003_030	N. F. Douglas Creek	Cause: 'Copper' corrected to 'Cadmium'.
MT76E003_040	Fred Burr Creek	Cause: 'Lead' corrected to 'Mercury'.
MT76E004_041	Harvey Creek	Use support determination corrected.
MT76F006_080	Day Gulch	Use support determination corrected.
MT76G002_011	Warm Springs Creek	Use support determination corrected.
MT76I002_040	Challenge Creek	Impairment confidence corrected.
MT76L001_010	Flathead River	Impairment confidence corrected; causes: 'Total Kjehldahl Nitrogen (TKN)', 'Nitrate/Nitrite (Nitrite + Nitrate as N)' and 'Phosphorus (Total)' and respective source 'Irrigated Crop Production' added.
MT76L002_070	Sullivan Creek	Cause: 'pH' and respective sources ('Mine Tailings', 'Impacts from Abandoned Mine Lands (Inactive)', 'Subsurface (Hardrock) Mining', 'Surface Mining' added
MT76M002_090	Petty Creek	Cause: 'Alterations in wetland habitats' corrected to 'Alteration in stream-side or littoral vegetative covers' and respective source 'Agriculture' added.

**Table 5-4. Changes to Causes and Sources Associated with Assessment Units**

305(b) ID	Waterbody Name	Correction
MT76M002_120	Rattlesnake Creek	Use support determination corrected.
MT76M004_040	Josephine Creek	Impairment confidence and sources confirmation corrected.
MT76M004_060	Cedar Creek	Impairment confidence and sources confirmation corrected; cause: 'Alteration in stream-side or littoral vegetative covers' and respective sources: 'Natural Sources', 'Forest Roads (Road Construction and Use)', 'Agriculture' added.
MT76M004_080	Little McCormick Creek	Impairment confidence correction.
MT76O002_050	Fish Creek	Use support determination corrected.
MT76O004_020	Lake Mary Ronan	Use support determination corrected. Aquatic Life and Cold Water Fishery uses flagged as Threatened in the 2010 cycle.
MT76P001_010	Stillwater River	Cause: 'Cause Unknown' corrected to 'Lead'.

### 5.1.5 Approved TMDLs

While conducting quality control on data entered into Montana's ADB, DEQ discovered that seven missing TMDLs that had been approved before 2008. To enable tracking of TMDL implementation and listing status, these TMDLs were entered into the ADB (**Table 5-5**).

**Table 5-5. TMDLs Approved Prior to the 2008 Reporting Cycle Corrected During the 2010 Reporting Cycle**

TMDL Planning Area	305(b) ID	Waterbody Name	Cycle First Listed	Cause Name
Teton	MT41O001_020	Teton River	2000	Total Dissolved Solids
Teton	MT41O001_020	Teton River	2000	Sulfates
Lake Helena	MT41I006_040	Prickly Pear Creek	2010 <sup>a</sup>	Temperature, water
Bitterroot Headwaters	MT76H003_070	Buck Creek	2010 <sup>a</sup>	Sediment/Siltation
Swan	MT76K002_010	Swan Lake	2010 <sup>a</sup>	Total Nitrogen (TN)
Swan	MT76K002_010	Swan Lake	2010 <sup>a</sup>	Total Phosphorus (TP)
Prospect Creek	MT76N003_022	Cox Gulch	2010 <sup>a</sup>	Antimony

<sup>a</sup> These causes were not listed on the 303(d) prior to the TMDLs being developed and approved. They were listed then delisted in 2010 cycle for tracking.

DEQ received EPA approval for 229 TMDLs in the Lower, Middle, North Fork, and Upper Big Hole; the Upper Jefferson; Boulder-Big Timber; Shields; Teton; Lake Helena; Yaak; Middle and Lower Blackfoot; Nevada Creek; Bitterroot Headwaters; Swan; St. Regis; and Prospect Creek TMDL Planning Areas during the 2008 reporting cycle (**Table 5-6**). The approvals were received too late for inclusion in the 2008 Integrated Report; however, they have been added to the ADB during this reporting cycle. All of the approved TMDLs are included in **Appendix F**.

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

TMDL Planning Area	305(b) ID	Waterbody Name	Cycle First Listed	Cause Name
Lower Big Hole	MT41D001_010	Big Hole River	2000	Temperature, water
Middle Big Hole	MT41D001_020	Big Hole River	2000	Copper
Middle Big Hole	MT41D001_020	Big Hole River	2000	Lead

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

<b>TMDL Planning Area</b>	<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Cycle First Listed</b>	<b>Cause Name</b>
Middle Big Hole	MT41D001_020	Big Hole River	2000	Temperature, water
Middle Big Hole	MT41D001_020	Big Hole River	2010	Sedimentation/Siltation
Upper Big Hole	MT41D001_030	Big Hole River	2010	Sedimentation/Siltation
Upper Big Hole	MT41D001_030	Big Hole River	2000	Temperature, water
Lower Big Hole	MT41D002_010	Trapper Creek	2000	Sedimentation/Siltation
Lower Big Hole	MT41D002_010	Trapper Creek	1990	Copper
Lower Big Hole	MT41D002_010	Trapper Creek	1990	Lead
Lower Big Hole	MT41D002_010	Trapper Creek	1990	Zinc
Lower Big Hole	MT41D002_010	Trapper Creek	2010	Arsenic
Lower Big Hole	MT41D002_010	Trapper Creek	2010	Cadmium
Lower Big Hole	MT41D002_020	Camp Creek	2006	Phosphorus (Total)
Lower Big Hole	MT41D002_020	Camp Creek	2006	Sedimentation/Siltation
Lower Big Hole	MT41D002_020	Camp Creek	2006	Solids (Suspended/Bedload)
Lower Big Hole	MT41D002_020	Camp Creek	2010	Nitrogen (Total)
Lower Big Hole	MT41D002_040	Divide Creek	2006	Temperature, water
Lower Big Hole	MT41D002_040	Divide Creek	2006	Phosphorus (Total)
Lower Big Hole	MT41D002_040	Divide Creek	2006	Total Kjeldahl Nitrogen (TKN)
Lower Big Hole	MT41D002_040	Divide Creek	1990	Sedimentation/Siltation
Lower Big Hole	MT41D002_050	Moose Creek	2010	Sedimentation/Siltation
Lower Big Hole	MT41D002_060	Grose Creek	2006	Phosphorus (Total)
Lower Big Hole	MT41D002_060	Grose Creek	1988	Sedimentation/Siltation
Lower Big Hole	MT41D002_060	Grose Creek	2010	Total Nitrogen (TN)
Lower Big Hole	MT41D002_090	Birch Creek	1990	Sedimentation/Siltation
Lower Big Hole	MT41D002_100	Birch Creek	2010	Sedimentation/Siltation
Lower Big Hole	MT41D002_120	Wickiup Creek	1994	Copper
Lower Big Hole	MT41D002_140	Soap Creek	2006	Phosphorus (Total)
Lower Big Hole	MT41D002_140	Soap Creek	1994	Sedimentation/Siltation
Lower Big Hole	MT41D002_140	Soap Creek	2010	Nitrogen (Total)
Lower Big Hole	MT41D002_160	Rochester Creek	2000	Arsenic
Lower Big Hole	MT41D002_160	Rochester Creek	2000	Copper
Lower Big Hole	MT41D002_160	Rochester Creek	2000	Lead
Lower Big Hole	MT41D002_160	Rochester Creek	2000	Mercury
Lower Big Hole	MT41D002_160	Rochester Creek	1994	Sedimentation/Siltation
Lower Big Hole	MT41D002_180	Lost Creek	2006	Arsenic
Lower Big Hole	MT41D002_180	Lost Creek	2006	Phosphorus (Total)
Lower Big Hole	MT41D002_180	Lost Creek	2006	Nitrogen (Total)
Lower Big Hole	MT41D002_180	Lost Creek	1996	Sedimentation/Siltation
Middle Big Hole	MT41D003_020	Jerry Creek	2000	Copper
Middle Big Hole	MT41D003_020	Jerry Creek	2010	Sedimentation/Siltation
Middle Big Hole	MT41D003_030	Delano Creek	1992	Sedimentation/Siltation
Middle Big Hole	MT41D003_040	Deep Creek	1990	Sedimentation/Siltation
Middle Big Hole	MT41D003_050	French Creek	1990	Arsenic
Middle Big Hole	MT41D003_050	French Creek	2010	Copper
Middle Big Hole	MT41D003_050	French Creek	2010	Sedimentation/Siltation
Middle Big Hole	MT41D003_070	California Creek	2006	Turbidity
Middle Big Hole	MT41D003_070	California Creek	1992	Arsenic
Middle Big Hole	MT41D003_070	California Creek	1992	Sedimentation/Siltation
Middle Big Hole	MT41D003_070	California Creek	2010	Copper

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

<b>TMDL Planning Area</b>	<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Cycle First Listed</b>	<b>Cause Name</b>
Middle Big Hole	MT41D003_080	Oregon Creek	2000	Arsenic
Middle Big Hole	MT41D003_080	Oregon Creek	2000	Copper
Middle Big Hole	MT41D003_080	Oregon Creek	1990	Sedimentation/Siltation
Middle Big Hole	MT41D003_090	Sixmile Creek	2002	Sedimentation/Siltation
Middle Big Hole	MT41D003_110	Sevenmile Creek	1990	Sedimentation/Siltation
Middle Big Hole	MT41D003_130	Corral Creek	1992	Sedimentation/Siltation
Middle Big Hole	MT41D003_160	Fishtrap Creek	1996	Sedimentation/Siltation
Middle Big Hole	MT41D003_200	Wise River	2010	Cadmium
Middle Big Hole	MT41D003_200	Wise River	2010	Copper
Middle Big Hole	MT41D003_200	Wise River	2010	Lead
Middle Big Hole	MT41D003_200	Wise River	2010	Sedimentation/Siltation
Middle Big Hole	MT41D003_210	Pattengail Creek	2002	Sedimentation/Siltation
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Arsenic
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Lead
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Copper
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Cadmium
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Zinc
Middle Big Hole	MT41D003_220	Elkhorn Creek	1996	Sedimentation/Siltation
Middle Big Hole	MT41D003_230	Gold Creek	1990	Sedimentation/Siltation
Upper Big Hole	MT41D004_170	Fox Creek	2010	Sedimentation/Siltation
Middle Big Hole	MT41D004_230	Sawlog Creek	1996	Sedimentation/Siltation
North Fork Big Hole	MT41D004_010	N. Fork Big Hole River	1990	Sedimentation/Siltation
North Fork Big Hole	MT41D004_020	Mussigbrod Creek	2010	Sedimentation/Siltation
North Fork Big Hole	MT41D004_030	Johnson Creek	1990	Sedimentation/Siltation
North Fork Big Hole	MT41D004_060	Tie Creek	1992	Sedimentation/Siltation
North Fork Big Hole	MT41D004_070	Trail Creek	1990	Sedimentation/Siltation
North Fork Big Hole	MT41D004_080	Trail Creek	1990	Sedimentation/Siltation
North Fork Big Hole	MT41D004_090	Joseph Creek	1990	Sedimentation/Siltation
North Fork Big Hole	MT41D004_100	Ruby Creek	2000	Sedimentation/Siltation
Upper Big Hole	MT41D004_110	Swamp Creek	1990	Sedimentation/Siltation
Upper Big Hole	MT41D004_120	Rock Creek	2002	Sedimentation/Siltation
Upper Big Hole	MT41D004_140	Miner Creek	1990	Sedimentation/Siltation
Upper Big Hole	MT41D004_150	Governor Creek	2010	Sedimentation/Siltation
Upper Big Hole	MT41D004_160	Pine Creek	2010	Sedimentation/Siltation
Upper Big Hole	MT41D004_190	Steel Creek	2000	Phosphorus (Total)
Upper Big Hole	MT41D004_190	Steel Creek	2010	Sedimentation/Siltation
Upper Big Hole	MT41D004_190	Steel Creek	2010	Nitrogen (Total)
Upper Big Hole	MT41D004_200	Francis Creek	2006	Nitrogen (Total)
Upper Big Hole	MT41D004_200	Francis Creek	2006	Phosphorus (Total)
Upper Big Hole	MT41D004_200	Francis Creek	1990	Sedimentation/Siltation
Upper Big Hole	MT41D004_210	McVey Creek	1992	Sedimentation/Siltation
Upper Big Hole	MT41D004_220	Doolittle Creek	1992	Sedimentation/Siltation
Upper Jefferson	MT41G002_010	Big Pipestone Creek	1996	Total Suspended Solids (TSS)
Upper Jefferson	MT41G002_010	Big Pipestone Creek	2010	Sedimentation/Siltation
Upper Jefferson	MT41G002_030	Hells Canyon Creek	1992	Sedimentation/Siltation
Upper Jefferson	MT41G002_040	Little Pipestone Creek	1990	Sedimentation/Siltation
Upper Jefferson	MT41G002_100	Fish Creek	1996	Sedimentation/Siltation
Upper Jefferson	MT41G002_110	Cherry Creek	2006	Sedimentation/Siltation

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

<b>TMDL Planning Area</b>	<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Cycle First Listed</b>	<b>Cause Name</b>
Upper Jefferson	MT41G002_140	Whitetail Creek	1994	Sedimentation/Siltation
Shields	MT43A001_011	Shields River	1988	Sedimentation/Siltation
Shields	MT43A001_012	Shields River	1988	Sedimentation/Siltation
Shields	MT43A002_010	Potter Creek	1988	Sedimentation/Siltation
Shields	MT43A002_010	Potter Creek	1988	Solids (Suspended/Bedload)
Boulder - Big Timber	MT43B004_131	Boulder River	2004	Copper
Boulder - Big Timber	MT43B004_131	Boulder River	2004	Iron
Boulder - Big Timber	MT43B004_131	Boulder River	2004	Lead
Boulder - Big Timber	MT43B004_132	Boulder River	2010	Copper
Boulder - Big Timber	MT43B004_132	Boulder River	2010	Iron
Boulder - Big Timber	MT43B004_132	Boulder River	2010	Lead
Boulder - Big Timber	MT43B004_133	Boulder River	2010	Copper
Boulder - Big Timber	MT43B004_133	Boulder River	2010	Iron
Boulder - Big Timber	MT43B004_133	Boulder River	2010	Lead
Boulder - Big Timber	MT43B004_134	Boulder River	2006	Copper
Boulder - Big Timber	MT43B004_134	Boulder River	2006	Lead
Boulder - Big Timber	MT43B004_134	Boulder River	2010	Iron
Boulder - Big Timber	MT43B005_010	Basin Creek	2010	Copper
Boulder - Big Timber	MT43B005_010	Basin Creek	2010	Iron
Boulder - Big Timber	MT43B005_010	Basin Creek	2010	Lead
Yaak	MT76B002_010	Seventeen Mile Creek	1992	Sedimentation/Siltation
Yaak	MT76B002_020	Lap Creek	2006	Sedimentation/Siltation
Yaak	MT76B002_080	South Fork Yaak River	1992	Sedimentation/Siltation
Middle Blackfoot	MT76F001_031	Blackfoot River	1996	Nitrogen (Total)
Middle Blackfoot	MT76F001_031	Blackfoot River	1996	Phosphorus (Total)
Middle Blackfoot	MT76F001_031	Blackfoot River	2010	Sedimentation/Siltation
Middle Blackfoot	MT76F001_032	Blackfoot River	1996	Nitrogen (Total)
Middle Blackfoot	MT76F001_032	Blackfoot River	1996	Phosphorus (Total)
Middle Blackfoot	MT76F001_032	Blackfoot River	2010	Sedimentation/Siltation
Nevada Creek	MT76F003_011	Nevada Creek	2000	Lead
Nevada Creek	MT76F003_011	Nevada Creek	1996	Solids (Suspended/Bedload)
Nevada Creek	MT76F003_011	Nevada Creek	1996	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_011	Nevada Creek	2010	Copper
Nevada Creek	MT76F003_011	Nevada Creek	2010	Iron
Nevada Creek	MT76F003_011	Nevada Creek	2010	Temperature, water
Nevada Creek	MT76F003_011	Nevada Creek	2010	Phosphorus (Total)
Nevada Creek	MT76F003_012	Nevada Creek	1996	Phosphorus (Total)
Nevada Creek	MT76F003_012	Nevada Creek	1996	Sedimentation/Siltation
Nevada Creek	MT76F003_012	Nevada Creek	1996	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_012	Nevada Creek	2010	Temperature, water
Nevada Creek	MT76F003_021	Jefferson Creek	1990	Sedimentation/Siltation
Nevada Creek	MT76F003_022	Jefferson Creek	2006	Aluminum
Nevada Creek	MT76F003_022	Jefferson Creek	2006	Iron
Nevada Creek	MT76F003_022	Jefferson Creek	2006	Phosphorus (Total)
Nevada Creek	MT76F003_022	Jefferson Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F003_022	Jefferson Creek	1988	Solids (Suspended/Bedload)
Nevada Creek	MT76F003_022	Jefferson Creek	2010	Nitrogen (Total)
Nevada Creek	MT76F003_030	Gallagher Creek	2006	Phosphorus (Total)

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

<b>TMDL Planning Area</b>	<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Cycle First Listed</b>	<b>Cause Name</b>
Nevada Creek	MT76F003_030	Gallagher Creek	2006	Sedimentation/Siltation
Nevada Creek	MT76F003_030	Gallagher Creek	2006	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_040	Braziel Creek	2006	Phosphorus (Total)
Nevada Creek	MT76F003_040	Braziel Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F003_040	Braziel Creek	2010	Nitrogen (Total)
Nevada Creek	MT76F003_050	McElwain Creek	2006	Nitrate/Nitrite (Nitrite + Nitrate as N)
Nevada Creek	MT76F003_050	McElwain Creek	2006	Phosphorus (Total)
Nevada Creek	MT76F003_050	McElwain Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F003_060	Black Bear Creek	2006	Phosphorus (Total)
Nevada Creek	MT76F003_060	Black Bear Creek	2006	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_060	Black Bear Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F003_060	Black Bear Creek	1988	Solids (Suspended/Bedload)
Nevada Creek	MT76F003_071	Washington Creek	2010	Sedimentation/Siltation
Nevada Creek	MT76F003_072	Washington Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F003_072	Washington Creek	2010	Iron
Nevada Creek	MT76F003_081	Douglas Creek	1990	Nitrate/Nitrite (Nitrite + Nitrate as N)
Nevada Creek	MT76F003_081	Douglas Creek	1990	Phosphorus (Total)
Nevada Creek	MT76F003_081	Douglas Creek	1990	Sedimentation/Siltation
Nevada Creek	MT76F003_081	Douglas Creek	1990	Temperature, water
Nevada Creek	MT76F003_081	Douglas Creek	1990	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_082	Douglas Creek	1990	Phosphorus (Total)
Nevada Creek	MT76F003_082	Douglas Creek	1990	Sedimentation/Siltation
Nevada Creek	MT76F003_082	Douglas Creek	1990	Temperature, water
Nevada Creek	MT76F003_082	Douglas Creek	1990	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_090	Cottonwood Creek	2010	Sedimentation/Siltation
Nevada Creek	MT76F003_090	Cottonwood Creek	2010	Temperature, water
Nevada Creek	MT76F003_100	Nevada Spring Creek	1992	Sedimentation/Siltation
Nevada Creek	MT76F003_120	Murray Creek	2006	Nitrate/Nitrite (Nitrite + Nitrate as N)
Nevada Creek	MT76F003_120	Murray Creek	2006	Phosphorus (Total)
Nevada Creek	MT76F003_120	Murray Creek	2006	Total Kjehldahl Nitrogen (TKN)
Nevada Creek	MT76F003_120	Murray Creek	1994	Sedimentation/Siltation
Nevada Creek	MT76F003_120	Murray Creek	1994	Temperature, water
Nevada Creek	MT76F003_130	Buffalo Gulch	2002	Sedimentation/Siltation
Middle Blackfoot	MT76F004_010	Frazier Creek	2006	Phosphorus (Total)
Middle Blackfoot	MT76F004_010	Frazier Creek	2006	Sedimentation/Siltation
Middle Blackfoot	MT76F004_010	Frazier Creek	2006	Total Kjehldahl Nitrogen (TKN)
Middle Blackfoot	MT76F004_040	Cottonwood Creek	2010	Sedimentation/Siltation
Middle Blackfoot	MT76F004_050	Wales Creek	2006	Nitrate/Nitrite (Nitrite + Nitrate as N)
Middle Blackfoot	MT76F004_050	Wales Creek	2006	Phosphorus (Total)
Middle Blackfoot	MT76F004_050	Wales Creek	1992	Sedimentation/Siltation
Middle Blackfoot	MT76F004_060	Ward Creek	2002	Sedimentation/Siltation
Middle Blackfoot	MT76F004_070	Warren Creek	2010	Sedimentation/Siltation
Middle Blackfoot	MT76F004_080	Yourname Creek	2006	Phosphorus (Total)
Middle Blackfoot	MT76F004_080	Yourname Creek	2006	Sedimentation/Siltation
Middle Blackfoot	MT76F004_080	Yourname Creek	2010	Nitrogen (Total)
Middle Blackfoot	MT76F004_090	Rock Creek	1992	Sedimentation/Siltation
Middle Blackfoot	MT76F004_100	Monture Creek	2010	Sedimentation/Siltation
Middle Blackfoot	MT76F004_110	Kleinschmidt Creek	2006	Sedimentation/Siltation

**Table 5-6. TMDLs Approved in the 2008 Reporting Cycle Entered into ADB During 2010 Reporting Cycle**

<b>TMDL Planning Area</b>	<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Cycle First Listed</b>	<b>Cause Name</b>
Middle Blackfoot	MT76F004_110	Kleinschmidt Creek	2000	Temperature, water
Middle Blackfoot	MT76F005_020	Richmond Creek	1992	Sedimentation/Siltation
Middle Blackfoot	MT76F005_030	Deer Creek	1992	Sedimentation/Siltation
Middle Blackfoot	MT76F005_040	W. F. Clearwater River	2010	Sedimentation/Siltation
Middle Blackfoot	MT76F005_040	W. F. Clearwater River	2010	Nitrogen (Total)
Middle Blackfoot	MT76F005_040	W. F. Clearwater River	2010	Phosphorus (Total)
Middle Blackfoot	MT76F005_060	Blanchard Creek	1990	Sedimentation/Siltation
Lower Blackfoot	MT76F006_010	Union Creek	1990	Solids (Suspended/Bedload)
Lower Blackfoot	MT76F006_010	Union Creek	1990	Temperature, water
Lower Blackfoot	MT76F006_010	Union Creek	2010	Iron
Lower Blackfoot	MT76F006_020	West Fork Ashby Creek	1988	Sedimentation/Siltation
Lower Blackfoot	MT76F006_031	Elk Creek	1988	Sedimentation/Siltation
Lower Blackfoot	MT76F006_040	Keno Creek	1996	Sedimentation/Siltation
Lower Blackfoot	MT76F006_050	East Fork Ashby Creek	1996	Sedimentation/Siltation
Lower Blackfoot	MT76F006_060	Camas Creek	1988	Sedimentation/Siltation
Lower Blackfoot	MT76F006_070	Belmont Creek	1992	Sedimentation/Siltation
Lower Blackfoot	MT76F006_090	Washoe Creek	1994	Sedimentation/Siltation
Lower Blackfoot	MT76F006_032	Elk Creek	2000	Temperature, water
Lower Blackfoot	MT76F006_032	Elk Creek	1988	Sedimentation/Siltation
Nevada Creek	MT76F007_020	Nevada Lake	1996	Oxygen, Dissolved
Nevada Creek	MT76F007_020	Nevada Lake	1996	Phosphorus (Total)
Nevada Creek	MT76F007_020	Nevada Lake	1996	Total Kjehldahl Nitrogen (TKN)
Bitterroot Headwaters	MT76H003_070	Buck Creek	2010	Sedimentation/Siltation
St. Regis	MT76M003_010	St. Regis River	2002	Temperature, water
St. Regis	MT76M003_010	St. Regis River	1990	Sedimentation/Siltation
St. Regis	MT76M003_020	Twelvemile Creek	2002	Temperature, water
St. Regis	MT76M003_020	Twelvemile Creek	1992	Sedimentation/Siltation
St. Regis	MT76M003_040	Big Creek	2002	Sedimentation/Siltation
St. Regis	MT76M003_040	Big Creek	1992	Temperature, water
St. Regis	MT76M003_070	Little Joe Creek	1992	Sedimentation/Siltation
St. Regis	MT76M003_080	N. F. Little Joe Creek	1992	Sedimentation/Siltation
Prospect Creek	MT76N003_020	Prospect Creek	2010	Sedimentation/Siltation
Prospect Creek	MT76N003_050	Clear Creek	2006	Sedimentation/Siltation
Prospect Creek	MT76N003_070	Dry Creek	2010	Sedimentation/Siltation



## **6.0 PUBLIC PARTICIPATION**

Federal and state laws require managing agencies to consult with the public when developing procedures or processes for assessing water quality and setting priorities for TMDL planning. Additionally, state law requires a 60-day public comment period for its draft water quality report mandated by the Clean Water Act (CWA). This section describes DEQ's communication with the public.

### **6.1 Public Consultation for 2010 303(d) List Development**

The 2000 303(d) List was first developed using procedures adopted to respond to the 1997 amendments to state water quality law. These procedures, especially the state's proposed assessment methodology, received careful public review. During the development of the 2000 303(d) List, DEQ obtained assistance and reviews from a wide array of state, regional, and national water quality assessment experts; consulted the Statewide TMDL Advisory Group (STAG); and discussed the proposals with a number of stakeholder groups around the state. Since the 2000 cycle, the assessment methodology has been incorporated into DEQ's Quality Assurance Program as a Standard Operating Procedure (SOP) (Bostrom, 2005). DEQ consulted with STAG before adopting the assessment process as an SOP.

While the assessment method is currently undergoing a revision during the 2010 cycle, it has previously undergone only one revision since its incorporation as an SOP in August 2006. DEQ is making these revisions to reflect recent changes to state Water Quality Standards (WQS), which themselves are subject to public review and approval by the Board of Environmental Review. Therefore, incorporation of these new WQS into the assessment method did not warrant additional public participation.

Due to delays in obtaining approval of the 2008 Integrated Report, and a revision of the assessment method, DEQ was unable to solicit the public for data to be considered in the development of the 2010 303(d) List. Instead, DEQ opted to use requests for reassessment, reviews of existing assessments obtained throughout the 2008 cycle, and comments received on the 2008 Integrated Report as guidance for obtaining data in this reporting cycle.

### **6.2 Public Comment for the 2010 Integrated Report**

After the initial public review draft was released on September 13, with a November 12<sup>th</sup> end date, errors were discovered with some data entry and the recording of some assessment information. The draft report was revised correcting errors and omissions and the comment period was extended until November 20, 2010. The corrected document was noted as "Revised September 22, 2010."

Legal notices were placed in five major Montana newspapers, giving formal notice of the comment period. The comment period is also made public through press releases issued to Montana's media outlets; posting on DEQ's Website; and e-mails distributed to DEQ's Integrated Report Listserv and the Montana Watershed Listserv, hosted by the Montana Watercourse.

DEQ submits materials for the 2010 Integrated Report to EPA via electronic database, document text, Geographic Information System (GIS) map files, and an electronic version of assessment files. The files are also available from DEQ’s Clean Water Act Information Center (CWAIC) website, at <http://www.cwaic.mt.gov>, which can be viewed by anyone with Internet access. Through the CWAIC site, the public was able to submit comments to DEQ electronically. They could also send them through the mail.

All comment period announcements identified both the standard mailing address (below) and the CWAIC website (<http://www.cwaic.mt.gov>) for submitting comments to DEQ.

Department of Environmental Quality  
 2010 Integrated Report Comments  
 WQPB, IMTS  
 PO Box 200901  
 Helena, MT 59620-0901

Comments received within the comment period were copied, filed internally, reviewed by the Integrated Report Coordinator, and distributed to appropriate staff or managers to address and respond to the commenter’s questions and comments.

For the 2010 comment period there were 11 comments received via electronic submittal (CWAIC), or standard mail methods. DEQ has respectfully removed names of individuals with the intent to protect their privacy, but have included agency or organization information where feasible. **Table 6.1** lists each commenter and date received.

**Table 6.1. List of Comments**

Comment Number	Commenter	Date
1	Private Citizen	September 16, 2010
2	Private Citizen	September 16, 2010
3	Private Citizen	September 21, 2010
4	Private Citizen	September 21, 2010
5	Private Citizen	October 14, 2010
6	Plum Creek Timber	November 17, 2010
7	US Environmental Protection Agency	November 17, 2010
8	Yellowstone National Park, Yellowstone Center for Resources, Fisheries and Aquatics Section	November 18, 2010
9	TVX Mineral Hill, Inc.	November 18, 2010
10	Northern Plains Resource Council	November 19, 2010
11	Trout Unlimited	November 24, 2010

## 6.3 DEQ Responses to Public Comments

### Comment # 1

**Type:** Other  
**Commenter:** Private Citizen  
**Received:** September 16, 2010

#### Comment Text:

There are a lot of houses being built in the Helena valley. a. What is DEQ doing to ensure all the water demands can meet the number of houses proposed? b. What standards is DEQ implementing to ensure the safety of the groundwater supply? c. How does DEQ determine if a water system is adequate? d. How does DEQ determine if a water system is inadequate? e. How often does DEQ perform tests on these aquifers?

#### DEQ Response:

DEQ's Subdivision Program is charged with reviewing adequate water quality, quantity, and dependability of every subdivision proposal in the Helena Valley. The reviews are done under two sets of rules depending on whether the water supply systems are public (25 people 60 days per year or 15 connections) or private. Private systems have to prove adequate quantity and dependability according to the rules in 17.36.300 ARM and public systems have to meet the requirements in 17.38.100 ARM. Private systems and individual wells are only tested for water quality at the preliminary application time or at the desire of the homeowners. Public systems have monthly to yearly monitoring requirements for water quality as required by the Safe Drinking Water Act and administered by DEQ Public Water Supply Program.

Aquifer tests are assumed to be referring to actual pump testing of the aquifer and all new public wells and multi-user (3-14 connections) are required to be pump tested when drilled prior to being put into use to show adequate quantity. Individual and shared wells may have to show aquifer testing depending on the number of wells in the proposal and their location in the Helena Valley.

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### Comment # 2

**Type:** Other  
**Commenter:** Private Citizen  
**Received:** September 16, 2010

#### Comment Text:

The Water Quality Criteria used for copper is based on water hardness and outdated science. The US EPA as prescribed in the Clean Water Act developed a more scientifically sound method to establish water quality criteria for copper using the Biotic Ligand Model and in 2007 accepted this method and is recommending its use. See link <http://www.epa.gov/fedrgstr/EPA-WATER/2007/February/Day-22/w3007.htm>. I encourage the MT DEQ to adopt this superior method to establish water quality criteria for copper. I would be happy to assist the DEQ in this effort.

**DEQ Response:**

It is recognized that EPA published the Copper Biotic Ligand Model (BLM) in 2007 for use for Aquatic Life Water Quality Criteria by states and that the BLM approach appears to represent the future for metals water quality standards. The BLM is a more complex algorithm than the current standard, which is calculated based solely on ambient hardness. There is a need to resolve significant implementation issues prior to adopting the BLM. For example, current Montana aquatic life standards for Copper are based upon total recoverable analysis, while the BLM is based upon dissolved.

EPA suggests that states provide BLM as an option within its water quality standards. DEQ is very concerned with the implications of having two instances of a standard on the books that could derive different values for the same water. These issues of comparability occur because the BLM requires measurement of hardness, dissolved organic matter, pH, temperature, sulfates, sulfides, chlorides, sodium, potassium, and total alkalinity, whereas the current standard only requires hardness.

The difficulties of implementing this new approach to calculating a copper standard are perhaps best highlighted by the fact that no other state has yet adopted the BLM; there is reluctance on DEQ's part to be the first in the nation until there has been ample opportunity to understand how the BLM can be best implemented into DEQ programs.

There is a continued commitment to work with EPA, programs within DEQ, stakeholders and the Water Pollution Advisory Council toward a reasoned approach to implementing and adopting the BLM approach. Interested persons can engage with us on this process by directly contacting the water quality standards section, signing up on our "interested parties" list (<http://deq.mt.gov/wqinfo/Standards/default.mcp>), or by signing up to stay informed on issues before WPCAC (<http://deq.mt.gov/wqinfo/WPCAC/default.mcp>).

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**Comment # 3**

**Type:** Other  
**Commenter:** Private Citizen  
**Received:** September 21, 2010

**Comment Text:**

After reviewing your 2010 shapefiles, what are the following fields used for 1) COMPLETED\_ 2) DELISTED\_C When an Impairment is listed in the IMPAIRMENT field (MT41I002\_060, Lead [CFL 2000]) what does the [CFL 2000] mean?

**DEQ Response:**

The 2010 305(b) Assessment Unit GIS data is published as a shapefile with as much data for each Assessment Unit as possible. As a result, some of the shapefile fields contain more than one piece of information. To understand the data in each field it's important to review the Metadata that comes bundled with the shapefile as an .xml file.

The completed field includes the year that a TMDL was completed if one exists for that Assessment Unit.

The delisted field includes the year, cause (pollutant) that was been delisted from the 303(d) list (Waters in need of a TMDL) and the category it was delisted too. Delisting means that a TMDL was written for the waterbody-pollutant combination or the waterbody-pollutant combination was removed from the 303(d) list for other reasons that are explained by the category it was delisted too.

The impairment field includes the cause (pollutant) and the cycle first listed (CFL) of that cause.

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#### Comment # 4

**Type:** Other  
**Commenter:** Private Citizen  
**Received:** September 21, 2010

#### Comment Text

The 2010 303(d) Excel spreadsheet contains no information about TMDL project status. It simply lists "in progress," "scheduled", "unassigned." What are the time frames on "in progress" and "scheduled" TMDLs. are they months out, years out, decades? Where can I find detailed information about the schedule of a TMDL? I am particularly interested in the schedule for the Musselshell River.

#### DEQ Response:

The TMDLs that are “In Progress” are also the High priority TMDLs with a scheduled completion goal of 2012. These generally represent watersheds or planning areas where significant TMDL development effort has occurred and completion within the next few years is likely, or at least a reasonable goal. The Montana DEQ has determined that any greater scheduling detail within the Integrated Report is not desirable given the significant uncertainties in TMDL development based on our past experiences. Nevertheless, DEQ’s website (<http://deq.mt.gov/wqinfo/TMDL/TPAmap.mcp>) provides an updated map showing work in progress and areas where field monitoring is occurring, or has occurred, that can be applied toward TMDL development. DEQ’s website also provides contact names for “In Progress” TMDLs such that interested stakeholders can contact specific project managers for a given watershed and obtain updated status’ through time. For those TMDLs that are either “scheduled” or “unassigned,” completion goals would be beyond 2012 per this document (**Section 3.2.3**) since they all are defined as either medium or low priority.

Regarding TMDL development in the Musselshell River, there is no additional detail on completion schedule other than it is anticipated for completion after 2012 per this document. The priority of this TMDL planning area will likely be determined using the prioritization process defined in **Section 3.2.3** at some time in the future. Expressed interest in implementing water quality protection activities from local stakeholders can help increase the priority of the Musselshell TMDL work.

**Comment # 5**

**Type:** I am referencing specific information sources, which could affect assessments and/or priority rankings  
**Commenter:** Private Citizen  
**Received:** October 14, 2010

**Comment Text:**

DEQ, my comments are as follows 1) Under Table 5-3; MT41K004\_030; Freezout Lake - I am confused how it can be changed from Warmwater fisheries to coldwater. It is a very shallow lake that warms up quickly. I chatted with a FWP biologist and he also did not understand the change 2) In several areas there have been changes to TMDLs that have already been written, i.e. Tables 5-3; 5-5; 5-4 and Appendix D - I would think it would be useful to contact those watersheds that actively helped write the TMDLs so they would be aware of the proposed changes. I know it takes time away from other work but would help in the general collaborative effort DEQ strives to work on. 3) It would be nice to have a list of waterbodies that have never been assessed to know what their conditions are. If it does exist, please ignore my comment. 4) Lots of good work, so thanks to all who help work on our state waters. Thanks for considering my comments.

**DEQ Response:**

1) There was a clerical data entry error for Freezout Lake made in the 2002 Assessment Database where this waterbody was designated as a B-2 water use class. This waterbody is actually designated as B-1 water use classification in Montana's water quality standards (ARM 17.30.601(a)). B-1 waters, by definition, only support a coldwater fishery. DEQ will consider this comment and re-evaluate the use classification of this waterbody in the near future. Any change to a waterbody use class designation will be reported in the state's Water Quality Integrated Report issued after changes have been made official in the Administrative Rules of Montana. Changes to the Administrative Rules of Montana related to DEQ activities are done through the Montana Board of Environmental Review.

2) The changes reported in **Section 5, Tables 5-3, 5-4, and 5-5** were made for either administrative or data quality control reasons. DEQ reports any revisions, updates, or corrections to administrative boundaries, assessment units, assessment data, or assessment decisions in the Integrated Report as the means of communicating with interested stakeholders and partners in any and all watersheds in the state.

3) Waterbodies that DEQ's WQPB has not yet assessed are either (1) not defined in the Assessment Database (ADB), or (2) are defined in the ADB but in reporting category 3. Category 3 includes waters for which there is "Insufficient data to assess any use." To see if a waterbody has been assessed, query for a waterbody name at our CWAIC website (<http://cwaic.mt.gov>). If it is not in system the following message will be displayed on the Step 3 window "No records found for this query. Please alter your query above and submit again." To find those waters in category 3, select "3" from the Water Quality Category drop down window on the CWAIC Step 2 block of the data query window. There are currently 97 waterbodies with established records in the ADB that are in reporting category 3. In Step 3, you may refine your search to a specific county, HUC 4 basin, or TMDL Planning Area. Alternatively, you can select "Show Map" and all selected waterbodies will be displayed on a statewide map and each waterbodies' identity can be

queried by setting the “Sel 2010 Assessed Streams” or “Sel 2010 Assessed Waterbodies” as the active layer and using the Identify Results button (right of the “hand” on the tool bar).

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## Comment # 6

**Type:** Other  
**Commenter:** Plum Creek Timber Company  
**Received:** November 17, 2010

### Comment Text:

Please see attached letter.

### Comment Attachment:

1. I note the Departments updated finding that Lake Mary Ronan fully supports aquatic life and cold water fishery uses. Mary Ronan has a truly outstanding fishery, and it is nice to see the Integrated Report reflect this. In reviewing the assessment report for Lake Mary Ronan, I did note that several key data sources were missing. Foremost is a 1998 report by the University of Montana Flathead Lake Biological Station titled “*Baseline water quality study of Little Bitterroot, Mary Ronan, Ashley and Lindbergh Lakes, Montana*” by Ellis et al. It is listed as Open File Report 148-98 in the Biostation archives. This study was funded by Plum Creek and includes lake and tributary data collected in 1996 and 1997. While I agree with the Department’s full support finding, I believe there is little evidence of a declining trend in conditions. In fact, available information strongly suggests otherwise. The Lake Mary Ronan Watershed Cooperative includes Plum Creek, Montana DNRC, Flathead National Forest, and Montana FWP and has been meeting periodically for 25 years. A 2006 visit also included Jim Bond with the Department. Photopoints established in 1986 and repeated thereafter at numerous locations in the watershed clearly show improving trends in tributary conditions. This has resulted from improved range management (fencing cattle off the lakeshore), terminating poor-performing grazing leaseholders, fencing vulnerable stream reaches, riparian plantings, road drainage improvements, and more. I would be happy to provide the Department more information as necessary to improve the assessment record.

### DEQ Response:

In the 2010 Final Integrated Report Lake Mary Ronan is reported as Threatened (Category 4C) for aquatic life and coldwater fishery, which is the correct listing. The 2006 & 2008 cycle listings were incorrect due to a clerical data entry error in 2006 and was not identified in 2008, as is shown below in the listing history of this waterbody:

Cycle	Aquatic Life & Coldwater Fish Uses Support	Probable Cause	Listing Category <sup>1</sup>	Comment
2000	Threatened	Algal Growth/Chlorophyll <i>a</i>	303(d) - yes	
2002	Threatened	Algal Growth/Chlorophyll <i>a</i>	303(d) - yes	
2004	Threatened	Algal Growth/Chlorophyll <i>a</i>	5	
2006	Non Supporting	Chlorophyll <i>a</i>	5	Listing Error
2008	Non Supporting	Chlorophyll <i>a</i>	4C	Listing Error
2010	Threatened	Chlorophyll <i>a</i>	4C	Corrected Listing

<sup>1</sup> Prior to the 2004 reporting cycle, DEQ noted causes on the 303(d) list with a simple “303(d) – yes” notation on the waterbody assessment summary report. From 2004 to present, the state has complied with EPA’s categorical listings where pollutant causes are placed in Category 5 (303(d) list) and pollution causes are placed in Category 4C. In 2008, the state changed the designated Chlorophyll *a* to pollution as a TMDL cannot be crafted specifically for this pollution cause.

The listing was corrected for the 2010 Integrated Report to the same as on the 2000 303(d) List – aquatic life and coldwater fishery uses Threatened with Chlorophyll *a* noted as the Probable Cause of impairment since this was the last full assessment of the waterbody.

DEQ currently has the 2012 reporting cycle Call For Data open through February 28, 2011 and would encourage Plum Creek Timber Company to submit the referenced data and information, and associated project planning documents, via the Call For Data process. Information regarding how to submit data for use in water quality assessments can be accessed at DEQ’s Clean Water Act Information Center website (<http://cwaic.mt.gov>) where a link to the Call For Data information is available [link text: “[2012 Cycle Call For Data is now open. \(11/3/2010 – 2/28/2011\)](#)”].

DEQ will evaluate any data and information submitted for Lake Mary Ronan based on our data quality assessment (DQA) process in the near future.

2. The Department collected significant water quality data on Swift Creek during the 2010 field season to help improve the beneficial use support decision. I hope this information can be analyzed in time to be reflected in the final 2010 Integrated Report.

#### **DEQ Response:**

Water quality data collected in Swift Creek during 2010 field season and the update on the assessment record would not be available for the 2010 Final Integrated Report. The reasoning for this is that the timing of report development and publication did not allow for all the collected data to be returned from the water quality and biological laboratories in time for an assessment to be conducted. However, a revised assessment will be conducted and available for the 2012 Integrated Report.

3. The draft report includes several streams for which TMDLs have been prepared as Category 4A in the Upper Lolo Creek TMDL area. Several of these TMDLs (Lost Park, Lee, and East Fork Lolo) were approved by EPA as “preventative” and the EPA approval letter found them to be “not impaired.” In light of this, I believe these three streams should be more appropriately reclassified in the final 2010 report as Category 1 and the 303(d) listing updated to reflect full support of aquatic life and cold water fishery uses.

**DEQ Response:**

An EPA TMDL approval letter that suggests a waterbody is not impaired while the state's assessment decision indicates otherwise does not override state listing decisions. Only an update to the waterbodies' assessment by the state applying its current assessment method to new data and information can revise or update the use support status. EPA may, however, disagree with a state's decision of full use support where it feels use impairment is indicated.

The Upper Lolo TMDL was developed during 2002-2003 timeframe and approved by EPA in June 2003. Waterbody assessments conducted on the referenced waters after the 2003 TMDL document clearly indicate impairment to aquatic life and coldwater fisheries uses from sediment/siltation. The listing status of these waterbodies will remain as 4A at this time.

Waterbody	Assessed Date	2010 Cycle Listing Status	Category
E.F. Lolo Creek	07/11/2005	Sedimentation/siltation, CFL 1990	4A
Lost Park Creek	07/13/2005	Sedimentation/siltation, CFL 1992	4A
Lee Creek	05/01/2006	Sedimentation/siltation, CFL 2002	4A

**Comment # 7**

**Type:** Other  
**Commenter:** U.S. Environmental Protection Agency  
**Received:** November 17, 2010

**Comment Text:**

EPA comments on DEQ's Draft Integrated Report.

**Comment Attachment:****I. Pollutant versus Pollution**

In the footnote on page 14, DEQ states that "an impairment is considered pollution if the cause cannot be described as a mass / unit load (e.g., lbs / day), bio-assessment related causes excepted. Conversely, a pollutant can be measured as a mass/unit load". However, EPA's expectation is that waters are placed on the 303(d) list of impaired waters if they fail to meet water quality criteria associated with that use. 40 CFR 130.7(b) specifies that the 303(d) list represents waters not meeting their applicable water quality standard and 40 CFR 130.7(b)(3) explicitly defines the term "applicable water quality standards" as including numeric and narrative criteria, waterbody uses and antidegradation requirements. Therefore, waters impaired based on an exceedance of the water quality standard should be listed in Category 5 (CWA Section 303(d) list) of the IR until such time that DEQ determines the underlying cause of impairment. Total Maximum Daily Loads would be developed for impairments caused by pollutants. For parameters such as DO or chlorophyll-a, the underlying cause of the impairment is often associated with nutrients and/or temperature. Therefore, waters impaired for dissolved oxygen, chlorophyll-a, and biology should be placed in Category 5 and not automatically default to Category 4c, as currently proposed by DEQ.

**DEQ Response:**

40 CFR 130.7(b) did not contemplate the integrated reporting format EPA employs today. If it had, by EPA's own comment and strict citation interpretations, the waters in

categories 4A, 4B, 4C, and 5 would all be considered water quality limited segments and comprise a state's CWA §303(d) list. For example, in Category 4A the administrative action of completing all necessary TMDLs does not remove the designation of the subject water as a water quality limited segment if the control actions necessary to achieve water quality standards (e.g., numeric and narrative criteria, uses, and antidegradation) have not been implemented.

Instead of attempting to respond to ever changing reporting guidance and data grouping schemes by EPA, DEQ uses the ability to designate pollutants and pollution within EPA's Assessment Database (ADB) to establish the base (known) workload for the TMDL development by its Watershed Management work unit. Other ADB reporting options, such as pollution designation and observed effects, provide DEQ with the ability to identify potential or suspected issues to EPA and the public and plan robust sampling events to collect additional (empirical) data prior to evoking the TMDL requirement associated with CWA §303(d) designation. This is clearly allowed in EPA's policy on independent applicability (EPA 2002) which states, "EPA recognizes that there are circumstances when conflicting results should be investigated further before the attainment or nonattainment decision is made."

## II. Assessment Methodology

40 CFR 130.7(b)(6)(i) requires that states include a description of the assessment methodology used for making listing decisions in the submission of the State CWA Section 303(d) list. Montana's 2010 Integrated Report does not include a detailed assessment methodology (AM) and therefore is insufficient for EPA to understand DEQ's current assessment process. For the final IR, please provide additional details on the State's assessment methodology and address the following items:

- Page 24 of the Draft 2010 IR mentions DEQ's revised data quality assessment (DQA) process. What is the revised DQA process and is DEQ already following it?
- Does the current assessment methodology describe how a "threatened" determination is made?

This information will help us understand the State's process used to make attainment decisions for the 2010 Integrated Report.

### DEQ Response:

The Data Quality Assessment (DQA) process described in the 2010 Integrated Report is currently being developed by DEQ but has not yet been applied. The revised assessment methodology will be implemented during the 2012 listing cycle following a public review period.

DEQ does not have decision rules in the assessment methodology that describe how a "threatened" determination is made. Any threatened listings appearing in this instance of the Integrated Report are carryovers from threatened listings made in the 1990-2000 era.

## III. Lack of Data Solicitation

In developing Section 303(d) lists, EPA's approval letter specifies that:

"states are required to assemble and evaluate all existing and readily available water quality-related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters: (1) waters identified as not meeting designated uses, or as threatened, in the State's most recent CWA Section 305(b) report; (2) waters for which dilution calculations or predictive modeling indicate nonattainment of applicable standards; (3) waters for which

water quality problems have been reported by governmental agencies, members of the public, or academic institutions. These organizations and groups should be actively solicited for research they may be conducting or reporting... ; and (4) waters identified as impaired or threatened in any Section 319 nonpoint assessment submitted to EPA." (See 40 CFR 130.7(b)(5)) (emphasis added)

On Page 59 of the Montana's Draft 2010 Integrated Report (IR), DEQ acknowledges that "DEQ was unable to solicit the public for data to be considered in the 2010 list". EPA expects that Montana will appropriately evaluate any data received during the public comment period consistent with 40 CFR 130.7(b)(5).

**DEQ Response:**

DEQ will evaluate any data submitted during public comment period and will revise assessments if data submitted satisfy the quality system requirements of DEQ's Quality Management Plan (DEQ 2008).

Also, as noted in other responses, DEQ is currently in the open call for data for the next (2012) reporting cycle [link text: "[2012 Cycle Call For Data is now open. \(11/3/2010 – 2/28/2011\)](#)"]. In this call, DEQ has established explicit quality guidelines for data used in assessments as allowed by 40 CFR 130.7(b)(6)(iii)

These are as follows:

1. Data must be less than 10 years old.
2. Written documentation such as a Quality Assurance Project Plan (QAPP) and/or Sampling and Analysis Plan (SAP) that clearly describes the following information:
  - a. Monitoring objective;
  - b. Data quality objectives;
  - c. Study design, including the rationale for the selection of sampling sites, water quality parameters, and sampling frequency, as well as the project controls that assured the actual sampling met the intended design;
  - d. Field and laboratory sample collection and analytical methods;
  - e. QA/QC requirements; and
  - f. Data analysis including the verification and validation processes.
3. Written assurance or QA/QC documentation demonstrating that the procedures and methods written in the QAPP and SAP were followed to support the conclusion that the results are reproducible and that data requirements were met.
4. Any field notes, laboratory notations or summaries that indicate deviations from the QAPP or SAP and their potential impact on the data quality and objective outcome.
5. Data must be linked to a particular site on a particular waterbody and the location information (i.e., latitude/longitude) must be included with the data.

**IV. Waters Delisted by Exceedances Caused by Natural Sources**

DEQ defines Category 2b waters as waters where the "available data and/or information indicate that a water quality standard is exceeded due to an apparent natural source in the absence of any identified human sources." Between 2008 and 2010, DEQ conducted additional field investigations on seven of the 2b waters listed in the 2008 IR (Table 4-3). The waterbody segments are Beaver Creek, Cherry Creek, Lodgepole Creek, Sawlog Creek, Arrow Creek, Cottonwood Creek and Larb Creek. Based on our review of the supporting information, we recommend that the following three waterbody segments: Arrow Creek, Larb Creek, Cottonwood Creek remain on

the 2010 303(d) list. For the other four waters, EPA agrees with DEQ's delisting rationale that the "state determines water quality standard is met" based on new data which showed no exceedances of the water quality standard. We recommend that DEQ update the language on page 29 of the IR to match the information presented in the Clean Water Act Information Center (CWAIC) Assessment Records.

**DEQ Response:**

Arrow Creek, Cottonwood Creek, and Larb Creek will remain on the 2010 303(d) List in category 5/2b as previously listed on the 2008 Water Quality Integrated Report.

**V. Assessment Unit Splits**

Table 5-1 (pages 39-42) summarizes the assessment unit changes made between 2008 and 2010. What is the State's procedure for determining when an assessment unit can be modified? Is there documentation that describes these procedures?

**DEQ Response:**

Historically (i.e., 2000-2006), assessment unit (AU) modifications most often occurred in response to identified mapping errors, the identification of multiple use classes along one AU, or were requested by monitoring and assessment staff conducting water quality assessments. Typically, staff change requests coincided with geomorphological changes or at significant confluences. There were, however, no formally established criteria or processes until the 2006 reporting cycle when the Water Quality Planning Bureau's Data Management Section implemented an Assessment Unit Change Request Form. The form served primarily as a method of tracking and documenting AU changes for TMDL tracking purposes and as means to ensure the requestor provided sufficient information and metadata about the requested change to Data Management staff.

During the current reporting cycle, the bureau established end point criteria for its segment-based assessment units (provided below) to guide the standardization of existing assessment units and ensure that newly created assessment units would not likely be changed once established. All existing AUs were evaluated against these criteria during the bureau's conversion to the 1:24,000 scale high-resolution hydrography for mapping (refer to **Section 2.2.1** of this report). With the existing AUs adjusted to these criteria, reasons for modifying AU end points in the future should be limited, but not constrained, to where a water use classification change point shifts location.

**AU End Point Criteria:**

- An assessment unit cannot be an adit
- The minimum length of a segment shall be 2 miles
- The maximum length of a segment shall be 140 miles.
- End points must be coincident with:
  - Use class change
  - HUC boundary
  - Confluence of streams with equal Strahler order
  - A dam
  - Boundary of a lake or reservoir that is has a size of at least 5 acres

**Additional Guidance for AU End Points:**

- End points may/should be located at changes in geomorphology (e.g., valley confinement)
- End points may/should be located at confluences where the difference in stream order is no greater than one
- End points may/should be located at changes in Ecoregion III

One notable constraint to modifying an assessment unit is where EPA-approved TMDLs exist. In these cases, modifying the AU creates significant data management issues since TMDLs are tracked by assessment unit-pollutant identifiers in EPA's National TMDL Tracking System (NTTS). Due to the complexities involved, the bureau opts to retain "non-conforming" assessment units in lieu of potentially disrupting the tracking of approved TMDLs. One example of this is the West Fork Bitterroot River (MT76H003\_010). This AU was defined from headwaters to its mouth and included Painted Rocks Lake, a man-made reservoir. It also has an established approved TMDL. The TMDL for sediment/siltation, however, only applies to the river so the bureau extracted Painted Rocks Lake as a unique assessment unit (MT76H003\_011) creating a "split" assessment unit for the West Fork Bitterroot River above and below the reservoir.

**Historical Notes on Montana Assessment Units:**

Assessment units (AUs), as defined with unique alpha-numeric identifiers, were first established for the 1990 305(b) report where stream segments were published with associated waterbody ID numbers (Water Quality Bureau, Department of Health & Environmental Sciences, 1990). However, there is no explicit discussion in the 1990 report (or previous 305(b) reports going back to 1976) that provides details on how these segments were established or waterbody IDs assigned. The 1992 Water Quality Report (Montana Department of Health and Environmental Science, 1992) provides the first explicit reference to the waterbody tracking system (WBS v 3) that employed the waterbody IDs and notes that EPA's contractor, Research Triangle Institute (RTI) in North Carolina, performed the transfer of data to the program's new data system provided by EPA. The 1992 report also notes that EPA performed a nation-wide revision of stream mapping, applying assessments to the newer River Reach File hydrography (RF3) at a scale of 1:100,000. The waterbody IDs established by RTI employed the old USGS basin subdivision classifications (pre-dating the present hydrologic unit codes). The state's 1994 305b report (Montana Department of Health and Environmental Science, 1994) provides some explanation as to how the waterbody ID numbers are assigned, applying unique numbers to the mainstem of the predominant stream for a basin subdivision, then related numbers to tributaries, and lakes within the watershed. However, no explicit documentation of how a waterbody segment's end points were determined is provided in any of these previous reports.

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**Comment # 8**

**Type:** I am providing information, which could affect assessments and/or priority rankings.  
**Commenter:** Yellowstone National Park, Yellowstone Center for Resources, Fisheries and Aquatics Section  
**Received:** November 18, 2010

**Comment Text:**

Staff at Yellowstone National Park were surprised to see the Yellowstone River on Montana's 303(d) list. We were further surprised to see that this assessment was based on a paucity of data. In your assessment record for 2010 you confirm that "very little data available for this segment". Your assessment appears to hinge on two sampling events. On 5/30/03 copper and lead exceeded aquatic life standards, but on 9/15/03 both were below detection limits. Arsenic exceeded the human health standard only on 5/30/03. Two sampling events surely do not meet the standards of "sufficient data". The biological assessment was based on limited fish abundance data directly downstream of segment MT43B001\_11. Yellowstone National Park has conducted water quality sampling on the Yellowstone River at Corwin Springs since 2006. Parameters include ammonia, nitrate as N and TSS. In 2009 arsenic, copper, iron, and selenium were added to the sample schedule and 4 samples were collected between July and October. During this time concentration ranges were for arsenic (0.014-0.029 mg/L) and copper (< 0.005). Total suspended solids ranged from 2.0 mg/L in October to 39.0 mg/L in June. The Yellowstone River receives large upstream thermal inputs which are known to be high in arsenic. In addition, these thermal areas likely to contribute greatly to the overall acidity of the stream and affect water chemistry and pH, particularly during low flow periods. Results for arsenic did exceed the drinking water standard in 4 of 4 samples. Summary statistics for the parameters of interest are attached in file; Yellowstone River Corwin Springs 2006-2009.xsl. Is it reasonable to require a TMDL for a segment of river wholly contained within a national park? I would propose than any exceedances of standards be attributed to "natural causes" and that this segment of the Yellowstone River be put into category 2B (available data and/or information indicate that a water quality standard is exceeded due to an apparent natural source in the absence of any identified human sources) and removed from Montana's 303(d) list of impaired waters requiring TMDLs.

**DEQ Response:**

DEQ acknowledges the receipt of the data submitted, however there was no metadata provided that allows for the determination of the quality controls in place to ensure the data's rigor for 303(d) listing decisions. DEQ assumes that Yellowstone National Park's monitoring program operates under a rigorous quality system that controls for data quality. DEQ requests that the Park Service submit these data, and associated project planning documents, via DEQ's Call For Data process, which is open for the 2012 reporting cycle through February 28, 2011. Information regarding how to submit data for use in water quality assessments can be accessed at DEQ's Clean Water Act Information Center website (<http://cwaic.mt.gov/>) where a link to the Call For Data information is available [link text: "[2012 Cycle Call For Data is now open. \(11/3/2010 – 2/28/2011\)](#)"].

DEQ will evaluate the data to be submitted for this segment of the Yellowstone River (MT43B001\_011) based on our data quality assessment (DQA) process for the 2012 Water Quality Integrated Report.

Regarding listing categories', a pollutant (e.g., copper) assigned by DEQ to Category 2B, is also placed in Category 5 by the listing rules implemented in EPA's Assessment

Database used by DEQ for recording and reporting assessments decisions to EPA. By EPA definition, category 5 is the state's 303(d) list.

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### **Comment # 9**

**Type:** Other  
**Commenter:** TVX Mineral Hill Mine  
**Received:** November 17, 2010

#### **Comment Text:**

TVX Mineral Hill, Inc. believes that the stream was inaccurately listed as impaired for temperature and flow alteration, based on DEQ data as well as data collected by TVX. TVX intends to submit data in support of the 2012 assessment. TVX respectfully requests that the agency reassess the listing for MT43B002\_021.

#### **DEQ Response:**

Based on the available information to be submitted by TVX Mineral Hill, Inc, DEQ will evaluate the data submitted for this segment of Bear creek (MT43B002\_021) following our data quality assessment (DQA) process for the 2012 Water Quality Integrated Report.

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### **Comment # 10**

**Type:** I am providing information, which could affect assessments and/or priority rankings.  
**Commenter:** Northern Plains Resource Council  
**Received:** November 19, 2010

#### **Comment Text:**

Our comments are attached

#### **Comment Attachment:**

Northern Plains Resource Council (Northern Plains) submits the following comments on the Draft 2010 Water Quality Integrated Report.

Northern Plains is a grassroots conservation and family agriculture group. We organize Montana citizens to protect our clean water, family farms and ranches, and unique quality of life. These comments are submitted on behalf of the organization and our members, especially those who own property and reside in Montana counties downstream of the proposed discharges. These members are dependent on ground and surface waters for their livelihoods as farmers and ranchers.

We believe that Spring Creek, Squirrel Creek, and Badger Creek should be included in Appendix A, Impaired Waters, of the report.

#### **DEQ Response:**

DEQ will evaluate the current available data and information for these referenced waterbodies following our data quality assessment (DQA) process for the 2012 Water Quality Integrated Report. If the Northern Plains Resource Council has data or information

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for these waterbodies that they would like to submit, they may do so during DEQ's 2012 reporting cycle Call For Data, which is open through February 28, 2011. Information regarding how to submit data for use in water quality assessments can be accessed at DEQ's Clean Water Act Information Center website (<http://cwaic.mt.gov>) where a link to the Call For Data information is available [link text: "[2012 Cycle Call For Data is now open. \(11/3/2010 – 2/28/2011\)](#)"]

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## Comment # 11

**Type:** I am providing information, which could affect assessments and/or priority rankings.  
**Commenter:** Trout Unlimited  
**Received:** November 24, 2010

### Comment Text:

I appreciated your taking the time to call and chat about Trout Unlimited's position on the 2010 Draft Integrated Report. I appreciated your commitment to revisiting DEQ's policy toward flow limitations and your willingness to share our concerns with your staff. Because low stream flows exacerbate almost all impairments to water quality in Montana, we believe that DEQ should assume a leadership role that facilitates collaborative, non-regulatory flow restoration with other experts in flow restoration and watershed organizations throughout the state. DEQ has an opportunity to substantially improve water quality in Montana by integrating discussions of flow impairment in the Integrated Report, in TMDL planning processes, and encouraging innovative, non-regulatory flow restoration in its Watershed Restoration plans.

As I stated in our conversation, our primary concern with respect to the Draft Integrated Report is the fact that diminished streamflows play a prominent role in water quality impairments in Montana, yet the Department appears adverse to addressing flow impairments in the Integrated Report and in TMDL development. While we recognize the limits of DEQ authority pertaining to water allocation and the limits of staff time and resources, we believe that DEQ should work synergistically with agencies like Fish, Wildlife and Parks and the Department of Natural Resources and Conservation (DNRC); organizations like TU's Montana Water Project; and local watershed groups to integrate non-regulatory flow restoration into TMDL and Watershed Restoration Planning.

Flow impairments underlie almost all water quality impairments in Montana. In Table 4-4 of the draft Report, the top four causes of water quality impairment include sediment, altered streamside vegetation, low flow alterations, and phosphorus. Not only are low flow alterations listed as a prominent cause of impairments, but it underlies each other cause. Sedimentation is caused by a combination of erosion and exceeding the ability of stream flows to carry it. Streamside vegetation stabilizes eroding banks and traps sediments and depends on both high flow to recharge groundwater and sustaining flows through the late summer. Nutrients and pollutants such as phosphorus are more highly concentrated when flow volumes diminish. Water temperatures are elevated when flows decrease which promotes algae growth and low dissolved oxygen concentrations. Furthermore, Table 4-7 indicates 70-75% of stream miles assessed were not supporting aquatic life and coldwater fisheries beneficial uses. To say that DEQ has no authority to address flow limitations is to concede that the neither the spirit nor legal requirements of the Clean Water Act can ever be met and that 70-75% of Montana's streams will never fully support beneficial uses of aquatic habitat and coldwater fisheries.

DEQ apparently bases its reluctance to address flow limitations on two fronts. First, DEQ appears to have misinterpreted the Dodson letter to preclude it from addressing flow limitations. Second, water allocation is politically contentious. In our comments regarding the Shields TMDL, we stated our belief that the Dodson letter, on which DEQ rests its policy of not addressing temperature or flow impairments, merely stated that a TMDL for

flow impairments was not necessary on Big Creek. Nowhere in the letter does it preclude DEQ from developing a TMDL for water temperatures or flow impairments. In fact, the Dodson letter reiterates that TMDL's for thermal impairments (also related to flow impairments) are necessary. We respectfully request that DEQ revisit its policy based on the Dodson letter of excluding flow impairments from TMDL and watershed restoration planning.

We recognize that water allocation is a contentious political issue, yet many agencies and organizations have managed to work closely with local watershed groups and irrigators on a voluntary basis to address flow limitations. For example, TU's Montana Water Project has been engaged in solving instream flow dilemmas throughout the Blackfoot, Upper Clark Fork, Sun, Jefferson, Ruby, Big Hole, Gallatin, and upper Yellowstone watersheds for over a decade. Montana Fish, Wildlife, and Parks and the Clark Fork Coalition are also leaders in non-regulatory flow restoration relying on voluntary participation. By steering clear of flow allocation issues altogether, DEQ misses an opportunity to create synergism among diverse partners working with watershed groups to address low flows and the water quality impairments low flows exacerbate.

We believe that DEQ must acknowledge the role flow impairments play in degrading Montana's water quality and that DEQ can address flow impairments synergistically through non-regulatory partnerships with watershed groups, agencies and conservation organizations. The current policy of ignoring flow limitations in TMDL and watershed restoration planning only concedes that water quality can never be restored on 70-75% of Montana's flow impaired stream miles.

We believe that DEQ can advance its statutory mission to restore water quality in impaired streams by openly discussing low flow impairments at each stage of its processes, from a frank discussion of flow impairments and effects on water quality in its Integrated Report, to encouraging development of nonregulatory flow targets for TMDL's, and funding flow restoration projects through the 319 grant program. We believe that non-regulatory, voluntary flow restoration will substantially improve water quality and is complimentary with DEQ's administration of the Clean Water Act.

**DEQ Response:**

DEQ is encouraged by the opportunity for constructive dialogue that Trout Unlimited's (TU) comment presents. DEQ agrees that many opportunities exist to work synergistically with other agencies and organizations in a non-regulatory capacity to mitigate flow related issues in Montana.

In general, DEQ addresses flow in TMDLs through the pollutant capacities expressed for the waterbody. Thermal TMDLs usually have the strongest link to streamflow because the heat capacity of the waterbody is reduced by loss of instream flow, particularly where flow modulating features, such as headwater and floodplain wetlands, have been lost. Flow potential is also reduced where consumptive uses have not been optimized. Examples of these may include inefficient irrigation networks and practices. During TMDL development modeling scenarios are typically developed to determine if irrigation inefficiencies contribute to a significant temperature increase given static thermal inputs. Targets for irrigation efficiencies are also provided where appropriate.

As noted in TU's comment, there are limits to DEQ authority with regard to water allocation. Targets expressed within a TMDL for increases in irrigation efficiency, while valuable for identifying irrigation systems that could be improved, remain strictly voluntary.

DEQ believes that the most effective venue for addressing watershed-scale flow limitations is the watershed restoration plan. A watershed restoration plan is an implementation plan that includes, but is not limited to, the TMDL. Because watershed restoration plans are broader in scope than TMDL pollutant issues, additional opportunities exist for all stakeholders to work synergistically to develop local solutions that are expected to achieve restoration goals.

The majority of TU’s comment focuses on the construct of the 303(d) listing and TMDL process. DEQ appreciates the valuable feedback from TU and is committed to continuous improvement in the representation of the state’s waters in the Integrated Report, TMDL solutions, and watershed restoration plans. DEQ also asks that partner organizations, like TU, not lose sight of the potential represented by MCA 75-5-703(5). This section of the Montana Water Quality Act directs the department to, “...provide assistance and support to landowners, local conservation districts, and watershed advisory groups for interim measures that may restore water quality and remove the need to establish a TMDL...”

## 6.4 Report Changes Made Prior to Final Report

### 6.4.1 Data Edits in Response to Public Comments

Lake Mary Ronan, MT76O004\_020 (Comment # 6). The listing status was reset to Full Support, Threatened (cause = Chlorophyll *a*) for Aquatic Life and Coldwater Fish. This was the listing status in 2000, the last assessment for this waterbody.

Arrow Creek, MT41R001\_020 (Comment # 7). Iron was relisted as a cause of impairment for Aquatic Life and Warmwater Fish. This listing returns Arrow Creek into Category 5/2B.

Cottonwood Creek, MT40J005\_020 (Comment # 7). Iron was relisted as a cause of impairment for Aquatic Life and Warmwater Fish. This listing returns Cottonwood Creek into Category 5/2B.

Larb Creek, MT40M002\_020 (Comment # 7). Copper and lead were relisted as causes of impairment for Aquatic Life and Warmwater Fish. This listing returns Larb Creek into Category 5/2B.

### 6.4.2 Data Edits Made in Response to DEQ QC Activities

Several data edits were done by DEQ during the public comment period. These edits were identified and corrected through internal Quality Control activities. The table below lists the edits, while the paragraphs in this sub-section describe in detail those edits.

**Table 6-2. DEQ Quality Control Edits during Public Comment**

305(b) ID	Waterbody Name	Edit
MT41H003_131	Hyalite Creek	Data elements changed to copy MT41H003_129 instead of MT41H003_130
MT41H003_134	Hyalite Creek	AU ID changed back to MT41H003_132

**Table 6-2. DEQ Quality Control Edits during Public Comment**

<b>305(b) ID</b>	<b>Waterbody Name</b>	<b>Edit</b>
MT41H003_133	Hyalite Reservoir	Removed because it was a duplicate
MT41J002_010	North Fork Smith River	AU ID changed back to MT41J002_012
MT41J002_013	Mizpah Creek	Data elements changed to copy MT42J005_012 instead of MT42J005_010
MT41H003_133	Lake Sutherlin	Data elements removed and status changed to “Un-Assessed”
MT41U001_011	Belt Creek	AU location modified by moving start point AU upstream
MT76H003_010	West Fork Bitterroot River	Split of AU reverted back to original AUs MT76H003_011 and MT76H003_013
MT41G002_010	Big Pipestone Creek	Solids (Suspended/Bedload) cause changed back to Total Suspended Solids (TSS) as it was in the 2008 cycle
MT40R003_010	Medicine Lake	Nickel cause corrected back to Lead as it was in 2008 cycle
MT41G002_141	Little Whitetail Creek	AU changed to Category 3, “Not Assessed” as it was a newly created assessment in 2010
MT41G002_140	Whitetail Reservoir	AU changed to Category 3, “Not Assessed” as it was a newly created assessment in 2010
	All Lakes and Reservoirs	Correction in Lake and Reservoir area.

Before the Draft Integrated Report was published, Hyalite Creek, MT41H003\_130 was split from Hyalite Creek, MT41H003\_131 and received all of the data elements from the 2008 Cycle MT41H003\_131. During an internal quality control process this was found to be an error. Because of the location, it should have been split from the 2008 cycle Hyalite Creek, MT41H003\_129. During the public comment period the data for Hyalite Creek, MT41H003\_130 was changed to reflect the 2008 cycle Hyalite Creek, MT41H003\_129. These edits included a change of the use class of Hyalite Creek, MT41H003\_130 from B1 to A1.

Before the Draft Integrated Report was published, Hyalite Creek, MT41H003\_134 was split from Hyalite Creek, MT41H003\_132 and received all of the data elements from the 2008 Cycle MT41H003\_132. During an internal quality control process this was found to be an error. Hyalite Creek, MT41H003\_134 had no changes in location from the 2008 Cycle MT41H003\_132. During the public comment period the assessment unit ID for Hyalite Creek, MT41H003\_134 was changed back to MT41H003\_132. No other changes were made to the assessment unit data.

Before the Draft Integrated Report was published, a new Hyalite Reservoir, MT41H003\_133 was created in the 2010 cycle. During an internal quality control process this was found to be an error because an assessment unit already existed for the same waterbody with a different assessment unit ID, Hyalite Reservoir, MT41H006\_010. Hyalite Reservoir, MT41H003\_133 was deleted to correct the error.

Before the Draft Integrated Report was published, North Fork Smith River, MT41J002\_010 was split from Smith River North Fork, MT41J002\_012 and received all of the data elements from the 2008 Cycle MT41J002\_012. During an internal quality control process this was found to be an error. North Fork Smith River, MT41J002\_010 had no changes in location from the 2008 Cycle MT41J002\_012. During the public comment period the assessment unit ID for North Fork Smith River, MT41J002\_010 was changed back to North Fork Smith River, MT41J002\_012. No other changes were made to the assessment unit data.

Before the Draft Integrated Report was published, Mizpah Creek, MT41J002\_013 was split from Mizpah Creek, MT42J005\_010. During an internal quality control process, Mizpah Creek, MT42J005\_012 was found to be missing an Agriculture use support designation of “Not Supporting” caused by “Salinity” that the original assessment unit, MT42J005\_010 included. During the public comment period the Agriculture use support designation of MT42J005\_012 was changed to match the use support designation of the 2008 Mizpah Creek, MT42J005\_010.

Before the Draft Integrated Report was published, a new Lake Sutherlin, MT41H003\_133 was split from Smith River North Fork, MT41J002\_012. During an internal quality control process this was found to be an error. Lake Sutherlin, MT41H003\_133 should not have been split from an existing assessment unit; it should have been created as a new, un-assessed assessment unit. During the public comment period all assessment data was deleted from MT41H003\_133 to make it a new, un-assessed assessment unit.

During the public comment period an internal quality control process identified that the start point of the Belt Creek assessment unit, MT41U001\_011, needed to be extend ten miles to the headwaters of Belt Creek for TMDL development that was in progress.

Before the Draft Integrated Report was published, West Fork Bitterroot River, MT76H003\_010 was split into two assessment units, MT76H003\_011 and MT76H003\_013 and annotated in **Section 5, Table 5-1**. However, before the draft Integrated Report was published it was decided the assessment unit should not be split into two because a TMDL was already written for the West Fork Bitterroot River. During the public comment period it was discovered that the split was still written up in **Section 5, Table 5-1** therefore the split assessment units were struck out in the table. All other data in the Integrated Report represented the original, correct assessment unit for the West Fork Bitterroot River. No other changes were made to the assessment unit data.

During the public comment period a data entry error was identified and corrected. In the 2010 cycle Big Pipestone Creek, MT41G002\_010 had a Solids (Suspended/Bedload) [CFL 2010] cause added to the 303(d) list while the Total Suspended Solids (TSS) [CFL 1996] cause that was listed for Big Pipestone Creek in the 2008 cycle was removed from the 303(d) list. This was found to be an error and changed back to how it was in 2008. The Total Suspended Solids (TSS) [CFL 1996] was added back and the Solids (Suspended/Bedload) [CFL 2010] cause was removed.

Before the Draft Integrated Report was published, Medicine Lake, MT40R003\_010 had a Lead [CFL 2006] listing changed to Nickel [CFL 2006]. During the public comment period the Nickel listing in place of the Lead listing was identified as a data entry error and changed back to the correct Lead listing. This change is reflected in the **Appendix B** and in **Table 5-4** of **Section 5**.

Little Whitetail Creek (MT41G002\_141) was presented in the Draft Integrated Report as a new assessment unit and the assessment information from an adjacent assessment unit, Whitetail Creek (MT41G002\_141), was inadvertently included but is not related to this new AU. All assessment information and cause listings have been removed from this AU in the Final Integrated Report and the AU has been set to Category 3, “Not Assessed.”

Whitetail Reservoir (MT41G002\_140) was presented in the Draft Integrated Report as a new assessment unit and the assessment information from an adjacent assessment unit, Whitetail Creek (MT41G002\_141), was inadvertently included but is not related to this new AU. All assessment information and cause listings have been removed from this AU in the Final Integrated Report and the AU has been set to Category 3, “Not Assessed.”

During the public comment period an error in the area of several lake and reservoir assessment units was identified and corrected. This correction is reflected in **Table 4-1, 4-9, 4-12** and **4-13** in **Section 4**.



## 7.0 GLOSSARY

303(d) list	A compilation of impaired and threatened waterbodies in need of water quality restoration, which is prepared by DEQ and submitted to EPA for approval. This list is commonly referred to as the “303(d) list” because it is prepared in accordance with the requirements of section 303(d) of the federal Clean Water Act of 1972. In the integrated reporting format Category 5 is considered the “303(d) list” by EPA. DEQ develops Water Quality Restoration Plans for all category 4C waters in addition to the TMDLs required for category 5 waters.
305(b) Report	A general overview report of state water quality conditions, which DEQ prepares and submits to EPA in accordance with the requirements of section 305(b) of the federal Clean Water Act of 1972. The integrated reporting format of this document encourages the combination of 305(b) requirements with 303(d) requirements in a single document.
Anthropogenic impacts	Human caused changes leading to reductions in water quality.
Assessment	A complete review of waterbody conditions using chemical, physical, or biological monitoring data alone or in combination with narrative information, that supports a finding as to whether a waterbody is achieving compliance with applicable WQS.
Assessment Unit	A waterbody, either in its entirety or a section (segment) of the waterbody, which has beneficial use support decisions applied. See also “segment.”
Basins	For water quality planning purposes, Montana is divided into four hydrologic basins or regions: the Columbia Basin (west slope waters draining to the Columbia River), the Upper Missouri Basin (all Missouri River drainages above the Marias River confluence), the Lower Missouri Basin (Missouri River drainages including and downstream of the Marias River, and a segment of the Saskatchewan drainage in Glacier National Park), and the Yellowstone Basin (waters draining into the Yellowstone and the Little Missouri rivers).
Beneficial uses	The uses that a waterbody is capable of supporting when all applicable WQS are met. What standards apply to a particular waterbody depend on its classification under the Montana Water-Use Classification System.
Beneficial Use Support Determination	A finding, based on sufficient credible data, that a state’s water is – or is not – achieving compliance with the WQS for its applicable beneficial uses.
Best Management Practices (BMPs)	Those activities, prohibitions, maintenance procedures, or other management practices used to protect and improve water quality. BMPs may or may not be sufficient to achieve WQS and protect beneficial uses.

Biological data	Chlorophyll <i>a</i> data, aquatic biology community information (including fish, macroinvertebrates, and algae), and wildlife community characteristics.
Chemistry and toxicity data	Includes bioassay, temperature and total suspended sediment data and information relating to such factors as toxicants, nutrients, and dissolved oxygen.
Communities	Organisms of a biologically related group (i.e. fish, wildlife, macroinvertebrates or algae).
Data categories	Chemistry/physical, habitat, and biological data used for assessing the availability of sufficient credible data for making aquatic life and fisheries beneficial use support determinations.
Data Quality Assessment	The process of evaluating the validity and reliability of data related to a particular waterbody (Assessment Unit) for purposes of making water quality criteria attainment and beneficial use support decisions.
Data Quality Objectives	Data quality objectives are systematic planning tools based on the scientific method. They are used to develop data collection designs and to establish specific criteria for the quality of data to be collected. This process documents the criteria for defensible decision-making before an environmental data collection activity begins with consideration given to the implication of the decision, schedule for completion, and available resources.
Degradation	A change in water quality that lowers the quality of high quality waters for a parameter. The term does not include those changes in water quality determined to be non-significant pursuant to 75-5-301(5)(c). [75-5-103(5) MCA]
Full support	A beneficial use determination based on sufficient credible data, that a waterbody is achieving all the WQS for the use in question.
Habitat data	See physical and habitat data.
Hydrogeomorphology	The science relating to the geographical, geological, and hydrological aspects of waterbodies, and to changes to these aspects in response to flow variations and to natural and human-caused events, such a heavy rainfall or channel straightening.
Hydrologic Unit Code (HUC)	A standardized mapping system devised by the US Geologic Survey for the hydrology of the United States. The system employs four basic levels of designation or mapping: regions, sub-regions, accounting units, and cataloging units. Each level is assigned a two-digit code so that a cataloging unit has an eight-digit unique identifier, or code. In Montana, there are 100 “8-digit” or “4th code” HUCs.
Impaired waterbody	A waterbody or stream segment for which sufficient credible data shows that the waterbody or stream segment is failing to achieve compliance with applicable WQS (nonsupport or partial support of beneficial uses). [75-5-103(11) MCA]

Independent evidence	An approach used to make aquatic life use support determinations when a limited array of chemistry/physical, habitat or biological data provide clear evidence that is sufficient to make a beneficial use support determination.
Macroinvertebrates	Animals without backbones which are visible to the human eye (insects, worms, clams, and snails).
Montana Water-Use Classification System	Montana State regulations [ARM 17.30.606 - 658] assigning state surface waters to one of nine use classes. The class to which a waterbody is assigned defines the beneficial uses that it should support.
Naturally occurring	Water conditions or material present from runoff or percolation over which humans have no control or from developed land where all reasonable land, soil, and water conservation practices have been applied. [75-5-306(2) MCA]
Nonpoint source	Source of pollution, which originates from diffuse runoff, seepage, drainage, or infiltration. [ARM 17.30.602(18)] NPS pollution is generally managed through BMPs or a water quality restoration plan.
Nonsupport	A beneficial use determination, based on sufficient credible data, that a waterbody is not achieving all the WQS for the use in question, and the degree of water quality impairment is relatively severe.
Overwhelming evidence	Information or data from only one data category that, by itself, constitutes sufficient credible data for making an aquatic life use support determination.
Parameter	A physical, biological, or chemical property of state water when a value of that property affects the quality of the state water. [75-5-103(22) MCA]
Partial support	A beneficial use determination, based on sufficient credible data, that a waterbody is not achieving all the WQS for the use in question, but the degree of impairment is not severe.
Pathogens	Bacteria or other disease causing agents that may be contained in water.
Physical and habitat data	Narrative and photo documentation of habitat conditions, habitat surveys and function rankings, direct measurements of riparian or aquatic vegetation communities, and other measures of hydrogeomorphic characteristics and function.
Point source	A discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, or vessel or other floating craft, from which pollutants are or may be discharged. [75-5-103(24) MCA]

Pollutant	As defined in the federal Clean Water Act, pollutant means dredged spoil; solid waste; incinerator residue; sewage; garbage; sewage sludge; munitions; chemical wastes; biological materials; radioactive materials; heat; wrecked or discarded equipment; rock; sand; cellar dirt; and industrial, municipal, and agricultural waste discharged into water (CWA Section 502(6)).
Pollution	Defined by Montana law [75-5-103(25) MCA] as: 1. Contamination or other alteration of the physical, chemical, or biological properties of state waters that exceed that permitted by Montana WQS, including but not limited to standards relating to changes in temperature, taste, color, turbidity or odor; or, 2. The discharge, seepage, drainage, infiltration, or flow of liquid, gaseous, solid, radioactive, or other substance into state water that will or is likely to create a nuisance or render the waters harmful, detrimental, or injurious to public health, recreation, safety, or welfare, to livestock, or to wild animals, bird, fish or other wildlife, or 3. Discharge, seepage, drainage, infiltration, or flow that is authorized under the pollution discharge permit rules of the board is not pollution under this chapter. Activities conducted under the conditions imposed by the department in short term authorizations pursuant to 75 5 308 MCA are not considered pollution under this chapter.
Prioritization	A ranking of impaired waterbodies conducted by DEQ in consultation with the statewide advisory group using established criteria to rank waterbodies as high, moderate, or low priority for preparing Water Quality Restoration Plans (specifically TMDL plans).
Reasonable land, soils, and water conservation practices	Methods, measures, or practices that protect present and reasonably anticipated beneficial uses. These practices include but are not limited to structural and nonstructural controls and operation and maintenance procedures. Appropriate practices may be applied before, during, or after pollution producing activities. [ARM 17.30.602(21)]
Reference Condition	The condition of a waterbody capable of supporting its present and future beneficial uses when all reasonable land, soil, and water conservation practices have been applied. Reference conditions include natural variations in biological communities, water chemistry, soils, hydrology, and other natural physiochemical variations.
Region	See Basin.
Riparian area	Plant communities contiguous to and affected by surface and subsurface hydrologic features of natural waterbodies. Riparian areas are usually transitional between streams and upland.
Segment	A defined portion of a waterbody. Synonymous with Assessment Unit.

State water	A body of water, irrigation system, or drainage system, either surface or underground (excludes water treatment lagoons or irrigation waters, which do not return to state waters).
Sub-major basin	The aggregation of several watersheds or HUCs into a larger drainage system. The US Geological Survey has defined 16 sub-major basins (sub-region) in Montana with at least two in each of the Montana basins (regions).
Sufficient Credible Data	Chemical, physical, or biological monitoring data, alone or in combination with narrative information that supports a finding as to whether a waterbody is achieving compliance with applicable WQS. [75-5-103(30) MCA]
Suspended solids	Materials such as silt that may be contained in water and do not dissolve.
Threatened waterbody	A waterbody for which sufficient credible data and calculated increases in loads show that the waterbody or stream segment is fully supporting its designated uses but threatened for a particular designated use because of:  (a) proposed sources that are not subject to pollution prevention or control actions required by a discharge permit, the nondegradation provisions, or reasonable land, soil, and water conservation practices; or  (b) documented adverse pollution trends. [75-5-103(31) MCA]
Total Maximum Daily Load (TMDL)	The sum of the individual wasteload allocations for point sources and load allocations for both nonpoint sources and natural background sources established at a level necessary to achieve compliance with applicable WQS. [75-5-103(32) MCA] In practice, TMDLs are water quality restoration targets for both point and nonpoint sources that are contained in a water quality restoration plan or in a permit.
Toxicant	A toxic agent
Waterbody	A lake, reservoir, river, stream, creek, pond, marsh, wetland, or other body of water above the ground surface.

<p>Water Quality Assessment Categories</p>	<p>A system defined by EPA guidance for classifying the water quality status based on the waters’ assessment status. The five categories included in this system are: Category 1, Category 2 (2, 2A and 2B), Category 3, Category 4 (4A, 4B, and 4C), and Category 5.</p> <p>Category 1: Waters for which all applicable beneficial uses have been assessed and all uses have been determined to be fully supported.</p> <p>Category 2: Waters for which available data and/or information indicate that some, but not all of the beneficial uses are supported.</p> <p>Subcategory 2A: Available data and/or information indicate that some, but not all of the beneficial uses are supported.</p> <p>Subcategory 2B: Available data and/or information indicate that a water quality standard is exceeded due to an apparent natural source in the absence of any identified anthropogenic sources.</p> <p>Category 3: Waters for which there is insufficient data to assess the use support of any applicable beneficial use, so no use support determinations have been made.</p> <p>Category 4: Waters where one or more beneficial uses have been assessed as being impaired or threatened, however, either all necessary TMDLs have been completed or are not required:</p> <p>Subcategory 4A: All TMDLs needed to rectify all identified threats or impairments have been completed and approved.</p> <p>Subcategory 4B: Waterbodies are on lands where “other pollution control requirements required by local, State, or Federal authority” [see 40 CFR 130.7(b)(1)(iii)] are in place, are expected to address all waterbody-pollutant combinations, and attain all WQS in a reasonable period of time. These control requirements act “in lieu of” a TMDL, thus no actual TMDLs are required.</p> <p>Subcategory 4C: Identified threats or impairments result from pollution categories such as dewatering or habitat modification and, thus, the calculation of a Total Maximum Daily Load (TMDL) is not required.</p> <p>Category 5: Waters where one or more applicable beneficial uses have been assessed as being impaired or threatened, and a TMDL is required to address the factors causing the impairment or threat.</p>
<p>Water Quality Integrated Report (or Integrated Report)</p>	<p>A report providing an overview of the status of state water quality monitoring and planning programs. It combines in one document the information previously submitted to EPA in separate 303(d) list and 305(b) Report documents.</p>
<p>Water quality limited segment (WQLS)</p>	<p>A body of water that is not fully supporting its beneficial uses (an impaired waterbody). If there is no water quality restoration plan with an approved TMDL for a waterbody, it is listed on the 303 (d) list of impaired waters.</p>

Water quality restoration plan	A plan to improve water quality to achieve state WQS. Such a plan may also be referred to as a "TMDL plan" if it addresses the eight criteria used by EPA to approve TMDL plans.
Water quality standards	the standards adopted in ARM 17.30.601 et seq. and WQB-7 to conserve water by protecting, maintaining, and improving suitability and usability of water for public water supplies, wildlife, fish and aquatic life, agriculture, industry, contact recreation, and other beneficial uses.
Weight of evidence	An approach used to make aquatic life use support determinations when there are high levels of information from all three data categories (chemistry/physical, habitat and biological), including two biological communities.



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# Appendix A Index for Impaired Waters Sub-Basin Reports

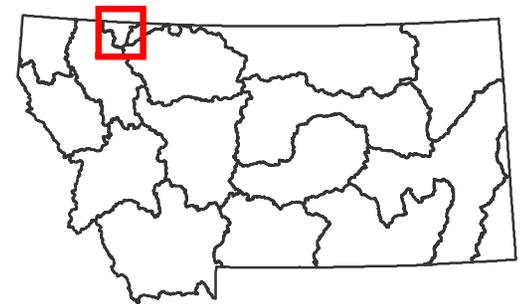
St. Mary	10010001	Belly	Lower Missouri	10060004	West Fork Poplar
	10010002	St. Mary		10060005	Charlie-Little Muddy
Upper Missouri	10020001	Red Rock	Upper Yellowstone	10060006	Big Muddy
	10020002	Beaverhead		10060007	Brush Lake
	10020003	Ruby		10070001	Yellowstone Headwaters
	10020004	Big Hole		10070002	Upper Yellowstone
	10020005	Jefferson		10070003	Shields
	10020006	Boulder		10070004	Upper Yellowstone-Lake
	10020007	Madison		10070005	Stillwater
	10020008	Gallatin		10070006	Clarks Fork Yellowstone
Missouri-Sun-Smith	10030101	Upper Missouri	Middle Yellowstone	10070007	Upper Yellowstone-Pomeys Pillar
	10030102	Upper Missouri-Dearborn		10070008	Pryor
	10030103	Smith		10080010	Bighorn Lake
	10030104	Sun		10080014	Shoshone
	10030105	Belt		10080015	Lower Bighorn
Marias	10030201	Two Medicine	Middle Yellowstone	10080016	Little Bighorn
	10030202	Cut Bank		10090101	Upper Tongue
	10030203	Marias		10090102	Lower Tongue
	10030204	Willow		10100003	Rosebud
	10030205	Teton			
Middle Missouri	10040101	Bullwhacker-Dog	Lower Yellowstone	10090207	Middle Powder
	10040102	Arrow		10090208	Little Powder
	10040103	Judith		10090209	Lower Powder
	10040104	Fort Peck Reservoir		10090210	Mizpah
	10040105	Big Dry		10100001	Lower Yellowstone-Sunday
	10040106	Little Dry		10100002	Big Porcupine
Musselshell	10040201	Upper Musselshell	Little Missouri	10100004	Lower Yellowstone
	10040202	Middle Musselshell		10100005	O'Fallon
	10040203	Flat Willow		10110201	Upper Little Missouri
	10040204	Box Elder		10110202	Boxelder
	10040205	Lower Musselshell		10110203	Middle Little Missouri
Milk	10050001	Milk Headwaters	Kootenai	10110204	Beaver
	10050002	Upper Milk		10120202	Lower Belle Fourche
	10050003	Wild Horse Lake		17010101	Upper Kootenai
	10050004	Middle Milk		17010102	Fisher
	10050005	Big Sandy		17010103	Yaak
	10050006	Sage	17010104	Lower Kootenai	
	10050007	Lodge	17010105	Moyie	
	10050008	Battle	Upper Clark Fork	17010201	Upper Clark Fork
	10050009	Peoples		17010202	Flint-Rock
	10050010	Cottonwood		17010203	Blackfoot
	10050011	Whitewater		17010205	Bitterroot
	10050012	Lower Milk	Flathead	17010206	North Fork Flathead
	10050013	Frenchman		17010207	Middle Fork Flathead
	10050014	Beaver		17010208	Flathead Lake
	10050015	Rock		17010209	South Fork Flathead
	10050016	Porcupine		17010210	Stillwater
Lower Missouri	10060001	Prairie Elk-Wolf	Lower Clark Fork	17010211	Swan
	10060002	Red Water		17010204	Middle Clark Fork
	10060003	Poplar		17010212	Lower Flathead
				17010213	Lower Clark Fork



# St Mary Sub-Major Basin

Missouri River Basin

USGS HUC	HUC NAME
10010001	Belly River
10010002	Saint Mary River



Montana Department of  
Environmental Quality



## Appendix A: Impaired Waters

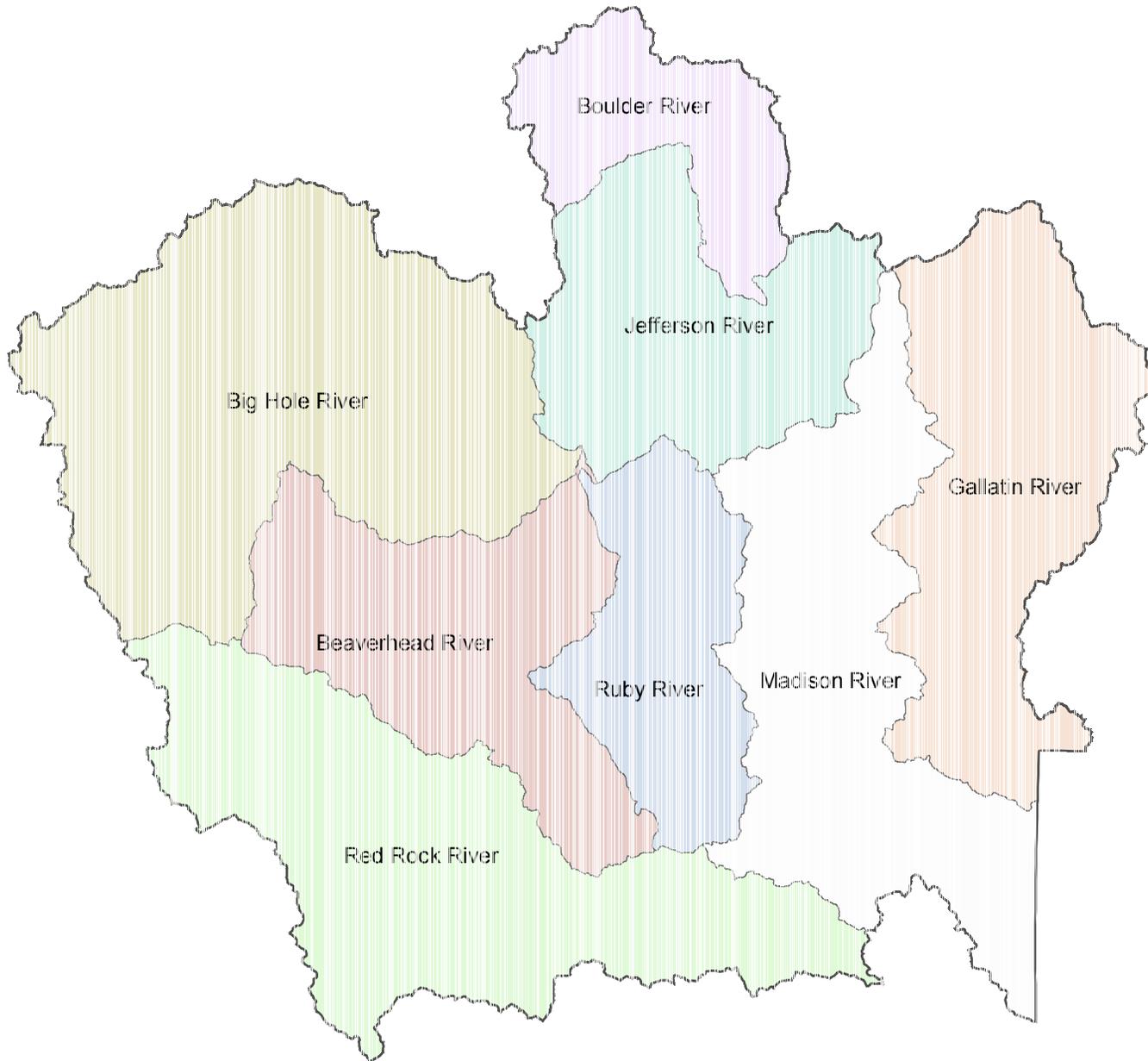
HUC 10010002 St. Mary		Watershed Saint Mary													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT40T002_010	DIVIDE CREEK, headwaters to mouth (Saint Mary River)	4C	10.55	MILES	A-1	P	P	F	F	X	X		Alterations in wetland habitats Other anthropogenic substrate alterations	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Site Clearance (Land Development or Redevelopment)

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

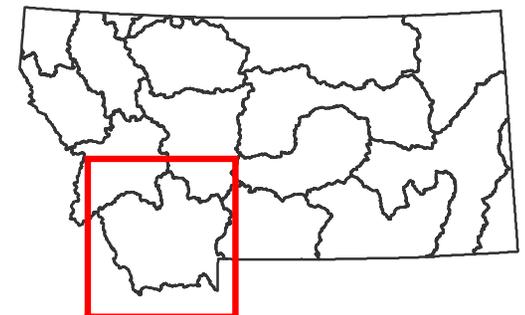


# Upper Missouri Sub-Major Basin

Missouri River Basin



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





## Appendix A: Impaired Waters

HUC 10020001 Red Rock

Watershed Upper Missouri Tribs.

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

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

## Appendix A: Impaired Waters

HUC 10020001 Red Rock		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	5	46.67	MILES	B-1	N	N	F	F	N	P		Mercury Zinc	
Red Rock	MT41A003_100	BLOODY DICK CREEK, headwaters to mouth (Horse Prairie Creek)	5	30.32	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A003_150	SHEEP CREEK, Muddy Creek to mouth (Red Rock River)	5	10.98	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Nonnative Fish, Shellfish, or Zooplankton Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Other Recreational Pollution Sources
Red Rock	MT41A004_010	PRICE CREEK, headwaters to mouth (Red Rock River)	5	10.52	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Other flow regime alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones
Red Rock	MT41A004_030	FISH CREEK, headwaters to mouth (Metzel Creek)	5	7.88	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Red Rock	MT41A004_040	CORRAL CREEK, headwaters to mouth (Red Rock Creek)	5	4.29	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Red Rock	MT41A004_050	EAST FORK CLOVER CREEK, headwaters to mouth (Clover Creek)	5	5.78	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A004_060	HELL ROARING CREEK, headwaters to mouth (Red Rock River)	4C	10.17	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Red Rock	MT41A004_070	LONG CREEK, headwaters to mouth (Red Rock River)	5	23.94	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Other flow regime alterations	Grazing in Riparian or Shoreline Zones Irrigated Crop Production

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

## Appendix A: Impaired Waters

HUC 10020001 Red Rock

Watershed Upper Missouri Tribs.

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

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

## Appendix A: Impaired Waters

HUC 10020001 Red Rock		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Red Rock	MT41A005_020	LOWER RED ROCK LAKE	5	1126	ACRES	B-1	N	N	X	X	X	N			Low Water Crossing Rangeland Grazing Upstream Source
Red Rock	MT41A005_030	UPPER RED ROCK LAKE	5	2206.1	ACRES	B-1	N	N	X	X	X	N	Other flow regime alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Rangeland Grazing Upstream Source	

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

## Appendix A: Impaired Waters

HUC 10020002 Beaverhead		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B001_010	BEAVERHEAD RIVER, Clark Canyon Dam to Grasshopper Creek	5	12.32	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Lead Low flow alterations	Agriculture Dam or Impoundment Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Beaverhead	MT41B001_020	BEAVERHEAD RIVER, Grasshopper Creek to mouth (Jefferson River)	5	66.04	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)
Beaverhead	MT41B002_010	GRASSHOPPER CREEK, headwaters to mouth (Beaverhead River)	5	60.18	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Cadmium Copper Low flow alterations Zinc	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mine Tailings Streambank Modifications/destabilization
Beaverhead	MT41B002_020	FARLIN CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S7	5	6.1	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_030	BLACKTAIL DEER CREEK, headwaters to mouth (Beaverhead River)	5	42.88	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Temperature, water	Channelization Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Livestock (Grazing or Feeding Operations)
Beaverhead	MT41B002_040	EAST FORK BLACKTAIL DEER CREEK, 4C headwaters to mouth (Blacktail Deer Creek)	4C	21.24	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	5	19.07	MILES	B-1	P	P	N	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones

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

## Appendix A: Impaired Waters

HUC 10020002 Beaverhead		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	5	19.07	MILES	B-1	P	P		N	F	N	P	Chlorophyll-a Sedimentation/Siltation	Mine Tailings
Beaverhead	MT41B002_070	WEST FORK DYCE CREEK, headwaters to mouth (Dyce Creek)	5	3.95	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Manganese Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Placer Mining Silviculture Harvesting
Beaverhead	MT41B002_080	SPRING CREEK, headwaters to mouth (Beaverhead River)	5	15.67	MILES	B-1	P	P		P	F	N	P	Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Low flow alterations Nitrogen (Total) Sedimentation/Siltation	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Beaverhead	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	5	9.52	MILES	B-1	P	P		F	F	N	P	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Subsurface (Hardrock) Mining
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	5	17.95	MILES	A-1	P	P		F	F	N	F	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Nitrogen (Total)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Subsurface (Hardrock) Mining

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

## Appendix A: Impaired Waters

HUC 10020002 Beaverhead		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	5	17.95	MILES	A-1	P	P	F	F	N	F		Phosphorus (Total) Sedimentation/Siltation	
Beaverhead	MT41B002_100	FRENCH CREEK, headwaters to mouth (Rattlesnake Creek)	5	6.55	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_110	CLARK CANYON CREEK, headwaters to mouth (Beaverhead River), T9S R10W S28	5	8.07	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	5	12.76	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehl Dahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	5	6.53	MILES	B-1	P	P	P	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Agriculture Crop Production (Crop Land or Dry Land) Surface Mining Unspecified Unpaved Road or Trail
Beaverhead	MT41B002_132	STONE CREEK, Left Fork and Middle Fork to confluence of un-named tributary, T6S R7W S34	5	7.07	MILES	B-1	P	P	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrates Sedimentation/Siltation Turbidity	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastructure (New Construction) Irrigated Crop Production
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	5	4.13	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10020002 Beaverhead		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaverhead	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	5	4.13	MILES	B-1	P	P	F	F	F	P		Total Kjehldahl Nitrogen (TKN)	
Beaverhead	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscoll Creek), T6S R12W S18	5	3.66	MILES	B-1	N	N	P	N	N	N		Alteration in stream-side or littoral vegetative covers Arsenic Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	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	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Beaverhead	MT41B002_180	SCUDDER CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S19	5	5.62	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

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## Appendix A: Impaired Waters

HUC 10020003 Ruby

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020003 Ruby

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020003 Ruby

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020003 Ruby		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Ruby	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	5	11.82	MILES	B-1	P	P	F	F	F	F	F	Phosphorus (Total) Sedimentation/Siltation Total Kjeldahl Nitrogen (TKN)	Unspecified Unpaved Road or Trail
Ruby	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	5	6.2	MILES	B-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Cadmium Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Natural Sources Placer Mining Rangeland Grazing
Ruby	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	5	5.4	MILES	B-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjeldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	5	5.62	MILES	B-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjeldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones
Ruby	MT41C003_140	HAWKEYE CREEK, headwaters to mouth (Middle Fork Ruby River)	5	4.23	MILES	B-1	P	P	F	F	F	F	F	Phosphorus (Total)	Grazing in Riparian or Shoreline Zones Source Unknown
Ruby	MT41C003_150	SHOVEL CREEK, headwaters to mouth (Cabin Creek)	4A	5.61	MILES	B-1	F	P	F	F	F	F	F	Sedimentation/Siltation	Rangeland Grazing

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Big Hole	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	4A	18.98	MILES	B-1	N	N	F	F	N	P		Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Zinc	Irrigated Crop Production Mine Tailings Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	5	15.6	MILES	B-1	P	P	P	P	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_030	CANYON CREEK, headwaters to mouth (Big Hole River)	4C	18.41	MILES	B-1	X	X	X	F	X	P		Low flow alterations	Agriculture Irrigated Crop Production
Lower Big Hole	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	4A	13.99	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Agriculture Flow Alterations from Water Diversions
Lower Big Hole	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	4A	16.99	MILES	B-1	N	N	X	F	X	P		Low flow alterations Sedimentation/Siltation	Irrigated Crop Production
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	4A	4.93	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Other flow regime alterations Phosphorus (Total)	Agriculture Crop Production (Crop Land or Dry Land) Unspecified Unpaved Road or Trail

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Big Hole	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	4A	4.93	MILES	B-1	P	P	F	F	F	P		Sedimentation/Siltation	
Lower Big Hole	MT41D002_070	SASSMAN GULCH, headwaters to the end of the stream reach in T4S R9W S9	5	3.89	MILES	B-1	N	N	F	F	F	F		Arsenic	Impacts from Abandoned Mine Lands (Inactive)
Lower Big Hole	MT41D002_090	BIRCH CREEK, headwaters to National Forest Boundary	4A	13.91	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization
Lower Big Hole	MT41D002_100	BIRCH CREEK, National Forest Boundary to mouth (Big Hole River)	4A	10.67	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Channelization Dam or Impoundment Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Lower Big Hole	MT41D002_110	WILLOW CREEK, headwaters to mouth (Big Hole River), T4S R8W S1	4C	23.39	MILES	B-1	X	X	X	X	X	P		Low flow alterations	Agriculture Irrigated Crop Production
Lower Big Hole	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	5	4.09	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Bottom Deposits Copper Lead Mercury Phosphorus (Total)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Subsurface (Hardrock) Mining
Lower Big Hole	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	4A	8.24	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	5	4.06	MILES	A-1	P	P	F	F	F	F		Nitrogen (Total)	Grazing in Riparian or Shoreline Zones

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	5	4.06	MILES	A-1	P	P	F	F	F	F	F	Phosphorus (Total) Sedimentation/Siltation	Unspecified Unpaved Road or Trail
Lower Big Hole	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	4A	14.92	MILES	B-1	P	P	F	F	N	F	F	Arsenic Copper Lead Mercury Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining
Lower Big Hole	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	4A	7.84	MILES	B-1	P	P	P	F	N	F	F	Alteration in stream-side or littoral vegetative covers Arsenic Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Mine Tailings Rangeland Grazing Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	5	12.69	MILES	A-1	N	N	F	F	N	P	F	Alteration in stream-side or littoral vegetative covers Copper Excess Algal Growth Lead Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Rangeland Grazing Silviculture Activities Site Clearance (Land Development or Redevelopment)
Middle Big Hole	MT41D003_030	DELANO CREEK, headwaters to mouth (Jerry Creek)	4A	2.32	MILES	A-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Middle Big Hole	MT41D003_040	DEEP CREEK, headwaters to mouth (Big	4A	9.21	MILES	A-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral	Irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Big Hole	MT41D003_040	DEEP CREEK, headwaters to mouth (Big Hole River)	4A	9.21	MILES	A-1	P	P	F	F	F	F	F	vegetative covers Low flow alterations Sedimentation/Siltation	Rangeland Grazing Streambank Modifications/destablization
Middle Big Hole	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	4A	10.08	MILES	A-1	N	N	X	F	N	X	X	Arsenic Copper Sedimentation/Siltation	Acid Mine Drainage Atmospheric Depositon - Toxics Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive)
Middle Big Hole	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	5	8.28	MILES	B-1	N	N	N	P	N	P	P	Alteration in stream-side or littoral vegetative covers Arsenic Copper Iron Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation Turbidity	Agriculture Atmospheric Depositon - Toxics Contaminated Sediments Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Placer Mining Rangeland Grazing Silviculture Activities Unspecified Unpaved Road or Trail
Middle Big Hole	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	5	3.09	MILES	A-1	N	N	N	F	N	F	F	Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Acid Mine Drainage Agriculture Atmospheric Depositon - Toxics Channelization Dredge Mining Erosion from Derelict Land (Barren Land) Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrastructure (New Construction)

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

## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
North Fork Big Hole	MT41D004_010	NORTH FORK BIG HOLE RIVER, headwaters to mouth (Big Hole River)	4A	25.92	MILES	A-1	P	P		X	X	X	P	Low flow alterations Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Loss of Riparian Habitat Silviculture Activities
North Fork Big Hole	MT41D004_020	MUSSIGBROD CREEK, headwaters to mouth (North Fork Big Hole River)	5	14.62	MILES	A-1	N	N		F	F	N	P	Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Natural Sources Rangeland Grazing
North Fork Big Hole	MT41D004_030	JOHNSON CREEK, headwaters to mouth (North Fork Big Hole River)	5	15.7	MILES	A-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Harvesting
North Fork Big Hole	MT41D004_040	SCHULTZ CREEK, headwaters to mouth (Johnson Creek)	5	3.28	MILES	A-1	P	P		F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting
North Fork Big Hole	MT41D004_060	TIE CREEK, headwaters to mouth (North Fork Big Hole River)	5	16.49	MILES	A-1	P	P		F	F	F	F	Nitrogen (Total) Physical substrate habitat alterations Sedimentation/Siltation	Rangeland Grazing Silviculture Activities Unspecified Unpaved Road or Trail
North Fork Big Hole	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	4A	13.07	MILES	A-1	N	N		F	F	F	F	Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020004 Big Hole

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020005 Jefferson

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020005 Jefferson		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Jefferson	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	5	22.46	MILES	B-1	P	P	F	P	F	P			Streambank Modifications/destabilization Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_020	HALFWAY CREEK, headwaters to mouth (Big Pipestone Creek-Jefferson River)	5	7.9	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_030	HELLS CANYON CREEK, headwaters to mouth (Jefferson River)	4A	13.28	MILES	B-1	P	P	F	F	F	P		Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Silviculture Activities Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	5	16.86	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Channelization Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related)
Lower Jefferson	MT41G002_050	NORTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	17.62	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Lead Low flow alterations Mercury Physical substrate habitat alterations	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production Natural Sources Subsurface (Hardrock) Mining
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	5	23.32	MILES	B-1	P	P	F	F	F	P		Arsenic Copper Lead Low flow alterations	Acid Mine Drainage Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification

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## Appendix A: Impaired Waters

HUC 10020005 Jefferson		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Jefferson	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	5	23.32	MILES	B-1	P	P	F	F	F	P		Mercury Phosphorus (Total)	Mine Tailings
Lower Jefferson	MT41G002_080	WILLOW CREEK, North and South Fork confluence to mouth (Jefferson River)	5	15.28	MILES	B-1	N	F	F	F	F	P		Low flow alterations Temperature, water Zinc	Acid Mine Drainage Flow Alterations from Water Diversions Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Lower Jefferson	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	5	10.82	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Arsenic Phosphorus (Total) Sedimentation/Siltation Temperature, water Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Upper Jefferson	MT41G002_100	FISH CREEK, headwaters to mouth (Jefferson Canal), T1S R5W S12	4A	19.87	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Upper Jefferson	MT41G002_110	CHERRY CREEK, headwaters to mouth (Jefferson River)	5	6.88	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation Zinc	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Source Unknown
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	16.2	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Irrigated Crop Production Natural Sources

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## Appendix A: Impaired Waters

HUC 10020005 Jefferson		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Jefferson	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	5	16.2	MILES	B-1	N	N	F	F	F	P		Zinc	
Upper Jefferson	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	5	23.4	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Aluminum Ammonia (Un-ionized) Chlorophyll-a Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Silver Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Irrigated Crop Production Rangeland Grazing Subsurface (Hardrock) Mining Upstream Source
Lower Jefferson	MT41G002_150	CHARCOAL CREEK, headwaters to mouth (Pony Creek)	5	2.72	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Upper Jefferson	MT41G002_160	FITZ CREEK, headwaters to mouth (Little Whitetail Creek)	5	4.71	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

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## Appendix A: Impaired Waters

HUC 10020006 Boulder		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	5	24.38	MILES	B-1	P	P	F	F	N	F	Cadmium	Acid Mine Drainage	
													Copper	Impacts from Abandoned Mine Lands (Inactive)	
													Iron		
													Lead		
Boulder - Elkhorn	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	5	9.28	MILES	B-1	N	N	F	F	N	F	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage	
													Cadmium	Channelization	
													Copper	Habitat Modification - other than Hydromodification	
													Iron	Highways, Roads, Bridges, Infrastructure (New Construction)	
													Lead	Impacts from Abandoned Mine Lands (Inactive)	
Boulder - Elkhorn	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	5	35.85	MILES	B-1	N	N	P	F	N	P	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage	
													Copper	Contaminated Sediments	
													Iron	Grazing in Riparian or Shoreline Zones	
													Lead	Habitat Modification - other than Hydromodification	
													Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)	
													Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification	
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	5	14.12	MILES	B-1	N	N	P	F	N	P	Alteration in stream-side or littoral vegetative covers	Acid Mine Drainage	
													Arsenic	Contaminated Sediments	
													Cadmium	Forest Roads (Road Construction and Use)	
													Copper	Grazing in Riparian or Shoreline Zones	
													Lead	Highways, Roads, Bridges, Infrastructure (New Construction)	
Low flow alterations	Impacts from Abandoned Mine Lands (Inactive)														

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## Appendix A: Impaired Waters

HUC 10020006 Boulder		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	5	14.12	MILES	B-1	N	N		P	F	N	P	Sedimentation/Siltation Temperature, water Zinc	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Mill Tailings
Boulder - Elkhorn	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	5	2.89	MILES	B-1	N	N		P	P	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Nitrogen, Nitrate Other flow regime alterations Sedimentation/Siltation Turbidity Zinc	Acid Mine Drainage Agriculture Forest Roads (Road Construction and Use) Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities Subsurface (Hardrock) Mining
Boulder - Elkhorn	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	5	11.72	MILES	B-1	N	N		P	F	N	F	Arsenic Cadmium Copper Lead Mercury Nitrogen, Nitrate Sedimentation/Siltation Zinc	Acid Mine Drainage Contaminated Sediments Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Mine Tailings Rangeland Grazing Silviculture Activities Silviculture Harvesting
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	5	16.7	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Mercury	Acid Mine Drainage Contaminated Sediments Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat

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## Appendix A: Impaired Waters

HUC 10020006 Boulder		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	5	16.7	MILES	B-1	N	N	P	F	N	F		Sedimentation/Siltation Zinc	Mine Tailings Rangeland Grazing Silviculture Activities Silviculture Harvesting
Boulder - Elkhorn	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	5	6.65	MILES	B-1	N	N	P	P	N	F		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Mercury Sedimentation/Siltation Temperature, water Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Channelization Contaminated Sediments Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Mine Tailings Rangeland Grazing Silviculture Activities
Boulder - Elkhorn	MT41E002_050	LOWLAND CREEK, headwaters to mouth (Boulder River)	5	14.25	MILES	B-1	N	N	F	F	F	F		Alteration in stream-side or littoral vegetative covers Aluminum Copper Physical substrate habitat alterations Silver	Channelization Dredge Mining Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destablization
Boulder - Elkhorn	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	5	8.16	MILES	B-1	N	N	P	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Channelization Dredge Mining Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)

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## Appendix A: Impaired Waters

HUC 10020006 Boulder		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	5	3.56	MILES	B-1	N	N	P	F	N	N		Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Boulder - Elkhorn	MT41E002_070	BISON CREEK, headwaters to mouth (Boulder River)	5	25.36	MILES	B-1	N	N	F	F	F	F		Alteration in stream-side or littoral vegetative covers Copper Iron Nitrates	Agriculture Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)
Boulder - Elkhorn	MT41E002_080	LITTLE BOULDER RIVER, North Fork to mouth (Boulder River)	5	3.76	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Cause Unknown Copper Physical substrate habitat alterations Zinc	Agriculture Dredge Mining Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive) Source Unknown
Boulder - Elkhorn	MT41E002_090	NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	5	12.09	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Boulder - Elkhorn	MT41E002_100	MUSKRAT CREEK, headwaters to mouth (Boulder River)	5	12.83	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Copper Lead	Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing
Boulder - Elkhorn	MT41E002_110	McCARTHY CREEK, headwaters to mouth (Boulder River)	5	6.44	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Dam or Impoundment Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Sediment Resuspension (Clean Sediment) Source Unknown

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## Appendix A: Impaired Waters

HUC 10020006 Boulder		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Elkhorn	MT41E002_130	NURSERY CREEK, headwaters to mouth (Muskrat Creek-Boulder River)	5	1.13	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Agriculture
														Sedimentation/Siltation	Forest Roads (Road Construction and Use)
														Total Kjehldahl Nitrogen (TKN)	Natural Sources
															Watershed Runoff following Forest Fire
Boulder - Elkhorn	MT41E002_140	BIG LIMBER GULCH, headwaters to mouth (Cataract Creek-Boulder River)	5	2.62	MILES	B-1	X	X	F	F	N	X		Lead	Acid Mine Drainage
														Mercury	Impacts from Abandoned Mine Lands (Inactive)

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## Appendix A: Impaired Waters

HUC 10020007 Madison

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020007 Madison			Watershed Upper Missouri Tribs.												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F004_020	O'DELL SPRING CREEK, headwaters to mouth (Madison River)	5	13.03	MILES	B-1	P	P	F	F	N	F		Arsenic High Flow Regime Other anthropogenic substrate alterations Physical substrate habitat alterations	Channelization Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Source Unknown
Madison	MT41F004_040	INDIAN CREEK, Lee Metcalf Wilderness boundary to mouth (Madison River)	4C	6.34	MILES	B-1	P	P	F	F	F	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004_050	JACK CREEK, headwaters to mouth (Madison River)	5	15.18	MILES	B-1	P	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Streambank Modifications/destabilization
Madison	MT41F004_060	NORTH MEADOW CREEK, headwaters to mouth (Enis Lake)	5	18.53	MILES	B-1	F	F	F	F	F	P		Low flow alterations Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Channelization Irrigated Crop Production Natural Sources Streambank Modifications/destabilization
Madison	MT41F004_070	SOUTH MEADOW CREEK, headwaters to mouth (Enis Lake)	5	12.98	MILES	B-1	N	N	F	F	F	P		Aquatic Plants - Native Chlorophyll-a Lead Physical substrate habitat alterations	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Madison	MT41F004_080	RUBY CREEK, headwaters to mouth (Madison River)	4C	15.91	MILES	B-1	N	N	F	F	F	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Madison	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	5	39.41	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium	Agriculture Flow Alterations from Water Diversions Forest Roads (Road Construction and Use)

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## Appendix A: Impaired Waters

HUC 10020007 Madison		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Madison	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	5	39.41	MILES	B-1	N	N	F	F	N	P		Lead Low flow alterations Other anthropogenic substrate alterations Physical substrate habitat alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Rangeland Grazing Source Unknown Streambank Modifications/destabilization Unspecified Unpaved Road or Trail
Madison	MT41F004_110	ELK RIVER, headwaters to mouth (West Fork Madison River)	5	15.59	MILES	B-1	P	P	F	F	F	F		Bottom Deposits	Grazing in Riparian or Shoreline Zones Unspecified Unpaved Road or Trail
Madison	MT41F004_120	GAZELLE CREEK, headwaters to mouth (West Fork Madison River)	4C	9.65	MILES	B-1	F	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Madison	MT41F004_130	MOORE CREEK, springs to mouth (Fletcher Channel), T5S R1W S15	5	15.83	MILES	B-1	X	X	F	F	N	N		Arsenic Fecal Coliform	Acid Mine Drainage Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Natural Sources
Madison	MT41F004_140	ANTELOPE CREEK, headwaters to mouth (Cliff Lake)	5	9.48	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Agriculture Channelization Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Unspecified Unpaved Road or Trail
Madison	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison River	5	4.36	MILES	B-1	P	P	F	F	N	F		Arsenic Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources
Madison	MT41F005_030	ENNIS LAKE, to the Ennis Lake Dam, T4S R1E S20	5	3780.8	ACRES	B-1	P	P	F	F	N	P		Cause Unknown	Acid Mine Drainage

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## Appendix A: Impaired Waters

HUC 10020007 Madison

Watershed Upper Missouri Tribs.

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

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## Appendix A: Impaired Waters

HUC 10020008 Gallatin		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H001_010	GALLATIN RIVER, Spanish Creek to mouth (Missouri River)	4C	48.12	MILES	B-1	P	N	F	P	F	N		Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	5	29.55	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Fecal Coliform Low flow alterations Nitrogen (Total) Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Animal Feeding Operations (NPS) Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources
Lower Gallatin	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	5	9	MILES	B-1	P	P	P	F	F	N		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Fecal Coliform Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Agriculture Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones
Lower Gallatin	MT41H002_031	SOUTH COTTONWOOD CREEK, Middle Creek Assoc Ditch diversion to mouth (Gallatin River)	4C	6.26	MILES	B-1	P	P	F	F	F	P		Low flow alterations	Irrigated Crop Production
Lower Gallatin	MT41H003_010	EAST GALLATIN RIVER, confluence of Rocky and Bear Creeks to Bridger Creek	5	7.3	MILES	B-1	P	P	F	F	F	F		Nitrogen (Total) Phosphorus (Total)	Grazing in Riparian or Shoreline Zones Municipal (Urbanized High Density Area) Residential Districts Yard Maintenance
Lower Gallatin	MT41H003_020	EAST GALLATIN RIVER, Bridger Creek to Smith Creek	5	25.52	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Nitrogen (Total) Phosphorus (Total) pH	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Municipal Point Source Discharges Yard Maintenance

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## Appendix A: Impaired Waters

HUC 10020008 Gallatin		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H003_030	EAST GALLATIN RIVER, Smith Creek to mouth (Gallatin River)	5	13.54	MILES	B-1	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) pH	Grazing in Riparian or Shoreline Zones Municipal Point Source Discharges
Lower Gallatin	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	5	4.88	MILES	B-1	N	N	F	F	F	P	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Escherichia coli Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Grazing in Riparian or Shoreline Zones Irrigated Crop Production Loss of Riparian Habitat Septage Disposal Yard Maintenance
Lower Gallatin	MT41H003_050	JACKSON CREEK, headwaters to mouth (Rocky Creek)	5	8.55	MILES	B-1	P	P	F	F	F	P	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Phosphorus (Total) Sedimentation/Siltation	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones
Lower Gallatin	MT41H003_060	SMITH CREEK, confluence of Ross and Reese Creeks to mouth (East Gallatin River)	5	6.76	MILES	B-1	P	N	F	F	X	N	N	Alteration in stream-side or littoral vegetative covers Fecal Coliform Nitrates Physical substrate habitat alterations Sedimentation/Siltation	Agriculture
Lower Gallatin	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	5	8.28	MILES	B-1	P	P	F	F	F	N	N	Fecal Coliform Nitrates Solids (Suspended/Bedload)	Agriculture
Lower Gallatin	MT41H003_080	ROCKY CREEK, confluence of Jackson and Timberline Creeks to mouth (East Gallatin River)	5	7.94	MILES	B-1	P	P	F	F	X	F	F	Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Highways, Roads, Bridges, Infrastructure (New Construction)
Lower Gallatin	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	5	10.15	MILES	B-1	P	P	F	P	F	P	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones

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## Appendix A: Impaired Waters

HUC 10020008 Gallatin		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Gallatin	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	5	10.15	MILES	B-1	P	P	F	P	F	P		Excess Algal Growth Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_090	THOMPSON CREEK (Thompson Spring), headwaters to mouth (East Gallatin River)	5	7.42	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrogen (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Lower Gallatin	MT41H003_100	DRY CREEK, headwaters to mouth (East Gallatin River)	5	20.09	MILES	B-1	P	P	F	F	F	N		Alteration in stream-side or littoral vegetative covers Cause Unknown Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Source Unknown
Lower Gallatin	MT41H003_110	BRIDGER CREEK, headwaters to mouth (East Gallatin River)	5	21.46	MILES	B-1	P	P	F	F	F	P		Chlorophyll-a Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Impacts from Resort Areas (Winter and Non-winter Resorts) Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_120	STONE CREEK, headwaters to mouth (Bridger Creek)	5	6.06	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Lower Gallatin	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	5	7.04	MILES	A-1	P	P	F	F	F	P		Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Rangeland Grazing Silviculture Harvesting Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	5	8.76	MILES	A-1	P	P	F	F	F	P		Chlorophyll-a Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Rangeland Grazing Silviculture Harvesting Unspecified Unpaved Road or Trail
Lower Gallatin	MT41H003_132	HYALITE CREEK, Bozeman water	4C	20.99	MILES	B-1	X	X	X	X	X	P		Low flow alterations	Irrigated Crop Production

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## Appendix A: Impaired Waters

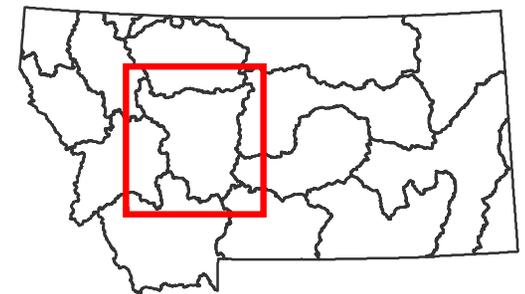
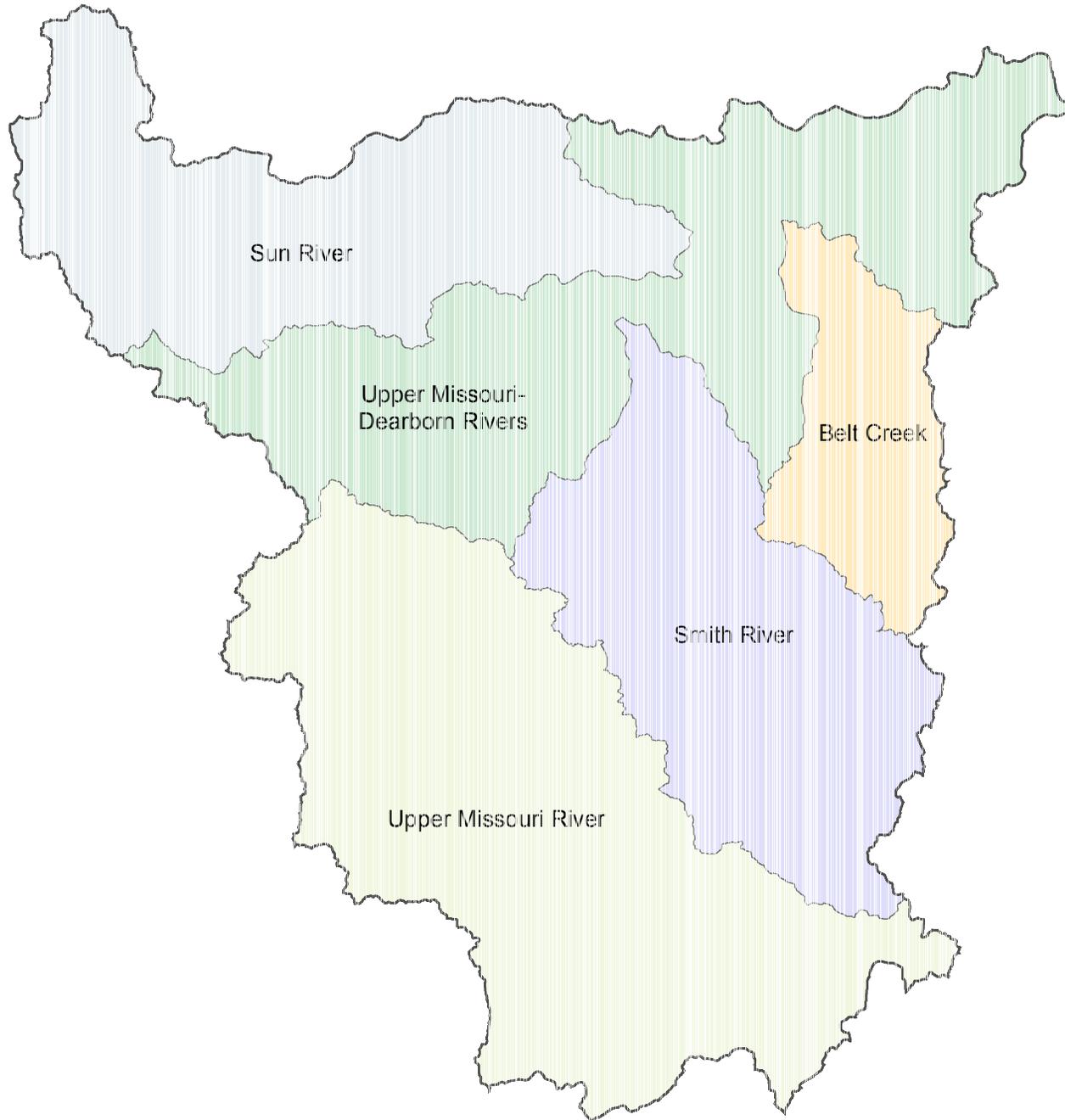
HUC 10020008 Gallatin		Watershed Upper Missouri Tribs.													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Gallatin	MT41H005_010	SQUAW CREEK, aka Storm Castle Creek, headwaters to the mouth (Gallatin River), T4S R4E S33	5	14.19	MILES	B-1	P	P	F	F	X	F		Phosphorus (Total) Physical substrate habitat alterations	Forest Roads (Road Construction and Use) Natural Sources Silviculture Activities
Upper Gallatin	MT41H005_020	TAYLOR FORK, Lee Metcalf Wilderness boundary to mouth (Gallatin River)	5	13.98	MILES	B-1	P	P	X	P	X	F		Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Silviculture Activities Site Clearance (Land Development or Redevelopment)
Upper Gallatin	MT41H005_030	CACHE CREEK, headwaters to mouth (Taylor Fork)	5	4.66	MILES	B-1	P	P	F	F	X	F		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Agriculture Forest Roads (Road Construction and Use) Silviculture Activities
Upper Gallatin	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to mouth (Gallatin River)	5	3.87	MILES	B-1	P	N	F	F	F	N		Chlorophyll-a Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Silviculture Activities Site Clearance (Land Development or Redevelopment)
Upper Gallatin	MT41H005_050	MIDDLE FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	5	6.23	MILES	B-1	P	P	F	F	F	N		Alteration in stream-side or littoral vegetative covers Fecal Coliform Nitrate/Nitrite (Nitrite + Nitrate as N) Solids (Suspended/Bedload)	Animal Feeding Operations (NPS) Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, Infrastructure (New Construction) On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Upper Gallatin	MT41H005_060	SOUTH FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	5	14.57	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Silviculture Activities Site Clearance (Land Development or Redevelopment)

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

# Missouri-Sun-Smith Sub-Major Basin

Missouri River Basin

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



Montana Department of  
Environmental Quality



## Appendix A: Impaired Waters

HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	5/2B	21.95	MILES	B-1	P	P	F	F	N	F		Arsenic Low flow alterations Nitrogen (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Municipal Point Source Discharges Natural Sources Non-irrigated Crop Production
Missouri River	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	5	22.6	MILES	B-1	P	P	F	P	N	F		Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Low flow alterations Sedimentation/Siltation	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Canyon Ferry	MT41I002_010	AVALANCHE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	4C	16.71	MILES	B-1	X	X	X	P	X	P		Low flow alterations	Agriculture Irrigated Crop Production
Canyon Ferry	MT41I002_020	BATTLE CREEK, headwaters to mouth (Sixteenmile Creek)	5	22.76	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Phosphorus (Total) Sedimentation/Siltation Temperature, water	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Canyon Ferry	MT41I002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	5	14.74	MILES	B-1	N	N	F	P	N	P		Cadmium Chromium (total) Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Silver Zinc	Agriculture Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Canyon Ferry	MT41I002_080	DRY CREEK, headwaters to mouth (Missouri River)	5	21.56	MILES	B-1	P	P	F	F	F	P		Sedimentation/Siltation Temperature, water	
Canyon Ferry	MT41I002_090	HELLGATE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	11.6	MILES	B-1	N	N	F	F	N	X		Alteration in stream-side or littoral vegetative covers Mercury Other anthropogenic substrate alterations Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Highways, Roads, Bridges, 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 mouty (Missouri River)	5	8.01	MILES	B-1	X	X	N	F	N	X		Arsenic Cadmium Lead Mercury	Acid Mine Drainage Dredge Mining Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Canyon Ferry	MT41I002_110	MAGPIE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	5	12.76	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones
Canyon Ferry	MT41I002_120	SIXTEENMILE CREEK, Lost Creek to mouth (Missouri River)	5	49.61	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Grazing in Riparian or Shoreline Zones
Canyon Ferry	MT41I002_130	WHITE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	13.26	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Placer Mining

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## Appendix A: Impaired Waters

HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Canyon Ferry	MT41I002_140	WILSON CREEK, 3.3 miles upstream to mouth (Crow Creek)	5	3.3	MILES	B-1	X	X		X	X	N	X	Mercury	Impacts from Abandoned Mine Lands (Inactive)
Canyon Ferry	MT41I002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	5	6.42	MILES	B-1	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Channelization Placer Mining Source Unknown Unspecified Unpaved Road or Trail
Canyon Ferry	MT41I002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	5	5.87	MILES	B-1	X	X		X	X	N	X	Arsenic Cadmium Lead Mercury	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Missouri River	MT41I003_010	CANYON FERRY RESERVOIR	5	2.73	ACRES	B-1	F	F		P	F	N	N	Ammonia (Un-ionized) Arsenic Excess Algal Growth Thallium	Acid Mine Drainage Agriculture Impacts from Abandoned Mine Lands (Inactive) 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 Prickly Pear Creek	5	2.84	MILES	B-1	P	P		F	F	F	F	Other flow regime alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Municipal Point Source Discharges Natural Sources On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Upstream Impoundments (e.g., PI-566 NRCS Structures)
Holter	MT41I005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	5	13.8	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones

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HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Holter	MT41I005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	5	13.8	MILES	B-1	P	P	F	F	F	P		Total Kjehldahl Nitrogen (TKN)	
Holter	MT41I005_012	BEAVER CREEK, Nelson to mouth (Missouri River below Hauser Dam)	5	5.51	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Canyon Ferry	MT41I005_020	TROUT CREEK, headwaters to mouth (Hauser Lake)	5	20.52	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat  Unspecified Unpaved Road or Trail
Holter	MT41I005_030	FALLS GULCH, headwaters to mouth (Holter Lake), T14N R3W S16	5	3.18	MILES	B-1	N	N	F	X	N	X		Mercury	Impacts from Abandoned Mine Lands (Inactive)
Holter	MT41I005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	5	8.25	MILES	B-1	P	P	F	F	N	F		Copper  Lead  Zinc	Impacts from Abandoned Mine Lands (Inactive)
Holter	MT41I005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	5	23.9	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Other flow regime alterations  Physical substrate habitat alterations  Sedimentation/Siltation  Temperature, water	Agriculture  Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat  Silviculture Activities
Holter	MT41I005_052	LITTLE PRICKLY PEAR CREEK, Clark Creek to mouth (Missouri River)	5	10.23	MILES	B-1	N	N	F	F	F	F		Alteration in stream-side or littoral vegetative covers Other flow regime alterations  Physical substrate habitat alterations  Temperature, water	Channelization  Flow Alterations from Water Diversions Highways, Roads, Bridges, Infrastructure (New Construction) Loss of Riparian Habitat
Holter	MT41I005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek-Canyon Creek-Little Prickly Pear Creek)	5	1.78	MILES	B-1	N	N	N	X	N	X		Cadmium  Copper  Lead  Mercury  Silver	Impacts from Abandoned Mine Lands (Inactive) Mill Tailings  Subsurface (Hardrock) Mining

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## Appendix A: Impaired Waters

HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Holter	MT41I005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek-Canyon Creek-Little Prickly Pear Creek)	5	1.78	MILES	B-1	N	N		N	X	N	X	Zinc	
Holter	MT41I005_080	WOODSIDING GULCH, headwaters to mouth (Little Prickly Pear Creek), T13N R4W S33	5	2.19	MILES	B-1	P	P		F	F	F	F	Phosphorus (Total)	Forest Roads (Road Construction and Use)
Missouri River	MT41I006_010	PRICKLY PEAR CREEK, Lake Helena to Hauser Lake	5	4.1	MILES	B-1	X	X		X	X	N	X	Arsenic	Acid Mine Drainage Atmospheric Depositon - Toxics Contaminated Sediments Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	5	4.15	MILES	I	N	N	N	F	P	N	P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Arsenic Cadmium Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Acid Mine Drainage Agriculture Contaminated Sediments Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Municipal Point Source Discharges
Lake Helena	MT41I006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	5	6.54	MILES	I	N	N	N	P	P	N	P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Arsenic Cadmium Copper	Acid Mine Drainage Contaminated Sediments Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification

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## Appendix A: Impaired Waters

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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	5	6.54	MILES	I	N	N	N	P	P	N	P	Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge Irrigated Crop Production On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Lake Helena	MT41006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	5	10.84	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Aluminum Antimony Arsenic Cadmium Copper Lead Physical substrate habitat alterations Sedimentation/Siltation Temperature, water Zinc	Acid Mine Drainage Channelization Contaminated Sediments Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive) Industrial Point Source Discharge
Lake Helena	MT41006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	5	7.05	MILES	B-1	N	N		P	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Physical substrate habitat alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Placer Mining Streambank Modifications/destabilization

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HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	5	8.84	MILES	B-1	N	P	P	F	N	F		Alteration in stream-side or littoral vegetative covers Cadmium Lead Physical substrate habitat alterations Total Suspended Solids (TSS)	Acid Mine Drainage Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive) Placer Mining Streambank Modifications/destabilization
Lake Helena	MT41006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	5	2.92	MILES	B-1	N	N	F	F	N	X		Cadmium Copper Lead Zinc	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Subsurface (Hardrock) Mining
Lake Helena	MT41006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	5	1.74	MILES	B-1	N	N	N	P	N	P		Alteration in stream-side or littoral vegetative covers Aluminum Arsenic Cadmium Copper Lead Low flow alterations Mercury Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Silver Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Channelization Contaminated Sediments Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	N	P	P	N	N		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper	Agriculture Dam or Impoundment Mill Tailings Mine Tailings

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HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	5	2.82	MILES	B-1	N	N		P	P	N	N	Lead Silver Solids (Suspended/Bedload) Temperature, water Zinc pH	
Lake Helena	MT41006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	5	2.82	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Mercury Sedimentation/Siltation Zinc	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Unspecified Unpaved Road or Trail
Lake Helena	MT41006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	4A	4.17	MILES	B-1	P	P		F	F	N	F	Arsenic Cadmium Lead Sedimentation/Siltation Zinc	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Unspecified Unpaved Road or Trail
Lake Helena	MT41006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	5	12.82	MILES	B-1	N	N		F	F	N	F	Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Mercury Other anthropogenic substrate alterations Sedimentation/Siltation	Acid Mine Drainage Animal Feeding Operations (NPS) Contaminated Sediments Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Unspecified Unpaved Road or Trail

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HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	5	12.82	MILES	B-1	N	N	F	F	N	F		Zinc	
Lake Helena	MT41I006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	5	14.68	MILES	B-1	N	N	F	F	N	X		Cadmium Copper Lead Mercury Total Suspended Solids (TSS) Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Lake Helena	MT41I006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	5	6.72	MILES	A-1	P	P	F	F	N	F		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead Mercury Sedimentation/Siltation Zinc	Acid Mine Drainage Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Lake Helena	MT41I006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	4A	7.32	MILES	B-1	N	N	N	N	N	N		Arsenic Cadmium Copper Lead Low flow alterations Sedimentation/Siltation Zinc	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Impacts from Hydrostructure Flow Regulation/modification
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	5	16.38	MILES	B-1	P	P	F	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Lead	Acid Mine Drainage Channelization Habitat Modification - other than Hydromodification Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Abandoned Mine Lands (Inactive)

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HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	5	16.38	MILES	B-1	P	P	F	F	N	P		Low flow alterations Mercury Nitrogen (Total) Nutrient/Eutrophication Biological Indicators Phosphorus (Total) Sedimentation/Siltation Zinc	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Site Clearance (Land Development or Redevelopment)
Lake Helena	MT41I006_150	SILVER CREEK, headwaters to where the stream goes underground, T11N R4W S30	5	20.41	MILES	B-1	N	N	F	P	N	P		Arsenic DDE Low flow alterations Mercury Other anthropogenic substrate alterations	Agriculture Dredge Mining Irrigated Crop Production Mill Tailings Subsurface (Hardrock) Mining
Lake Helena	MT41I006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	5	8.45	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Arsenic Copper Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Zinc	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Streambank Modifications/destabilization
Lake Helena	MT41I006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	5	2.7	MILES	B-1	F	P	F	X	N	F		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Organic Enrichment (Sewage) Biological Indicators Other anthropogenic substrate alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources

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

## Appendix A: Impaired Waters

HUC 10030101 Upper Missouri		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lake Helena	MT41I006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	5	2.7	MILES	B-1	F	P	F	X	N	F	Zinc		
Lake Helena	MT41I006_190	JACKSON CREEK, headwaters to mouth (McClellan Creek-Prickly Pear Creek)	5	2.32	MILES	B-1	P	P	F	F	F	F	Zinc	Impacts from Abandoned Mine Lands (Inactive)	
Lake Helena	MT41I006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	5	1.36	MILES	B-1	P	P	F	F	N	F	Lead	Forest Roads (Road Construction and Use)	
													Nitrate/Nitrite (Nitrite + Nitrate as N)	Grazing in Riparian or Shoreline Zones	
													Phosphorus (Total)	Natural Sources	
													Sedimentation/Siltation	Source Unknown	
														Subsurface (Hardrock) Mining	
Lake Helena	MT41I006_220	SKELLY GULCH, headwaters to mouth (Greenhorn Creek/Sevenmile Creek), T10N R5W S2	5	7.81	MILES	B-1	P	P	F	F	F	F	Arsenic	Impacts from Abandoned Mine Lands (Inactive)	
													Sedimentation/Siltation	Unspecified Unpaved Road or Trail	
Lake Helena	MT41I006_230	GRANITE CREEK, headwaters to mouth (Sevenmile Creek)	5	2.49	MILES	B-1	X	X	X	X	N	X	Arsenic	Acid Mine Drainage	
													Cadmium	Impacts from Abandoned Mine Lands (Inactive)	
Lake Helena	MT41I007_010	LAKE HELENA	4A	1600	ACRES	B-1	P	P	F	F	N	X	Arsenic	Acid Mine Drainage	
													Lead	Impacts from Abandoned Mine Lands (Inactive)	
													Nitrogen (Total)	Impacts from Hydrostructure Flow Regulation/modification	
													Phosphorus (Total)	Irrigated Crop Production	
														Municipal Point Source Discharges	
														Natural Sources	
														Rangeland Grazing	
Missouri River	MT41I007_020	HOLTER LAKE Hauser Dam to Holter Lake Spillway	5	3.93	ACRES	B-1	F	F	X	F	X	P	Mercury	Atmospheric Depositon - Toxics	
														Historic Bottom Deposits (Not Sediment)	
														Impacts from Abandoned Mine Lands (Inactive)	
														Inappropriate Waste Disposal	
														Placer Mining	
														Source Unknown	
Missouri River	MT41I007_040	HAUSER LAKE	5	3800	ACRES	B-1	P	P	X	F	X	F	DDT	Agriculture	

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## Appendix A: Impaired Waters

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

TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT411007_040	HAUSER LAKE	5	3800	ACRES	B-1	P	P	X	F	X	F		Endosulfan sulfate Endrin aldehyde Mercury Nitrogen, Nitrate Oxygen, Dissolved Phosphorus (Total)	Dam Construction (Other than Upstream Flood Control Projects) Grazing in Riparian or Shoreline Zones Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Hydrostructure Flow Regulation/modification Municipal Point Source Discharges Natural Sources On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Silviculture Activities Source Unknown

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

## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 10030102 Upper Missouri-Dearborn		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	5/2B	20.93	MILES	B-1	P	P	F	F	N	F		Arsenic Nitrogen (Total) Other flow regime alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources
Missouri River	MT41Q001_022	MISSOURI RIVER, Sheep Creek to Sun River	5	65.3	MILES	B-1	P	P	F	F	F	F		Sedimentation/Siltation	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Hydrostructure Flow Regulation/modification Natural Sources Streambank Modifications/destablization
Benton Lake	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	5	19.03	MILES	B-3	N		N	N	N	N	P	Cadmium Other flow regime alterations Salinity Sedimentation/Siltation Selenium Zinc	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Missouri Cascade	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek-Missouri River)	5	4.32	MILES	B-1	N	N	F	F	N	X		Cadmium Nickel Zinc	Acid Mine Drainage Subsurface (Hardrock) Mining
Missouri Cascade	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	5	13.68	MILES	B-1	N	N	F	F	N	X		Aluminum Cadmium Lead Nickel Zinc	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	5	18.63	MILES	B-1	N	N	P	P	N	X		Lead Salinity	Agriculture Impacts from Abandoned Mine Lands (Inactive)

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## Appendix A: Impaired Waters

HUC 10030102 Upper Missouri-Dearborn		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri Cascade	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	5	18.63	MILES	B-1	N	N		P	P	N	X	Zinc	Subsurface (Hardrock) Mining
Missouri Choteau	MT41Q002_050	BOX ELDER CREEK, Spring Creek to mouth (Missouri River)	5	17.47	MILES	B-3	P		P	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Missouri Cascade	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	5	5.94	MILES	B-1	N	N		P	P	N	X	Aluminum Cadmium Nickel Salinity Zinc	Impacts from Abandoned Mine Lands (Inactive) Subsurface (Hardrock) Mining
Dearborn	MT41Q003_010	DEARBORN RIVER, Falls Creek to mouth (Missouri River)	5	48.26	MILES	B-1	N	N		F	F	F	P	Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Dearborn	MT41Q003_020	MIDDLE FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	4A	14.51	MILES	B-1	P	P		F	F	F	F	Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_030	SOUTH FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	4A	16.14	MILES	B-1	P	P		F	F	X	F	Low flow alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Dearborn	MT41Q003_040	FLAT CREEK, Henry Creek to mouth (Dearborn River)	4A	15.92	MILES	B-1	P	N		F	F	X	F	High Flow Regime Sedimentation/Siltation	Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Habitat Modification - other than Hydromodification
Benton Lake	MT41Q005_020	BENTON LAKE	5	5600	ACRES	B-3	N		N	P	F	N	P	Excess Algal Growth Nitrogen (Total) Salinity Selenium Sulfates	Agriculture Irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10030103 Smith

Watershed Missouri-Sun-Smith

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

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## Appendix A: Impaired Waters

HUC 10030103 Smith

Watershed Missouri-Sun-Smith

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

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## Appendix A: Impaired Waters

HUC 10030104 Sun

Watershed Missouri-Sun-Smith

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

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## Appendix A: Impaired Waters

HUC 10030105 Belt

Watershed Missouri-Sun-Smith

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

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## Appendix A: Impaired Waters

HUC 10030105 Belt		Watershed Missouri-Sun-Smith													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Belt	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	5	18.88	MILES	B-1	N	N	N	F	N	P		Cadmium	Acid Mine Drainage
														Copper	Contaminated Sediments
														Lead	Highway/Road/Bridge Runoff (Non-construction Related)
														Sedimentation/Siltation	Mine Tailings
														Zinc	Post-development Erosion and Sedimentation
Belt	MT41U002_040	LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	5	3.24	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Chlorophyll-a	Irrigated Crop Production
														Low flow alterations	Loss of Riparian Habitat
														Phosphorus (Total)	
														Sedimentation/Siltation	
														Total Kjeldahl Nitrogen (TKN)	
Belt	MT41U002_050	BIG OTTER CREEK, headwaters to mouth (Belt Creek)	5	33.49	MILES	B-1	P	P	X	F	X	F		Alteration in stream-side or littoral vegetative covers	Channelization
														Nitrates	Grazing in Riparian or Shoreline Zones
														Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
														Sedimentation/Siltation	

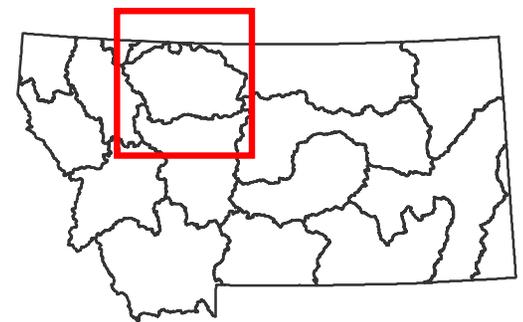
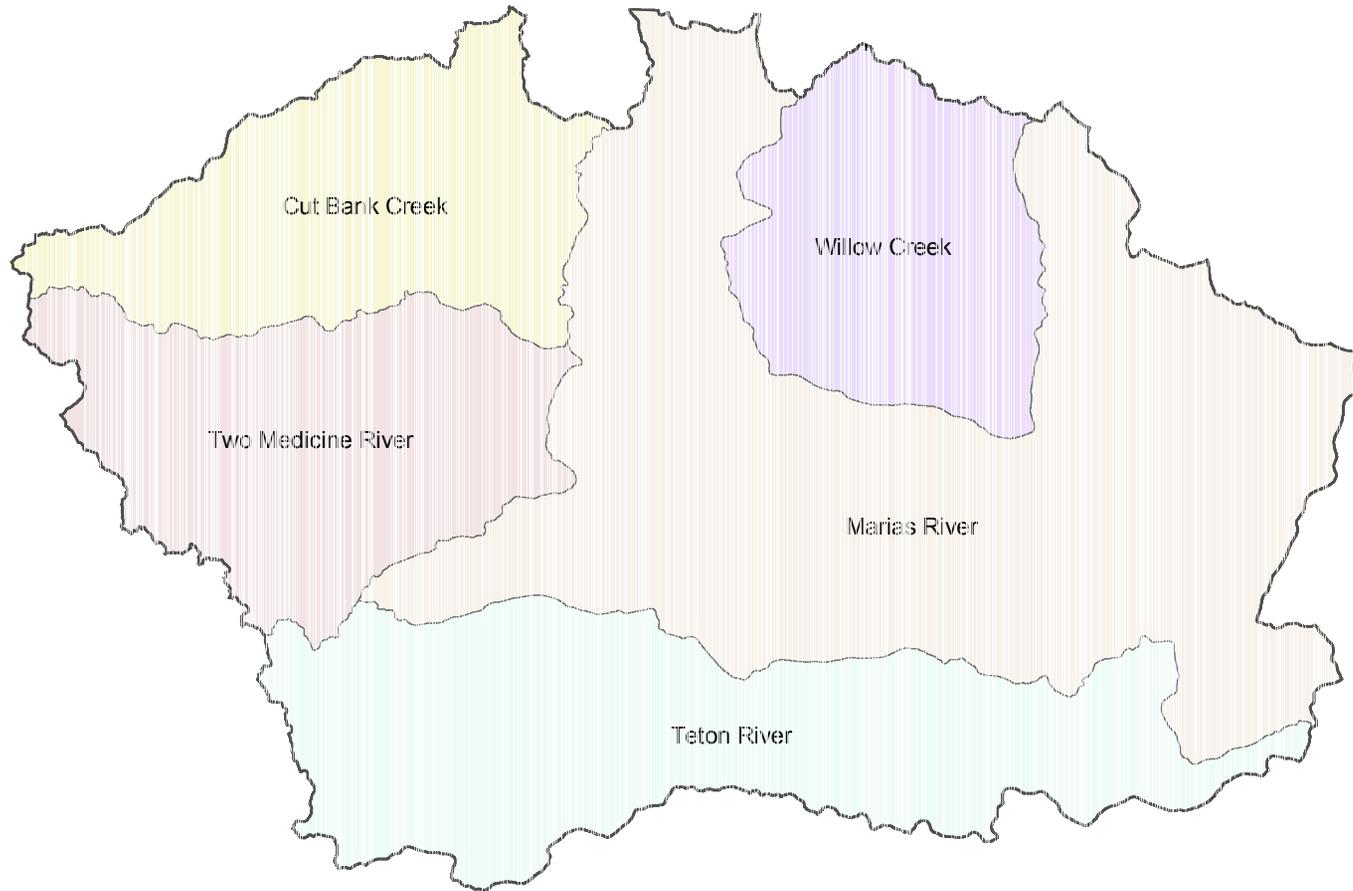
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



# Marias Sub-Major Basin

Missouri River Basin

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



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## Appendix A: Impaired Waters

HUC 10030201 Two Medicine		Watershed Marias													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT41M002_080	BIRCH CREEK, Blacktail Creek to mouth (Two Medicine River)	5	37.2	MILES	B-1	P	I	F	F	F	P		Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production
Cut Bank - Two Medicine	MT41M002_100	SOUTH FORK DUPUYER CREEK, Bob Marshall Wilderness boundary to mouth (Dupuyer Creek)	4C	7.36	MILES	B-1	N	N	F	F	F	F		Cause Unknown	Source Unknown
Cut Bank - Two Medicine	MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	5/2B	39.28	MILES	B-1	N	I	F	F	F	P		Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Temperature, water	Agriculture Crop Production (Crop Land or Dry Land) Flow Alterations from Water Diversions Irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10030202 Cut Bank		Watershed Marias													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cut Bank - Two Medicine	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	5/2B	17.6	MILES	B-1	N	I		N	N	F	N	Ammonia (Total) Chloride Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Specific Conductance Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges
Cut Bank - Two Medicine	MT41L001_040	CUT BANK CREEK, Blackfeet Reservation boundary to mouth (Marias River)	5	21.07	MILES	B-2	N	N		F	F	F	N	Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Temperature, water	Flow Alterations from Water Diversions Irrigated Crop Production Municipal Point Source Discharges Non-irrigated Crop Production

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

## Appendix A: Impaired Waters

HUC 10030203 Marias		Watershed Marias													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Marias - Willow	MT41P002_030	PONDERA COULEE, headwaters to mouth (Marias River)	5	135.95	MILES	B-2	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Salinity	Agriculture
Marias - Willow	MT41P002_050	CORRAL CREEK, headwaters to mouth (Cottonwood Creek)	5	22.98	MILES	B-2	P	P	X	X	X	X		Phosphorus (Total)	Agriculture

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

## Appendix A: Impaired Waters

HUC 10030204 Willow		Watershed Marias													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Marias - Willow	MT41P004_020	EAGLE CREEK, headwaters to mouth (Tiber Reservoir)	5	52.65	MILES	B-2	P	P	X	X	X	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations	Agriculture  Grazing in Riparian or Shoreline Zones
Marias - Willow	MT41P005_010	OILMONT WETLAND, T35N R1W S31	5	9	ACRES	B-2	P	X	X	X	N	X	X	Alteration in stream-side or littoral vegetative covers Arsenic Other flow regime alterations	Highways, Roads, Bridges, Infrastructure (New Construction) Petroleum/natural Gas Activities

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

## Appendix A: Impaired Waters

HUC 10030205 Teton

Watershed Marias

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

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

## Appendix A: Impaired Waters

HUC 10030205 Teton

Watershed Marias

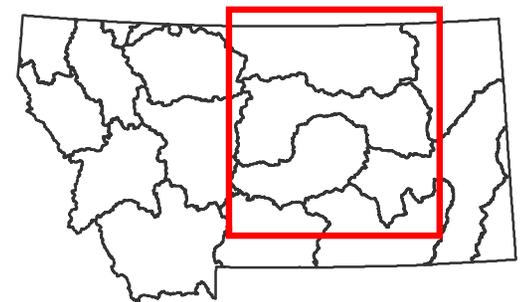
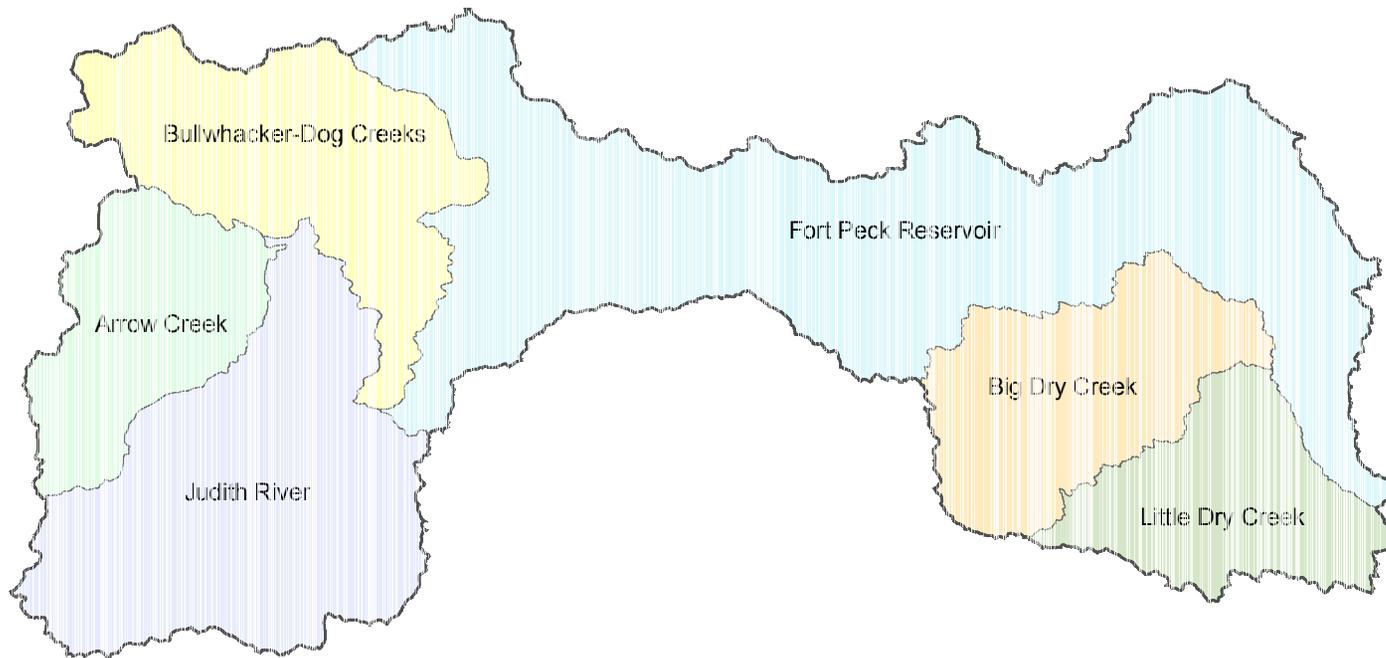
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Teton	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	4A	9.57	MILES	B-1	P	P	F	P	P	P		Phosphorus (Total) Sedimentation/Siltation	Streambank Modifications/destablization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

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

# Middle Missouri Sub-Major Basin

Missouri River Basin

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



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## Appendix A: Impaired Waters

HUC 10040101 Bullwhacker-Dog		Watershed Middle Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	5	102.05	MILES	B-3	P	P	F	F	F	F	P	Alteration in stream-side or littoral vegetative covers Copper Lead Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Source Unknown
Bullwhacker - Dog	MT41T002_020	DOG CREEK, Cutbank Creek to mouth (Missouri River)	5	26.03	MILES	C-3	N	N					F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

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

## Appendix A: Impaired Waters

HUC 10040102 Arrow

Watershed Middle Missouri

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

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## Appendix A: Impaired Waters

HUC 10040103 Judith		Watershed Middle Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Judith - Arrow	MT41S001_010	JUDITH RIVER, Big Spring Creek to mouth (Missouri River)	4C	72.02	MILES	B-2	P	X	F	F	F	X		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Agriculture Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Rangeland Grazing
Judith - Arrow	MT41S001_020	JUDITH RIVER, Ross Fork to Big Spring Creek	5	16.15	MILES	B-1	P	P	F	F	X	P		Alteration in stream-side or littoral vegetative covers Cause Unknown Nitrate/Nitrite (Nitrite + Nitrate as N) Physical substrate habitat alterations Sedimentation/Siltation	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Natural Sources Source Unknown
Judith - Arrow	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	5	34.55	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Nitrogen, Nitrate Phosphorus (Total) Salinity Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Non-irrigated Crop Production
Judith - Arrow	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mouth (Judith River)	5	45.29	MILES	C-3	N		N				F	Iron Selenium Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Crop Production with Subsurface Drainage Natural Sources Source Unknown
Judith - Arrow	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	5	10.74	MILES	C-3	P		P	X	X	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen, Nitrate Other anthropogenic substrate alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Judith - Arrow	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	5	70.08	MILES	C-3	P		P				F	Iron Nitrate/Nitrite (Nitrite + Nitrate as N)	Animal Feeding Operations (NPS) Natural Sources

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## Appendix A: Impaired Waters

HUC 10040103 Judith

Watershed Middle Missouri

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

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## Appendix A: Impaired Waters

HUC 10040103 Judith

Watershed Middle Missouri

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

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## Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir		Watershed Middle Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Missouri River	MT40E001_010	MISSOURI RIVER, Bullwhacker Creek to Fort Peck Reservoir	5	49.02	MILES	B-3	P	P	F	F	N	X		Alteration in stream-side or littoral vegetative covers Arsenic Copper	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Landusky	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	5	2.04	MILES	C-3	N	N					X	Arsenic Cadmium Copper pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive)
Fort Peck Area Tributaries	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	5	19.34	MILES	C-3	N	N					X	Cadmium Copper Mercury Zinc pH	Impacts from Abandoned Mine Lands (Inactive)
Fort Peck Area Tributaries	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	5	34.16	MILES	C-3	N	N				F		Aluminum Copper Iron Lead	Coal Mining Natural Sources
Landusky	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	5	4.04	MILES	C-3	N	N					X	Alteration in stream-side or littoral vegetative covers Cadmium Copper Lead Mercury Selenium Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Landusky	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	5	4.61	MILES	C-3	N	N					X	Aluminum Cadmium	Impacts from Abandoned Mine Lands (Inactive)

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

## Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir

Watershed Middle Missouri

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

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## Appendix A: Impaired Waters

HUC 10040104 Fort Peck Reservoir

Watershed Middle Missouri

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

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## Appendix A: Impaired Waters

HUC 10040105 Big Dry		Watershed Middle Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big and Little Dry	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	5	98.62	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Ammonia (Un-ionized) Nitrogen, Nitrate Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Agriculture Municipal Point Source Discharges

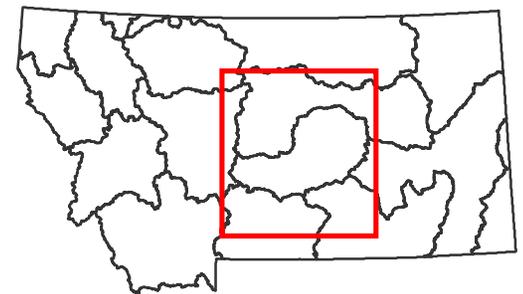
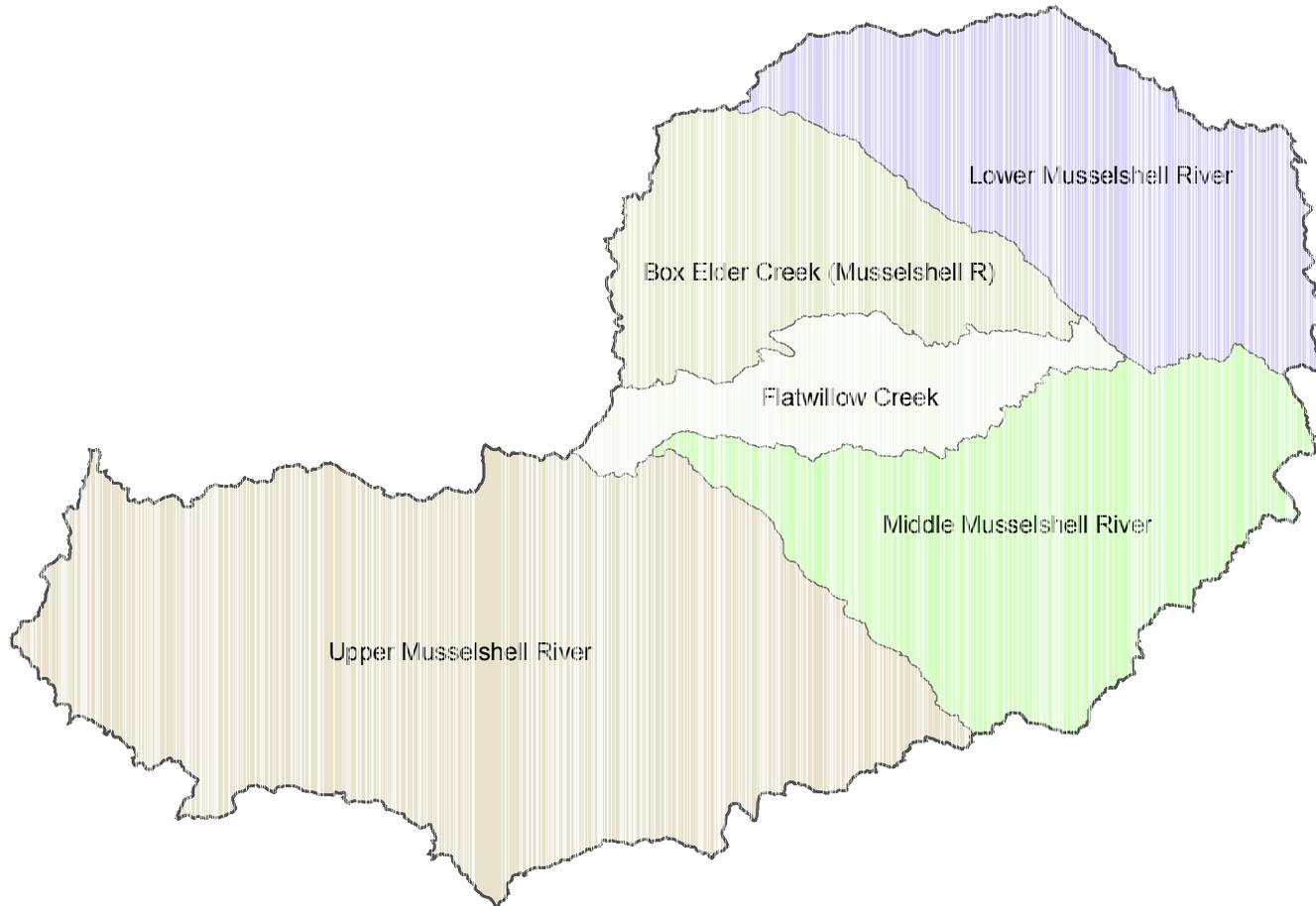
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



# Musselshell Sub-Major Basin

Missouri River Basin

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



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## Appendix A: Impaired Waters

HUC 10040201 Upper Musselshell		Watershed Musselshell														
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name	
Upper/Middle Musselshell	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	5	55.3	MILES	B-2	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Channelization Irrigated Crop Production	
Upper/Middle Musselshell	MT40A001_020	MUSSELSHELL RIVER, Deadmans Basin Supply Canal to HUC boundary near Roundup	5	94.49	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production Non-irrigated Crop Production	
Upper/Middle Musselshell	MT40A002_010	NORTH FORK MUSSELSHELL RIVER, headwaters to confluence with the South Fork Musselshell River	4C	38.19	MILES	B-1	P	P		F	F	F	P	Chlorophyll-a	Grazing in Riparian or Shoreline Zones Natural Sources	
Upper/Middle Musselshell	MT40A002_030	TRAIL CREEK, headwaters to mouth (North Fork Musselshell River)	5	10.1	MILES	B-1	N	N		F	F	F	P	Chlorophyll-a Sedimentation/Siltation	Rangeland Grazing Silviculture Harvesting Source Unknown	
Upper/Middle Musselshell	MT40A002_040	MILL CREEK, headwaters to mouth (North Fork Musselshell River)	5	4.81	MILES	B-1	P	P		F	F	F	P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Harvesting Source Unknown	
Careless Creek	MT40A002_050	CARELESS CREEK, confluence with Deadmans Basin Canal to mouth (Musselshell River)	4A	17	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Channel Erosion/Incision from Upstream Hydromodifications Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destabilization	
Upper/Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	5	98.64	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total)	Flow Alterations from Water Diversions Rangeland Grazing Source Unknown	

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## Appendix A: Impaired Waters

HUC 10040201		Upper Musselshell		Watershed Musselshell											
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper/Middle Musselshell	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	5	98.64	MILES	C-3	P		P				F	Total Kjehldahl Nitrogen (TKN)	
Upper/Middle Musselshell	MT40A002_080	PAINTED ROBE CREEK, headwaters to mouth (Musselshell River)	5	40.92	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Salinity  Total Kjehldahl Nitrogen (TKN)	Non-irrigated Crop Production  Rangeland Grazing
Upper/Middle Musselshell	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	5	18.19	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N)  Nitrogen (Total)  Other flow regime alterations  Total Kjehldahl Nitrogen (TKN)	Highway/Road/Bridge Runoff (Non-construction Related) Livestock (Grazing or Feeding Operations) On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
Upper/Middle Musselshell	MT40A005_010	DEADMANS BASIN RESERVOIR	5	1903	ACRES	B-1	N	N		N	F	N	F	Copper  Iron  Lead	Natural Sources  Source Unknown

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

## Appendix A: Impaired Waters

HUC 10040202 Middle Musselshell		Watershed Musselshell													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper/Middle Musselshell	MT40C001_010	MUSSELSHELL RIVER, HUC boundary near Roundup to Flatwillow Creek	4C	119.77	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations	Agriculture Channelization Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Upper/Middle Musselshell	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	5	117.27	MILES	C-3	N		N				F	Iron Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload) Specific Conductance Sulfates Total Kjehldahl Nitrogen (TKN)	Above Ground Storage Tank Leaks (Tank Farms) Natural Sources Source Unknown

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

## Appendix A: Impaired Waters

HUC 10040203 Flatwillow		Watershed Musselshell													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flatwillow - Box Elder	MT40B001_021	FLATWILLOW CREEK, headwaters to Highway 87 bridge	5	40.11	MILES	B-2	P	P		F	P	X	P	Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing
Flatwillow - Box Elder	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	5	99.88	MILES	C-3	P		P				P	Alteration in stream-side or littoral vegetative covers Low flow alterations Mercury Nitrogen, Nitrate Physical substrate habitat alterations Sedimentation/Siltation	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Loss of Riparian Habitat Rangeland Grazing Source Unknown
Flatwillow - Box Elder	MT40B001_040	NORTH FORK FLATWILLOW CREEK, headwaters to confluence with South Fork	5	27.56	MILES	B-2	P	P		F	F	F	F	Sedimentation/Siltation	Agriculture Loss of Riparian Habitat Rangeland Grazing

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

## Appendix A: Impaired Waters

HUC 10040204 Box Elder			Watershed Musselshell												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flatwillow - Box Elder	MT40B002_010	McDONALD CREEK, North and South Forks to mouth (Box Elder Creek)	5	89.18	MILES	C-3	P	P					F	Alteration in stream-side or littoral vegetative covers	Agriculture
														Sedimentation/Siltation	Managed Pasture Grazing
														Specific Conductance	Source Unknown
														Total Dissolved Solids	
Flatwillow - Box Elder	MT40B002_020	CHICAGO GULCH, headwaters to mouth (Fords Creek)	5	2.98	MILES	C-3	P		X				X	Lead	Acid Mine Drainage
														Zinc	Impacts from Abandoned Mine Lands (Inactive)
														pH	
Flatwillow - Box Elder	MT40B002_030	COLLAR GULCH, headwaters to mouth (Fords Creek)	5	6.38	MILES	C-3	P	P					X	Lead	Acid Mine Drainage
														Zinc	Impacts from Abandoned Mine Lands (Inactive)
														pH	
Flatwillow - Box Elder	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	5	3.75	MILES	C-3	N	N					N	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
														Antimony	Heap-leach Extraction Mining
														Arsenic	Mine Tailings
														Cyanide	
														Iron	
														Mercury	
														Sedimentation/Siltation	
Zinc															

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

## Appendix A: Impaired Waters

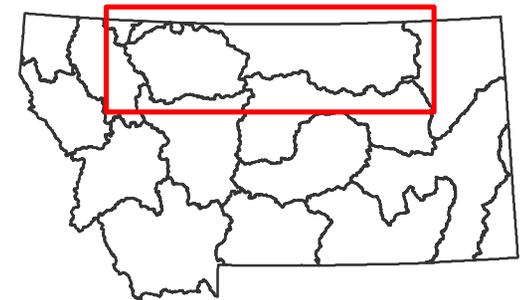
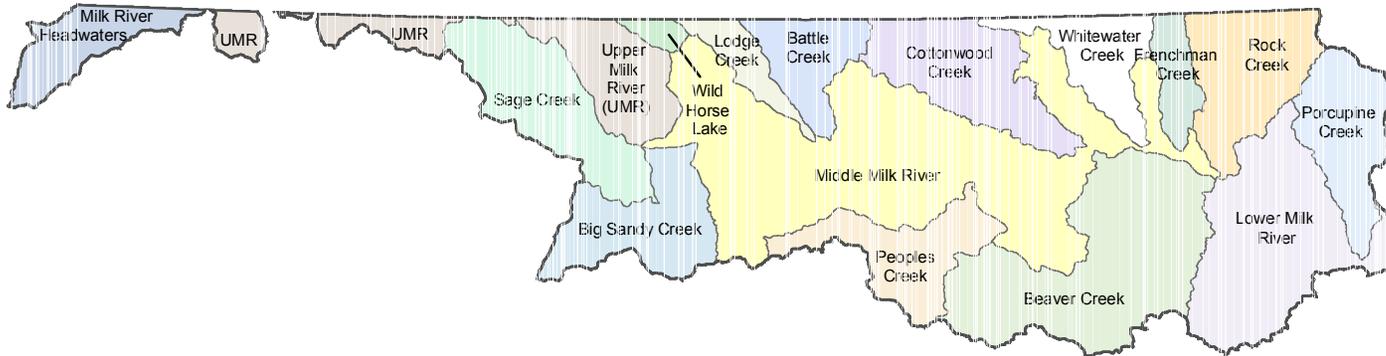
HUC 10040205 Lower Musselshell		Watershed Musselshell													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Musselshell	MT40C003_010	MUSSELSHELL RIVER, Flatwillow Creek to Fort Peck Reservoir	4C	75.94	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture  Flow Alterations from Water Diversions Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Impacts from Resort Areas (Winter and Non-winter Resorts) Streambank Modifications/destablization
Lower Musselshell	MT40C004_030	BLOOD CREEK, Dovetail County Road to mouth (Musselshell River)	4C	57.36	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones Natural Sources

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

# Milk Sub-Major Basin

Missouri River Basin

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



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## Appendix A: Impaired Waters

HUC 10050002 Upper Milk		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Milk	MT40F003_010	MILK RIVER, Eastern, Canada border to Fresno Reservoir	5	39.66	MILES	B-3	N	N	F	N	N	F		Copper High Flow Regime Iron Lead	Flow Alterations from Water Diversions Natural Sources Source Unknown
Upper Milk	MT40F005_010	FRESNO RESERVOIR (Milk River)	4C	4000	ACRES	B-3	P	P	F	F	X	X		Other flow regime alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification

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## Appendix A: Impaired Waters

HUC 10050004 Middle Milk		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J001_011	MILK RIVER, Fresno Dam to Thirtymile Creek	5	113.28	MILES	B-3	X	X	F	F	N	X		Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_012	MILK RIVER, Thirtymile Creek to Dobson Creek	5	58.19	MILES	B-3	X	X	F	F	N	X		Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_013	MILK RIVER, Dobson Creek to Whitewater Creek	5	102.75	MILES	B-3	X	X	F	F	N	X		Mercury	Agriculture Dam or Impoundment Natural Sources
Middle Milk and Tributaries	MT40J001_020	MILK RIVER, Whitewater Creek to Beaver Creek	5	38.24	MILES	B-3	P	N	F	F	F	F		Alteration in stream-side or littoral vegetative covers Iron Nitrates Other flow regime alterations	Crop Production (Crop Land or Dry Land) Flow Alterations from Water Diversions Irrigated Crop Production Natural Sources Rangeland Grazing
Middle Milk and Tributaries	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	5	24.92	MILES	B-1	N	N	F	F	N	F		Iron Lead Mercury Other flow regime alterations Sedimentation/Siltation Temperature, water	Channelization Natural Sources Source Unknown
Middle Milk and Tributaries	MT40J002_020	BULLHOOK CREEK, headwaters to the Bullhook Dam, T32N R16E S16	5	24.9	MILES	B-3	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Sedimentation/Siltation Temperature, water	Habitat Modification - other than Hydromodification Natural Sources Residential Districts Source Unknown Streambank Modifications/destablization
Middle Milk and Tributaries	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	5	50.17	MILES	B-1	N	N	F	F	F	F		Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources

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## Appendix A: Impaired Waters

HUC 10050004 Middle Milk		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	5	50.17	MILES	B-1	N	N	F	F	F	F	F	Phosphorus (Total)	Rangeland Grazing
														Sedimentation/Siltation	Source Unknown
														Temperature, water	
														Total Kjehldahl Nitrogen (TKN)	

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## Appendix A: Impaired Waters

HUC 10050005 Big Sandy		Watershed Milk												Cause Name	Source Name
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Sandy - Sage	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	5	62.93	MILES	B-3	P	F	F	F	N	X		Mercury	Agriculture
														Salinity	Atmospheric Depositon - Nitrogen
														Sulfates	Crop Production (Crop Land or Dry Land)
														Total Dissolved Solids	Natural Sources
															Source Unknown

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## Appendix A: Impaired Waters

HUC 10050006 Sage		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Sandy - Sage	MT40G001_011	SAGE CREEK, Laird Creek to the confluence of Russell Creek, T36N R9E S32	4A	9.94	MILES	B-1	P	P	P	N	P	F		Alteration in stream-side or littoral vegetative covers Salinity Sulfates Total Dissolved Solids	Agriculture Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Non-irrigated Crop Production
Big Sandy - Sage	MT40G001_012	SAGE CREEK, the section line between 1 & 12 T36N R6E to the mouth	4A	111.75	MILES	B-3	P	P	P	N	P	F		Alteration in stream-side or littoral vegetative covers Salinity Sulfates Total Dissolved Solids	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Non-irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10050007 Lodge		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	5	83.08	MILES	B-3	P	P	P	F	N	F		Low flow alterations	Agriculture
														Mercury	Dam or Impoundment
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Golf Courses
														Oxygen, Dissolved	Residential Districts
														Phosphorus (Total)	Source Unknown
														Total Kjehldahl Nitrogen (TKN)	

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## Appendix A: Impaired Waters

HUC 10050008 Battle		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40J004_010	BATTLE CREEK, Canadian border to mouth (Milk River)	5	74.33	MILES	B-3	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Cause Unknown Chlorophyll-a Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Rangeland Grazing

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## Appendix A: Impaired Waters

HUC 10050009 Peoples		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	5	57.19	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Mercury Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Temperature, water	Grazing in Riparian or Shoreline Zones Source Unknown
Landusky	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	5	1.36	MILES	B-1	N	N	F	F	N	X		Aluminum Arsenic Cadmium Nickel Zinc	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings Surface Mining
Landusky	MT40I001_040	KING CREEK, headwaters to Fort Belknap Reservation boundary	5	.9	MILES	B-1	N	N	F	F	F	X		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Selenium	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Landusky	MT40I001_050	LODGE POLE CREEK, headwaters to Fort Belknap Reservation boundary	5	4.34	MILES	B-1	N	N	F	F	N	X		Alteration in stream-side or littoral vegetative covers Cadmium Cause Unknown Mercury	Source Unknown Subsurface (Hardrock) Mining Surface Mining
Landusky	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	5	1.73	MILES	B-1	N	N	F	F	N	F		Aluminum Arsenic Cadmium Copper Cyanide Iron Lead Nickel Selenium	Impacts from Abandoned Mine Lands (Inactive) Natural Sources Open Pit Mining

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## Appendix A: Impaired Waters

HUC 10050009 Peoples		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT401002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	5	1.73	MILES	B-1	N	N	F	F	N	F		Thallium Zinc pH	

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## Appendix A: Impaired Waters

HUC 10050010 Cottonwood		Watershed Milk														
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name	
Middle Milk and Tributaries	MT40J005_020	COTTONWOOD CREEK, Black Coulee to mouth (Milk River)	5/2B	57.36	MILES	B-3	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Iron Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources Source Unknown	

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## Appendix A: Impaired Waters

HUC 10050011 Whitewater		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40K001_010	WHITEWATER CREEK, Canadian border to mouth (Milk River)	5	67.63	MILES	B-3	F	F	F	F	N	F		Mercury	Source Unknown

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## Appendix A: Impaired Waters

HUC 10050012 Lower Milk		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Milk	MT40O001_010	MILK RIVER, Beaver Creek to mouth (Missouri River)	5	134.52	MILES	B-3	X	X	P	P	N	T		Fecal Coliform Lead Mercury	Agriculture Dam or Impoundment Source Unknown
Lower Milk	MT40O002_020	BUGGY CREEK, headwaters to mouth (Milk River)	5	46.53	MILES	B-3	P	P	F	F	F	F		Iron	Natural Sources
Lower Milk	MT40O002_031	WILLOW CREEK, headwaters to Halfpint Reservoir, T25N R35E S26	5	10.38	MILES	B-3	P	P	F	F	X	X		Alteration in stream-side or littoral vegetative covers Other flow regime alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization Upstream Impoundments (e.g., PI-566 NRCS Structures)
Lower Milk	MT40O002_033	WILLOW CREEK, Halfpint Reservoir to mouth (Milk River), T28N R40E S29	5	76.13	MILES	B-3	N	N	F	F	X	X		Alteration in stream-side or littoral vegetative covers Other flow regime alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones
Lower Milk	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	5	16.53	MILES	B-3	N	N	F	F	F	F		Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Solids (Suspended/Bedload)	Dam or Impoundment Natural Sources Rangeland Grazing
Lone Tree Creek	MT40O002_050	LONE TREE CREEK, headwaters to mouth at Willow Creek	4A	22.22	MILES	B-3	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Nitrogen (Total)	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization

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## Appendix A: Impaired Waters

HUC 10050013 Frenchman		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Milk and Tributaries	MT40L001_010	FRENCHMAN CREEK, Canadian border to mouth (Milk River)	4C	82.5	MILES	B-3	P	P	P	P	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a  Low flow alterations	Agriculture  Dam or Impoundment  Grazing in Riparian or Shoreline Zones Source Unknown

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## Appendix A: Impaired Waters

HUC 10050014 Beaver		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Landusky	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	5	5.4	MILES	B-3	N	N	F	F	F	F	F	Cadmium Iron Lead	Impacts from Abandoned Mine Lands (Inactive) Source Unknown
Beaver	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Creek	5	55.12	MILES	B-3	P	P	F	F	N	F	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	P	P	F	F	N	F	F	Mercury Phosphorus (Total)	Source Unknown
Beaver	MT40M001_020	BEAVER CREEK, Bowdoin Canal to mouth (Milk River)	5	86.86	MILES	B-3	P	P	F	F	X	X	X	Alteration in stream-side or littoral vegetative covers Nitrogen (Total) Phosphorus (Total) Physical substrate habitat alterations Uranium	Agriculture Source Unknown
Beaver	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	5	36.88	MILES	B-3	N	N	N	F	N	F	F	Arsenic Cadmium Copper Iron Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Oxygen, Dissolved Phosphorus (Total) Solids (Suspended/Bedload) Total Kjehldahl Nitrogen (TKN) Zinc	Natural Sources Source Unknown
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5/2B	76.67	MILES	B-3	N	N	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Copper Lead Oxygen, Dissolved	Agriculture Animal Feeding Operations (NPS) Natural Sources Source Unknown

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## Appendix A: Impaired Waters

HUC 10050014 Beaver		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Beaver	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	5	76.67	MILES	B-3	N	N	F	F	F	F	F	Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	
Beaver	MT40M002_030	BIG WARM CREEK, Fort Belknap Reservation boundary to mouth (Beaver Creek)	5	57.08	MILES	B-3	P	P	P	F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Phosphorus (Total) Physical substrate habitat alterations Salinity Sedimentation/Siltation	Agriculture Dam or Impoundment Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Beaver	MT40M003_010	LAKE BOWDOIN	5	3500	ACRES	B-3	P	X	P	P	N	X	X	Salinity Selenium	Agriculture Dam or Impoundment Irrigated Crop Production
Beaver	MT40M003_020	NELSON RESERVOIR	5	3901.7	ACRES	B-3	P	P	F	F	X	P	P	Other flow regime alterations Phosphorus (Total)	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production

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## Appendix A: Impaired Waters

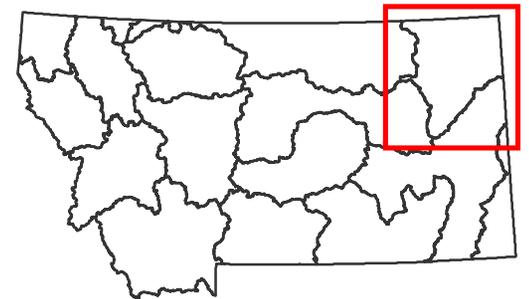
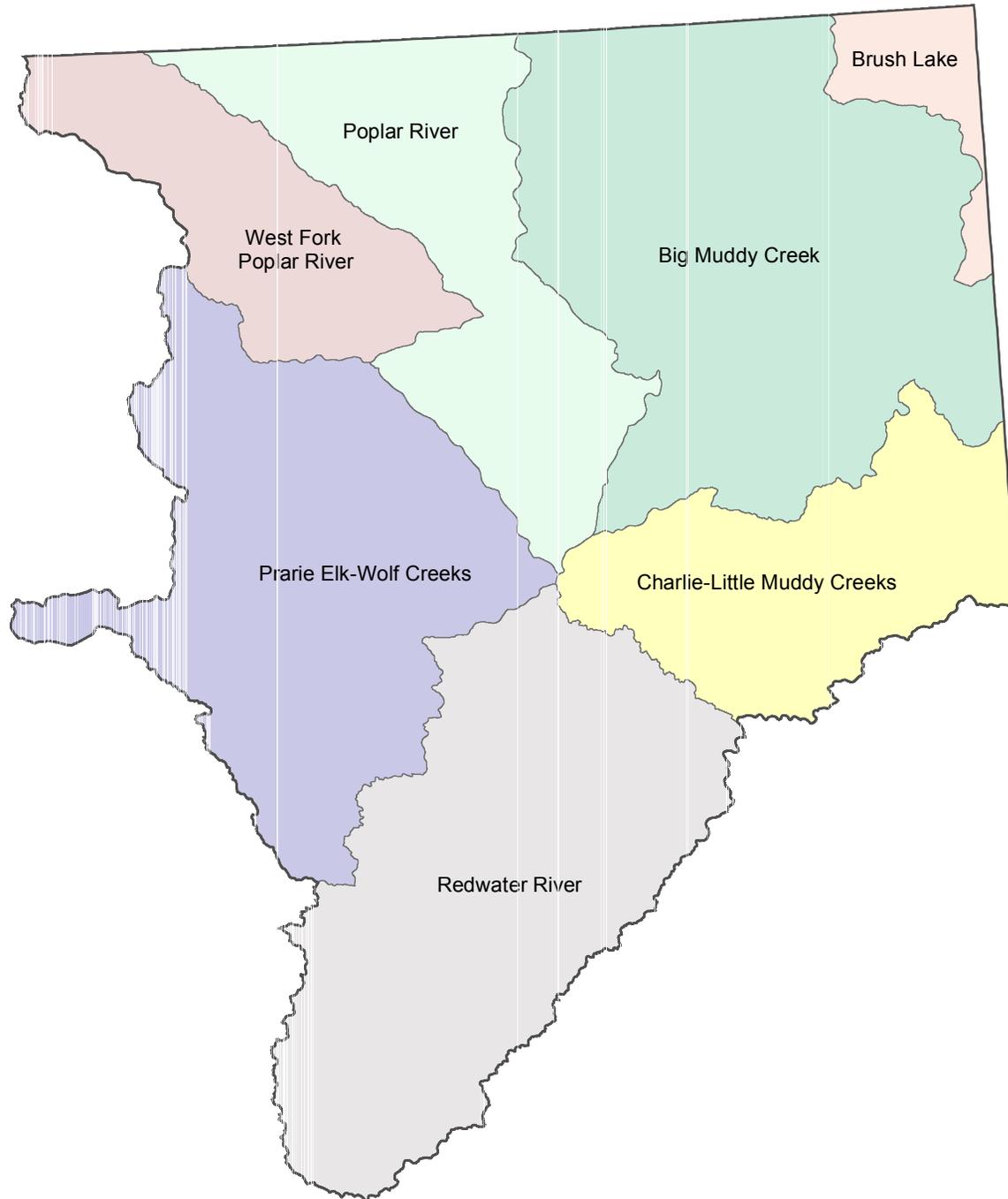
HUC 10050016 Porcupine		Watershed Milk													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Milk - Rock	MT40O003_010	PORCUPINE CREEK, confluence of West and Middle Forks to mouth (Milk River)	5	49.29	MILES	B-3	P	P	P	P	F	X		Nitrogen (Total) Phosphorus (Total) Salinity	Non-irrigated Crop Production

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

# Lower Missouri Sub-Major Basin

Missouri River Basin

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



Montana Department of  
Environmental Quality



## Appendix A: Impaired Waters

HUC 10060001		Prairie Elk-Wolf		Watershed		Lower Missouri									
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40S001_011	MISSOURI RIVER, Fort Peck Dam to Milk River	5	9.79	MILES	B-2	P	P		F	F	F	F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations  Temperature, water	Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40S001_012	MISSOURI RIVER, Milk River to Poplar River	5	81.86	MILES	B-3	P		P	F	F	F	X	Alteration in stream-side or littoral vegetative covers Other flow regime alterations  Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Loss of Riparian Habitat
Redwater	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	5	38.87	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Phosphorus (Total)  Physical substrate habitat alterations Total Kjehldahl Nitrogen (TKN)	Agriculture Grazing in Riparian or Shoreline Zones
Redwater	MT40S002_030	SAND CREEK, confluence of East and West Rorks to mouth (Missouri River)	5	19.82	MILES	C-3	P		P				X	Phosphorus (Total)  Physical substrate habitat alterations Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Agriculture Non-irrigated Crop Production Rangeland Grazing

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## Appendix A: Impaired Waters

HUC 10060002 Redwater		Watershed Lower Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Redwater	MT40P001_012	REDWATER RIVER, Hell Creek to Buffalo Springs Creek	5	7.67	MILES	C-3	P	F					F	Cause Unknown Nitrogen (Total) Phosphorus (Total)	Municipal Point Source Discharges Natural Sources 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	P	P					F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Natural Sources Rangeland Grazing
Redwater	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	5	50.61	MILES	C-3	P	P					P	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Specific Conductance Sulfates Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	Agriculture Source Unknown
Redwater	MT40P002_020	HORSE CREEK, headwaters to mouth at Redwater River near town of Circle	5	32.43	MILES	C-3	P	P					X	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Salinity	Non-irrigated Crop Production Rangeland Grazing Source Unknown
Redwater	MT40P002_030	PASTURE CREEK, headwaters to mouth at Redwater River	5	39.72	MILES	C-3	P	N					F	Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Source Unknown

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## Appendix A: Impaired Waters

HUC 10060003 Poplar

Watershed Lower Missouri

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

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

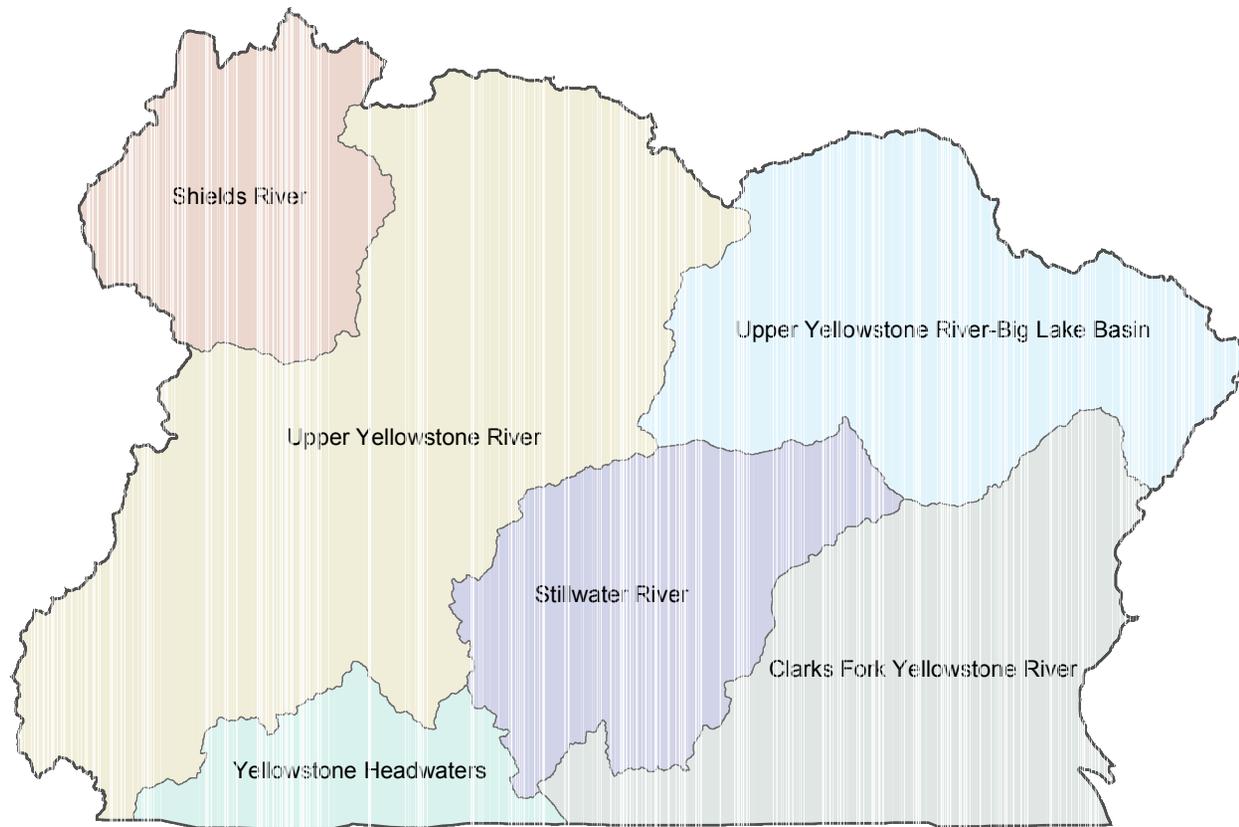
HUC 10060006 Big Muddy		Watershed Lower Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Missouri	MT40R001_010	BIG MUDDY CREEK, north corner of Fort Peck Reservation boundary to mouth (Missouri River)	5	82.08	MILES	C-3	P		P				X	Alteration in stream-side or littoral vegetative covers Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification
Lower Missouri	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	5	119.54	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Copper Lead Mercury Organic Enrichment (Sewage) Biological Indicators Phosphorus (Total) Total Kjehldahl Nitrogen (TKN) Zinc	Agriculture Grazing in Riparian or Shoreline Zones Non-irrigated Crop Production Source Unknown
Lower Missouri	MT40R003_010	MEDICINE LAKE	5	8599	ACRES	C-3	P		P				F	Cadmium Lead Mercury	Atmospheric Depositon - Toxics Source Unknown

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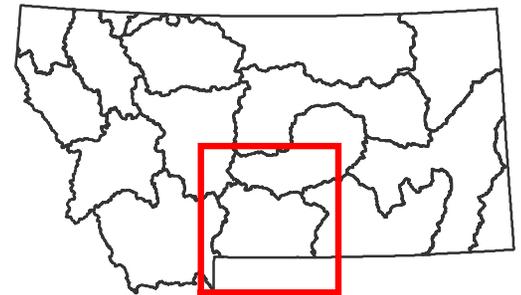


# Upper Yellowstone Sub-Major Basin

Yellowstone River Basin



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



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Environmental Quality



## Appendix A: Impaired Waters

HUC 10070001		Yellowstone Headwaters		Watershed		Upper Yellowstone									
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	5	4.79	MILES	B-1	P	P	F	F	N	F		Ammonia (Total)	Highway/Road/Bridge Runoff (Non-construction Related)
														Arsenic	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, Montana State border to Yellowstone Park Boundary	5	8.68	MILES	A-1	P	P	X	X	N	X		Ammonia (Un-ionized)	Highway/Road/Bridge Runoff (Non-construction Related)
														Arsenic	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, border to mouth (Yellowstone River)	4C	5.23	MILES	A-1	F	P	F	F	F	F		Fish-Passage Barrier	Source Unknown
Paradise	MT43B002_021	BEAR CREEK, 1/2 mi. below Jardine Mine to mouth (Yellowstone River)	5	3.03	MILES	B-1	P	P	F	P	F	P		Low flow alterations	Flow Alterations from Water Diversions
														Temperature, water	
Cooke City	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	4A	4.86	MILES	B-1	P	P	X	X	X	F		Copper	Acid Mine Drainage
														Iron	Mine Tailings
														Lead	
														Manganese	
Cooke City	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	4A	2.56	MILES	B-1	X	N	X	X	N	X		Aluminum	Acid Mine Drainage
														Cadmium	Mine Tailings
														Copper	Natural Sources
														Iron	
														Lead	
														Manganese	
														Zinc	

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## Appendix A: Impaired Waters

HUC 10070002 Upper Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43B003_010	YELLOWSTONE RIVER, Reese Creek to Bridger Creek	4C	119.01	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Streambank Modifications/destabilization
Yellowstone - Sweet Grass	MT43B004_011	OTTER CREEK, 2 mi downstream of Highway 191 bridge to mouth (Yellowstone River)	4C	29.57	MILES	B-1	P	P	X	X	X	X		Other flow regime alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_012	OTTER CREEK, headwaters to 2 mi downstream of Highway 191 bridge	5	24.5	MILES	B-1	P	P	F	F	F	I		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Agriculture
Yellowstone - Sweet Grass	MT43B004_021	BIG TIMBER CREEK, Swamp Creek to mouth (Yellowstone River)	4C	5.37	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	5	26.75	MILES	B-1	P	P	F	F	P	I		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Manganese Nickel Sedimentation/Siltation Selenium Solids (Suspended/Bedload)	Agriculture Grazing in Riparian or Shoreline Zones Source Unknown
Yellowstone - Sweet Grass	MT43B004_031	LOWER DEER CREEK, 4 mile upstream to mouth (Yellowstone River)	4C	4.43	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_041	UPPER DEER CREEK, Cartwright Gulch to mouth (Yellowstone River)	4C	6.95	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Yellowstone - Sweet Grass	MT43B004_042	UPPER DEER CREEK, headwaters to Cartwright Gulch	5	16.63	MILES	B-1	P	P	F	F	F	I		Alteration in stream-side or littoral vegetative covers Solids (Suspended/Bedload)	Grazing in Riparian or Shoreline Zones Silviculture Activities
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	5	1.37	MILES	B-1	P	P	F	F	F	P		Excess Algal Growth Fish-Passage Barrier	Agriculture Channelization

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## Appendix A: Impaired Waters

HUC 10070002 Upper Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Paradise	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	5	1.37	MILES	B-1	P	P	F	F	F	P		Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Habitat Modification - other than Hydromodification Source Unknown
Paradise	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	5	13.44	MILES	B-1	P	P	F	F	F	F		Combined Biota/Habitat Bioassessments Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Agriculture Channelization Source Unknown
Paradise	MT43B004_061	TOM MINER CREEK, Tepee Creek to mouth (Yellowstone River)	5	.73	MILES	B-1	P	P	F	F	F	P		Low flow alterations Temperature, water	Flow Alterations from Water Diversions
Paradise	MT43B004_071	MILL CREEK, National Forest boundary to mouth (Yellowstone River)	4C	7.4	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Agriculture Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_081	PINE CREEK, 2.5 miles upstream to mouth (Yellowstone River)	4C	2.42	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production
Paradise	MT43B004_090	SUCE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Yellowstone River)	4C	3.85	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_101	SIX MILE CREEK, National Forest boundary to mouth (Yellowstone River)	4C	6.19	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification
Paradise	MT43B004_102	SIX MILE CREEK, Absaroka-Beartooth Wilderness boundary to National Forest boundary	5	2.54	MILES	B-1	P	P	X	X	X	X		Other anthropogenic substrate alterations Sedimentation/Siltation	Loss of Riparian Habitat Placer Mining
Big Creek (Yellowstone)	MT43B004_111	BIG CREEK, National Forest boundary to mouth (Yellowstone River)	4C	4.25	MILES	B-1	P	P	X	X	X	P		Low flow alterations	Flow Alterations from Water Diversions
Paradise	MT43B004_120	MOL HERON CREEK, Yellowstone National Park boundary to mouth (Yellowstone River)	4C	9.03	MILES	B-1	P	P	F	F	F	F		Low flow alterations	Agriculture
Boulder - Big Timber	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	5	5.51	MILES	B-1	P	P	F	F	F	P		Copper Iron Lead Low flow alterations Silver	Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above	5	27.84	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Agriculture

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## Appendix A: Impaired Waters

HUC 10070002 Upper Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Big Timber	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	5	27.84	MILES	B-1	P	P	F	F	F	F	F	Chromium (total) Copper Iron Lead Nickel Nitrate/Nitrite (Nitrite + Nitrate as N) Total Kjehldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Source Unknown
Boulder - Big Timber	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	5	24.08	MILES	B-1	P	P	F	F	F	P	P	Copper Excess Algal Growth Iron Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Total Kjehldahl Nitrogen (TKN)	Source Unknown
Boulder - Big Timber	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	4A	9.02	MILES	B-1	P	P	F	F	N	F	F	Copper Iron Lead	Impacts from Abandoned Mine Lands (Inactive)
Boulder - Big Timber	MT43B004_141	EAST BOULDER RIVER, Elk Creek to mouth (Boulder River)	5	3.14	MILES	B-1	P	P	F	F	F	P	P	Chlorophyll-a Low flow alterations Other anthropogenic substrate alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Source Unknown Streambank Modifications/destablization
Boulder - Big Timber	MT43B004_142	EAST BOULDER RIVER, NF boundary to Elk Creek	4C	3.07	MILES	B-1	P	P	F	F	I	P	P	Chlorophyll-a Low flow alterations	Agriculture Source Unknown
Yellowstone - Sweet Grass	MT43B004_150	SWEET GRASS CREEK, headwaters to mouth (Yellowstone River)	4C	79.33	MILES	B-1	P	P	F	F	F	I	I	Alteration in stream-side or littoral vegetative covers	Agriculture
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	4A	1.55	MILES	B-1	N	N	X	X	X	X	X	Copper Iron	

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## Appendix A: Impaired Waters

HUC 10070002		Upper Yellowstone		Watershed		Upper Yellowstone									
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Boulder - Big Timber	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	4A	1.55	MILES	B-1	N	N	X	X	X	X	X	Lead	

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## Appendix A: Impaired Waters

HUC 10070003 Shields		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Shields	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	4A	18.99	MILES	B-1	P	P	X	X	X	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Shields	MT43A001_012	SHIELDS RIVER, headwaters to Cottonwood Creek	4A	44.99	MILES	B-1	P	P	X	X	X	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Hydrostructure Flow Regulation/modification Silviculture Activities Streambank Modifications/destablization
Shields	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	4A	27.76	MILES	B-1	P	P	F	F	F	F		Low flow alterations Sedimentation/Siltation Solids (Suspended/Bedload)	Impacts from Hydrostructure Flow Regulation/modification
Shields	MT43A002_020	ANTELOPE CREEK, headwaters to mouth (Shields River)	5	10.37	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Solids (Suspended/Bedload)	Agriculture Livestock (Grazing or Feeding Operations) Source Unknown
Shields	MT43A002_031	COTTONWOOD CREEK, confluence of Trespass Creek to mouth (Shields River)	4C	18.32	MILES	B-1	P	P	F	F	F	P		Low flow alterations	Irrigated Crop Production
Shields	MT43A002_040	ELK CREEK, headwaters to mouth (Shields River)	4C	3.83	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Shields	MT43A002_051	ROCK CREEK, National Forest boundary to mouth (Shields River)	4C	14.34	MILES	B-1	P	P	F	F	F	P		Low flow alterations	Flow Alterations from Water Diversions

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## Appendix A: Impaired Waters

HUC 10070004 Upper Yellowstone-Lake Basin		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT43F001_011	YELLOWSTONE RIVER, City of Laurel PWS to City of Billings PWS	5	19.7	MILES	B-2	N	I	F	F	I	N		Cause Unknown Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Other anthropogenic substrate alterations Physical substrate habitat alterations	Channelization Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges Streambank Modifications/destablization
Yellowstone - Sweet Grass	MT43F002_010	DUCK CREEK, headwaters to mouth (Yellowstone River)	5	14.13	MILES	B-2	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Channelization Drought-related Impacts Grazing in Riparian or Shoreline Zones
Yellowstone - Sweet Grass	MT43F002_021	CANYON CREEK, highway 532 to mouth (Yellowstone River)	4C	19.6	MILES	B-1	P	P	X	X	X	X		Other flow regime alterations	Flow Alterations from Water Diversions
Yellowstone - Sweet Grass	MT43F002_022	CANYON CREEK, headwaters to highway 532	5/2B	29.7	MILES	B-2	P	I	F	F	F	F		Alteration in stream-side or littoral vegetative covers Low flow alterations Oxygen, Dissolved Sedimentation/Siltation	Agriculture Channelization Drought-related Impacts
Yellowstone - Sweet Grass	MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	5/2B	14.75	MILES	B-2	P	I	F	F	F	F		Alteration in stream-side or littoral vegetative covers Benthic-Macroinvertebrate Bioassessments Other flow regime alterations Oxygen, Dissolved Sedimentation/Siltation	Agriculture Channelization Drought-related Impacts Irrigated Crop Production Loss of Riparian Habitat
Lake Basin - Spidel	MT43F003_010	BIG LAKE	5	2806	ACRES	B-2	N	N	N	N	N	X		Salinity	Agriculture
Lake Basin - Spidel	MT43F003_020	HAILSTONE LAKE, T3N R20E S13	5	538	ACRES	B-2	P	N	N	N	N	X		Salinity	Agriculture
Lake Basin - Spidel	MT43F003_030	HALFBREED LAKE, T3N R21E S33	5	278	ACRES	B-2	P	P	P	P	P	X		Salinity	Agriculture

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## Appendix A: Impaired Waters

HUC 10070005 Stillwater		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Cooke City	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	4A	21.69	MILES	B-1	P	P	F	F	N	X	Copper	Acid Mine Drainage	
													Iron	Highway/Road/Bridge Runoff (Non-construction Related)	
													Manganese	Impacts from Abandoned Mine Lands (Inactive)	
													Sedimentation/Siltation	Mine Tailings	
													pH	Natural Sources	
Stillwater - Columbus	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	5	45.59	MILES	B-1	P	P	F	F	N	F	Cadmium	Hardrock Mining Discharges (Permitted)	
													Chromium (total)	Impacts from Abandoned Mine Lands (Inactive)	
													Copper	Natural Sources	
													Cyanide	Source Unknown	
													Mercury	Watershed Runoff following Forest Fire	
													Nickel		
	Nitrate/Nitrite (Nitrite + Nitrate as N)														
Stillwater - Columbus	MT43C002_010	LODGEPOLE CREEK, headwaters to mouth (Castle Creek)	5	5.91	MILES	B-1	P	P	F	F	F	N	Chlorophyll-a	Irrigated Crop Production	
													Nitrate/Nitrite (Nitrite + Nitrate as N)	Rangeland Grazing	
														Source Unknown	
Stillwater - Columbus	MT43C002_020	BAD CANYON CREEK, headwaters to mouth (Stillwater River)	4C	11.34	MILES	B-1	F	F	F	F	F	P	Chlorophyll-a	Rangeland Grazing	
Stillwater - Columbus	MT43C002_030	CASTLE CREEK, headwaters to the mouth (Limestone Creek), T4S R15E S29	5	8.29	MILES	B-1	P	P	F	F	F	N	Chlorophyll-a	Livestock (Grazing or Feeding Operations)	
													Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown	
														Upstream Source	
Stillwater - Columbus	MT43C002_041	GROVE CREEK, confluence of South Fork Grove Creek, T4S R18E S13 to the mouth (Stillwater River), T3S R18E S34	5	5.23	MILES	B-1	P	P	F	F	F	P	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones	
													Chlorophyll-a	Irrigated Crop Production	
													Phosphorus (Total)	Loss of Riparian Habitat	
													Sedimentation/Siltation	Natural Sources	
Stillwater - Columbus	MT43C002_050	FISHTAIL CREEK, headwaters to mouth (West Rosebud Creek)	5	14.8	MILES	B-1	P	P	F	F	F	F	Iron	Source Unknown	
													Lead		
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth	5	13.16	MILES	B-1	P	P	F	F	F	N	Chlorophyll-a	Flow Alterations from Water	

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

## Appendix A: Impaired Waters

HUC 10070005 Stillwater		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Stillwater - Columbus	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	5	13.16	MILES	B-1	P	P	F	F	F	N		Low flow alterations	Diversions
														Sedimentation/Siltation	Irrigated Crop Production
Stillwater - Columbus	MT43C002_081	BUTCHER CREEK, highway 78 to mouth (Rosebud Creek)	5	22.02	MILES	B-1	P	P	F	P	F	X		High Flow Regime	Streambank Modifications/destablization
														Physical substrate habitat alterations	Transfer of Water from an Outside Watershed
														Solids (Suspended/Bedload)	
Stillwater - Columbus	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	5	4.98	MILES	B-1	P	P	F	F	F	P		Chlorophyll-a	Hydrostructure Impacts on Fish Passage
														Fish-Passage Barrier	Natural Sources
														Phosphorus (Total)	Source Unknown
														Sedimentation/Siltation	
														Solids (Suspended/Bedload)	
Stillwater - Columbus	MT43C002_090	WEST ROSEBUD CREEK, headwaters to mouth (Rosebud Creek)	5	40.45	MILES	B-1	P	P	F	F	F	F		Benthic-Macroinvertebrate Bioassessments	Source Unknown
Stillwater - Columbus	MT43C002_100	ROSEBUD CREEK, East and West Branches to mouth (Stillwater River)	5	3.93	MILES	B-1	P	P	F	F	F	F		Benthic-Macroinvertebrate Bioassessments	Source Unknown
Cooke City	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	4A	1.94	MILES	B-1	N	N	N	N	N	N		Aluminum	Acid Mine Drainage
														Cadmium	Highway/Road/Bridge Runoff (Non-construction Related)
														Copper	Impacts from Abandoned Mine Lands (Inactive)
														Iron	Mine Tailings
														Lead	Natural Sources
														Manganese	
														Sedimentation/Siltation	
Zinc															
pH															

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## Appendix A: Impaired Waters

HUC 10070006 Clarks Fork Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	5	46.22	MILES	B-2	P	P	P	P	I	P		Ammonia (Total) Chlorophyll-a Copper Iron Lead Low flow alterations Mercury Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Physical substrate habitat alterations Solids (Suspended/Bedload) Temperature, water Total Kjehldahl Nitrogen (TKN)	Habitat Modification - other than Hydromodification Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Source Unknown Streambank Modifications/destablization
Cooke City	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	4A	5.06	MILES	B-1	P	P	F	F	F	X		Cadmium Copper Lead Silver Zinc pH	Acid Mine Drainage Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Clarks Fork Yellowstone	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	5/2B	38.57	MILES	B-1	P	I	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Solids (Suspended/Bedload) Total Kjehldahl Nitrogen (TKN)	Animal Feeding Operations (NPS) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Rangeland Grazing
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	5	21.14	MILES	B-1	N	N	F	F	F	N		Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Impacts from Abandoned Mine Lands (Inactive) Irrigated Crop Production

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## Appendix A: Impaired Waters

HUC 10070006 Clarks Fork Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	5	21.14	MILES	B-1	N	N	F	F	F	N		High Flow Regime Iron Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Loss of Riparian Habitat Rangeland Grazing Transfer of Water from an Outside Watershed
Clarks Fork Yellowstone	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	5	11.41	MILES	B-1	P	N	F	F	F	P		Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Solids (Suspended/Bedload)	Agriculture Animal Feeding Operations (NPS) Aquaculture (Permitted) Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_050	RED LODGE CREEK, headwaters to Cooney Reservoir	4C	17.93	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones
Clarks Fork Yellowstone	MT43D002_060	RED LODGE CREEK, Cooney Reservoir to mouth (Rock Creek)	5	12.07	MILES	B-1	P	P	X	X	X	X		Organic Enrichment (Sewage) Biological Indicators Other flow regime alterations Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization
Clarks Fork Yellowstone	MT43D002_070	WILLOW CREEK, headwaters to mouth (Cooney Reservoir)	5	36.46	MILES	B-1	P	P	X	X	X	X		Low flow alterations Sedimentation/Siltation	Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_080	WEST RED LODGE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Red Lodge Creek)	5	14.39	MILES	B-1	P	P	F	F	F	F		Sedimentation/Siltation	Natural Sources Source Unknown
Clarks Fork Yellowstone	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	5	21.77	MILES	B-1	N	I	P	P	N	F		Alteration in stream-side or littoral vegetative covers Other flow regime alterations Oxygen, Dissolved Phosphorus (Total) Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems) Solids (Suspended/Bedload) Specific Conductance	Channelization Dam or Impoundment Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Natural Sources Petroleum/natural Gas Production Activities (Permitted) Pipeline Breaks

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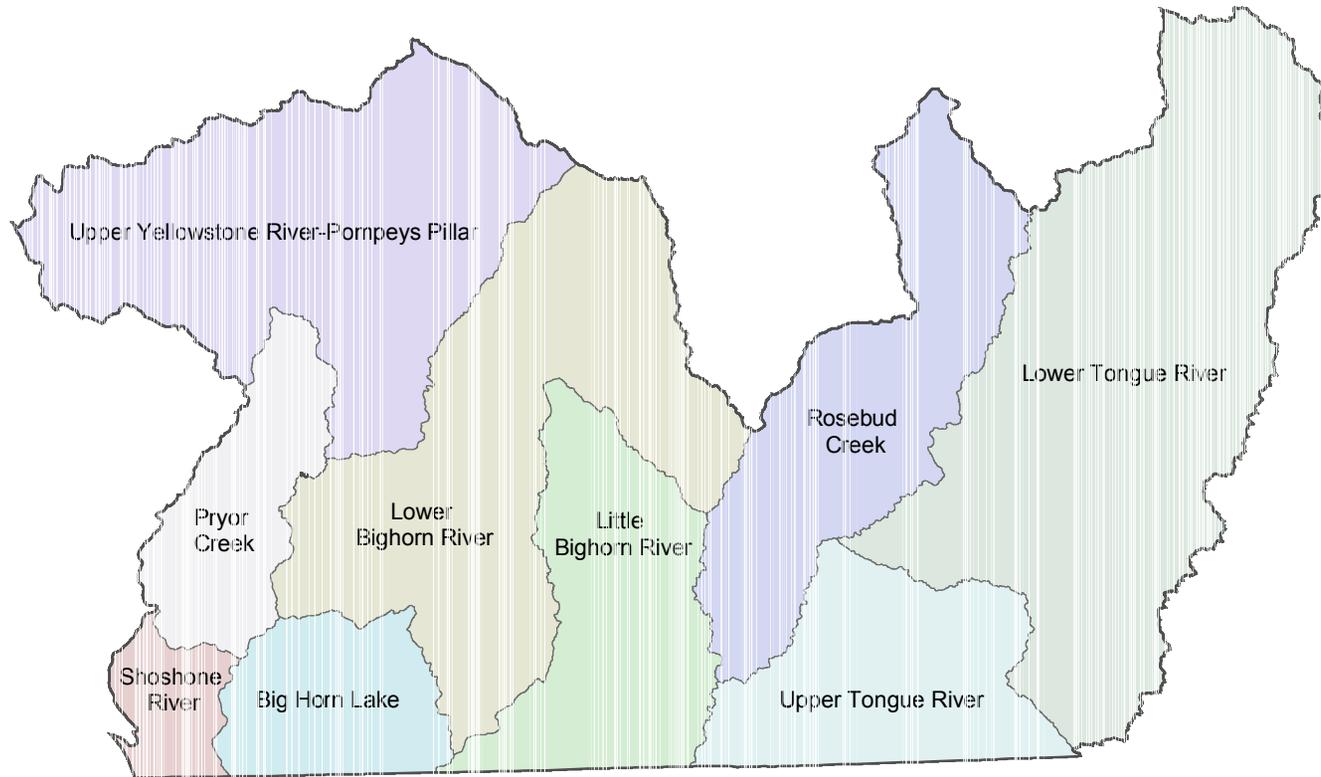
## Appendix A: Impaired Waters

HUC 10070006 Clarks Fork Yellowstone		Watershed Upper Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clarks Fork Yellowstone	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	5	21.77	MILES	B-1	N	I		P	P	N	F	Temperature, water Total Dissolved Solids Total Kjehldahl Nitrogen (TKN) Turbidity	Rangeland Grazing Upstream Source
Cooke City	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	4A	3.34	MILES	B-1	N	N		P	P	N	P	Aluminum Cadmium Copper Iron Lead Manganese Sedimentation/Siltation Silver Zinc pH	Acid Mine Drainage Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Clarks Fork Yellowstone	MT43D002_120	ROCK CREEK, Red Lodge Creek to mouth (Clarks Fork)	4C	16.02	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Flow Alterations from Water Diversions Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_131	ROCK CREEK, West Fork Rock Creek to Red Lodge Creek	4C	27.47	MILES	B-1	P	P		X	X	X	P	Low flow alterations	Flow Alterations from Water Diversions Irrigated Crop Production
Clarks Fork Yellowstone	MT43D002_140	COTTONWOOD CREEK, headwaters to the mouth (Clarks Fork of Yellowstone), T3S R24E S24	5/2B	19.57	MILES	B-1	P	I		F	F	F	F	Alteration in stream-side or littoral vegetative covers Oxygen, Dissolved Solids (Suspended/Bedload)	Agriculture Drought-related Impacts Grazing in Riparian or Shoreline Zones
Clarks Fork Yellowstone	MT43D002_180	SOUTH FORK BRIDGER CREEK, tributary to Bridger Creek	5	9.39	MILES	B-1	N	I		F	F	N	F	Arsenic Iron Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Natural Sources Source Unknown

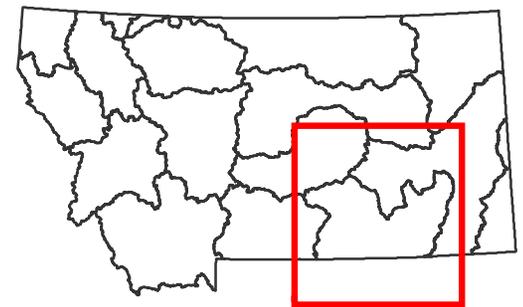
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# Middle Yellowstone Sub-Major Basin

Yellowstone River Basin



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



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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 10070008 Pryor			Watershed Middle Yellowstone												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone - Lower Bighorn	MT43E001_010	PRYOR CREEK, Interstate 90 bridge to mouth (Yellowstone River)	5	14.98	MILES	C-3	P		P				P	Benthic-Macroinvertebrate Bioassessments Low flow alterations	Flow Alterations from Water Diversions Irrigated Crop Production Source Unknown
Yellowstone - Lower Bighorn	MT43E001_011	PRYOR CREEK, Crow Reservation Boundary to Interstate 90 bridge	5	2.88	MILES	B-1	P	P		F	P	F	P	Excess Algal Growth Low flow alterations Sedimentation/Siltation	Agriculture Flow Alterations from Water Diversions Natural Sources Sources Outside State Jurisdiction or Borders Upstream Source

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## Appendix A: Impaired Waters

HUC 10080010 Bighorn Lake		Watershed Middle Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bighorn Lake - Shoshone	MT43P002_010	CROOKED CREEK, headwaters to Wyoming Border	4C	15.07	MILES	B-1	P	P		X	X	X	X	Physical substrate habitat alterations	Agriculture

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## Appendix A: Impaired Waters

HUC 10080015 Lower Bighorn			Watershed Middle Yellowstone												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone - Lower Bighorn	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	5	35.27	MILES	B-2	X	X		F	F	N	X	Lead Mercury	Source Unknown
Bighorn Lake - Shoshone	MT43R001_020	BIGHORN RIVER, Yellowtail Dam to Crow Indian Reservation boundary	5	44.03	MILES	B-1	P	P		F	F	X	X	Nitrogen (Total)	Source Unknown
Yellowstone - Lower Bighorn	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	5	58.83	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Iron Low flow alterations Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Dam or Impoundment Flow Alterations from Water Diversions Irrigated Crop Production Loss of Riparian Habitat Natural Sources Rangeland Grazing

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## Appendix A: Impaired Waters

HUC 10090101 Upper Tongue		Watershed Middle Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tongue	MT42B001_010	TONGUE RIVER, Wyoming border to Tongue River Reservoir	5	5.9	MILES	B-2	N	N	F	F	F	F	F	Iron Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Streambank Modifications/destablization
Tongue	MT42B001_020	TONGUE RIVER, Tongue River Dam to Prairie Dog Creek	4C	22.05	MILES	B-2	N	N	F	F	F	I	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization
Tongue	MT42B001_021	TONGUE RIVER, Prairie Dog Creek to Hanging Woman Creek	4C	12.27	MILES	B-3	N	N	I	I	I	I	I	Low flow alterations	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization
Tongue	MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	5/2B	18.27	MILES	C-3	N	N	N				I	Iron Low flow alterations Salinity Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production Natural Sources Rangeland Grazing Streambank Modifications/destablization
Tongue	MT42B002_032	HANGING WOMAN CREEK, Wyoming border to Stroud Creek	5/2B	31.37	MILES	C-3	N	N	N				I	Low flow alterations Salinity	Irrigated Crop Production Natural Sources
Tongue	MT42B003_010	TONGUE RIVER RESERVOIR	5	3500	ACRES	B-2	N	N	I	I	I	I	I	Chlorophyll-a Oxygen, Dissolved Solids (Suspended/Bedload)	Irrigated Crop Production Municipal Point Source Discharges

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## Appendix A: Impaired Waters

HUC 10090102 Lower Tongue

Watershed Middle Yellowstone

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

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## Appendix A: Impaired Waters

HUC 10090102 Lower Tongue			Watershed Middle Yellowstone												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tongue	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creek to the mouth (Tongue River)	5	92.19	MILES	C-3	N		N	N			I	Low flow alterations Salinity Temperature, water	Irrigated Crop Production Natural Sources

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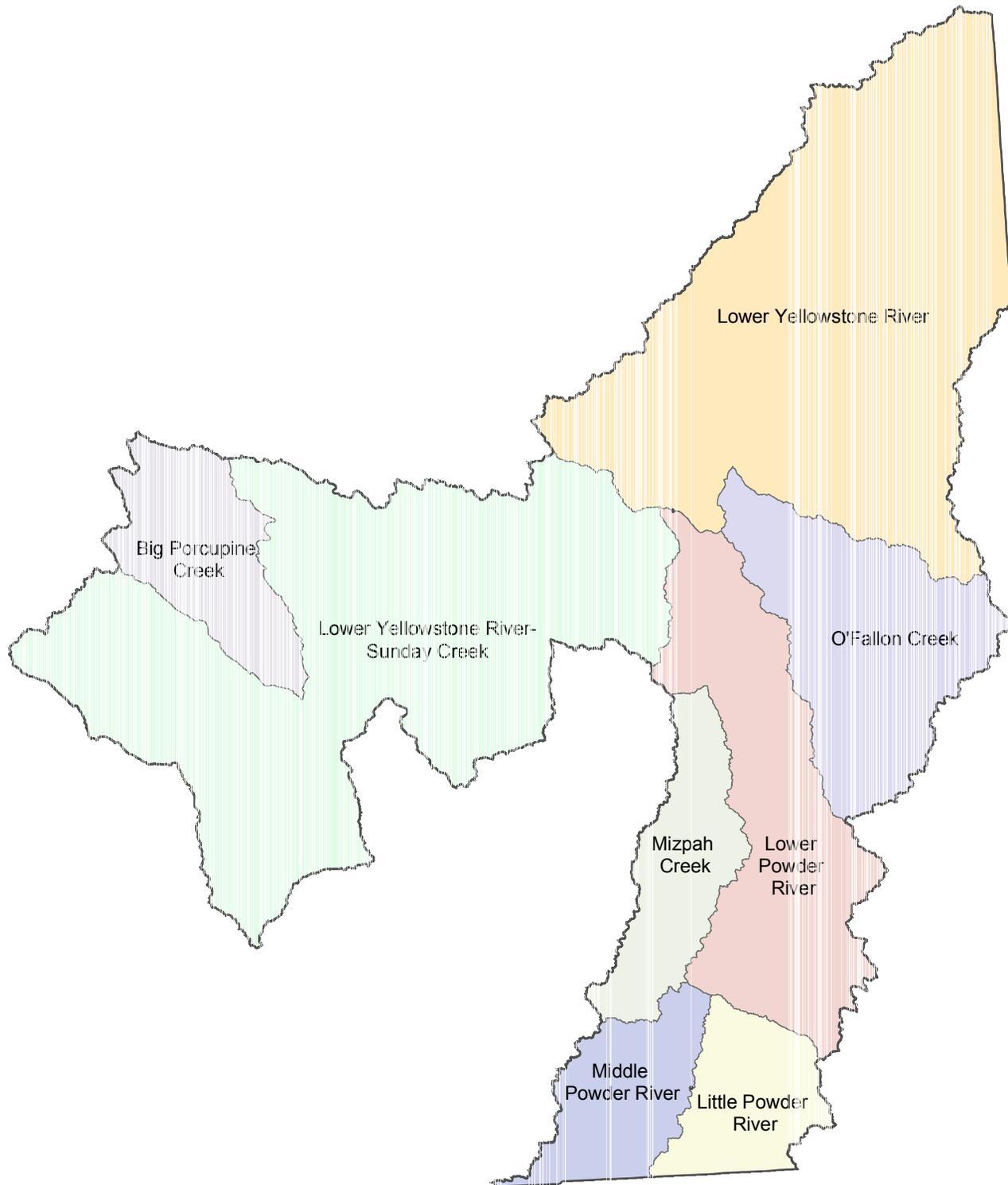
## Appendix A: Impaired Waters

HUC 10100003 Rosebud		Watershed Middle Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Rosebud	MT42A001_011	ROSEBUD CREEK, From the mouth 3.8 mi upstream to an irrigation dam	4C	4.46	MILES	C-3	P	P					X	Physical substrate habitat alterations	Loss of Riparian Habitat
Rosebud	MT42A001_012	ROSEBUD CREEK, Northern Cheyenne Reservation boundary to an irrigation dam 3.8 mi above the mouth	5	111.56	MILES	C-3	X	P					X	Other	Dam Construction (Other than Upstream Flood Control Projects)

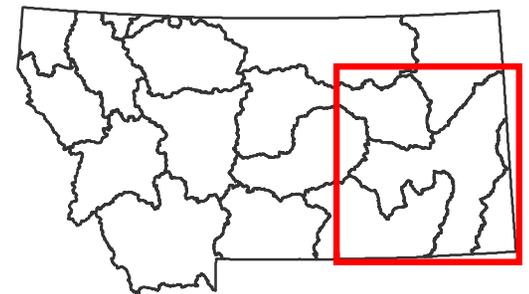
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# Lower Yellowstone Sub-Major Basin

Yellowstone River Basin



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



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## Appendix A: Impaired Waters

HUC 10090207 Middle Powder		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J001_010	POWDER RIVER, Wyoming border to Little Powder River	5	78.21	MILES	C-3	X	X	N				X	Salinity	Natural Sources Source Unknown

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## Appendix A: Impaired Waters

HUC 10090208 Little Powder		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT421001_010	LITTLE POWDER RIVER, the border to mouth (Powder River)	5	63.31	MILES	C-3	X	X	N				X	Salinity	Natural Sources Source Unknown

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## Appendix A: Impaired Waters

HUC 10090209 Lower Powder			Watershed Lower Yellowstone												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J003_011	POWDER RIVER, Little Powder River to Mizpah Creek	5	99	MILES	C-3	X	X	N				X	Salinity	Natural Sources Source Unknown
Powder	MT42J003_012	POWDER RIVER, Mizpah Creek to mouth (Yellowstone River)	5	45.33	MILES	C-3	X	X	N				X	Salinity	Natural Sources Source Unknown
Powder	MT42J004_010	STUMP CREEK, headwaters to mouth (Powder River)	5/2B	29.77	MILES	C-3	X	X	N				X	Salinity	Natural Sources

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

## Appendix A: Impaired Waters

HUC 10090210 Mizpah			Watershed Lower Yellowstone												
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Powder	MT42J005_011	MIZPAH CREEK, headwaters to Corral Creek	5	131.98	MILES	C-3	X	X	N				X	Salinity	Natural Sources
Powder	MT42J005_012	MIZPAH CREEK, Corral Creek to the mouth (Powder River)	5	22.98	MILES	C-3	X	X	N				X	Salinity	Natural Sources

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

## Appendix A: Impaired Waters

HUC 10100001 Lower Yellowstone-Sunday		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	5	88.73	MILES	B-3	P	P	I	I	I	I		Alteration in stream-side or littoral vegetative covers	Agriculture
														Copper	Irrigated Crop Production
														Lead	Municipal Point Source Discharges
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Natural Sources
														Solids (Suspended/Bedload)	Post-development Erosion and Sedimentation
														Total Dissolved Solids	Rangeland Grazing
														Zinc	Source Unknown
pH	Streambank Modifications/destablization														
Yellowstone River	MT42K001_020	YELLOWSTONE RIVER, the Big Horn to Cartersville Diversion Dam	4C	59.51	MILES	B-3	X	P	F	F	X	X	X	Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Middle Yellowstone Tributaries	MT42K002_020	HARRIS CREEK, headwaters to mouth (Yellowstone River)	5	27.39	MILES	C-3	P	P					P	Chlorophyll-a	Grazing in Riparian or Shoreline Zones
														Other flow regime alterations	Livestock (Grazing or Feeding Operations)
														Phosphorus (Total)	Natural Sources
														Solids (Suspended/Bedload)	Transfer of Water from an Outside Watershed
Middle Yellowstone Tributaries	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	5	15.28	MILES	C-3	P	P					P	Chlorophyll-a	Irrigated Crop Production
														Copper	Natural Sources
														Iron	Non-irrigated Crop Production
														Lead	Rangeland Grazing
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Source Unknown
														Nitrogen (Total)	
														Phosphorus (Total)	
														Physical substrate habitat alterations	
Total Kjehtdahl Nitrogen (TKN)															
Middle Yellowstone Tributaries	MT42K002_040	MUSTER CREEK, headwaters to mouth (Yellowstone River)	5	31.39	MILES	C-3	P	P					N	Chlorophyll-a	Irrigated Crop Production
														Nitrate/Nitrite (Nitrite + Nitrate as N)	Transfer of Water from an Outside Watershed
														Other flow regime alterations	
														Phosphorus (Total)	
														Solids (Suspended/Bedload)	

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## Appendix A: Impaired Waters

HUC 10100001 Lower Yellowstone-Sunday		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Middle Yellowstone Tributaries	MT42K002_060	DEADMAN CREEK, headwaters to mouth (North Fork Sunday Creek)	5	17.28	MILES	C-3	P		P				F	Phosphorus (Total) Total Kjeldahl Nitrogen (TKN)	Source Unknown
Middle Yellowstone Tributaries	MT42K002_070	STELLAR CREEK, headwaters to mouth (Little Porcupine Creek)	5	42.96	MILES	C-3	N		N				N	Cadmium Chlorophyll-a Phosphorus (Total) pH	Rangeland Grazing Source Unknown
Middle Yellowstone Tributaries	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	5	33.76	MILES	C-3	P		P				F	Sedimentation/Siltation Sodium Solids (Suspended/Bedload) Specific Conductance Total Dissolved Solids	Channelization Crop Production (Crop Land or Dry Land) Natural Sources
Middle Yellowstone Tributaries	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	5	89.35	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N) Nitrogen (Total) Phosphorus (Total) Total Kjeldahl Nitrogen (TKN)	Grazing in Riparian or Shoreline Zones Non-irrigated Crop Production
Middle Yellowstone Tributaries	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	5	32.36	MILES	C-3	P		P				F	Nitrate/Nitrite (Nitrite + Nitrate as N) Specific Conductance Total Dissolved Solids Total Kjeldahl Nitrogen (TKN)	Agriculture Coal Mining Transfer of Water from an Outside Watershed
Middle Yellowstone Tributaries	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	5	118.8	MILES	C-3	P		P				P	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Total Dissolved Solids Total Kjeldahl Nitrogen (TKN)	Rangeland Grazing Source Unknown
Middle Yellowstone Tributaries	MT42K002_170	EAST FORK ARMELLS CREEK, headwaters to Colstrip	4C/2B	24.67	MILES	C-3	P		I				F	Alteration in stream-side or littoral vegetative covers	Surface Mining

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## Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yellowstone River	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	5	53.67	MILES	B-3	P	P	F	F	F	F	F	Alteration in stream-side or littoral vegetative covers Chromium (total) Copper Fish-Passage Barrier Lead Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Dissolved Solids pH	Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Natural Sources Rangeland Grazing Source Unknown Streambank Modifications/destablization
Yellowstone River	MT42M001_012	YELLOWSTONE RIVER, Powder River to Lower Yellowstone Diversion Dam	4C	76.73	MILES	B-3	X	P	F	F	X	X	X	Fish-Passage Barrier	Dam Construction (Other than Upstream Flood Control Projects)
Lower Yellowstone	MT42M002_010	BENNIE PEER CREEK, North Dakota border to mouth (Yellowstone River)	4C	10.17	MILES	C-3	P	P					P	Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Irrigated Crop Production
Lower Yellowstone	MT42M002_020	FOURMILE CREEK, headwaters to North Dakota border	5	29.74	MILES	C-3	P	P					N	Chlorophyll-a Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	Dam or Impoundment Source Unknown
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	5	33.37	MILES	C-3	P	P					P	Copper Fish-Passage Barrier Iron Lead Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Phosphorus (Total) Solids (Suspended/Bedload)	Hydrostructure Impacts on Fish Passage Irrigated Crop Production Source Unknown Transfer of Water from an Outside Watershed

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## Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	5	33.37	MILES	C-3	P	P					P	Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_040	LONE TREE CREEK, confluence of North Fork to mouth (Yellowstone River)	5	17.27	MILES	C-3	P	P					P	Alteration in stream-side or littoral vegetative covers Chlorophyll-a Iron Nitrate/Nitrite (Nitrite + Nitrate as N) Other flow regime alterations Solids (Suspended/Bedload)	Channelization Habitat Modification - other than Hydromodification Irrigated Crop Production
Lower Yellowstone	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	5	49.85	MILES	B-2	P	P	P	P	N	P		Arsenic Excess Algal Growth Iron Lead Low flow alterations Mercury Phosphorus (Total) Physical substrate habitat alterations Solids (Suspended/Bedload) Sulfates Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	Channelization Irrigated Crop Production Natural Sources Source Unknown
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	5	20.32	MILES	B-2	P	P	P	P	N	P		Arsenic Excess Algal Growth Iron Lead Low flow alterations Mercury Phosphorus (Total)	Channelization Irrigated Crop Production Natural Sources Source Unknown

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## Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	5	20.32	MILES	B-2	P	P		P	P	N	P	Physical substrate habitat alterations Solids (Suspended/Bedload) Sulfates Total Dissolved Solids Total Kjehldahl Nitrogen (TKN)	
Lower Yellowstone	MT42M002_060	O'BRIEN CREEK, state line to mouth (Yellowstone River)	5	15.53	MILES	C-3	N		N				P	Excess Algal Growth Nitrate/Nitrite (Nitrite + Nitrate as N) Selenium	Animal Feeding Operations (NPS) Irrigated Crop Production
Lower Yellowstone	MT42M002_070	CRANE CREEK, headwaters to mouth (Yellowstone River)	5	24.25	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers Other flow regime alterations Sedimentation/Siltation	Channelization Irrigated Crop Production
Lower Yellowstone	MT42M002_080	SMITH CREEK, headwaters to mouth (Yellowstone River)	4C	45.57	MILES	C-3	F		P				F	Fish-Passage Barrier	Low Water Crossing
Lower Yellowstone	MT42M002_100	COTTONWOOD CREEK, headwaters to mouth (Yellowstone River)	5	21.99	MILES	C-3	N		N				F	Cadmium Fish-Passage Barrier Iron Physical substrate habitat alterations	Channelization Flow Alterations from Water Diversions Hydrostructure Impacts on Fish Passage Natural Sources Source Unknown
Lower Yellowstone	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	5	53.66	MILES	C-3	P		P				P	Chlorophyll-a Fish-Passage Barrier Iron Other flow regime alterations Phosphorus (Total) Solids (Suspended/Bedload) Total Kjehldahl Nitrogen (TKN)	Crop Production (Crop Land or Dry Land) Hydrostructure Impacts on Fish Passage Irrigated Crop Production Natural Sources
Lower Yellowstone	MT42M002_120	MORGAN CREEK, headwaters to mouth (Yellowstone River)	4C	19.8	MILES	C-3	P		P				F	Alteration in stream-side or littoral vegetative covers	Grazing in Riparian or Shoreline Zones
Lower Yellowstone	MT42M002_130	GLENDIVE CREEK, headwaters to	5	55.89	MILES	C-3	N		N				F	Alteration in stream-side or littoral	Grazing in Riparian or Shoreline

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## Appendix A: Impaired Waters

HUC 10100004 Lower Yellowstone Watershed Lower Yellowstone

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

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## Appendix A: Impaired Waters

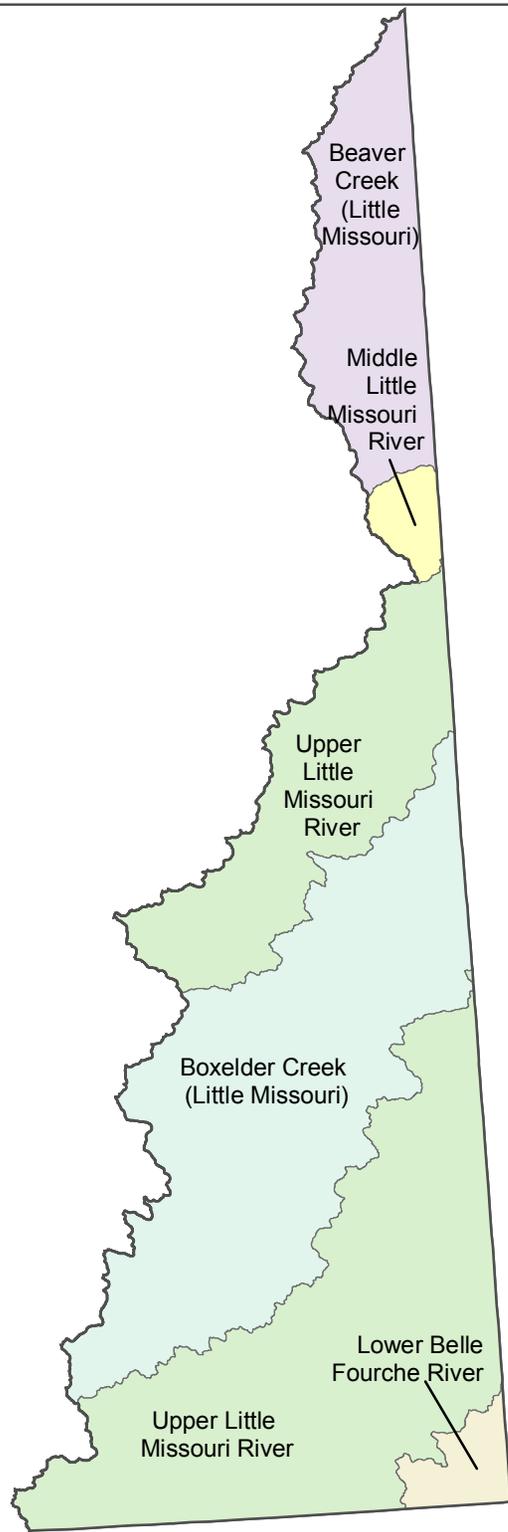
HUC 10100004 Lower Yellowstone		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Lower Yellowstone	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	5	15.15	MILES	C-3	N		N				N	Iron Lead Solids (Suspended/Bedload)	Transfer of Water from an Outside Watershed

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

## Appendix A: Impaired Waters

HUC 10100005 O` Fallon		Watershed Lower Yellowstone													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
O` Fallon	MT42L001_010	PENNEL CREEK, headwaters to mouth (O'Fallon Creek)	5	65.97	MILES	C-3	P	P					F	Total Dissolved Solids	Source Unknown
O` Fallon	MT42L001_020	SANDSTONE CREEK, headwaters to mouth (O'Fallon Creek)	5	72.78	MILES	C-3	P	P					F	Nitrate/Nitrite (Nitrite + Nitrate as N) Total Kjehldahl Nitrogen (TKN)	Agriculture Municipal Point Source Discharges

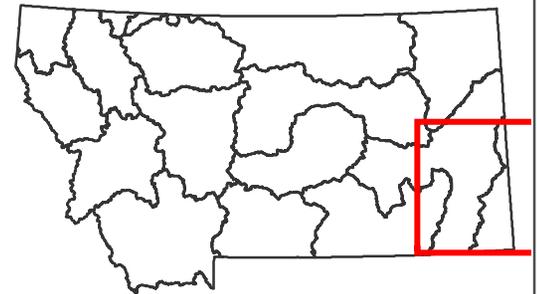
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



# Little Missouri Sub-Major Basin

Yellowstone River Basin

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



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## Appendix A: Impaired Waters

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

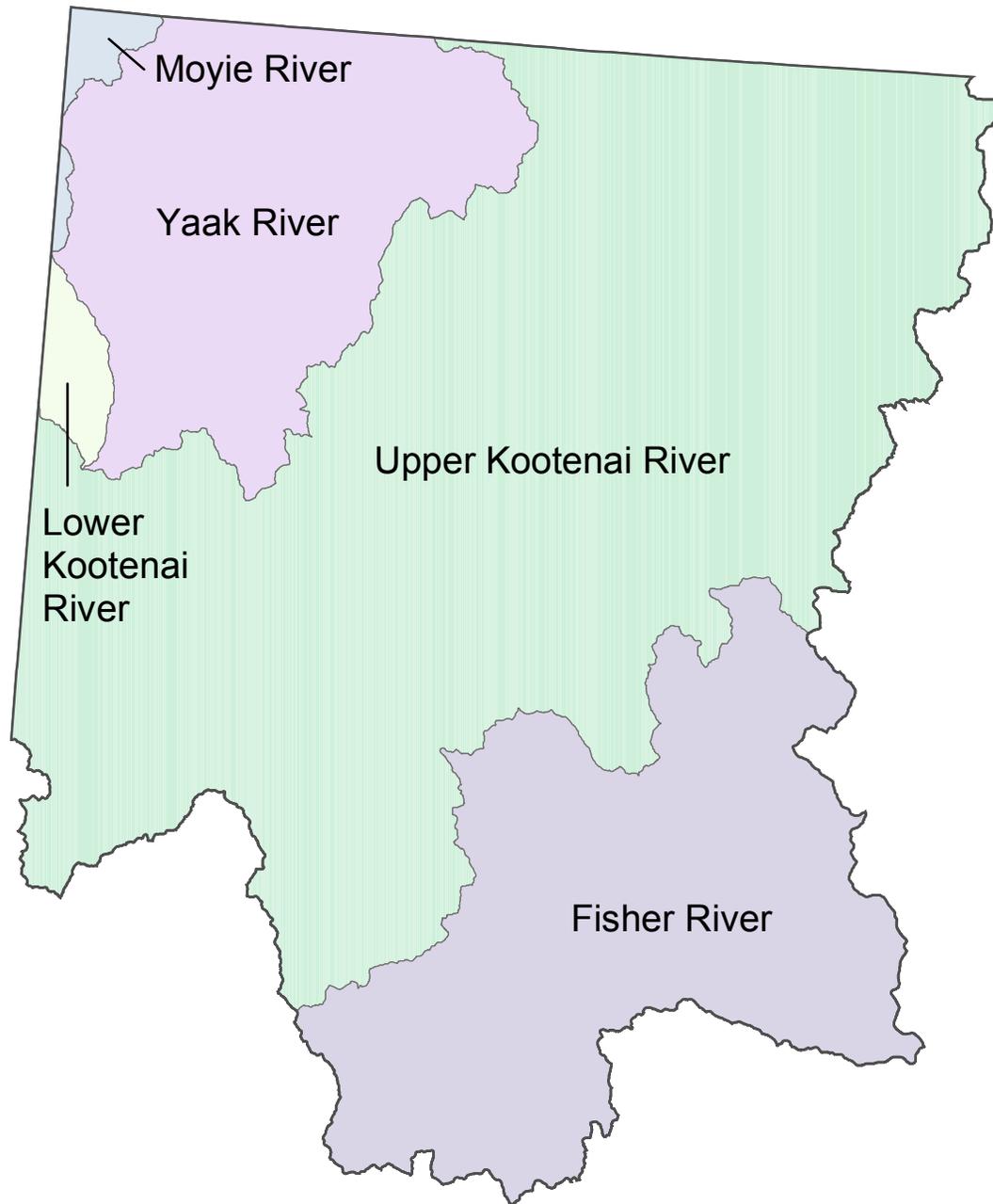
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Missouri	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	5/2B	41.22	MILES	C-3	P		P				X	Cadmium Copper Iron Zinc	Natural Sources
Little Missouri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

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## Appendix A: Impaired Waters

HUC 10110204 Beaver		Watershed Little Missouri													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Missouri	MT39G002_010	LAMESTEER NATIONAL WILDLIFE REFUGE, T12N R60E S15	5	80	ACRES	C-3	P		P				X	Other	Agriculture

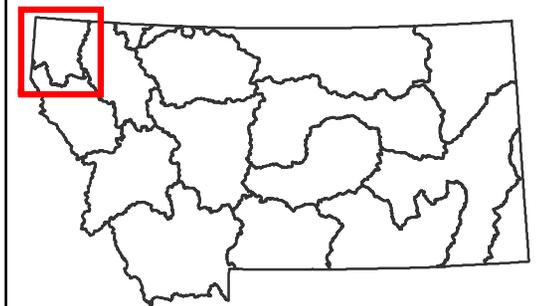
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed



# Kootenai Sub-Major Basin

Columbia River Basin

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



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## Appendix A: Impaired Waters

HUC 17010101 Upper Kootenai		Watershed Kootenai													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Kootenai	MT76A001_010	KOOTENAI RIVER, confluence with Yaak River to Idaho border	5	6.09	MILES	B-1	P	P	F	F	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PI-566 NRCS Structures)
Kootenai	MT76D001_010	KOOTENAI RIVER, Libby Dam to Yaak River	5	44.64	MILES	B-1	P	P	F	F	F	F	F	Other flow regime alterations Temperature, water	Impacts from Hydrostructure Flow Regulation/modification Upstream Impoundments (e.g., PI-566 NRCS Structures)
Kootenai	MT76D002_010	STANLEY CREEK, headwater to confluence with Fairway Creek	5	3.95	MILES	B-1	P	P	F	F	F	X	X	Cause Unknown Copper Nutrient/Eutrophication Biological Indicators	Mine Tailings Streambank Modifications/destablization
Kootenai	MT76D002_020	DRY CREEK, 1 mile upstream from State Highway 56 to mouth (Lake Creek)	4C	2.1	MILES	B-1	F	P	X	X	X	P	P	Other flow regime alterations Physical substrate habitat alterations	Highways, Roads, Bridges, Infrastructure (New Construction)
Kootenai	MT76D002_030	KEELER CREEK, headwaters to Lake Creek	4C	9.15	MILES	B-1	F	P	F	F	X	F	F	Low flow alterations Physical substrate habitat alterations	Forest Roads (Road Construction and Use) Silviculture Activities
Kootenai	MT76D002_040	SNOWSHOE CREEK, Cabinet Wilderness boundary to mouth (Big Cherry Creek)	5	3.62	MILES	B-1	P	P	N	N	N	X	X	Alteration in stream-side or littoral vegetative covers Cadmium Zinc	Impacts from Abandoned Mine Lands (Inactive)
Kootenai	MT76D002_050	BIG CHERRY CREEK, Snowshoe Creek to Mouth (Libby Creek)	5	13.07	MILES	B-1	P	P	F	F	X	F	F	Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations Zinc	Forest Roads (Road Construction and Use) Habitat Modification - other than Hydromodification Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Kootenai	MT76D002_061	LIBBY CREEK, from 1 mi above Howard Creek to highway 2 bridge	5	11.24	MILES	B-1	P	P	F	F	N	X	X	Alteration in stream-side or littoral vegetative covers Mercury Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Kootenai	MT76D002_062	LIBBY CREEK, from the highway 2 bridge to mouth (Kootenai River)	5	14.8	MILES	B-1	P	P	F	F	X	X	X	Physical substrate habitat alterations Sedimentation/Siltation	Site Clearance (Land Development or Redevelopment) Source Unknown Streambank Modifications/destablization

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## Appendix A: Impaired Waters

HUC 17010101 Upper Kootenai		Watershed Kootenai													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Kootenai	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	5	17.57	MILES	B-1	P	P	F	F	N	X		Cadmium Copper Lead Mercury in Water Column Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Zinc	Forest Roads (Road Construction and Use) Mine Tailings Natural Sources
Bobtail Creek	MT76D002_080	BOBTAIL CREEK, headwaters to mouth (Kootenai River)	4A	11.53	MILES	B-1	P	P	F	F	X	F		Other flow regime alterations Sedimentation/Siltation Turbidity	Forest Roads (Road Construction and Use) Source Unknown
Kootenai	MT76D002_090	QUARTZ CREEK, headwaters to confluence with the Kootenai River	5	11.25	MILES	B-1	P	P	F	F	I	I		Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Kootenai	MT76D002_100	CRIPPLE HORSE CREEK, headwaters to mouth (Lake Koocanusa)	4C	12.62	MILES	B-1	F	P	X	X	X	X		Low flow alterations Physical substrate habitat alterations	Silviculture Activities
Kootenai	MT76D002_110	BRISTOW CREEK, the headwaters to mouth at Lake Koocanusa	5	6.4	MILES	B-1	P	P	F	F	X	F		Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Silviculture Activities Source Unknown
Kootenai	MT76D003_010	LAKE KOOCANUSA	4C	110.35	ACRES	B-1	P	P	F	F	F	F		Other flow regime alterations	Dam or Impoundment
Tobacco	MT76D004_010	TOBACCO RIVER, confluence of Grave Creek & Fortine Creek to mouth (Lake Koocanusa)	5	14.21	MILES	B-1	P	P	F	F	F	F		Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Streambank Modifications/destablization
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	5	33.46	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Low flow alterations Sedimentation/Siltation	Agriculture Channelization Flow Alterations from Water Diversions Forest Roads (Road Construction and Use)

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## Appendix A: Impaired Waters

HUC 17010101 Upper Kootenai		Watershed Kootenai													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Tobacco	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	5	33.46	MILES	B-1	P	P	F	F	F	P		Temperature, water	Grazing in Riparian or Shoreline Zones Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Activities Source Unknown
Tobacco	MT76D004_030	EDNA CREEK, headwaters to mouth (Fortine Creek)	5	10.55	MILES	B-1	P	F	F	F	F	F		Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Tobacco	MT76D004_040	SWAMP CREEK, headwaters to mouth (Fortine Creek)	5	11.94	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Harvesting
Tobacco	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	5	4.92	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Chlorophyll-a Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting Source Unknown
Grave Creek	MT76D004_060	GRAVE CREEK, Foundation Creek to mouth (Fortine Creek)	4A	17.43	MILES	B-1	P	P	F	F	X	P		Alteration in stream-side or littoral vegetative covers Other flow regime alterations Sedimentation/Siltation	Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Silviculture Harvesting
Tobacco	MT76D004_070	TERRIAULT CREEK, headwaters to mouth (Tobacco River)	5	9.71	MILES	B-1	P	P	F	F	F	F		Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Tobacco	MT76D004_080	DEEP CREEK, headwaters to mouth (Fortine Creek)	5	11.02	MILES	A-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Excess Algal Growth Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones

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

## Appendix A: Impaired Waters

HUC 17010102 Fisher

Watershed Kootenai

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

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## Appendix A: Impaired Waters

HUC 17010103 Yaak		Watershed Kootenai													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Yaak	MT76B002_010	SEVENTEEN MILE CREEK, headwaters to mouth (Yaak River)	5	16.41	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Yaak	MT76B002_020	LAP CREEK, headwaters to mouth (Yaak River)	5	4.77	MILES	B-1	N	N	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Yaak	MT76B002_060	SPREAD CREEK, headwaters to mouth (Yaak River)	5	12.64	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_070	PETE CREEK, headwaters to mouth (Yaak River)	5	10.94	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_080	SOUTH FORK YAAK RIVER, headwaters to mouth (Yaak River)	4A	12.81	MILES	B-1	N	N	F	F	F	F	F	Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Yaak	MT76B002_090	WEST FORK YAAK RIVER, headwaters to mouth (Yaak River)	5	20.29	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown
Yaak	MT76B002_100	EAST FORK YAAK RIVER, headwaters to mouth (Yaak River)	5	14.6	MILES	B-1	P	P	F	F	F	F	F	Nitrate/Nitrite (Nitrite + Nitrate as N)	Silviculture Harvesting Source Unknown

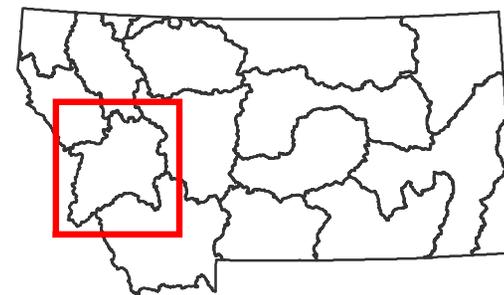
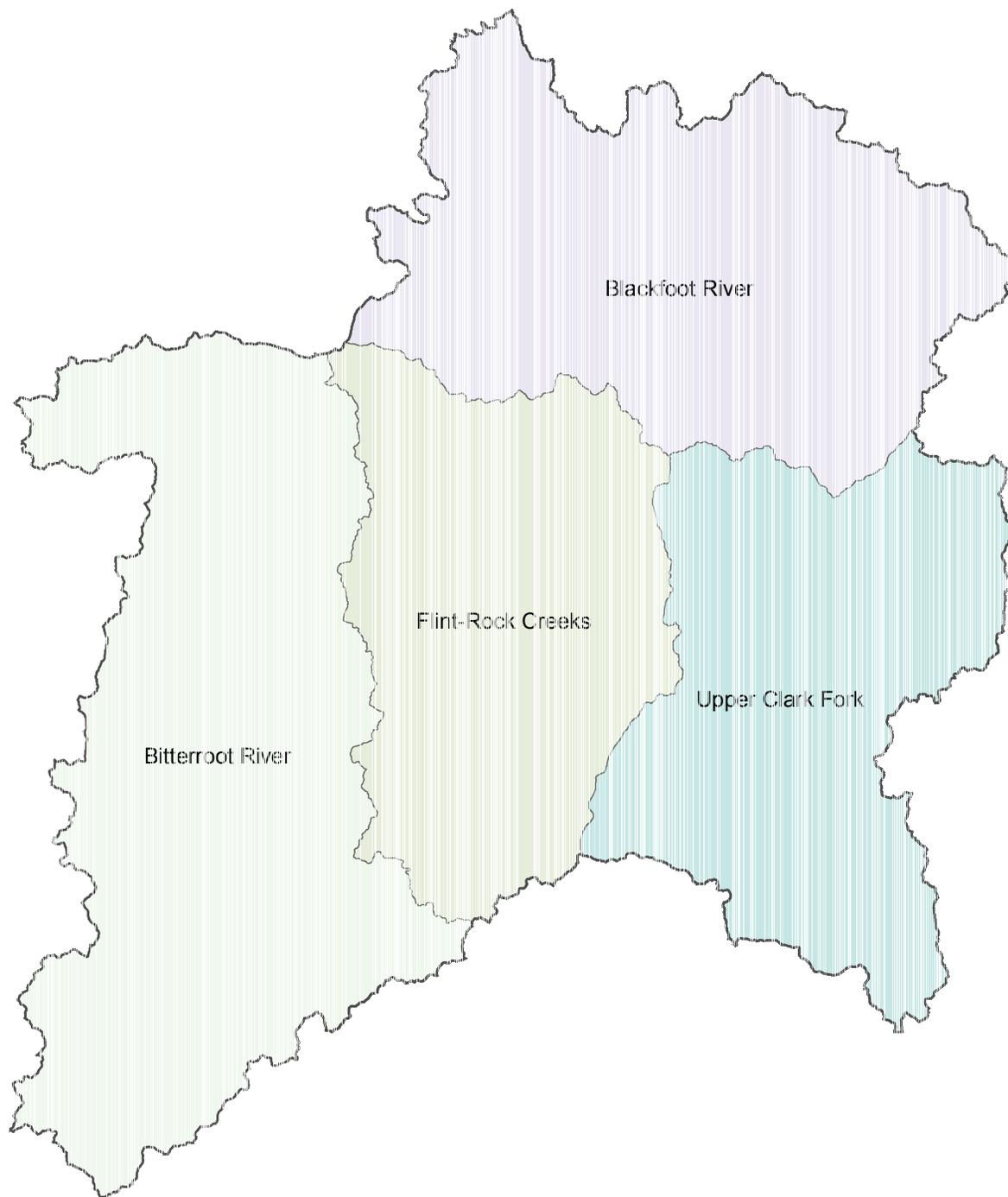
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# Upper Clark Fork Sub-Major Basin

Columbia River Basin

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



Montana Department of  
Environmental Quality



## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_011	WARM SPRINGS CREEK, headwaters to Meyers Dam, T5N R12W S25	4C	14.74	MILES	A-1	P	P	F	F	I	F		Physical substrate habitat alterations	Channelization
Upper Clark Fork	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	4A	17.22	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Low flow alterations Physical substrate habitat alterations Zinc	Highway/Road/Bridge Runoff (Non-construction Related) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Mill Tailings
Upper Clark Fork	MT76G002_030	CABLE CREEK, headwaters to mouth (Warm Springs Creek)	4A	6.36	MILES	B-1	P	P	F	F	F	P		Chlorophyll-a Other anthropogenic substrate alterations Physical substrate habitat alterations Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Upper Clark Fork	MT76G002_040	STORM LAKE CREEK, headwaters to mouth (Un-Named canal/Ditch)	4A	9.73	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations Sedimentation/Siltation	Channelization Flow Alterations from Water Diversions Forest Roads (Road Construction and Use) Silviculture Harvesting Source Unknown
Upper Clark Fork	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	5	11.01	MILES	B-1	P	P	F	F	F	F		Arsenic Cadmium Chromium (total) Copper Lead Zinc	Contaminated Sediments Mill Tailings Mine Tailings

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	4A	4.94	MILES	B-1	P	P	F	F	N	F		Lead Zinc	
Upper Clark Fork	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	5	6.27	MILES	B-1	N	N	F	F	F	P		Alteration in stream-side or littoral vegetative covers Copper Iron Lead Low flow alterations Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation Total Kjeldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Irrigated Crop Production Silviculture Activities Source Unknown
Upper Clark Fork	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	4A	7.1	MILES	B-1	N	N	X	X	X	N		Alteration in stream-side or littoral vegetative covers Iron Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation Temperature, water	Agriculture Grazing in Riparian or Shoreline Zones Irrigated Crop Production
Upper Clark Fork	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	4A	6.08	MILES	B-1	N	N	F	F	F	P		Low flow alterations Sedimentation/Siltation	Agriculture
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	5	29.18	MILES	I	N	N	N	N	N	N		Aluminum Arsenic Copper Iron Lead Manganese Nitrates Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment)

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## Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	5	29.18	MILES	I	N	N	N	N	N	N	N	Sedimentation/Siltation Silver Zinc	
Upper Clark Fork	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	4A	8.24	MILES	B-1	N	N	F	F	P	F		Arsenic Cyanide Selenium	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Upper Clark Fork	MT76G003_031	BEEFSTRAIGHT CREEK, Minnesota Gulch to mouth (German Gulch)	4A	3.5	MILES	B-1	N	N	X	X	X	X		Cyanide	Mine Tailings
Little Blackfoot	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	5	26.5	MILES	B-1	P	P	F	F	P	P		Alteration in stream-side or littoral vegetative covers Copper Lead Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Agriculture Channelization Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing
Little Blackfoot	MT76G004_020	LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek	5	22.54	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Arsenic Cyanide Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_032	SPOTTED DOG CREEK, forest boundary to mouth (Little Blackfoot River)	5	10.67	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones
Little Blackfoot	MT76G004_040	ELLISTON CREEK, headwaters to mouth (Little Blackfoot River)	4C	4.95	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers	Channelization Site Clearance (Land Development or Redevelopment)
Little Blackfoot	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	5	5.35	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Arsenic Beryllium	Forest Roads (Road Construction and Use) Impacts from Abandoned Mine Lands (Inactive)

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 17010201		Upper Clark Fork		Watershed		Upper Clark Fork									
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Little Blackfoot	MT76G004_080	SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)	5	11.45	MILES	B-1	P	P	F	F	F	P			Irrigated Crop Production Source Unknown
Little Blackfoot	MT76G004_091	CARPENTER CREEK, headwaters to Basin Creek	4C	3.67	MILES	B-1	N	N	X	X	X	P		Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_092	CARPENTER CREEK, Basin Creek to mouth (Little Blackfoot River)	4C	4.87	MILES	B-1	N	N	X	X	X	F		Alteration in stream-side or littoral vegetative covers Other anthropogenic substrate alterations Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive)
Little Blackfoot	MT76G004_100	WOODSON GULCH, headwaters to mouth (Carpenter Creek), T11N R7W S29	4C	.84	MILES	B-1	P	P	F	F	F	P		Physical substrate habitat alterations	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Little Blackfoot	MT76G004_112	THREEMILE CREEK, Quigley Ranch Reservoir to mouth (Little Blackfoot River)	4C	7.46	MILES	B-1	N	N	X	X	X	P		Alteration in stream-side or littoral vegetative covers Low flow alterations	Agriculture Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Upper Clark Fork	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	5	3.91	MILES	B-1	N	N	F	F	N	P		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead Zinc	Grazing in Riparian or Shoreline Zones Mine Tailings
Upper Clark Fork	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	5	4.05	MILES	B-1	P	P	F	F	P	F		Alteration in stream-side or littoral vegetative covers Arsenic Cadmium Copper Iron Lead	Impacts from Abandoned Mine Lands (Inactive) Rangeland Grazing

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## Appendix A: Impaired Waters

HUC 17010201 Upper Clark Fork		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CFW	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Upper Clark Fork	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	5	4.05	MILES	B-1	P	P	F	F	P	F	F	Nitrogen (Total) Zinc	
Upper Clark Fork	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	4A	5.17	MILES	B-1	X	X	X	X	X	P		Sedimentation/Siltation Turbidity	Highway/Road/Bridge Runoff (Non-construction Related) Rangeland Grazing
Upper Clark Fork	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	5	7.05	MILES	B-1	N	N	X	X	X	N		Low flow alterations Nitrogen (Total) Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Dam Construction (Other than Upstream Flood Control Projects) Streambank Modifications/destablization
Upper Clark Fork	MT76G005_091	GOLD CREEK, headwaters to National Forest boundary	4A	8.1	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Lead	Impacts from Abandoned Mine Lands (Inactive) Mine Tailings
Upper Clark Fork	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	5	7.77	MILES	B-1	P	P	F	F	F	P		Iron Lead Low flow alterations Nitrogen (Total)	Agriculture Irrigated Crop Production
Upper Clark Fork	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	4A	12.5	MILES	B-1	X	X	F	F	F	P		Sedimentation/Siltation	Streambank Modifications/destablization
Upper Clark Fork	MT76G005_111	WARM SPRINGS CREEK, headwaters to R9W and R10W	5	9.54	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Upper Clark Fork	MT76G005_112	WARM SPRINGS CREEK, from line between R9W and R10W to mouth (Clark Fork River)	4A	6.28	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Low flow alterations Physical substrate habitat alterations Sedimentation/Siltation	Agriculture Grazing in Riparian or Shoreline Zones
Little Blackfoot	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	5	20	ACRES	B-1	N	N	P	F	N	P		Arsenic Cadmium Copper Lead	Impacts from Abandoned Mine Lands (Inactive)

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

## Appendix A: Impaired Waters

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

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

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

## Appendix A: Impaired Waters

HUC 17010202 Flint-Rock

Watershed Upper Clark Fork

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

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

## Appendix A: Impaired Waters

HUC 17010202		Flint-Rock		Watershed Upper Clark Fork											
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Rock	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	5	2.93	MILES	B-1	N	N	F	F	F	P		Phosphorus (Total) Sedimentation/Siltation Temperature, water	Silviculture Activities Source Unknown
Rock	MT76E002_070	QUARTZ GULCH, headwaters to mouth (Basin Gulch)	5	3.43	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers Mercury Sedimentation/Siltation	Natural Sources Placer Mining
Rock	MT76E002_080	BASIN GULCH, headwaters to mouth (Quartz Gulch)	4C	1.45	MILES	B-1	N	N	X	X	X	X		Alteration in stream-side or littoral vegetative covers	Impacts from Abandoned Mine Lands (Inactive) Placer Mining
Rock	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	5	1.93	MILES	B-1	N	N	F	F	N	N		Alteration in stream-side or littoral vegetative covers Arsenic Mercury Sedimentation/Siltation Solids (Suspended/Bedload)	Natural Sources Open Pit Mining Placer Mining
Rock	MT76E002_100	SCOTCHMAN GULCH, headwaters to mouth (Upper Willow Creek)	5	6.88	MILES	B-1	P	P	F	F	F	F		Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Placer Mining Rangeland Grazing Silviculture Harvesting Source Unknown
Rock	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	5	6.33	MILES	B-1	N	N	F	F	N	N		Alteration in stream-side or littoral vegetative covers Arsenic Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Impacts from Abandoned Mine Lands (Inactive)
Rock	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	5	2.99	MILES	B-1	P	P	F	F	F	F		Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Forest Roads (Road Construction and Use) Rangeland Grazing Silviculture Activities Source Unknown

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## Appendix A: Impaired Waters

HUC 17010202 Flint-Rock

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010202		Flint-Rock		Watershed Upper Clark Fork											
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flint	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	5	3.13	MILES	B-1	N	N	P	F	N	X		Cadmium Copper Sulfates Zinc	Lands (Inactive)
Flint	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	5	11.21	MILES	B-1	N	N	F	F	N	F		Alteration in stream-side or littoral vegetative covers 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)	5	13.34	MILES	B-1	N	N	F	F	N	X		Copper Lead Mercury	Mill Tailings
Flint	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	5	14.23	MILES	B-1	P	P	F	F	N	X		Arsenic Lead Mercury Physical substrate habitat alterations Zinc	Impacts from Abandoned Mine Lands (Inactive) Silviculture Harvesting
Flint	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	5	8.87	MILES	B-1	P	P	P	P	P	P		Chlorophyll-a Iron Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation Total Kjehldahl Nitrogen (TKN)	Irrigated Crop Production Managed Pasture Grazing Source Unknown
Flint	MT76E003_090	PRINCETON GULCH, headwaters to mouth (Boulder Creek)	5	3.89	MILES	B-1	P	P	F	F	X	X		Nitrates Physical substrate habitat alterations	Placer Mining
Flint	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	5	3.76	MILES	B-1	N	N	P	F	N	P		Arsenic Cadmium	Impacts from Abandoned Mine Lands (Inactive) Silviculture Activities

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## Appendix A: Impaired Waters

HUC 17010202 Flint-Rock

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010202 Flint-Rock		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Clark Fork - Drummond	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	5	11.98	MILES	B-1	P	P	F	F	F	P		Physical substrate habitat alterations Sedimentation/Siltation	
Clark Fork - Drummond	MT76E004_030	TENMILE CREEK, headwaters to mouth (Bear Creek-Clark Fork River)	5	4.92	MILES	B-1	P	P	F	F	F	F		Alteration in stream-side or littoral vegetative covers Phosphorus (Total) Sedimentation/Siltation	Grazing in Riparian or Shoreline Zones Silviculture Activities
Clark Fork - Drummond	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	4C	11.96	MILES	B-1	P	P	F	F	F	F		Physical substrate habitat alterations	Streambank Modifications/destablization
Clark Fork - Drummond	MT76E004_042	HARVEY CREEK, Grouse Gulch to mouth (Clark Fork River)	4C	4.01	MILES	B-1	P	P	F	F	F	P		Low flow alterations Physical substrate habitat alterations	Agriculture Streambank Modifications/destablization
Clark Fork - Drummond	MT76E004_050	MULKEY CREEK, headwaters to mouth (Clark Fork River)	5	5.99	MILES	B-1	N	N	X	X	X	P		Sedimentation/Siltation	Low Water Crossing
Clark Fork - Drummond	MT76E004_060	RATTLER GULCH, headwaters to mouth (Clark Fork River), T11N R13W S22	5	8.08	MILES	B-1	P	P	F	P	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a Low flow alterations Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Natural Sources Silviculture Harvesting Source Unknown
Clark Fork - Drummond	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	5	5.12	MILES	B-1	P	P	F	P	F	P		Chlorophyll-a Low flow alterations Nitrate/Nitrite (Nitrite + Nitrate as N) Sedimentation/Siltation Total Kjeldahl Nitrogen (TKN)	Placer Mining Silviculture Harvesting Subsurface (Hardrock) Mining
Clark Fork - Drummond	MT76E004_080	ANTELOPE CREEK, headwaters to mouth (Clark Fork River)	4C	7.19	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Physical substrate habitat alterations	Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat Streambank Modifications/destablization

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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

## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

**HUC** 17010203 **Blackfoot** **Watershed** Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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

## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010203 Blackfoot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010205 Bitterroot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010205 Bitterroot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010205 Bitterroot

Watershed Upper Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010205 Bitterroot		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	5	17.16	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a  Sedimentation/Siltation  Temperature, water  Total Kjehldahl Nitrogen (TKN)	Flow Alterations from Water Diversions Irrigated Crop Production  Loss of Riparian Habitat  Natural Sources  Silviculture Activities  Source Unknown
Bitterroot	MT76H004_120	AMBROSE CREEK, headwaters to mouth (Threemile Creek)	5	11.7	MILES	B-1	N	N	F	F	X	P		Nitrogen (Total)  Phosphorus (Total)  Physical substrate habitat alterations	Agriculture  Grazing in Riparian or Shoreline Zones
Bitterroot	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	5	18.34	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a  Nitrate/Nitrite (Nitrite + Nitrate as N)  Phosphorus (Total)  Sedimentation/Siltation  Temperature, water	Crop Production (Crop Land or Dry Land) Grazing in Riparian or Shoreline Zones Loss of Riparian Habitat  Silviculture Activities  Silviculture Harvesting  Source Unknown
Bitterroot	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	5	17.96	MILES	B-1	N	N	F	F	X	X		Low flow alterations  Nitrate/Nitrite (Nitrite + Nitrate as N)  Phosphorus (Total)  Sedimentation/Siltation	Agriculture  Irrigated Crop Production  Rangeland Grazing
Bitterroot	MT76H004_150	McCLAIN CREEK, headwaters to mouth (Sin-tin-tin-em-ska Creek), T11N R20W S23	5	7.12	MILES	B-1	P	P	F	F	X	X		Sedimentation/Siltation	Forest Roads (Road Construction and Use)
Bitterroot	MT76H004_160	NORTH FORK RYE CREEK, headwaters to mouth (Rye Creek-Bitterroot River, South of Darby)	5	7.08	MILES	B-1	P	P	F	F	X	F		Alteration in stream-side or littoral vegetative covers Nitrogen (Total)  Phosphorus (Total)	Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Streambank Modifications/destabilization
Bitterroot	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	5	6.39	MILES	B-1	P	P	F	F	F	P		Alteration in stream-side or littoral vegetative covers Chlorophyll-a	Grazing in Riparian or Shoreline Zones Livestock (Grazing or Feeding Operations)

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## Appendix A: Impaired Waters

HUC 17010205 Bitterroot

Watershed Upper Clark Fork

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

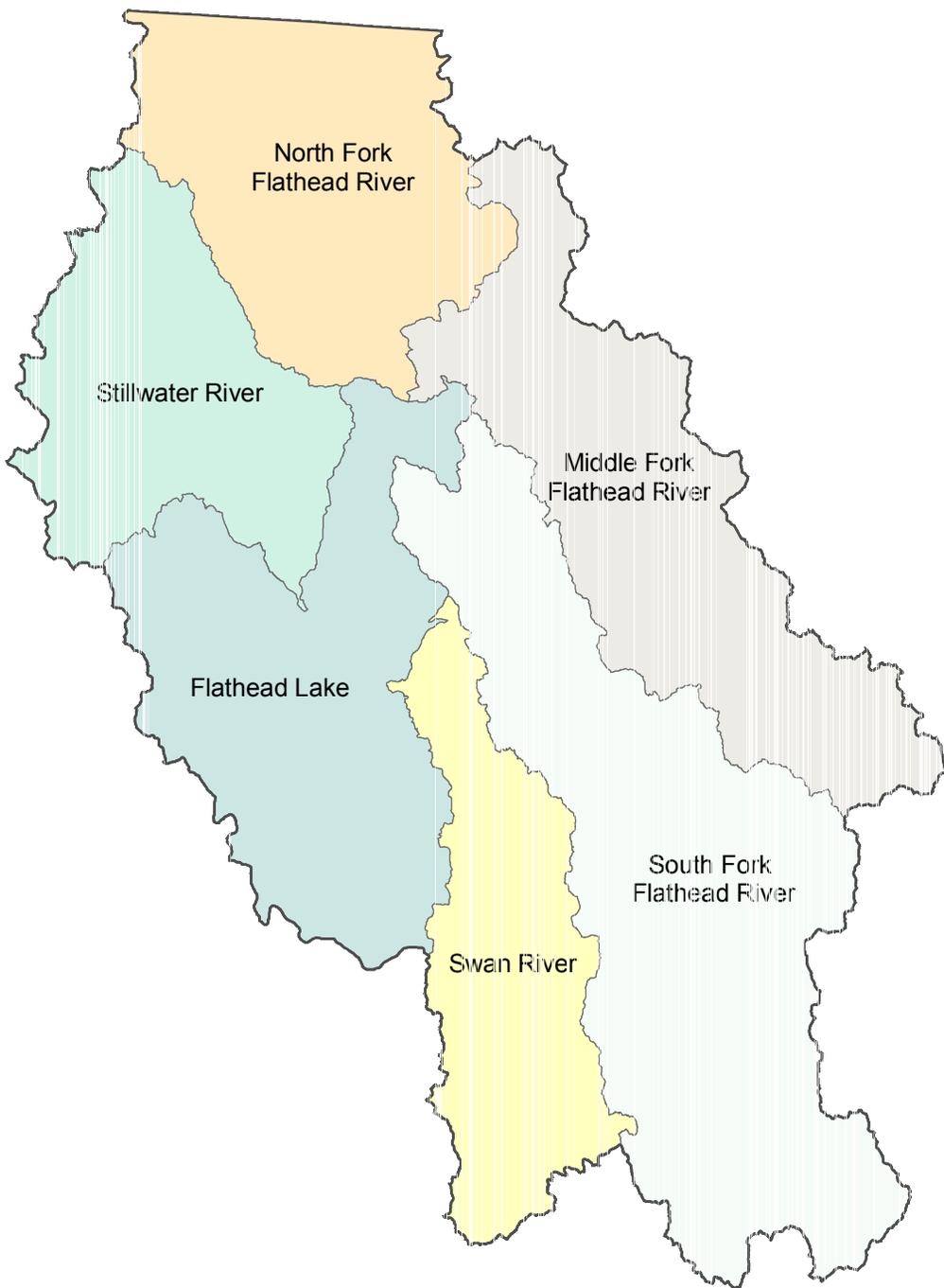
F=Full Support P=Partial Support T=Threatened N=Not Supporting I=Insufficient Information X=Not Assessed

## Appendix A: Impaired Waters

HUC 17010205 Bitterroot		Watershed Upper Clark Fork													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Bitterroot	MT76H005_020	SOUTH FORK LOLO CREEK, Selway-Bitterroot Wilderness boundary to mouth (Lolo Creek)	4C	6.87	MILES	B-1	P	P	F	F	F	P		Physical substrate habitat alterations	Impacts from Hydrostructure Flow Regulation/modification Silviculture Activities
Upper Lolo	MT76H005_030	GRANITE CREEK, headwaters to mouth (Lolo Creek)	4A	9.39	MILES	B-1	P	P	F	F	X	X		Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities
Upper Lolo	MT76H005_040	EAST FORK LOLO CREEK, headwaters to mouth (Confluence with Lolo Creek)	4A	9.12	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Silviculture Activities
Upper Lolo	MT76H005_050	WEST FORK LOLO CREEK, headwaters to mouth (Lolo Creek)	4A	7.37	MILES	B-1	P	P	F	F	X	X		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highway/Road/Bridge Runoff (Non-construction Related) Streambank Modifications/destablization
Upper Lolo	MT76H005_060	LOST PARK CREEK, headwaters to mouth (Confluence with East Fork Lolo Creek)	4A	5.08	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers Fish-Passage Barrier Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting
Upper Lolo	MT76H005_070	LEE CREEK, headwaters to mouth (West Fork Lolo Creek)	4A	3.8	MILES	B-1	P	P	F	F	X	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities  Streambank Modifications/destablization

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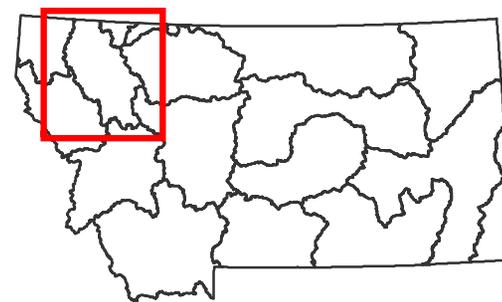




# Flathead Sub-Major Basin

Columbia River Basin

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





## Appendix A: Impaired Waters

HUC 17010206 North Fork Flathead		Watershed Flathead													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Big Creek (Columbia)	MT76Q002_050	BIG CREEK, tributary to North Fork of the Flathead River	4A	16.68	MILES	B-1	P	P	F	F	X	F		Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	Forest Roads (Road Construction and Use) Streambank Modifications/destablization
Flathead Headwaters	MT76Q002_070	COAL CREEK, headwaters to South Fork	4C	10.4	MILES	B-1	P	P	X	X	X	X		Alteration in stream-side or littoral vegetative covers	
Flathead Headwaters	MT76Q002_080	COAL CREEK, South Fork to mouth (North Fork Flathead)	4A	9.57	MILES	B-1	P	P	F	F	X	F		Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Harvesting

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

## Appendix A: Impaired Waters

HUC 17010207 Middle Fork Flathead		Watershed Flathead													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead Headwaters	MT761002_040	CHALLENGE CREEK, headwaters to mouth (Granite Creek)	5	4.77	MILES	B-1	P	P	F	F	F	F	F	Phosphorus (Total)	Silviculture Activities

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

## Appendix A: Impaired Waters

HUC 17010208 Flathead Lake

Watershed Flathead

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

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## Appendix A: Impaired Waters

HUC 17010208 Flathead Lake

Watershed Flathead

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

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## Appendix A: Impaired Waters

HUC 17010209 South Fork Flathead		Watershed Flathead													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead Headwaters	MT76J001_010	SOUTH FORK FLATHEAD RIVER, Hungry Horse Dam to mouth	4C	5.31	MILES	B-1	X	X	F	F	X	P		Other flow regime alterations	

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

## Appendix A: Impaired Waters

HUC 17010210 Stillwater		Watershed Flathead													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Flathead - Stillwater	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	5	45.61	MILES	B-2	P	P	F	F	N	F	F	Alteration in stream-side or littoral vegetative covers Lead Nitrates Phosphorus (Total) Sedimentation/Siltation	Loss of Riparian Habitat Site Clearance (Land Development or Redevelopment) Source Unknown
Flathead - Stillwater	MT76P001_030	LOGAN CREEK, headwaters to mouth (Tally Lake)	5	21.16	MILES	B-1	P	P	F	F	X	F	F	Other flow regime alterations Physical substrate habitat alterations Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Streambank Modifications/destabilization
Flathead - Stillwater	MT76P001_040	SINCLAIR CREEK, headwaters to mouth (Sheppard Creek)	4C	2.32	MILES	B-1	X	X	X	X	X	P	P	Low flow alterations	Agriculture Streambank Modifications/destabilization
Flathead - Stillwater	MT76P001_050	SHEPPARD CREEK, headwaters to mouth (Griffin Creek-Logan Creek-Talley Lake)	5	15.92	MILES	B-1	N	N	F	F	F	P	P	Alteration in stream-side or littoral vegetative covers Nitrate/Nitrite (Nitrite + Nitrate as N) Phosphorus (Total) Sedimentation/Siltation	Crop Production (Crop Land or Dry Land) Forest Roads (Road Construction and Use) Grazing in Riparian or Shoreline Zones Silviculture Harvesting
Flathead - Stillwater	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	5	24.8	MILES	B-2	P	P	F	F	F	X	F	Copper Lead Nitrogen (Total) Oil and Grease PCB in Water Column Temperature, water	Industrial Point Source Discharge Silviculture Activities Site Clearance (Land Development or Redevelopment) Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO)
Flathead - Stillwater	MT76P003_020	SWIFT CREEK, headwaters (East and West Forks) to mouth (Whitefish Lake)	5	17.28	MILES	A-1	P	P	F	F	I	I	F	Phosphorus (Total)	Silviculture Activities
Flathead - Stillwater	MT76P004_010	WHITEFISH LAKE	5	3349.9	ACRES	A-1	T	T	F	F	X	F	F	Mercury Polychlorinated biphenyls Sedimentation/Siltation	Forest Roads (Road Construction and Use) Silviculture Activities Source Unknown

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## Appendix A: Impaired Waters

HUC 17010211 Swan		Watershed Flathead													
TMDL Planning Area	ID305B	Waterbody Name/Location	Category	Size	Units	Use Class	AL	CWF	WWF	AG	Ind	DW	Rec	Cause Name	Source Name
Swan	MT76K002_010	SWAN LAKE	4A	2680	ACRES	A-1	T	T	F	F	F	F	F	BOD, sediment load (Sediment Oxygen Demand) Nitrogen (Total) Phosphorus (Total) Sedimentation/Siltation	Forest Roads (Road Construction and Use) Highways, Roads, Bridges, Infrastructure (New Construction)
Swan	MT76K003_010	JIM CREEK, headwaters to mouth (Swan River), T21 R18W S8	4A	12.11	MILES	B-1	P	P	F	F	X	F	F	Sedimentation/Siltation	Silviculture Harvesting
Swan	MT76K003_031	GOAT CREEK, headwaters to Squeezer Creek	4A	9.71	MILES	B-1	P	P	F	F	X	F	F	Total Suspended Solids (TSS)	Highways, Roads, Bridges, Infrastructure (New Construction) Silviculture Harvesting

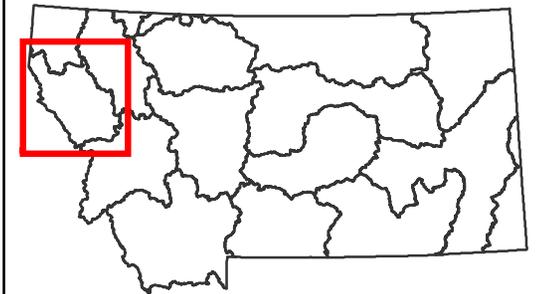
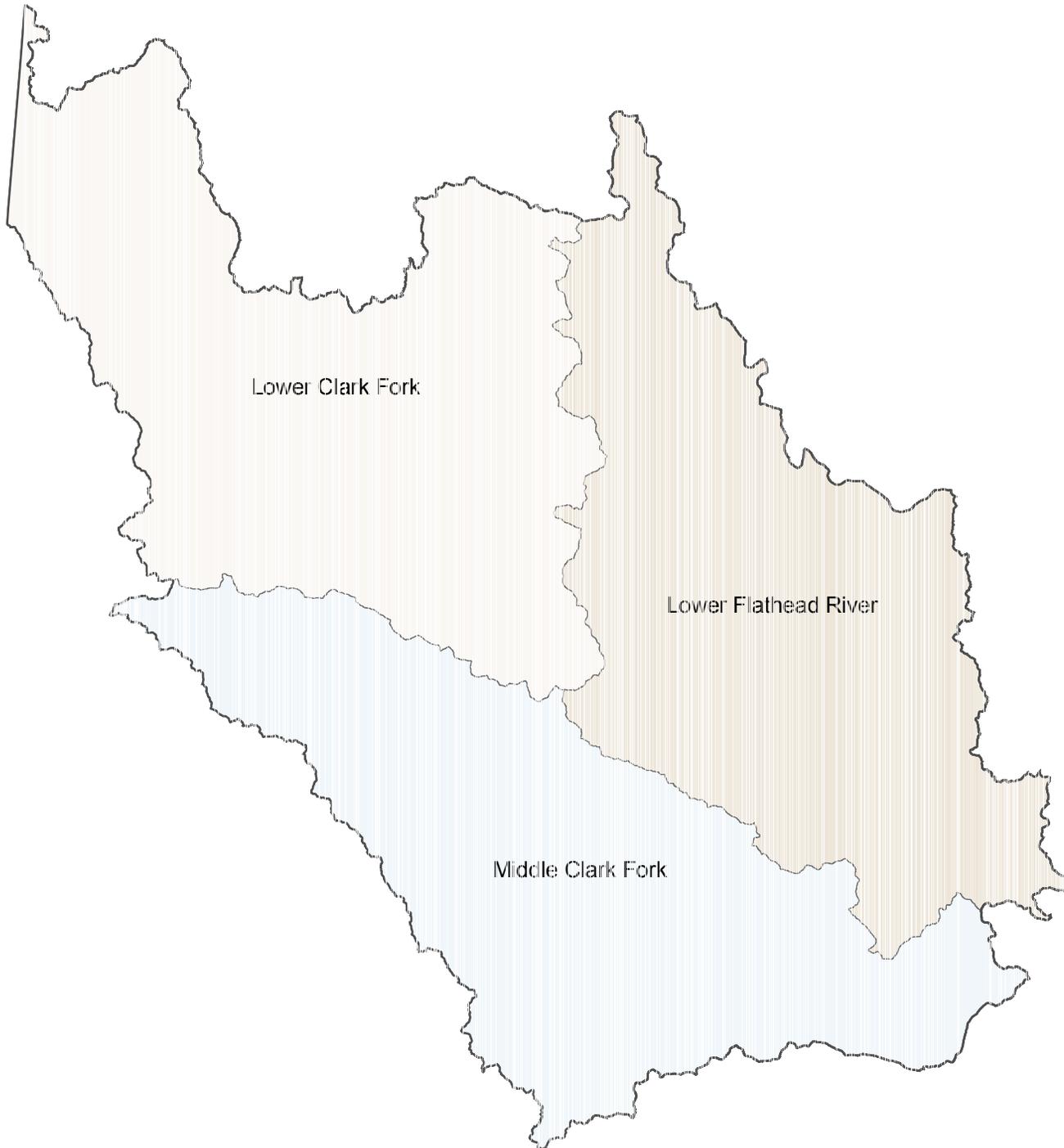
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# Lower Clark Fork Sub-Major Basin

Columbia River Basin

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



Montana Department of  
Environmental Quality



## Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork Watershed Lower Clark Fork

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

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

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

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

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## Appendix A: Impaired Waters

HUC 17010204 Middle Clark Fork

Watershed Lower Clark Fork

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

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

## Appendix A: Impaired Waters

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

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

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

## Appendix A: Impaired Waters

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

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

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

## Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork Watershed Lower Clark Fork

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

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

## Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork

Watershed Lower Clark Fork

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

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## Appendix A: Impaired Waters

HUC 17010213 Lower Clark Fork Watershed Lower Clark Fork

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

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## Appendix A: Impaired Waters

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

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

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## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Beaver	Milk	10050014	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Creek	Mercury	2006	Unassigned	L
Beaver	Milk	10050014	MT40M001_013	BEAVER CREEK, Fort Belknap Reservation boundary to Big Warm Creek	Phosphorus (Total)	2006	Unassigned	L
Beaver	Milk	10050014	MT40M001_014	BEAVER CREEK, Big Warm Creek to Un-Named tributary, T30N R32E S32	Mercury	2006	Unassigned	L
Beaver	Milk	10050014	MT40M001_014	BEAVER CREEK, Big Warm Creek to Un-Named tributary, T30N R32E S32	Phosphorus (Total)	2006	Unassigned	L
Beaver	Milk	10050014	MT40M001_020	BEAVER CREEK, Bowdoin Canal to mouth (Milk River)	Nitrogen (Total)	1990	Scheduled	M
Beaver	Milk	10050014	MT40M001_020	BEAVER CREEK, Bowdoin Canal to mouth (Milk River)	Phosphorus (Total)	1990	Scheduled	M
Beaver	Milk	10050014	MT40M001_020	BEAVER CREEK, Bowdoin Canal to mouth (Milk River)	Uranium	2000	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Arsenic	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Cadmium	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Copper	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Iron	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Lead	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Nitrate/Nitrite (Nitrite + Nitrate as N)	1996	Scheduled	M
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Oxygen, Dissolved	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Phosphorus (Total)	1996	Scheduled	M
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Solids (Suspended/Bedload)	1996	Scheduled	M
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Total Kjeldahl Nitrogen (TKN)	1996	Scheduled	M
Beaver	Milk	10050014	MT40M002_010	FLAT CREEK, headwaters to mouth (Beaver Creek), T27N R32E S35	Zinc	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	Copper	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	Lead	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	Oxygen, Dissolved	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	Phosphorus (Total)	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Beaver	Milk	10050014	MT40M002_030	BIG WARM CREEK, Fort Belknap Reservation boundary to mouth (Beaver Creek)	Phosphorus (Total)	1996	Scheduled	M
Beaver	Milk	10050014	MT40M002_030	BIG WARM CREEK, Fort Belknap Reservation boundary to mouth (Beaver Creek)	Salinity	2000	Scheduled	L
Beaver	Milk	10050014	MT40M002_030	BIG WARM CREEK, Fort Belknap Reservation boundary to mouth (Beaver Creek)	Sedimentation/Siltation	2000	Scheduled	L
Beaver	Milk	10050014	MT40M003_010	LAKE BOWDOIN	Salinity	1990	Scheduled	M
Beaver	Milk	10050014	MT40M003_010	LAKE BOWDOIN	Selenium	2000	Scheduled	L
Beaver	Milk	10050014	MT40M003_020	NELSON RESERVOIR	Phosphorus (Total)	1990	Scheduled	M
Beaverhead	Upper Missouri Tribs.	10020002	MT41B001_010	BEAVERHEAD RIVER, Clark Canyon Dam to Grasshopper Creek	Lead	2000	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B001_020	BEAVERHEAD RIVER, Grasshopper Creek to mouth (Jefferson River)	Sedimentation/Siltation	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B001_020	BEAVERHEAD RIVER, Grasshopper Creek to mouth (Jefferson River)	Temperature, water	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_010	GRASSHOPPER CREEK, headwaters to mouth (Beaverhead River)	Cadmium	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_010	GRASSHOPPER CREEK, headwaters to mouth (Beaverhead River)	Copper	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_010	GRASSHOPPER CREEK, headwaters to mouth (Beaverhead River)	Zinc	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_020	FARLIN CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S7	Sedimentation/Siltation	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_030	BLACKTAIL DEER CREEK, headwaters to mouth (Beaverhead River)	Sedimentation/Siltation	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_030	BLACKTAIL DEER CREEK, headwaters to mouth (Beaverhead River)	Temperature, water	2006	Unassigned	L
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	Arsenic	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_060	WEST FORK BLACKTAIL DEER CREEK, headwaters to mouth (Blacktail Deer Creek)	Sedimentation/Siltation	1992	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_070	WEST FORK DYCE CREEK, headwaters to mouth (Dyce Creek)	Manganese	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_070	WEST FORK DYCE CREEK, headwaters to mouth (Dyce Creek)	Sedimentation/Siltation	1990	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_070	WEST FORK DYCE CREEK, headwaters to mouth (Dyce Creek)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_080	SPRING CREEK, headwaters to mouth (Beaverhead River)	Arsenic	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_080	SPRING CREEK, headwaters to mouth (Beaverhead River)	Nitrogen (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_080	SPRING CREEK, headwaters to mouth (Beaverhead River)	Sedimentation/Siltation	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Cadmium	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Copper	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Lead	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Nitrogen (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Phosphorus (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Sedimentation/Siltation	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Solids (Suspended/Bedload)	2010	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Cadmium	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Copper	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Lead	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Nitrogen (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Phosphorus (Total)	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_091	RATTLESNAKE CREEK, headwaters to Dillon PWS off-channel well, T7S R10W S11	Sedimentation/Siltation	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_100	FRENCH CREEK, headwaters to mouth (Rattlesnake Creek)	Sedimentation/Siltation	2000	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_110	CLARK CANYON CREEK, headwaters to mouth (Beaverhead River), T9S R10W S28	Phosphorus (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_110	CLARK CANYON CREEK, headwaters to mouth (Beaverhead River), T9S R10W S28	Sedimentation/Siltation	1988	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	Phosphorus (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	Sedimentation/Siltation	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_120	RESERVOIR CREEK, headwaters to mouth (Grasshopper Creek)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	Arsenic	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	Phosphorus (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_131	STONE CREEK, confluence with unnamed creek in T6S R7W S34 near Beaverhead/Madison county border	Sedimentation/Siltation	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_132	STONE CREEK, Left Fork and Middle Fork to confluence of unnamed tributary, T6S R7W S34	Nitrates	2000	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_132	STONE CREEK, Left Fork and Middle Fork to confluence of unnamed tributary, T6S R7W S34	Sedimentation/Siltation	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_132	STONE CREEK, Left Fork and Middle Fork to confluence of unnamed tributary, T6S R7W S34	Turbidity	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	Sedimentation/Siltation	1994	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_140	DYCE CREEK, confluence of East and West Forks to Grasshopper Creek	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscoll Creek), T6S R12W S18	Arsenic	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscoll Creek), T6S R12W S18	Nitrogen (Total)	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscol Creek), T6S R12W S18	Phosphorus (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscol Creek), T6S R12W S18	Sedimentation/Siltation	1992	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_160	STEEL CREEK, headwaters to mouth (Driscol Creek), T6S R12W S18	Solids (Suspended/Bedload)	1992	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_170	TAYLOR CREEK, headwaters to mouth (Grasshopper Creek)	Sedimentation/Siltation	1996	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_170	TAYLOR CREEK, headwaters to mouth (Grasshopper Creek)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_180	SCUDDER CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S19	Nitrogen (Total)	2006	In Progress	H
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_180	SCUDDER CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S19	Sedimentation/Siltation	1996	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Arsenic	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Chromium (total)	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Copper	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Lead	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Salinity	2006	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Sedimentation/Siltation	1988	Scheduled	M
Belt	Missouri-Sun-Smith	10030105	MT41U001_011	BELT CREEK, headwaters to Big Otter Creek	Zinc	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Arsenic	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Chromium (total)	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Copper	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Lead	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Salinity	2006	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Sedimentation/Siltation	1988	Scheduled	M
Belt	Missouri-Sun-Smith	10030105	MT41U001_012	BELT CREEK, Big Otter Creek to mouth (Missouri River)	Zinc	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_010	CARPENTER CREEK, headwaters to mouth (Belt Creek)	Cadmium	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_010	CARPENTER CREEK, headwaters to mouth (Belt Creek)	Copper	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Belt	Missouri-Sun-Smith	10030105	MT41U002_010	CARPENTER CREEK, headwaters to mouth (Belt Creek)	Lead	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_010	CARPENTER CREEK, headwaters to mouth (Belt Creek)	Mercury	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Antimony	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Arsenic	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Cadmium	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Copper	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Lead	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_020	GALENA CREEK, headwaters to mouth (Dry Fork Belt Creek)	Zinc	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	Cadmium	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	Copper	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	Lead	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	Sedimentation/Siltation	2000	Scheduled	L
Belt	Missouri-Sun-Smith	10030105	MT41U002_030	DRY FORK BELT CREEK, headwaters to mouth (Belt Creek)	Zinc	1988	In Progress	H
Belt	Missouri-Sun-Smith	10030105	MT41U002_040	LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	Phosphorus (Total)	1988	Scheduled	M
Belt	Missouri-Sun-Smith	10030105	MT41U002_040	LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	Sedimentation/Siltation	1988	Scheduled	M
Belt	Missouri-Sun-Smith	10030105	MT41U002_040	LITTLE BELT CREEK, three miles upstream to mouth (Belt Creek)	Total Kjeldahl Nitrogen (TKN)	1988	Scheduled	M
Belt	Missouri-Sun-Smith	10030105	MT41U002_050	BIG OTTER CREEK, headwaters to mouth (Belt Creek)	Nitrates	2000	Scheduled	L
Belt	Missouri-Sun-Smith	10030105	MT41U002_050	BIG OTTER CREEK, headwaters to mouth (Belt Creek)	Sedimentation/Siltation	1996	Scheduled	M
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	Cadmium	1992	Scheduled	M
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	Salinity	1992	Scheduled	M
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	Sedimentation/Siltation	1992	Scheduled	M
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	Selenium	1992	Scheduled	M
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q002_010	LAKE CREEK, headwaters to mouth (Benton Lake)	Zinc	1992	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q005_020	BENTON LAKE	Nitrogen (Total)	2000	Scheduled	L
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q005_020	BENTON LAKE	Salinity	2006	Scheduled	L
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q005_020	BENTON LAKE	Selenium	2000	Scheduled	L
Benton Lake	Missouri-Sun-Smith	10030102	MT41Q005_020	BENTON LAKE	Sulfates	2000	Scheduled	L
Big and Little Dry	Middle Missouri	10040105	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	Ammonia (Un-ionized)	2000	Scheduled	L
Big and Little Dry	Middle Missouri	10040105	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	Nitrogen, Nitrate	1994	Scheduled	M
Big and Little Dry	Middle Missouri	10040105	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	Phosphorus (Total)	1994	Scheduled	M
Big and Little Dry	Middle Missouri	10040105	MT40D001_010	BIG DRY CREEK, Steves Fork to mouth (Fort Peck Reservoir)	Total Kjeldahl Nitrogen (TKN)	1994	Scheduled	M
Big Sandy - Sage	Milk	10050005	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	Mercury	2002	Scheduled	L
Big Springs	Middle Missouri	10040103	MT41S004_040	CASINO CREEK, headwaters to mouth (Big Spring Creek)	Nitrogen (Total)	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_040	CASINO CREEK, headwaters to mouth (Big Spring Creek)	Phosphorus (Total)	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Nitrogen (Total)	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Oxygen, Dissolved	1992	Scheduled	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Phosphorus (Total)	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Sedimentation/Siltation	1992	Unassigned	M
Big Springs	Middle Missouri	10040103	MT41S004_052	COTTONWOOD CREEK, county road at T14N R18E S18 to mouth (Big Spring Creek)	Total Kjeldahl Nitrogen (TKN)	1992	Unassigned	M
Bighorn Lake - Shoshone	Middle Yellowstone	10080015	MT43R001_020	BIGHORN RIVER, Yellowtail Dam to Crow Indian Reservation boundary	Nitrogen (Total)	2000	Scheduled	L
Bitterroot	Upper Clark Fork	17010205	MT76H001_010	BITTERROOT RIVER, East and West forks to Skalkaho Creek	Copper	2004	Scheduled	L
Bitterroot	Upper Clark Fork	17010205	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek to Eightmile Creek	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek to Eightmile Creek	Phosphorus (Total)	2000	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Bitterroot	Upper Clark Fork	17010205	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek to Eightmile Creek	Sedimentation/Siltation	1988	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H001_020	BITTERROOT RIVER, Skalkaho Creek to Eightmile Creek	Temperature, water	1988	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H001_030	BITTERROOT RIVER, Eightmile Creek to mouth (Clark Fork River)	Copper	2004	Scheduled	L
Bitterroot	Upper Clark Fork	17010205	MT76H001_030	BITTERROOT RIVER, Eightmile Creek to mouth (Clark Fork River)	Lead	2004	Scheduled	L
Bitterroot	Upper Clark Fork	17010205	MT76H001_030	BITTERROOT RIVER, Eightmile Creek to mouth (Clark Fork River)	Nitrogen, Nitrate	1990	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H001_030	BITTERROOT RIVER, Eightmile Creek to mouth (Clark Fork River)	Sedimentation/Siltation	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_010	BASS CREEK, Selway-Bitterroot Wilderness boundary to mouth (un-named creek), T9N R20W S3	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_040	MILL CREEK, Selway-Bitterroot Wilderness boundary to the mouth (Fred Burr Creek), T7N R20W S19	Temperature, water	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_080	TIN CUP CREEK, Selway-Bitterroot Wilderness boundary to mouth (Bitterroot River)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	Nitrogen (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	Phosphorus (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	Sedimentation/Siltation	1988	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_090	SLEEPING CHILD CREEK, headwaters to mouth (Bitterroot River)	Temperature, water	1990	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_100	SKALKAHO CREEK, headwaters to mouth (Bitterroot River)	Mercury	2000	Scheduled	L
Bitterroot	Upper Clark Fork	17010205	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	Sedimentation/Siltation	1992	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	Temperature, water	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_110	WILLOW CREEK, headwaters to mouth (Bitterroot River)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_120	AMBROSE CREEK, headwaters to mouth (Threemile Creek)	Nitrogen (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_120	AMBROSE CREEK, headwaters to mouth (Threemile Creek)	Phosphorus (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Bitterroot	Upper Clark Fork	17010205	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	Phosphorus (Total)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	Sedimentation/Siltation	1992	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_130	MILLER CREEK, headwaters to mouth (Bitterroot River)	Temperature, water	1992	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1996	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	Phosphorus (Total)	1996	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_140	THREEMILE CREEK, headwaters to mouth (Bitterroot River)	Sedimentation/Siltation	1996	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_150	McCLAIN CREEK, headwaters to mouth (Sin-tin-tin-em-ska Creek), T11N R20W S23	Sedimentation/Siltation	1992	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_160	NORTH FORK RYE CREEK, headwaters to mouth (Rye Creek-Bitterroot River, South of Darby)	Nitrogen (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_160	NORTH FORK RYE CREEK, headwaters to mouth (Rye Creek-Bitterroot River, South of Darby)	Phosphorus (Total)	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	Phosphorus (Total)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	Sedimentation/Siltation	1992	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_170	LICK CREEK, headwaters to mouth (Bitterroot River)	Total Kjehldahl Nitrogen (TKN)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_180	MUDDY SPRING CREEK, headwaters to mouth (Gold Creek) T7N R19W S2	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_180	MUDDY SPRING CREEK, headwaters to mouth (Gold Creek) T7N R19W S2	Sedimentation/Siltation	1992	Unassigned	M
Bitterroot	Upper Clark Fork	17010205	MT76H004_190	RYE CREEK, North Fork to mouth (Bitterroot River)	Nitrogen (Total)	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_190	RYE CREEK, North Fork to mouth (Bitterroot River)	Phosphorus (Total)	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_190	RYE CREEK, North Fork to mouth (Bitterroot River)	Sedimentation/Siltation	2000	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_200	NORTH BURNT FORK CREEK, confluence with South Burnt Fork Creek to Mouth (Bitterroot River)	Bottom Deposits	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_200	NORTH BURNT FORK CREEK, confluence with South Burnt Fork Creek to Mouth (Bitterroot River)	Phosphorus (Total)	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_200	NORTH BURNT FORK CREEK, confluence with South Burnt Fork Creek to Mouth (Bitterroot River)	Total Kjehldahl Nitrogen (TKN)	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H004_210	SWEATHOUSE CREEK, headwaters to mouth (Bitterroot River)	Phosphorus (Total)	2002	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Bitterroot	Upper Clark Fork	17010205	MT76H005_011	LOLO CREEK, Mormon Creek to mouth (Bitterroot River)	Sedimentation/Siltation	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H005_012	LOLO CREEK, Sheldon Creek to Mormon Creek	Sedimentation/Siltation	2002	In Progress	H
Bitterroot	Upper Clark Fork	17010205	MT76H005_013	LOLO CREEK, headwaters to Sheldon Creek	Sedimentation/Siltation	2002	In Progress	H
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary to mouth (Bitterroot River)	Copper	2006	Unassigned	L
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary to mouth (Bitterroot River)	Lead	2006	Unassigned	L
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_030	MEADOW CREEK, headwaters to mouth (East Fork Bitterroot River)	Sedimentation/Siltation	2006	Unassigned	L
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_050	OVERWHICH CREEK, headwaters to mouth (West Fork Bitterroot River)	Sedimentation/Siltation	2006	Unassigned	L
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	Sedimentation/Siltation	2002	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Silver	2004	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Chromium (total)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Nickel	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Phosphorus (Total)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_141	EAST BOULDER RIVER, Elk Creek to mouth (Boulder River)	Sedimentation/Siltation	2000	Unassigned	L
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	Cadmium	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	Copper	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	Iron	2000	In Progress	H

L = Low M = Medium H = High / "L" if CFL > 1996 and not "H"; "M" if CFL <= 1996 and not "H"; "H" if Status = In Progress\*, 4B Evaluation, EPA Submitted, or EPA Approved [\*assumes a 2012 completion goal]

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	Lead	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_010	BOULDER RIVER, headwaters to Basin Creek	Zinc	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Iron	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Silver	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_021	BOULDER RIVER, Basin Creek to Town of Boulder	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Iron	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Silver	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Temperature, water	1990	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_022	BOULDER RIVER, Town of Boulder to Cottonwood Creek	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Temperature, water	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E001_030	BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	Zinc	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Nitrogen, Nitrate	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Turbidity	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_010	UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Mercury	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Nitrogen, Nitrate	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_020	CATARACT CREEK, headwaters to mouth (Boulder River)	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Mercury	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_030	BASIN CREEK, headwaters to mouth (Boulder River)	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Cadmium	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Mercury	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Sedimentation/Siltation	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Temperature, water	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Total Suspended Solids (TSS)	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_040	HIGH ORE CREEK, headwaters to mouth (Boulder River)	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_050	LOWLAND CREEK, headwaters to mouth (Boulder River)	Aluminum	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_050	LOWLAND CREEK, headwaters to mouth (Boulder River)	Copper	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_050	LOWLAND CREEK, headwaters to mouth (Boulder River)	Silver	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Arsenic	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Sedimentation/Siltation	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_061	ELKHORN CREEK, headwaters to Wood Gulch	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	Cadmium	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	Copper	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	Lead	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	Sedimentation/Siltation	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_062	ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	Zinc	1988	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_070	BISON CREEK, headwaters to mouth (Boulder River)	Copper	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_070	BISON CREEK, headwaters to mouth (Boulder River)	Iron	2000	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_070	BISON CREEK, headwaters to mouth (Boulder River)	Nitrates	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_080	LITTLE BOULDER RIVER, North Fork to mouth (Boulder River)	Copper	1994	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_080	LITTLE BOULDER RIVER, North Fork to mouth (Boulder River)	Zinc	1994	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_090	NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	Sedimentation/Siltation	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_090	NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_100	MUSKRAT CREEK, headwaters to mouth (Boulder River)	Copper	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_100	MUSKRAT CREEK, headwaters to mouth (Boulder River)	Lead	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_110	McCARTHY CREEK, headwaters to mouth (Boulder River)	Phosphorus (Total)	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_110	McCARTHY CREEK, headwaters to mouth (Boulder River)	Sedimentation/Siltation	1992	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_130	NURSERY CREEK, headwaters to mouth (Muskrat Creek-Boulder River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_130	NURSERY CREEK, headwaters to mouth (Muskrat Creek-Boulder River)	Sedimentation/Siltation	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_130	NURSERY CREEK, headwaters to mouth (Muskrat Creek-Boulder River)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_140	BIG LIMBER GULCH, headwaters to mouth (Cataract Creek-Boulder River)	Lead	2000	In Progress	H
Boulder - Elkhorn	Upper Missouri Tribs.	10020006	MT41E002_140	BIG LIMBER GULCH, headwaters to mouth (Cataract Creek-Boulder River)	Mercury	2000	In Progress	H
Bullwhacker - Dog	Middle Missouri	10040101	MT41T002_020	DOG CREEK, Cutbank Creek to mouth (Missouri River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2004	Scheduled	L
Bullwhacker - Dog	Middle Missouri	10040101	MT41T002_020	DOG CREEK, Cutbank Creek to mouth (Missouri River)	Sedimentation/Siltation	2004	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_020	BATTLE CREEK, headwaters to mouth (Sixteenmile Creek)	Phosphorus (Total)	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_020	BATTLE CREEK, headwaters to mouth (Sixteenmile Creek)	Sedimentation/Siltation	1990	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_020	BATTLE CREEK, headwaters to mouth (Sixteenmile Creek)	Temperature, water	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Cadmium	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Chromium (total)	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Lead	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Phosphorus (Total)	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Silver	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_030	BEAVER CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Zinc	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_041	CONFEDERATE GULCH, headwaters to Hunter Gulch	Cadmium	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_041	CONFEDERATE GULCH, headwaters to Hunter Gulch	Nitrates	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_042	CONFEDERATE GULCH, Hunter Gulch to mouth (Canyon Ferry Reservoir)	Nitrates	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_042	CONFEDERATE GULCH, Hunter Gulch to mouth (Canyon Ferry Reservoir)	Phosphorus (Total)	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_050	CROW CREEK, National Forest boundary to mouth (Missouri River)	Nitrogen (Total)	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_050	CROW CREEK, National Forest boundary to mouth (Missouri River)	Phosphorus (Total)	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_050	CROW CREEK, National Forest boundary to mouth (Missouri River)	Sedimentation/Siltation	1996	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_060	CROW CREEK, Crow Creek Falls to National Forest boundary	Copper	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_060	CROW CREEK, Crow Creek Falls to National Forest boundary	Lead	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_080	DRY CREEK, headwaters to mouth (Missouri River)	Phosphorus (Total)	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_080	DRY CREEK, headwaters to mouth (Missouri River)	Sedimentation/Siltation	1988	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_080	DRY CREEK, headwaters to mouth (Missouri River)	Temperature, water	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_090	HELLGATE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	Mercury	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_100	INDIAN CREEK, headwaters to mouty (Missouri River)	Arsenic	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_100	INDIAN CREEK, headwaters to mouty (Missouri River)	Cadmium	2000	Scheduled	L

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TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_100	INDIAN CREEK, headwaters to mouly (Missouri River)	Lead	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_100	INDIAN CREEK, headwaters to mouly (Missouri River)	Mercury	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_110	MAGPIE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Sedimentation/Siltation	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_110	MAGPIE CREEK, headwaters to mouth (Canyon Ferry Reservoir)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_120	SIXTEENMILE CREEK, Lost Creek to mouth (Missouri River)	Phosphorus (Total)	1988	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_120	SIXTEENMILE CREEK, Lost Creek to mouth (Missouri River)	Sedimentation/Siltation	1988	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_120	SIXTEENMILE CREEK, Lost Creek to mouth (Missouri River)	Total Kjehldahl Nitrogen (TKN)	1988	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_130	WHITE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	Sedimentation/Siltation	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_140	WILSON CREEK, 3.3 miles upstream to mouth (Crow Creek)	Mercury	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	Phosphorus (Total)	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	Sedimentation/Siltation	1992	Scheduled	M
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_150	CAVE GULCH, headwaters to mouth (Canyon Ferry Reservoir)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	Arsenic	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	Cadmium	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	Lead	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411002_170	EAST FORK INDIAN CREEK, headwaters to mouth (Indian Creek)	Mercury	2000	Scheduled	L
Canyon Ferry	Missouri-Sun-Smith	10030101	MT411005_020	TROUT CREEK, headwaters to mouth (Hauser Lake)	Sedimentation/Siltation	1988	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_010	WALLACE CREEK, headwaters to mouth (Clark Fork River)	Copper	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_010	WALLACE CREEK, headwaters to mouth (Clark Fork River)	Zinc	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Arsenic	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Barium	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Cobalt	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Copper	2000	In Progress	H

L = Low M = Medium H = High / "L" if CFL > 1996 and not "H"; "M" if CFL <= 1996 and not "H"; "H" if Status = In Progress\*, 4B Evaluation, EPA Submitted, or EPA Approved [\*assumes a 2012 completion goal]

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Lead	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Mercury	2000	In Progress	H
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_020	CRAMER CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_030	TENMILE CREEK, headwaters to mouth (Bear Creek-Clark Fork River)	Phosphorus (Total)	2006	Scheduled	L
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_030	TENMILE CREEK, headwaters to mouth (Bear Creek-Clark Fork River)	Sedimentation/Siltation	1994	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_050	MULKEY CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_060	RATTLE GULCH, headwaters to mouth (Clark Fork River), T11N R13W S22	Phosphorus (Total)	2006	Scheduled	L
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_060	RATTLE GULCH, headwaters to mouth (Clark Fork River), T11N R13W S22	Sedimentation/Siltation	1994	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	Sedimentation/Siltation	1996	Scheduled	M
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_070	DEEP CREEK, headwaters to mouth (Bear Creek, which is a tributary to Clark Fork River near Bearmouth)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Clark Fork River	Lower Clark Fork	17010204	MT76M001_010	CLARK FORK RIVER, the Flathead River to Fish Creek	Copper	1992	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_010	CLARK FORK RIVER, the Flathead River to Fish Creek	Lead	2004	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Arsenic	1990	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Cadmium	1990	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Copper	1990	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_030	CLARK FORK RIVER, Rattlesnake Creek to Blackfoot River	Copper	1990	In Progress	H
Clark Fork River	Lower Clark Fork	17010204	MT76M001_030	CLARK FORK RIVER, Rattlesnake Creek to Blackfoot River	Lead	1990	In Progress	H
Clark Fork River	Lower Clark Fork	17010213	MT76N001_010	CLARK FORK RIVER, the Flathead River to Noxon Reservoir	Cadmium	2000	In Progress	H
Clark Fork River	Lower Clark Fork	17010213	MT76N001_020	CLARK FORK RIVER, aka Cabinet Gorge Reservoir, Noxon Dam to Idaho Border	Dissolved Gas Supersaturation	2006	Scheduled	L
Clark Fork River	Lower Clark Fork	17010213	MT76N001_020	CLARK FORK RIVER, aka Cabinet Gorge Reservoir, Noxon Dam to Idaho Border	Temperature, water	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Arsenic	1996	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Copper	1996	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Lead	1996	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Sedimentation/Siltation	1996	Scheduled	M
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Zinc	1996	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Copper	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Lead	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Sedimentation/Siltation	1996	Scheduled	M
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Zinc	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Arsenic	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Cadmium	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Copper	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Lead	1990	In Progress	H
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Sedimentation/Siltation	1996	Scheduled	M
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Arsenic	1992	In Progress	H
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Cadmium	1992	In Progress	H
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Copper	1992	In Progress	H
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Iron	2006	In Progress	H
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Lead	1992	In Progress	H
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Zinc	1992	In Progress	H
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Ammonia (Total)	1990	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Copper	1992	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Iron	1992	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Lead	1992	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Mercury	1992	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Phosphorus (Total)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Temperature, water	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Total Kjehldahl Nitrogen (TKN)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	Sedimentation/Siltation	1990	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	Solids (Suspended/Bedload)	1990	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_010	ELBOW CREEK, headwaters to mouth (Clarks Fork)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	Iron	1988	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	Phosphorus (Total)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_020	BEAR CREEK, headwaters to mouth (Clarks Fork)	Sedimentation/Siltation	1988	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	Phosphorus (Total)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	Sedimentation/Siltation	1988	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_031	BLUEWATER CREEK, mouth to 9 miles upstream (Clarks Fork Yellowstone River)	Solids (Suspended/Bedload)	1988	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_060	RED LODGE CREEK, Cooney Reservoir to mouth (Rock Creek)	Organic Enrichment (Sewage) Biological Indicators	2000	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_070	WILLOW CREEK, headwaters to mouth (Cooney Reservoir)	Sedimentation/Siltation	1990	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_080	WEST RED LODGE CREEK, Absaroka-Beartooth Wilderness boundary to mouth (Red Lodge Creek)	Sedimentation/Siltation	1992	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Oxygen, Dissolved	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Phosphorus (Total)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems)	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Solids (Suspended/Bedload)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Specific Conductance	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Temperature, water	1996	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Total Dissolved Solids	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_100	SILVERTIP CREEK, state line to mouth (Clarks Fork)	Turbidity	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_140	COTTONWOOD CREEK, headwaters to the mouth (Clarks Fork of Yellowstone), T3S R24E S24	Oxygen, Dissolved	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_140	COTTONWOOD CREEK, headwaters to the mouth (Clarks Fork of Yellowstone), T3S R24E S24	Solids (Suspended/Bedload)	1992	Scheduled	M
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_180	SOUTH FORK BRIDGER CREEK, tributary to Bridger Creek	Arsenic	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_180	SOUTH FORK BRIDGER CREEK, tributary to Bridger Creek	Iron	2006	Scheduled	L
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D002_180	SOUTH FORK BRIDGER CREEK, tributary to Bridger Creek	Sedimentation/Siltation	1994	Scheduled	L
Cut Bank - Two Medicine	Marias	10030201	MT41M002_080	BIRCH CREEK, Blacktail Creek to mouth (Two Medicine River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Cut Bank - Two Medicine	Marias	10030201	MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Cut Bank - Two Medicine	Marias	10030201	MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	Sedimentation/Siltation	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Cut Bank - Two Medicine	Marias	10030201	MT41M002_110	DUPUYER CREEK, at the confluence of South Fork Dupuyer Creek and Middle Fork Dupuyer Creek to the mouth (Birch Creek), T30N R6W S36	Temperature, water	1992	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Ammonia (Total)	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Chloride	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Phosphorus (Total)	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Specific Conductance	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_010	OLD MAIDS COULEE, headwaters to mouth (Cutbank Creek)	Total Dissolved Solids	1990	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_040	CUT BANK CREEK, Blackfeet Reservation boundary to mouth (Marias River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	Scheduled	M
Cut Bank - Two Medicine	Marias	10030202	MT41L001_040	CUT BANK CREEK, Blackfeet Reservation boundary to mouth (Marias River)	Temperature, water	1990	Scheduled	M
Dearborn	Missouri-Sun-Smith	10030102	MT41Q003_010	DEARBORN RIVER, Falls Creek to mouth (Missouri River)	Temperature, water	1990	Unassigned	M
Fisher	Kootenai	17010102	MT76C001_010	FISHER RIVER, the Silver Butte/Pleasant Valley junction to mouth (Kootenai River)	Lead	2000	Scheduled	L
Fisher	Kootenai	17010102	MT76C001_020	WOLF CREEK, headwaters to mouth (Fisher River)	Sedimentation/Siltation	1988	Scheduled	M
Fisher	Kootenai	17010102	MT76C001_020	WOLF CREEK, headwaters to mouth (Fisher River)	Temperature, water	1990	Scheduled	M
Fisher	Kootenai	17010102	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Vally Fisher River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Fisher	Kootenai	17010102	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Vally Fisher River)	Phosphorus (Total)	2006	Scheduled	L
Fisher	Kootenai	17010102	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Vally Fisher River)	Sedimentation/Siltation	1992	Scheduled	M
Fisher	Kootenai	17010102	MT76C001_030	RAVEN CREEK, headwaters to mouth (Pleasant Vally Fisher River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Flathead - Stillwater	Flathead	17010208	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	Oxygen, Dissolved	2006	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	Phosphorus (Total)	1988	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	Sedimentation/Siltation	1988	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	Temperature, water	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flathead - Stillwater	Flathead	17010208	MT76O002_010	ASHLEY CREEK, Ashley Lake to Smith Lake	Total Kjehldahl Nitrogen (TKN)	1988	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	Oxygen, Dissolved	1990	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	Phosphorus (Total)	1990	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	Temperature, water	2006	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_030	ASHLEY CREEK, Kalispell airport road to mouth (Flathead River)	Total Kjehldahl Nitrogen (TKN)	1990	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	Arsenic	2006	Scheduled	L
Flathead - Stillwater	Flathead	17010208	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	Oxygen, Dissolved	1992	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	Phosphorus (Total)	2006	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_040	SPRING CREEK, headwaters to mouth (Ashley Creek)	Total Kjehldahl Nitrogen (TKN)	2006	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	Phosphorus (Total)	2000	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	Sedimentation/Siltation	1992	In Progress	H
Flathead - Stillwater	Flathead	17010208	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	Solids (Suspended/Bedload)	1992	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	Lead	2010	Unassigned	L
Flathead - Stillwater	Flathead	17010210	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	Nitrates	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	Phosphorus (Total)	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	Sedimentation/Siltation	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_030	LOGAN CREEK, headwaters to mouth (Tally Lake)	Sedimentation/Siltation	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_050	SHEPPARD CREEK, headwaters to mouth (Griffin Creek-Logan Creek-Talley Lake)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_050	SHEPPARD CREEK, headwaters to mouth (Griffin Creek-Logan Creek-Talley Lake)	Phosphorus (Total)	2006	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P001_050	SHEPPARD CREEK, headwaters to mouth (Griffin Creek-Logan Creek-Talley Lake)	Sedimentation/Siltation	2006	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	Copper	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	Lead	2000	Scheduled	L
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	Nitrogen (Total)	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	Oil and Grease	2000	Scheduled	L
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	PCB in Water Column	2000	Scheduled	L
Flathead - Stillwater	Flathead	17010210	MT76P003_010	WHITEFISH RIVER, Whitefish Lake to mouth, confluence with the Stillwater River	Temperature, water	1988	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P003_020	SWIFT CREEK, headwaters (East and West Forks) to mouth (Whitefish Lake)	Phosphorus (Total)	1990	In Progress	H
Flathead - Stillwater	Flathead	17010210	MT76P004_010	WHITEFISH LAKE	Mercury	2000	Scheduled	L
Flathead - Stillwater	Flathead	17010210	MT76P004_010	WHITEFISH LAKE	Polychlorinated biphenyls	2000	Scheduled	L
Flathead - Stillwater	Flathead	17010210	MT76P004_010	WHITEFISH LAKE	Sedimentation/Siltation	1996	In Progress	H
Flathead Headwaters	Flathead	17010207	MT76I002_040	CHALLENGE CREEK, headwaters to mouth (Granite Creek)	Phosphorus (Total)	2006	Scheduled	L
Flathead Lake	Flathead	17010208	MT76O003_010	FLATHEAD LAKE	Mercury	2000	Scheduled	L
Flathead Lake	Flathead	17010208	MT76O003_010	FLATHEAD LAKE	Polychlorinated biphenyls	2000	Scheduled	L
Flathead Lake	Flathead	17010208	MT76O003_010	FLATHEAD LAKE	Sedimentation/Siltation	1996	In Progress	H
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_021	FLATWILLOW CREEK, headwaters to Highway 87 bridge	Sedimentation/Siltation	2000	Scheduled	L
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	Mercury	2004	Scheduled	L
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	Nitrogen, Nitrate	2004	Unassigned	L
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	Sedimentation/Siltation	2000	Scheduled	L
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_040	NORTH FORK FLATWILLOW CREEK, headwaters to confluence with South Fork	Sedimentation/Siltation	2002	Scheduled	L
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_010	McDONALD CREEK, North and South Forks to mouth (Box Elder Creek)	Sedimentation/Siltation	1988	Scheduled	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_010	McDONALD CREEK, North and South Forks to mouth (Box Elder Creek)	Specific Conductance	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_010	McDONALD CREEK, North and South Forks to mouth (Box Elder Creek)	Total Dissolved Solids	2006	Scheduled	L
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_020	CHICAGO GULCH, headwaters to mouth (Fords Creek)	Lead	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_020	CHICAGO GULCH, headwaters to mouth (Fords Creek)	pH	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_020	CHICAGO GULCH, headwaters to mouth (Fords Creek)	Zinc	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_030	COLLAR GULCH, headwaters to mouth (Fords Creek)	Lead	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_030	COLLAR GULCH, headwaters to mouth (Fords Creek)	pH	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_030	COLLAR GULCH, headwaters to mouth (Fords Creek)	Zinc	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Antimony	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Arsenic	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Cyanide	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Iron	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Mercury	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Sedimentation/Siltation	1992	Unassigned	M
Flatwillow - Box Elder	Musselshell	10040204	MT40B002_040	CHIPPEWA CREEK, headwaters to confluence with Manitoba Gulch	Zinc	1992	Unassigned	M
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Antimony	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Arsenic	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Cadmium	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Copper	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Lead	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Mercury	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_011	FLINT CREEK, Georgetown Lake to confluence with Boulder Creek	Sedimentation/Siltation	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Arsenic	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Cadmium	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Copper	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Iron	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Lead	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Nitrogen (Total)	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Phosphorus (Total)	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_012	FLINT CREEK, Boulder Creek to mouth (Clark Fork River)	Turbidity	2006	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_020	DOUGLAS CREEK, confluence of Middle and South Forks to mouth (Flint Creek), T9N R13W S10	Nitrogen, Nitrate	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	Arsenic	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	Cadmium	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	Copper	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	Sulfates	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_030	NORTH FORK DOUGLAS CREEK, headwaters to mouth (Middle Fork Douglas Creek)	Zinc	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	Arsenic	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	Lead	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_040	FRED BURR CREEK, Fred Burr Lake to mouth (Flint Creek)	Mercury	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_050	SOUTH FORK LOWER WILLOW CREEK, headwaters to mouth (Lower Willow Creek)	Copper	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_050	SOUTH FORK LOWER WILLOW CREEK, headwaters to mouth (Lower Willow Creek)	Lead	1992	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flint	Upper Clark Fork	17010202	MT76E003_050	SOUTH FORK LOWER WILLOW CREEK, headwaters to mouth (Lower Willow Creek)	Mercury	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	Arsenic	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	Lead	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	Mercury	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_060	BOULDER CREEK, headwaters to mouth (Flint Creek)	Zinc	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	Iron	2006	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	Phosphorus (Total)	2006	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	Sedimentation/Siltation	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_070	BARNES CREEK, headwaters to mouth (Flint Creek)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_090	PRINCETON GULCH, headwaters to mouth (Boulder Creek)	Nitrates	2000	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Arsenic	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Cadmium	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Copper	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Iron	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Lead	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Mercury	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Sedimentation/Siltation	1990	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_100	DOUGLAS CREEK, headwaters to where stream ends, T7N R14W S25	Zinc	1988	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_110	SMART CREEK, headwaters to mouth (Flint Creek), T9N R13W S21	Phosphorus (Total)	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Flint	Upper Clark Fork	17010202	MT76E003_110	SMART CREEK, headwaters to mouth (Flint Creek), T9N R13W S21	Sedimentation/Siltation	1994	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	Arsenic	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	Copper	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	Lead	1992	In Progress	H
Flint	Upper Clark Fork	17010202	MT76E003_130	CAMP CREEK, headwaters to terminus, T7N R14W S25	Zinc	1992	In Progress	H
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	Cadmium	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	Copper	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	Mercury	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	pH	1992	Scheduled	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_022	ARMELLS CREEK, headwaters to Deer Creek	Zinc	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	Aluminum	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	Copper	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	Iron	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_040	COW CREEK, Als Creek to mouth (Missouri River)	Lead	1992	Unassigned	M
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	Aluminum	2006	Unassigned	L
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	Iron	2006	Unassigned	L
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	Lead	2006	Unassigned	L
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	Phosphorus (Total)	2006	Unassigned	L
Fort Peck Area Tributaries	Middle Missouri	10040104	MT40E002_130	FARGO COULEE, headwaters to mouth (Armells Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Holter	Missouri-Sun-Smith	10030101	MT411005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	Sedimentation/Siltation	1988	Scheduled	M
Holter	Missouri-Sun-Smith	10030101	MT411005_011	BEAVER CREEK, headwaters to confluence of Bridge Creek	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Holter	Missouri-Sun-Smith	10030101	MT411005_012	BEAVER CREEK, Nelson to mouth (Missouri River below Hauser Dam)	Sedimentation/Siltation	1988	Scheduled	M
Holter	Missouri-Sun-Smith	10030101	MT411005_030	FALLS GULCH, headwaters to mouth (Holter Lake), T14N R3W S16	Mercury	1992	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Holter	Missouri-Sun-Smith	10030101	MT411005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	Copper	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	Lead	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_040	VIRGINIA CREEK, headwaters to mouth (Canyon Creek)	Zinc	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	Sedimentation/Siltation	1988	Scheduled	M
Holter	Missouri-Sun-Smith	10030101	MT411005_051	LITTLE PRICKLY PEAR CREEK, North and South Forks to Clark Creek	Temperature, water	2000	Scheduled	L
Holter	Missouri-Sun-Smith	10030101	MT411005_052	LITTLE PRICKLY PEAR CREEK, Clark Creek to mouth (Missouri River)	Temperature, water	2000	Scheduled	L
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Cadmium	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Copper	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Lead	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Mercury	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Silver	1988	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_060	FOOL HEN CREEK, headwaters to mouth (Virgina Creek- Canyon Creek- Little Prickly Pear Creek)	Zinc	2010	In Progress	H
Holter	Missouri-Sun-Smith	10030101	MT411005_080	WOODSIDING GULCH, headwaters to mouth (Little Prickly Pear Creek), T13N R4W S33	Phosphorus (Total)	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040102	MT41R001_010	COFFEE CREEK, headwaters to mouth (Arrow Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	M
Judith - Arrow	Middle Missouri	10040102	MT41R001_010	COFFEE CREEK, headwaters to mouth (Arrow Creek)	Selenium	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040102	MT41R001_010	COFFEE CREEK, headwaters to mouth (Arrow Creek)	Total Dissolved Solids	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040102	MT41R001_020	ARROW CREEK, Surprise Creek to mouth (Missouri River)	Iron	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S001_020	JUDITH RIVER, Ross Fork to Big Spring Creek	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S001_020	JUDITH RIVER, Ross Fork to Big Spring Creek	Sedimentation/Siltation	1988	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	Nitrogen, Nitrate	1990	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	Phosphorus (Total)	1990	Scheduled	M

L = Low M = Medium H = High / "L" if CFL > 1996 and not "H"; "M" if CFL <= 1996 and not "H"; "H" if Status = In Progress\*, 4B Evaluation, EPA Submitted, or EPA Approved [\*assumes a 2012 completion goal]

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Judith - Arrow	Middle Missouri	10040103	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	Salinity	1988	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_010	DRY WOLF CREEK, headwaters to mouth (Wolf Creek)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mouth (Judith River)	Iron	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mouth (Judith River)	Selenium	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_020	WOLF CREEK, Dry Wolf Creek to mouth (Judith River)	Total Dissolved Solids	1992	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	Nitrogen, Nitrate	2000	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	Phosphorus (Total)	2000	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	Sedimentation/Siltation	1988	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_030	WARM SPRING CREEK, 5 miles upstream to mouth (Judith River)	Total Kjeldahl Nitrogen (TKN)	2000	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	Iron	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_050	SAGE CREEK, headwaters to mouth (Judith River)	Nitrogen (Total)	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_070	ROSS FORK JUDITH RIVER, headwaters to mouth (Judith River)	BOD, Biochemical oxygen demand	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_070	ROSS FORK JUDITH RIVER, headwaters to mouth (Judith River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_070	ROSS FORK JUDITH RIVER, headwaters to mouth (Judith River)	Sedimentation/Siltation	1988	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_080	SOUTH FORK JUDITH RIVER, headwaters to mouth	Sedimentation/Siltation	1992	Scheduled	M
Judith - Arrow	Middle Missouri	10040103	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	Cyanide	2004	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	Iron	2004	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	Selenium	2004	Scheduled	L
Judith - Arrow	Middle Missouri	10040103	MT41S002_100	LAST CHANCE CREEK, headwaters to mouth (Moccasin Creek)	Thallium	2004	Scheduled	L
Kootenai	Kootenai	17010101	MT76A001_010	KOOTENAI RIVER, confluence with Yaak River to Idaho border	Temperature, water	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D001_010	KOOTENAI RIVER, Libby Dam to Yaak River	Temperature, water	1990	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Kootenai	Kootenai	17010101	MT76D002_010	STANLEY CREEK, headwater to confluence with Fairway Creek	Copper	1988	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_010	STANLEY CREEK, headwater to confluence with Fairway Creek	Nutrient/Eutrophication Biological Indicators	2000	Scheduled	L
Kootenai	Kootenai	17010101	MT76D002_040	SNOWSHOE CREEK, Cabinet Wilderness boundary to mouth (Big Cherry Creek)	Cadmium	1988	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_040	SNOWSHOE CREEK, Cabinet Wilderness boundary to mouth (Big Cherry Creek)	Zinc	1988	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_050	BIG CHERRY CREEK, Snowshoe Creek to Mouth (Libby Creek)	Zinc	1988	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_061	LIBBY CREEK, from 1 mi above Howard Creek to highway 2 bridge	Mercury	1996	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_062	LIBBY CREEK, from the highway 2 bridge to mouth (Kootenai River)	Sedimentation/Siltation	1996	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Cadmium	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Copper	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Lead	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Mercury in Water Column	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	Scheduled	L
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Sedimentation/Siltation	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_070	LAKE CREEK, Bull Lake outlet to mouth (Kootenai River)	Zinc	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_090	QUARTZ CREEK, headwaters to confluence with the Kootenai River	Sedimentation/Siltation	1992	Scheduled	L
Kootenai	Kootenai	17010101	MT76D002_110	BRISTOW CREEK, the headwaters to mouth at Lake Koocanusa	Sedimentation/Siltation	1992	Scheduled	M
Kootenai	Kootenai	17010101	MT76D002_110	BRISTOW CREEK, the headwaters to mouth at Lake Koocanusa	Total Kjeldahl Nitrogen (TKN)	2000	Scheduled	L
Lake Basin - Spidel	Middle Yellowstone	10070007	MT43Q003_010	SPIDEL WATERFOWL PRODUCTION AREA, T5N R23E S33	Salinity	2000	Scheduled	L
Lake Basin - Spidel	Middle Yellowstone	10070007	MT43Q003_010	SPIDEL WATERFOWL PRODUCTION AREA, T5N R23E S33	Selenium	2000	Scheduled	L
Lake Basin - Spidel	Upper Yellowstone	10070004	MT43F003_010	BIG LAKE	Salinity	2000	Scheduled	L
Lake Basin - Spidel	Upper Yellowstone	10070004	MT43F003_020	HAILSTONE LAKE, T3N R20E S13	Salinity	2000	Scheduled	L
Lake Basin - Spidel	Upper Yellowstone	10070004	MT43F003_030	HALFBREED LAKE, T3N R21E S33	Salinity	2002	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Ammonia (Un-ionized)	1990	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Temperature, water	2000	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Ammonia (Un-ionized)	2006	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Temperature, water	2000	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Aluminum	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Antimony	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Arsenic	2000	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Copper	2000	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	Cadmium	1992	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	Copper	1992	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	Zinc	1992	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Aluminum	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Mercury	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Silver	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	pH	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Silver	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Temperature, water	2000	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Copper	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Mercury	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Mercury	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Mercury	1990	Unassigned	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Mercury	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Sedimentation/Siltation	1988	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Mercury	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_150	SILVER CREEK, headwaters to where the stream goes underground, T11N R4W S30	DDE	1992	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_150	SILVER CREEK, headwaters to where the stream goes underground, T11N R4W S30	Mercury	1988	Unassigned	M
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Zinc	2002	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	Organic Enrichment (Sewage) Biological Indicators	2002	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_190	JACKSON CREEK, headwaters to mouth (McClellan Creek-Prickly Pear Creek)	Zinc	2006	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	Phosphorus (Total)	2006	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_220	SKELLY GULCH, headwaters to mouth (Greenhorn Creek/Sevenmile Creek), T10N R5W S2	Arsenic	2002	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_230	GRANITE CREEK, headwaters to mouth (Sevenmile Creek)	Arsenic	2004	Unassigned	L
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_230	GRANITE CREEK, headwaters to mouth (Sevenmile Creek)	Cadmium	2004	Unassigned	L
Landusky	Middle Missouri	10040104	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	Arsenic	1990	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	Cadmium	1990	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	Copper	1990	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_010	MONTANA GULCH, headwaters to mouth (Rock Creek)	pH	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Cadmium	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Copper	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Lead	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Mercury	1994	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	pH	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Selenium	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_050	ALDER GULCH, headwaters to mouth (Ruby Creek), T26N R25E S16	Zinc	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Aluminum	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Cadmium	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Copper	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Lead	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Mercury	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	pH	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Selenium	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_060	RUBY CREEK, Un-Named tributary T25N R25E S21 to mouth (CK Creek)	Zinc	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Cadmium	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Chromium (total)	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Copper	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Lead	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Mercury	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	pH	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Selenium	1994	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Landusky	Middle Missouri	10040104	MT40E002_070	RUBY GULCH, headwaters to confluence of Alder Gulch, T25N R25E S21	Zinc	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Cadmium	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Copper	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Fecal Coliform	2000	Scheduled	L
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Lead	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Mercury	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	pH	2000	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Selenium	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_090	ROCK CREEK, headwaters to mouth (Missouri River)	Zinc	1994	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Copper	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Lead	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Mercury	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Nitrates	2000	Unassigned	L
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	pH	1996	In Progress	H
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Selenium	1996	In Progress	H
Landusky	Milk	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	Aluminum	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	Arsenic	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	Cadmium	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	Nickel	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_030	BIG HORN CREEK, Zortman Mine to Fort Belknap Reservation boundary	Zinc	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_040	KING CREEK, headwaters to Fort Belknap Reservation boundary	Selenium	1994	In Progress	H
Landusky	Milk	10050009	MT40I001_050	LODGE POLE CREEK, headwaters to Fort Belknap Reservation boundary	Cadmium	2004	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Landusky	Milk	10050009	MT40I001_050	LODGE POLE CREEK, headwaters to Fort Belknap Reservation boundary	Mercury	2004	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Aluminum	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Arsenic	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Cadmium	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Copper	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Cyanide	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Iron	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Lead	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Nickel	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	pH	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Selenium	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Thallium	2008	In Progress	H
Landusky	Milk	10050009	MT40I002_010	SWIFT GULCH CREEK, Headwaters to mouth (South Big Horn Creek), T25N R24E S10	Zinc	2008	In Progress	H
Landusky	Milk	10050014	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	Cadmium	2006	In Progress	H
Landusky	Milk	10050014	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	Iron	2006	In Progress	H
Landusky	Milk	10050014	MT40M001_011	BEAVER CREEK, headwaters to Fort Belknap Reservation boundary	Lead	2006	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	Copper	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	Lead	2000	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_010	LITTLE BLACKFOOT RIVER, Dog Creek to mouth (Clark Fork River)	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_020	LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek	Arsenic	1990	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_020	LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek	Cyanide	1990	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_020	LITTLE BLACKFOOT RIVER, the headwaters to Dog Creek	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_032	SPOTTED DOG CREEK, forest boundary to mouth (Little Blackfoot River)	Phosphorus (Total)	2006	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_032	SPOTTED DOG CREEK, forest boundary to mouth (Little Blackfoot River)	Sedimentation/Siltation	1990	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Arsenic	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Beryllium	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Cadmium	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Copper	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Iron	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_051	TELEGRAPH CREEK, headwaters to Hahn Creek	Zinc	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_052	TELEGRAPH CREEK, Hahn Creek to mouth (Little Blackfoot River)	Lead	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_052	TELEGRAPH CREEK, Hahn Creek to mouth (Little Blackfoot River)	Mercury	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	Arsenic	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	Copper	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	Lead	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	Mercury	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	pH	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_060	MONARCH CREEK, headwaters to mouth (Ontario Creek)	Selenium	1988	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_071	DOG CREEK, headwaters to Meadow Creek	Arsenic	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_071	DOG CREEK, headwaters to Meadow Creek	Lead	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_071	DOG CREEK, headwaters to Meadow Creek	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_071	DOG CREEK, headwaters to Meadow Creek	Zinc	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_072	DOG CREEK, Meadow Creek to mouth (Little Blackfoot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_072	DOG CREEK, Meadow Creek to mouth (Little Blackfoot River)	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_080	SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G004_080	SNOWSHOE CREEK, headwaters to mouth (Little Blackfoot River)	Sedimentation/Siltation	1988	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Arsenic	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Cadmium	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Copper	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Lead	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Mercury	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	pH	2000	In Progress	H
Little Blackfoot	Upper Clark Fork	17010201	MT76G006_010	Un-Named Creek, headwaters to mouth (Ontario Creek), T8N R6W S27	Zinc	2000	In Progress	H
Little Missouri	Little Missouri	10110201	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	Cadmium	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	Copper	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	Iron	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_010	THOMPSON CREEK, Wyoming border to mouth (Little Missouri River)	Zinc	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Little Missouri	Little Missouri	10110201	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	Cadmium	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	Copper	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	Iron	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	Lead	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_021	LITTLE MISSOURI RIVER, Highway 323 bridge to South Dakota border	Zinc	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Cadmium	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Copper	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Lead	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Phosphorus (Total)	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Little Missouri	Little Missouri	10110201	MT39F001_022	LITTLE MISSOURI RIVER, Wyoming border to the Highway 323 bridge	Zinc	2006	Scheduled	L
Little Missouri	Little Missouri	10110204	MT39G002_010	LAMESTEER NATIONAL WILDLIFE REFUGE, T12N R60E S15	Other	2000	Scheduled	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Cadmium	2000	Unassigned	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Copper	2000	Unassigned	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Lead	2000	Unassigned	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Zinc	2000	Unassigned	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Arsenic	2006	Unassigned	L
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_070	SASSMAN GULCH, headwaters to the end of the stream reach in T4S R9W S9	Arsenic	1988	Unassigned	M
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Bottom Deposits	1994	Unassigned	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Lead	1994	Unassigned	M
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Mercury	1994	Unassigned	M
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Phosphorus (Total)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F001_033	BLACKFOOT RIVER, Belmont Creek to mouth (Clark Fork)	Ammonia (Un-ionized)	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Arsenic	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Copper	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Phosphorus (Total)	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_020	WEST FORK ASHBY CREEK, headwaters to mouth (East Fork Ashby Creek)	Phosphorus (Total)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	Cadmium	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	Nitrogen, Nitrate	2000	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_050	EAST FORK ASHBY CREEK	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_050	EAST FORK ASHBY CREEK	Phosphorus (Total)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_060	CAMAS CREEK, 1 mile above mouth to mouth (Union Creek)	Phosphorus (Total)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	Phosphorus (Total)	2006	Unassigned	L
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Lower Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_040	BULL RIVER, the North Fork to mouth (Cabinet Gorge Reservoir)	Sedimentation/Siltation	1994	In Progress	H
Lower Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_090	MARTEN CREEK, headwaters to mouth (Noxon Reservoir)	Sedimentation/Siltation	2000	In Progress	H
Lower Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_120	WHITE PINE CREEK, headwaters to mouth (Beaver Creek)	Sedimentation/Siltation	2006	In Progress	H
Lower Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_120	WHITE PINE CREEK, headwaters to mouth (Beaver Creek)	Temperature, water	2006	Scheduled	L
Lower Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_180	DRY CREEK, headwaters to mouth (Bull River), T28N R33W S32	Sedimentation/Siltation	1996	In Progress	H
Lower Flathead	Lower Clark Fork	17010212	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2010	Unassigned	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Flathead	Lower Clark Fork	17010212	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	Phosphorus (Total)	2010	Unassigned	L
Lower Flathead	Lower Clark Fork	17010212	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	Sedimentation/Siltation	1990	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	Temperature, water	1990	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L001_010	FLATHEAD RIVER, Flathead Reservation boundary to mouth (Clark Fork River)	Total Kjeldahl Nitrogen (TKN)	2010	Unassigned	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart Reservoir to Flathead Reservation Boundary	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	Scheduled	M
Lower Flathead	Lower Clark Fork	17010212	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart Reservoir to Flathead Reservation Boundary	Phosphorus (Total)	1988	Scheduled	M
Lower Flathead	Lower Clark Fork	17010212	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart Reservoir to Flathead Reservation Boundary	Sedimentation/Siltation	1988	Scheduled	M
Lower Flathead	Lower Clark Fork	17010212	MT76L002_060	LITTLE BITTERROOT RIVER, Hubbart Reservoir to Flathead Reservation Boundary	Total Kjeldahl Nitrogen (TKN)	1988	Scheduled	M
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Aluminum	2006	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Cadmium	2006	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Escherichia coli	1988	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	pH	2010	Unassigned	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Phosphorus (Total)	1988	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Sedimentation/Siltation	1988	Scheduled	L
Lower Flathead	Lower Clark Fork	17010212	MT76L002_070	SULLIVAN CREEK, headwaters to Flathead Indian Reservation	Zinc	2006	Scheduled	L
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	Fecal Coliform	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	Nitrogen (Total)	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_010	CAMP CREEK, headwaters to mouth (Gallatin River)	Sedimentation/Siltation	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	Fecal Coliform	1996	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	Nitrogen (Total)	1996	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	Phosphorus (Total)	1996	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H002_020	GODFREY CREEK, headwaters to mouth (Moreland Ditch), T1S R3E S12	Sedimentation/Siltation	1996	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_010	EAST GALLATIN RIVER, confluence of Rocky and Bear Creeks to Bridger Creek	Nitrogen (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_010	EAST GALLATIN RIVER, confluence of Rocky and Bear Creeks to Bridger Creek	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_020	EAST GALLATIN RIVER, Bridger Creek to Smith Creek	Nitrogen (Total)	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_020	EAST GALLATIN RIVER, Bridger Creek to Smith Creek	pH	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_020	EAST GALLATIN RIVER, Bridger Creek to Smith Creek	Phosphorus (Total)	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_030	EAST GALLATIN RIVER, Smith Creek to mouth (Gallatin River)	Nitrogen (Total)	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_030	EAST GALLATIN RIVER, Smith Creek to mouth (Gallatin River)	pH	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	Escherichia coli	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	Phosphorus (Total)	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	Sedimentation/Siltation	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_040	SOURDOUR CREEK, confluence of Limestone Creek and Bozeman Creek to the mouth (East Gallatin River), T2S R6E S6	Total Kjeldahl Nitrogen (TKN)	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_050	JACKSON CREEK, headwaters to mouth (Rocky Creek)	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_050	JACKSON CREEK, headwaters to mouth (Rocky Creek)	Sedimentation/Siltation	1992	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_060	SMITH CREEK, confluence of Ross and Reese Creeks to mouth (East Gallatin River)	Fecal Coliform	2000	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_060	SMITH CREEK, confluence of Ross and Reese Creeks to mouth (East Gallatin River)	Nitrates	2000	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_060	SMITH CREEK, confluence of Ross and Reese Creeks to mouth (East Gallatin River)	Sedimentation/Siltation	1992	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	Fecal Coliform	1988	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	Nitrates	2000	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	Solids (Suspended/Bedload)	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_080	ROCKY CREEK, confluence of Jackson and Timberline Creeks to mouth (East Gallatin River)	Sedimentation/Siltation	2000	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	Sedimentation/Siltation	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_081	BEAR CREEK, headwaters to mouth (Rocky Creek)	Solids (Suspended/Bedload)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_090	THOMPSON CREEK (Thompson Spring), headwaters to mouth (East Gallatin River)	Nitrogen (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_090	THOMPSON CREEK (Thompson Spring), headwaters to mouth (East Gallatin River)	Sedimentation/Siltation	1990	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_100	DRY CREEK, headwaters to mouth (East Gallatin River)	Nitrogen (Total)	2000	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_100	DRY CREEK, headwaters to mouth (East Gallatin River)	Phosphorus (Total)	2000	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_100	DRY CREEK, headwaters to mouth (East Gallatin River)	Sedimentation/Siltation	1992	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_110	BRIDGER CREEK, headwaters to mouth (East Gallatin River)	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_110	BRIDGER CREEK, headwaters to mouth (East Gallatin River)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_120	STONE CREEK, headwaters to mouth (Bridger Creek)	Sedimentation/Siltation	1994	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	Phosphorus (Total)	2006	In Progress	H
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_050	NORTH WILLOW CREEK, headwaters to mouth (Willow Creek)	Lead	1992	Scheduled	M
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_050	NORTH WILLOW CREEK, headwaters to mouth (Willow Creek)	Mercury	1992	Scheduled	M
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	Arsenic	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	Copper	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	Lead	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	Mercury	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_060	SOUTH BOULDER RIVER, headwaters to mouth (Jefferson River)	Phosphorus (Total)	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_080	WILLOW CREEK, North and South Fork confluence to mouth (Jefferson River)	Temperature, water	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_080	WILLOW CREEK, North and South Fork confluence to mouth (Jefferson River)	Zinc	2000	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	Arsenic	2006	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	Phosphorus (Total)	2006	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	Sedimentation/Siltation	2006	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	Temperature, water	2006	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_090	NORWEGIAN CREEK, headwaters to mouth (Willow Creek Reservoir)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	Sedimentation/Siltation	1992	Scheduled	M
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_130	SOUTH WILLOW CREEK, headwaters to mouth (Willow Creek)	Zinc	1992	Scheduled	M
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_150	CHARCOAL CREEK, headwaters to mouth (Pony Creek)	Sedimentation/Siltation	1994	Scheduled	M
Lower Milk	Milk	10050012	MT40O001_010	MILK RIVER, Beaver Creek to mouth (Missouri River)	Fecal Coliform	2000	Scheduled	L
Lower Milk	Milk	10050012	MT40O001_010	MILK RIVER, Beaver Creek to mouth (Missouri River)	Lead	2000	Scheduled	L
Lower Milk	Milk	10050012	MT40O001_010	MILK RIVER, Beaver Creek to mouth (Missouri River)	Mercury	2000	Scheduled	L
Lower Milk	Milk	10050012	MT40O002_020	BUGGY CREEK, headwaters to mouth (Milk River)	Iron	2006	Scheduled	L
Lower Milk	Milk	10050012	MT40O002_031	WILLOW CREEK, headwaters to Halfpint Reservoir, T25N R35E S26	Sedimentation/Siltation	1992	Unassigned	M
Lower Milk	Milk	10050012	MT40O002_033	WILLOW CREEK, Halfpint Reservoir to mouth (Milk River), T28N R40E S29	Sedimentation/Siltation	1992	Unassigned	M
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Lower Milk	Milk	10050012	MT40Q002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Solids (Suspended/Bedload)	2006	Scheduled	L
Lower Milk - Rock	Milk	10050016	MT40Q003_010	PORCUPINE CREEK, confluence of West and Middle Forks to mouth (Milk River)	Nitrogen (Total)	1996	Scheduled	M
Lower Milk - Rock	Milk	10050016	MT40Q003_010	PORCUPINE CREEK, confluence of West and Middle Forks to mouth (Milk River)	Phosphorus (Total)	1996	Scheduled	M
Lower Milk - Rock	Milk	10050016	MT40Q003_010	PORCUPINE CREEK, confluence of West and Middle Forks to mouth (Milk River)	Salinity	2000	Scheduled	L
Lower Missouri	Lower Missouri	10060001	MT40S001_011	MISSOURI RIVER, Fort Peck Dam to Milk River	Temperature, water	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060001	MT40S001_012	MISSOURI RIVER, Milk River to Poplar River	Temperature, water	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q001_011	POPLAR RIVER, T35N R48E S17 to the mouth (Fort Peck Reservation), T33N R48E S12	Escherichia coli	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q001_011	POPLAR RIVER, T35N R48E S17 to the mouth (Fort Peck Reservation), T33N R48E S12	Sedimentation/Siltation	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q001_011	POPLAR RIVER, T35N R48E S17 to the mouth (Fort Peck Reservation), T33N R48E S12	Temperature, water	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q001_012	MIDDLE FORK POPLAR RIVER, T37N R45E S6 to the mouth (Poplar River), T36N R48E S33	Escherichia coli	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q001_012	MIDDLE FORK POPLAR RIVER, T37N R45E S6 to the mouth (Poplar River), T36N R48E S33	Sedimentation/Siltation	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q001_012	MIDDLE FORK POPLAR RIVER, T37N R45E S6 to the mouth (Poplar River), T36N R48E S33	Temperature, water	1990	Unassigned	M
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Iron	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Phosphorus (Total)	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Sodium	1988	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Specific Conductance	1990	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_010	BUTTE CREEK, headwaters to mouth (Poplar River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060003	MT40Q002_020	EAST FORK POPLAR RIVER, Canada border to mouth (Poplar River)	Iron	1990	Scheduled	M
Lower Missouri	Lower Missouri	10060005	MT40S003_010	MISSOURI RIVER, Poplar River to North Dakota border	Temperature, water	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Missouri	Lower Missouri	10060005	MT40S004_010	CHARLIE CREEK, East and Middle Charlie Creek to mouth (Missouri River)	Iron	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060005	MT40S004_010	CHARLIE CREEK, East and Middle Charlie Creek to mouth (Missouri River)	Specific Conductance	1988	Scheduled	M
Lower Missouri	Lower Missouri	10060005	MT40S004_010	CHARLIE CREEK, East and Middle Charlie Creek to mouth (Missouri River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060005	MT40S004_020	HARDSCRABBLE CREEK, headwaters to mouth (Missouri River)	Nitrogen (Total)	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060005	MT40S004_020	HARDSCRABBLE CREEK, headwaters to mouth (Missouri River)	Specific Conductance	1992	Scheduled	M
Lower Missouri	Lower Missouri	10060005	MT40S004_020	HARDSCRABBLE CREEK, headwaters to mouth (Missouri River)	Total Dissolved Solids	1992	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_010	BIG MUDDY CREEK, north corner of Fort Peck Reservation boundary to mouth (Missouri River)	Nitrogen (Total)	1990	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_010	BIG MUDDY CREEK, north corner of Fort Peck Reservation boundary to mouth (Missouri River)	Phosphorus (Total)	1990	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_010	BIG MUDDY CREEK, north corner of Fort Peck Reservation boundary to mouth (Missouri River)	Sedimentation/Siltation	1990	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Copper	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Lead	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Mercury	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Organic Enrichment (Sewage) Biological Indicators	2000	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Phosphorus (Total)	1996	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Total Kjeldahl Nitrogen (TKN)	1996	Scheduled	M
Lower Missouri	Lower Missouri	10060006	MT40R001_020	BIG MUDDY CREEK, Canadian border to northern boundary of Fort Peck Reservation	Zinc	2002	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R003_010	MEDICINE LAKE	Cadmium	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R003_010	MEDICINE LAKE	Lead	2006	Scheduled	L
Lower Missouri	Lower Missouri	10060006	MT40R003_010	MEDICINE LAKE	Mercury	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_020	FOURMILE CREEK, headwaters to North Dakota border	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L

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## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_020	FOURMILE CREEK, headwaters to North Dakota border	Total Dissolved Solids	1988	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_020	FOURMILE CREEK, headwaters to North Dakota border	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Copper	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Lead	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Phosphorus (Total)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1988	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Total Dissolved Solids	1988	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_030	FIRST HAY CREEK, headwaters to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_040	LONE TREE CREEK, confluence of North Fork to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_040	LONE TREE CREEK, confluence of North Fork to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_040	LONE TREE CREEK, confluence of North Fork to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1988	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Arsenic	1994	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Iron	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Lead	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Mercury	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Phosphorus (Total)	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Solids (Suspended/Bedload)	1988	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Sulfates	1988	Unassigned	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Total Dissolved Solids	1988	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Arsenic	1994	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Iron	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Lead	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Mercury	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Phosphorus (Total)	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Solids (Suspended/Bedload)	1988	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Sulfates	1988	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Total Dissolved Solids	1988	Unassigned	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_060	O'BRIEN CREEK, state line to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_060	O'BRIEN CREEK, state line to mouth (Yellowstone River)	Selenium	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_070	CRANE CREEK, headwaters to mouth (Yellowstone River)	Sedimentation/Siltation	1988	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_100	COTTONWOOD CREEK, headwaters to mouth (Yellowstone River)	Cadmium	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_100	COTTONWOOD CREEK, headwaters to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	Phosphorus (Total)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1992	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_110	BURNS CREEK, headwaters to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L

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## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Cadmium	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Chromium (total)	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Copper	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Lead	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Nickel	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Selenium	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1990	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_130	GLENDIVE CREEK, headwaters to mouth (Yellowstone River)	Zinc	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	Arsenic	2000	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	Copper	2000	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	Iron	2000	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_141	CEDAR CREEK, 26 miles upstream to mouth (Yellowstone River)	Lead	2000	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	Copper	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	Lead	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_142	CEDAR CREEK, 26 to 45 miles above the mouth	Selenium	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_150	CABIN CREEK, headwaters to mouth (Yellowstone River)	Oxygen, Dissolved	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_150	CABIN CREEK, headwaters to mouth (Yellowstone River)	Sedimentation/Siltation	1994	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_150	CABIN CREEK, headwaters to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	M
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	Copper	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	Lead	2006	Scheduled	L
Lower Yellowstone	Lower Yellowstone	10100004	MT42M002_180	SEARS CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Madison	Upper Missouri Tribs.	10020007	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	Copper	1990	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	Lead	1990	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	Sedimentation/Siltation	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F001_010	MADISON RIVER, Ennis Dam to mouth (Missouri River)	Temperature, water	1990	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	Nitrates	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	Phosphorus (Total)	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	Sedimentation/Siltation	1992	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	Temperature, water	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F002_020	ELK CREEK, headwaters to mouth (Madison River)	Turbidity	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F002_030	HOT SPRINGS CREEK, headwaters to mouth (Madison River)	Arsenic	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_010	BLAINE SPRING CREEK, headwaters to mouth (Madison River)	Phosphorus (Total)	2006	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_010	BLAINE SPRING CREEK, headwaters to mouth (Madison River)	Sedimentation/Siltation	2006	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_010	BLAINE SPRING CREEK, headwaters to mouth (Madison River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_020	O'DELL SPRING CREEK, headwaters to mouth (Madison River)	Arsenic	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_050	JACK CREEK, headwaters to mouth (Madison River)	Sedimentation/Siltation	1992	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F004_060	NORTH MEADOW CREEK, headwaters to mouth (Enis Lake)	Phosphorus (Total)	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_060	NORTH MEADOW CREEK, headwaters to mouth (Enis Lake)	Sedimentation/Siltation	1994	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F004_070	SOUTH MEADOW CREEK, headwaters to mouth (Enis Lake)	Lead	1994	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	Arsenic	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	Cadmium	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	Lead	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_100	WEST FORK MADISON RIVER, headwaters to mouth (Madison River)	Temperature, water	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_110	ELK RIVER, headwaters to mouth (West Fork Madison River)	Bottom Deposits	1992	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Madison	Upper Missouri Tribs.	10020007	MT41F004_130	MOORE CREEK, springs to mouth (Fletcher Channel), T5S R1W S15	Arsenic	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_130	MOORE CREEK, springs to mouth (Fletcher Channel), T5S R1W S15	Fecal Coliform	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_140	ANTELOPE CREEK, headwaters to mouth (Cliff Lake)	Sedimentation/Siltation	2006	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison River	Arsenic	2006	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F004_150	BUFORD CREEK, headwaters to confluence with West Fork Madison River	Sedimentation/Siltation	1992	Scheduled	M
Madison	Upper Missouri Tribs.	10020007	MT41F005_030	ENNIS LAKE, to the Ennis Lake Dam, T4S R1E S20	Chromium (total)	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F006_010	SOUTH FORK MADISON RIVER, headwaters to Hebgen Lake	Arsenic	2000	Scheduled	L
Madison	Upper Missouri Tribs.	10020007	MT41F006_020	RED CANYON CREEK, headwaters to mouth (Hebgen Lake)	Sedimentation/Siltation	1990	Scheduled	M
Marias - Willow	Marias	10030203	MT41P002_030	PONDERA COULEE, headwaters to mouth (Marias River)	Salinity	1988	Scheduled	M
Marias - Willow	Marias	10030203	MT41P002_050	CORRAL CREEK, headwaters to mouth (Cottonwood Creek)	Phosphorus (Total)	2000	Scheduled	L
Marias - Willow	Marias	10030204	MT41P004_020	EAGLE CREEK, headwaters to mouth (Tiber Reservoir)	Nitrogen (Total)	2000	Scheduled	L
Marias - Willow	Marias	10030204	MT41P004_020	EAGLE CREEK, headwaters to mouth (Tiber Reservoir)	Phosphorus (Total)	2000	Scheduled	L
Marias - Willow	Marias	10030204	MT41P005_010	OILMONT WETLAND, T35N R1W S31	Arsenic	2000	Scheduled	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2006	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D002_150	CHARCOAL CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2006	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	Lead	2000	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Iron	1992	Unassigned	M
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Lead	2000	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_120	TWELVEMILE CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	1992	Unassigned	M
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_160	FISHTRAP CREEK, confluence of West & Middle Forks to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_170	PINTLAR CREEK, headwaters to mouth (Big Hole River)	Temperature, water	2000	Unassigned	L

L = Low M = Medium H = High / "L" if CFL > 1996 and not "H"; "M" if CFL <= 1996 and not "H"; "H" if Status = In Progress\*, 4B Evaluation, EPA Submitted, or EPA Approved [\*assumes a 2012 completion goal]

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_230	GOLD CREEK, headwaters to mouth (Wise River)	Phosphorus (Total)	2006	Unassigned	L
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Temperature, water	2000	Unassigned	L
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Temperature, water	2000	Unassigned	L
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Arsenic	2000	Unassigned	L
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Copper	2000	Unassigned	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_020	CEDAR CREEK, headwaters to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_020	CEDAR CREEK, headwaters to mouth (Clark Fork River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_050	TROUT CREEK, headwaters to mouth (Clark Fork River)	Turbidity	2002	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_090	PETTY CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_090	PETTY CREEK, headwaters to mouth (Clark Fork River)	Temperature, water	2000	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	Phosphorus (Total)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	Sedimentation/Siltation	1990	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_100	WEST FORK PETTY CREEK, headwaters to mouth (Petty Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_130	GRANT CREEK, headwaters to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_130	GRANT CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_130	GRANT CREEK, headwaters to mouth (Clark Fork River)	Temperature, water	1990	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_160	NEMOTE CREEK, headwaters to mouth (confluence Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_160	NEMOTE CREEK, headwaters to mouth (confluence Clark Fork River)	Phosphorus (Total)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_160	NEMOTE CREEK, headwaters to mouth (confluence Clark Fork River)	Temperature, water	1992	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_160	NEMOTE CREEK, headwaters to mouth (confluence Clark Fork River)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_170	DRY CREEK, headwaters to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_170	DRY CREEK, headwaters to mouth (Clark Fork River)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Antimony	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Arsenic	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Cadmium	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Copper	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Lead	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Mercury	2002	In Progress	H
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_180	FLAT CREEK, headwaters to mouth (Clark Fork)	Sedimentation/Siltation	2002	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	Phosphorus (Total)	1988	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	Temperature, water	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_010	LYNCH CREEK, headwaters to mouth (Clark Fork River)	Total Kjehldahl Nitrogen (TKN)	1988	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N R27W S3	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N R27W S3	Phosphorus (Total)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N R27W S3	Sedimentation/Siltation	1996	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_160	SWAMP CREEK, West Fork Swamp Creek to mouth (Clark Fork River), T20N R27W S3	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_170	HENRY CREEK, headwaters to mouth (Clark Fork River), T19N R26W S1	Phosphorus (Total)	2006	Scheduled	L
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_170	HENRY CREEK, headwaters to mouth (Clark Fork River), T19N R26W S1	Sedimentation/Siltation	1992	Scheduled	M
Middle Clark Fork Tributaries	Lower Clark Fork	17010213	MT76N003_170	HENRY CREEK, headwaters to mouth (Clark Fork River), T19N R26W S1	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Milk and Tributaries	Milk	10050004	MT40J001_011	MILK RIVER, Fresno Dam to Thirtymile Creek	Mercury	2000	Unassigned	L
Middle Milk and Tributaries	Milk	10050004	MT40J001_012	MILK RIVER, Thirtymile Creek to Dobson Creek	Mercury	2000	Unassigned	L
Middle Milk and Tributaries	Milk	10050004	MT40J001_013	MILK RIVER, Dobson Creek to Whitewater Creek	Mercury	2000	Unassigned	L
Middle Milk and Tributaries	Milk	10050004	MT40J001_020	MILK RIVER, Whitewater Creek to Beaver Creek	Iron	2000	Scheduled	L
Middle Milk and Tributaries	Milk	10050004	MT40J001_020	MILK RIVER, Whitewater Creek to Beaver Creek	Nitrates	1990	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	Iron	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050004	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	Lead	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050004	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	Mercury	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050004	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	Sedimentation/Siltation	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_010	BEAVER CREEK, Beaver Creek Reservoir to mouth (Milk River)	Temperature, water	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_020	BULLHOOK CREEK, headwaters to the Bullhook Dam, T32N R16E S16	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_020	BULLHOOK CREEK, headwaters to the Bullhook Dam, T32N R16E S16	Sedimentation/Siltation	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_020	BULLHOOK CREEK, headwaters to the Bullhook Dam, T32N R16E S16	Temperature, water	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	Phosphorus (Total)	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	Sedimentation/Siltation	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	Temperature, water	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050004	MT40J002_030	LITTLE BOXELDER CREEK, headwaters to mouth (Milk River)	Total Kjeldahl Nitrogen (TKN)	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050007	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	Mercury	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050007	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1992	Scheduled	M
Middle Milk and Tributaries	Milk	10050007	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	Oxygen, Dissolved	1992	Scheduled	M
Middle Milk and Tributaries	Milk	10050007	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	Phosphorus (Total)	1992	Scheduled	M
Middle Milk and Tributaries	Milk	10050007	MT40J003_010	LODGE CREEK, Canadian border to mouth (Milk River)	Total Kjeldahl Nitrogen (TKN)	1992	Scheduled	M

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TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Milk and Tributaries	Milk	10050008	MT40J004_010	BATTLE CREEK, Canadian border to mouth (Milk River)	Sedimentation/Siltation	2000	Scheduled	L
Middle Milk and Tributaries	Milk	10050009	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	Mercury	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050009	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050009	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	Phosphorus (Total)	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050009	MT40I001_020	PEOPLES CREEK, headwaters to Fort Belknap Reservation boundary	Temperature, water	1988	Scheduled	M
Middle Milk and Tributaries	Milk	10050010	MT40J005_020	COTTONWOOD CREEK, Black Coulee to mouth (Milk River)	Iron	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050010	MT40J005_020	COTTONWOOD CREEK, Black Coulee to mouth (Milk River)	Sedimentation/Siltation	2006	Scheduled	L
Middle Milk and Tributaries	Milk	10050011	MT40K001_010	WHITEWATER CREEK, Canadian border to mouth (Milk River)	Mercury	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_020	HARRIS CREEK, headwaters to mouth (Yellowstone River)	Phosphorus (Total)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_020	HARRIS CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1992	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Copper	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Iron	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Lead	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Nitrogen (Total)	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Phosphorus (Total)	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_030	SUNDAY CREEK, the North and South Forks to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_040	MUSTER CREEK, headwaters to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1992	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_040	MUSTER CREEK, headwaters to mouth (Yellowstone River)	Phosphorus (Total)	1992	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_040	MUSTER CREEK, headwaters to mouth (Yellowstone River)	Solids (Suspended/Bedload)	1992	Scheduled	M

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TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_060	DEADMAN CREEK, headwaters to mouth (North Fork Sunday Creek)	Phosphorus (Total)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_060	DEADMAN CREEK, headwaters to mouth (North Fork Sunday Creek)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_070	STELLAR CREEK, headwaters to mouth (Little Porcupine Creek)	Cadmium	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_070	STELLAR CREEK, headwaters to mouth (Little Porcupine Creek)	pH	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_070	STELLAR CREEK, headwaters to mouth (Little Porcupine Creek)	Phosphorus (Total)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Sedimentation/Siltation	1996	Unassigned	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Sodium	1996	Unassigned	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Specific Conductance	1996	Unassigned	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Total Dissolved Solids	1996	Unassigned	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	Nitrogen (Total)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	Phosphorus (Total)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_090	SARPY CREEK, Crow Indian Reservation Boundary to mouth (Yellowstone River)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1994	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	Specific Conductance	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	Total Dissolved Solids	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_110	EAST FORK ARMELLS CREEK, Colstrip to mouth (Armells Creek)	Total Kjehldahl Nitrogen (TKN)	1994	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	Phosphorus (Total)	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	Total Dissolved Solids	1990	Scheduled	M
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_160	LITTLE PORCUPINE CREEK, headwaters to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	M
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek-Missouri River)	Cadmium	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek-Missouri River)	Nickel	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_020	COTTONWOOD CREEK, 1 mile above Stockett to mouth (Sand Coulee Creek-Missouri River)	Zinc	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	Aluminum	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	Cadmium	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	Lead	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	Nickel	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_030	NUMBER FIVE COULEE, headwaters to mouth (Cottonwood Creek)	Zinc	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	Lead	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	Salinity	2000	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_040	SAND COULEE CREEK, confluence with Cottonwood Creek to the mouth (Missouri River)	Zinc	1988	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	Aluminum	1992	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	Cadmium	1992	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	Nickel	1992	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	Salinity	2000	In Progress	H
Missouri Cascade	Missouri-Sun-Smith	10030102	MT41Q002_060	SAND COULEE, headwaters to mouth Sand Coulee Creek)	Zinc	1992	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Missouri Choteau	Missouri-Sun-Smith	10030102	MT41Q002_050	BOX ELDER CREEK, Spring Creek to mouth (Missouri River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Missouri Choteau	Missouri-Sun-Smith	10030102	MT41Q002_050	BOX ELDER CREEK, Spring Creek to mouth (Missouri River)	Sedimentation/Siltation	1992	Scheduled	M
Missouri River	Middle Missouri	10040101	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	Copper	2000	Scheduled	L
Missouri River	Middle Missouri	10040101	MT41T001_010	MISSOURI RIVER, the Marias River to Bullwhacker Creek	Lead	2000	Scheduled	L
Missouri River	Middle Missouri	10040104	MT40E001_010	MISSOURI RIVER, Bullwhacker Creek to Fort Peck Reservoir	Arsenic	1990	Scheduled	M
Missouri River	Middle Missouri	10040104	MT40E001_010	MISSOURI RIVER, Bullwhacker Creek to Fort Peck Reservoir	Copper	2000	Scheduled	L
Missouri River	Middle Missouri	10040104	MT40E004_010	FORT PECK RESERVOIR	Lead	2000	Scheduled	L
Missouri River	Middle Missouri	10040104	MT40E004_010	FORT PECK RESERVOIR	Mercury	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	Arsenic	2006	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	Nitrogen (Total)	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_011	MISSOURI RIVER, headwaters to Toston Dam	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	Cadmium	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	Copper	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	Lead	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I001_012	MISSOURI RIVER, Toston Dam to Canyon Ferry Reservoir	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I003_010	CANYON FERRY RESERVOIR	Ammonia (Un-ionized)	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I003_010	CANYON FERRY RESERVOIR	Arsenic	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I003_010	CANYON FERRY RESERVOIR	Thallium	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I004_030	MISSOURI RIVER, Holter Dam to Little Prickly Pear Creek	Phosphorus (Total)	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I004_030	MISSOURI RIVER, Holter Dam to Little Prickly Pear Creek	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I004_030	MISSOURI RIVER, Holter Dam to Little Prickly Pear Creek	Total Kjeldahl Nitrogen (TKN)	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030101	MT41I006_010	PRICKLY PEAR CREEK, Lake Helena to Hauser Lake	Arsenic	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I007_020	HOLTER LAKE Hauser Dam to Holter Lake Spillway	Mercury	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT41I007_040	HAUSER LAKE	DDT	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Missouri River	Missouri-Sun-Smith	10030101	MT411007_040	HAUSER LAKE	Endrin aldehyde	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT411007_040	HAUSER LAKE	Mercury	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT411007_040	HAUSER LAKE	Nitrogen, Nitrate	1988	Unassigned	L
Missouri River	Missouri-Sun-Smith	10030101	MT411007_040	HAUSER LAKE	Oxygen, Dissolved	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030101	MT411007_040	HAUSER LAKE	Phosphorus (Total)	1988	Unassigned	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Chromium (total)	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Mercury	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Selenium	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Solids (Suspended/Bedload)	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Turbidity	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Arsenic	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Copper	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Temperature, water	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Turbidity	2000	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Aluminum	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Arsenic	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Cadmium	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Copper	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Iron	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Lead	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Nitrogen (Total)	1988	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Phosphorus (Total)	1988	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Sedimentation/Siltation	1988	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Zinc	1992	Scheduled	L
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	Arsenic	1992	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	Nitrogen (Total)	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_021	MISSOURI RIVER, Little Prickly Pear Creek to Sheep Creek	Sedimentation/Siltation	1988	Scheduled	M
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_022	MISSOURI RIVER, Sheep Creek to Sun River	Sedimentation/Siltation	1988	Scheduled	M
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Cadmium	2000	Unassigned	L
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Mercury	2000	Unassigned	L
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Arsenic	2006	Unassigned	L
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Arsenic	2006	Unassigned	L
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Arsenic	2006	Unassigned	L
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Sedimentation/Siltation	1996	Unassigned	L
Ninemile	Lower Clark Fork	17010204	MT76M004_020	STONY CREEK, headwaters to mouth (Ninemile Creek)	Phosphorus (Total)	2006	Scheduled	L
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_020	MUSSIGBROD CREEK, headwaters to mouth (North Fork Big Hole River)	Lead	2000	Unassigned	L
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_030	JOHNSON CREEK, headwaters to mouth (North Fork Big Hole River)	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_040	SCHULTZ CREEK, headwaters to mouth (Johnson Creek)	Sedimentation/Siltation	1992	Unassigned	M
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_060	TIE CREEK, headwaters to mouth (North Fork Big Hole River)	Nitrogen (Total)	2006	Unassigned	L
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_090	JOSEPH CREEK, headwaters to mouth (Trail Creek)	Copper	2002	Unassigned	L
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_090	JOSEPH CREEK, headwaters to mouth (Trail Creek)	Lead	2002	Unassigned	L
O' Fallon	Lower Yellowstone	10100005	MT42L001_010	PENNEL CREEK, headwaters to mouth (O'Fallon Creek)	Total Dissolved Solids	1988	Scheduled	M
O' Fallon	Lower Yellowstone	10100005	MT42L001_020	SANDSTONE CREEK, headwaters to mouth (O'Fallon Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
O' Fallon	Lower Yellowstone	10100005	MT42L001_020	SANDSTONE CREEK, headwaters to mouth (O'Fallon Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Paradise	Upper Yellowstone	10070001	MT43B002_021	BEAR CREEK, 1/2 mi. below Jardine Mine to mouth (Yellowstone River)	Temperature, water	2002	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Paradise	Upper Yellowstone	10070002	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Paradise	Upper Yellowstone	10070002	MT43B004_051	BILLMAN CREEK, 1.3 miles upstream to mouth (Yellowstone River)	Sedimentation/Siltation	1992	Scheduled	M
Paradise	Upper Yellowstone	10070002	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	Combined Biota/Habitat Bioassessments	2006	Scheduled	L
Paradise	Upper Yellowstone	10070002	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Paradise	Upper Yellowstone	10070002	MT43B004_052	BILLMAN CREEK, headwaters to 1.3 miles above mouth (Yellowstone River)	Sedimentation/Siltation	1992	Scheduled	M
Paradise	Upper Yellowstone	10070002	MT43B004_061	TOM MINER CREEK, Tepee Creek to mouth (Yellowstone River)	Temperature, water	2002	Scheduled	L
Paradise	Upper Yellowstone	10070002	MT43B004_102	SIX MILE CREEK, Absaroka-Beartooth Wilderness boundary to National Forest boundary	Sedimentation/Siltation	2000	Scheduled	L
Powder	Lower Yellowstone	10090207	MT42J001_010	POWDER RIVER, Wyoming border to Little Powder River	Salinity	2008	Scheduled	L
Powder	Lower Yellowstone	10090208	MT42I001_010	LITTLE POWDER RIVER, the border to mouth (Powder River)	Salinity	1996	Scheduled	M
Powder	Lower Yellowstone	10090209	MT42J003_011	POWDER RIVER, Little Powder River to Mizpah Creek	Salinity	1996	Unassigned	M
Powder	Lower Yellowstone	10090209	MT42J003_012	POWDER RIVER, Mizpah Creek to mouth (Yellowstone River)	Salinity	1996	Unassigned	M
Powder	Lower Yellowstone	10090209	MT42J004_010	STUMP CREEK, headwaters to mouth (Powder River)	Salinity	2008	Scheduled	L
Powder	Lower Yellowstone	10090210	MT42J005_011	MIZPAH CREEK, headwaters to Corral Creek	Salinity	2008	Unassigned	L
Powder	Lower Yellowstone	10090210	MT42J005_012	MIZPAH CREEK, Corral Creek to the mouth (Powder River)	Salinity	2010	Unassigned	L
Prospect Creek	Lower Clark Fork	17010213	MT76N003_022	COX GULCH headwaters to mouth (Prospect Creek)	Zinc	2004	Unassigned	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark Canyon Reservoir	Lead	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark Canyon Reservoir	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark Canyon Reservoir	Temperature, water	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_010	RED ROCK RIVER, Lima Dam to Clark Canyon Reservoir	Zinc	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	Temperature, water	1992	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Red Rock	Upper Missouri Tribs.	10020001	MT41A001_020	RED ROCK RIVER, Lower Red Rock Lake to Lima Dam	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_010	MEDICINE LODGE CREEK, headwaters to mouth (Horse Prairie Creek)	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_010	MEDICINE LODGE CREEK, headwaters to mouth (Horse Prairie Creek)	Sedimentation/Siltation	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_010	MEDICINE LODGE CREEK, headwaters to mouth (Horse Prairie Creek)	Temperature, water	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_020	MUDDY CREEK, confluence of Sourdough and Wilson Creek to mouth (Big Sheep Creek), T14S R10W S10	Turbidity	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Arsenic	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Cadmium	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Copper	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Lead	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Mercury	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_090	HORSE PRAIRIE CREEK, headwaters to mouth (Clark Canyon Res)	Zinc	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_100	BLOODY DICK CREEK, headwaters to mouth (Horse Prairie Creek)	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_100	BLOODY DICK CREEK, headwaters to mouth (Horse Prairie Creek)	Total Kjehldahl Nitrogen (TKN)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_150	SHEEP CREEK, Muddy Creek to mouth (Red Rock River)	Nonnative Fish, Shellfish, or Zooplankton	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A003_150	SHEEP CREEK, Muddy Creek to mouth (Red Rock River)	Sedimentation/Siltation	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_010	PRICE CREEK, headwaters to mouth (Red Rock River)	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_030	FISH CREEK, headwaters to mouth (Metzel Creek)	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_040	CORRAL CREEK, headwaters to mouth (Red Rock Creek)	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_040	CORRAL CREEK, headwaters to mouth (Red Rock Creek)	Sedimentation/Siltation	1990	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_050	EAST FORK CLOVER CREEK, headwaters to mouth (Clover Creek)	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_050	EAST FORK CLOVER CREEK, headwaters to mouth (Clover Creek)	Sedimentation/Siltation	1992	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_070	LONG CREEK, headwaters to mouth (Red Rock River)	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_080	O'DELL CREEK, headwaters to mouth (Lower Red Rock Lake)	Turbidity	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_090	PEET CREEK, headwaters to mouth (Red Rock River)	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_090	PEET CREEK, headwaters to mouth (Red Rock River)	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_090	PEET CREEK, headwaters to mouth (Red Rock River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_100	TOM CREEK, headwaters to mouth (Upper Red Rock Lake)	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_110	RED ROCK CREEK, headwaters to mouth (Upper Red Rock Lake)	Turbidity	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_130	JONES CREEK, headwaters to Winslow Creek	Phosphorus (Total)	2006	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_130	JONES CREEK, headwaters to Winslow Creek	Sedimentation/Siltation	1990	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A004_140	BEAN CREEK, headwaters to Mouth (Red Rock River), T14S R3E S7	Sedimentation/Siltation	1996	Scheduled	M
Red Rock	Upper Missouri Tribs.	10020001	MT41A005_020	LOWER RED ROCK LAKE	Sedimentation/Siltation	2000	Scheduled	L
Red Rock	Upper Missouri Tribs.	10020001	MT41A005_030	UPPER RED ROCK LAKE	Sedimentation/Siltation	1990	Scheduled	M
Redwater	Lower Missouri	10060001	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	Phosphorus (Total)	1990	In Progress	H
Redwater	Lower Missouri	10060001	MT40S002_010	PRAIRIE ELK CREEK, East and Middle Forks to mouth (Missouri River)	Total Kjeldahl Nitrogen (TKN)	1990	In Progress	H
Redwater	Lower Missouri	10060001	MT40S002_030	SAND CREEK, confluence of East and West Rorks to mouth (Missouri River)	Phosphorus (Total)	1990	In Progress	H
Redwater	Lower Missouri	10060001	MT40S002_030	SAND CREEK, confluence of East and West Rorks to mouth (Missouri River)	Sedimentation/Siltation	1990	Scheduled	M
Redwater	Lower Missouri	10060001	MT40S002_030	SAND CREEK, confluence of East and West Rorks to mouth (Missouri River)	Total Kjeldahl Nitrogen (TKN)	1990	In Progress	H
Redwater	Lower Missouri	10060002	MT40P001_012	REDWATER RIVER, Hell Creek to Buffalo Springs Creek	Nitrogen (Total)	2000	In Progress	H
Redwater	Lower Missouri	10060002	MT40P001_012	REDWATER RIVER, Hell Creek to Buffalo Springs Creek	Phosphorus (Total)	2000	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Phosphorus (Total)	2006	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Sedimentation/Siltation	1992	Unassigned	M
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Specific Conductance	1992	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Sulfates	1992	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Total Dissolved Solids	1992	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_010	EAST REDWATER CREEK, headwaters to mouth (Redwater River)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_020	HORSE CREEK, headwaters to mouth at Redwater River near town of Circle	Salinity	2000	In Progress	H
Redwater	Lower Missouri	10060002	MT40P002_030	PASTURE CREEK, headwaters to mouth at Redwater River	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Redwater	Middle Missouri	10040104	MT40E003_010	TIMBER CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Phosphorus (Total)	2006	In Progress	H
Redwater	Middle Missouri	10040104	MT40E003_010	TIMBER CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H
Redwater	Middle Missouri	10040104	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Cadmium	2006	Unassigned	L
Redwater	Middle Missouri	10040104	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Copper	2006	Unassigned	L
Redwater	Middle Missouri	10040104	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Nitrates	2000	In Progress	H
Redwater	Middle Missouri	10040104	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Sulfates	2006	Unassigned	L
Rock	Upper Clark Fork	17010202	MT76E002_020	EAST FORK ROCK CREEK, East Fork Reservoir to mouth (Middle Fork Rock Creek)	Nitrogen, Nitrate	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_020	EAST FORK ROCK CREEK, East Fork Reservoir to mouth (Middle Fork Rock Creek)	Sedimentation/Siltation	1992	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_020	EAST FORK ROCK CREEK, East Fork Reservoir to mouth (Middle Fork Rock Creek)	Temperature, water	1992	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Rock	Upper Clark Fork	17010202	MT76E002_030	WEST FORK ROCK CREEK, headwaters to mouth (Rock Creek)	Mercury	2000	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_050	BREWSTER CREEK, East Fork to mouth (Rock Creek)	Phosphorus (Total)	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_050	BREWSTER CREEK, East Fork to mouth (Rock Creek)	Sedimentation/Siltation	1992	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	Nitrate/Nitrite (Nitrite + Nitrate as N)	1994	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	Phosphorus (Total)	1994	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	Sedimentation/Siltation	1994	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_060	SOUTH FORK ANTELOPE CREEK, headwaters to mouth (Antelope Creek), T6N R15W S22	Temperature, water	1994	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_070	QUARTZ GULCH, headwaters to mouth (Basin Gulch)	Mercury	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_070	QUARTZ GULCH, headwaters to mouth (Basin Gulch)	Sedimentation/Siltation	1992	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	Arsenic	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	Mercury	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	Sedimentation/Siltation	1992	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_090	EUREKA GULCH, confluence of Quartz Gulch and Basin Gulch to mouth (Rock Creek)	Solids (Suspended/Bedload)	1992	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_100	SCOTCHMAN GULCH, headwaters to mouth (Upper Willow Creek)	Phosphorus (Total)	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_100	SCOTCHMAN GULCH, headwaters to mouth (Upper Willow Creek)	Sedimentation/Siltation	1988	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	Arsenic	1996	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_110	SLUICE GULCH, headwaters to mouth (Rock Creek)	Sedimentation/Siltation	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	Phosphorus (Total)	2006	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	Sedimentation/Siltation	1988	In Progress	H
Rock	Upper Clark Fork	17010202	MT76E002_120	FLAT GULCH, headwaters to mouth (Rock Creek)	Total Kjeldahl Nitrogen (TKN)	2006	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Rock	Upper Clark Fork	17010202	MT76E002_160	MINERS GULCH, headwaters to mouth (Upper Willow Creek), T8N R15W S23	Sedimentation/Siltation	1994	In Progress	H
Rosebud	Middle Yellowstone	10100003	MT42A001_012	ROSEBUD CREEK, Northern Cheyenne Reservation boundary to an irrigation dam 3.8 mi above the mouth	Other	2000	Scheduled	L
Ruby	Upper Missouri Tribs.	10020003	MT41C001_010	RUBY RIVER, Ruby Dam to mouth (Beaverhead River)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C001_020	RUBY RIVER, confluence of East, West, and Middle Forks to Ruby Reservoir	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	Arsenic	2002	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	Copper	2002	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	Lead	2002	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	Mercury	2002	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_020	MILL CREEK, headwaters to mouth (Ruby River)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_020	MILL CREEK, headwaters to mouth (Ruby River)	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	Lead	2000	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	Manganese	2000	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	Mercury	2000	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	Total Kjeldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_050	RAMSHORN CREEK, headwaters to mouth (Ruby River)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	Copper	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	Lead	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	Nitrogen (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_090	CALIFORNIA CREEK, headwaters to mouth (Ruby River), T5S R4W S30	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_100	GARDEN CREEK, headwaters to mouth (Ruby Reservoir)	Nitrogen (Total)	2006	Unassigned	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Ruby	Upper Missouri Tribs.	10020003	MT41C002_100	GARDEN CREEK, headwaters to mouth (Ruby Reservoir)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C002_110	MORMON CREEK, headwaters to mouth (Upper end of Ruby River Reservoir )	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_030	COTTONWOOD CREEK, headwaters to mouth (Ruby River)	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_040	EAST FORK RUBY RIVER, headwaters to mouth (Ruby River)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_040	EAST FORK RUBY RIVER, headwaters to mouth (Ruby River)	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	Temperature, water	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	Cadmium	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	Lead	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	Nitrogen (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	Phosphorus (Total)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Ruby	Upper Missouri Tribs.	10020003	MT41C003_140	HAWKEYE CREEK, headwaters to mouth (Middle Fork Ruby River)	Phosphorus (Total)	2006	Unassigned	L
Shields	Upper Yellowstone	10070003	MT43A002_020	ANTELOPE CREEK, headwaters to mouth (Shields River)	Solids (Suspended/Bedload)	1992	Unassigned	M
Smith	Missouri-Sun-Smith	10030103	MT41J001_010	SMITH RIVER, North and South Forks to Hound Creek	Fecal Coliform	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J001_010	SMITH RIVER, North and South Forks to Hound Creek	Phosphorus (Total)	2000	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Smith	Missouri-Sun-Smith	10030103	MT41J001_020	SMITH RIVER, Hound Creek to mouth (Missouri River)	Phosphorus (Total)	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J001_020	SMITH RIVER, Hound Creek to mouth (Missouri River)	Temperature, water	1988	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_011	NORTH FORK SMITH RIVER, Lake Sutherlin to mouth (Smith River), T9N R6E S21	Fecal Coliform	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_011	NORTH FORK SMITH RIVER, Lake Sutherlin to mouth (Smith River), T9N R6E S21	Nitrogen (Total)	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_011	NORTH FORK SMITH RIVER, Lake Sutherlin to mouth (Smith River), T9N R6E S21	Phosphorus (Total)	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_020	HOUND CREEK, Spring Creek to mouth (Smith River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_030	SHEEP CREEK, headwaters to mouth (Smith River)	Fecal Coliform	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_030	SHEEP CREEK, headwaters to mouth (Smith River)	Mercury	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_040	BEAVER CREEK, headwaters to mouth (Smith River)	Phosphorus (Total)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_040	BEAVER CREEK, headwaters to mouth (Smith River)	Sedimentation/Siltation	1990	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_040	BEAVER CREEK, headwaters to mouth (Smith River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_050	BENTON GULCH, headwaters to mouth (Smith River)	Fecal Coliform	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	Phosphorus (Total)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	Sedimentation/Siltation	1990	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	Temperature, water	1988	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_060	ELK CREEK, headwaters to mouth (Camas Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_070	THOMPSON GULCH, headwaters to mouth (Smith River)	Sedimentation/Siltation	1988	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_070	THOMPSON GULCH, headwaters to mouth (Smith River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	Escherichia coli	2000	Unassigned	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	Sedimentation/Siltation	1988	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	Temperature, water	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	Cadmium	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	Phosphorus (Total)	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Smith	Missouri-Sun-Smith	10030103	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	Sedimentation/Siltation	1988	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	Solids (Suspended/Bedload)	1990	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_082	NEWLAN CREEK, headwaters to Newlan Reservoir	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_100	LITTLE CAMAS CREEK, headwaters to mouth (Camas Creek)	Nitrogen (Total)	2006	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_100	LITTLE CAMAS CREEK, headwaters to mouth (Camas Creek)	Temperature, water	1990	Scheduled	M
Smith	Missouri-Sun-Smith	10030103	MT41J002_110	CAMAS CREEK, junction of Big and Little Camas Creeks to mouth (Smith River)	Fecal Coliform	2000	Scheduled	L
Smith	Missouri-Sun-Smith	10030103	MT41J002_120	MOOSE CREEK, headwaters to mouth (Sheep Creek)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Cadmium	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Chromium (total)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Copper	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Cyanide	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Mercury	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Nickel	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C001_020	STILLWATER RIVER, Forest Service Boundary to the mouth (Yellowstone River), T2S R20E S20	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_010	LOGGPOLE CREEK, headwaters to mouth (Castle Creek)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_030	CASTLE CREEK, headwaters to the mouth (Limestone Creek), T4S R15E S29	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_041	GROVE CREEK, confluence of South Fork Grove Creek, T4S R18E S13 to the mouth (Stillwater River), T3S R18E S34	Phosphorus (Total)	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_041	GROVE CREEK, confluence of South Fork Grove Creek, T4S R18E S13 to the mouth (Stillwater River), T3S R18E S34	Sedimentation/Siltation	1992	Scheduled	M
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_050	FISHTAIL CREEK, headwaters to mouth (West Rosebud Creek)	Iron	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_050	FISHTAIL CREEK, headwaters to mouth (West Rosebud Creek)	Lead	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_070	JOE HILL CREEK, headwaters to mouth (Stillwater River)	Sedimentation/Siltation	1992	Scheduled	M
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_081	BUTCHER CREEK, highway 78 to mouth (Rosebud Creek)	Solids (Suspended/Bedload)	1996	Scheduled	M
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	Phosphorus (Total)	1996	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	Sedimentation/Siltation	1996	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_082	BUTCHER CREEK, headwaters to highway 78	Solids (Suspended/Bedload)	1996	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_090	WEST ROSEBUD CREEK, headwaters to mouth (Rosebud Creek)	Benthic-Macroinvertebrate Bioassessments	2006	Scheduled	L
Stillwater - Columbus	Upper Yellowstone	10070005	MT43C002_100	ROSEBUD CREEK, East and West Branches to mouth (Stillwater River)	Benthic-Macroinvertebrate Bioassessments	2006	Scheduled	L
Sun	Missouri-Sun-Smith	10030104	MT41K004_030	FREEZEOUT LAKE	Phosphorus (Total)	2000	Unassigned	L
Thompson	Lower Clark Fork	17010213	MT76N005_030	McGREGOR CREEK, McGregor Lale to mouth (Thompson River)	Phosphorus (Total)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_030	McGREGOR CREEK, McGregor Lale to mouth (Thompson River)	Sedimentation/Siltation	1992	Scheduled	M
Thompson	Lower Clark Fork	17010213	MT76N005_030	McGREGOR CREEK, McGregor Lale to mouth (Thompson River)	Temperature, water	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_040	LITTLE THOMPSON RIVER, headwaters to mouth (Thompson River), T22N R25W S8	Phosphorus (Total)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_040	LITTLE THOMPSON RIVER, headwaters to mouth (Thompson River), T22N R25W S8	Sedimentation/Siltation	1992	Scheduled	M
Thompson	Lower Clark Fork	17010213	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	Phosphorus (Total)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	Sedimentation/Siltation	1992	Scheduled	M
Thompson	Lower Clark Fork	17010213	MT76N005_060	LAZIER CREEK, headwaters to mouth (Thompson River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_070	MCGINNIS CREEK, headwaters to mouth (Little Thompson River)	Phosphorus (Total)	2006	Scheduled	L
Thompson	Lower Clark Fork	17010213	MT76N005_070	MCGINNIS CREEK, headwaters to mouth (Little Thompson River)	Sedimentation/Siltation	1992	Scheduled	M
Tobacco	Kootenai	17010101	MT76D004_010	TOBACCO RIVER, confluence of Grave Creek & Fortine Creek to mouth (Lake Koocanusa)	Sedimentation/Siltation	1988	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	Sedimentation/Siltation	1990	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_020	FORTINE CREEK, headwaters to mouth (Graves Creek)	Temperature, water	2006	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Tobacco	Kootenai	17010101	MT76D004_030	EDNA CREEK, headwaters to mouth (Fortine Creek)	Sedimentation/Siltation	1992	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_040	SWAMP CREEK, headwaters to mouth (Fortine Creek)	Sedimentation/Siltation	1992	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	Arsenic	2006	Unassigned	L
Tobacco	Kootenai	17010101	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	Phosphorus (Total)	2006	Unassigned	L
Tobacco	Kootenai	17010101	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	Sedimentation/Siltation	1996	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_050	LIME CREEK, headwaters to mouth (Fortine Creek)	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Tobacco	Kootenai	17010101	MT76D004_070	THERRIAULT CREEK, headwaters to mouth (Tobacco River)	Sedimentation/Siltation	1988	In Progress	H
Tobacco	Kootenai	17010101	MT76D004_080	DEEP CREEK, headwaters to mouth (Fortine Creek)	Sedimentation/Siltation	2006	In Progress	H
Tongue	Middle Yellowstone	10090101	MT42B001_010	TONGUE RIVER, Wyoming border to Tongue River Reservoir	Iron	2008	Scheduled	L
Tongue	Middle Yellowstone	10090101	MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	Iron	1996	Scheduled	M
Tongue	Middle Yellowstone	10090101	MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	Salinity	2008	Scheduled	L
Tongue	Middle Yellowstone	10090101	MT42B002_031	HANGING WOMAN CREEK, Stroud Creek to mouth (Tongue River)	Sedimentation/Siltation	2000	Scheduled	L
Tongue	Middle Yellowstone	10090101	MT42B002_032	HANGING WOMAN CREEK, Wyoming border to Stroud Creek	Salinity	1996	Scheduled	M
Tongue	Middle Yellowstone	10090101	MT42B003_010	TONGUE RIVER RESERVOIR	Oxygen, Dissolved	2008	Scheduled	L
Tongue	Middle Yellowstone	10090101	MT42B003_010	TONGUE RIVER RESERVOIR	Solids (Suspended/Bedload)	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Cadmium	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Copper	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Iron	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Lead	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Nickel	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Salinity	2008	Scheduled	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Solids (Suspended/Bedload)	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Sulfates	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_011	TONGUE RIVER, diversion dam just above Pumpkin Creek to mouth (Yellowstone River)	Zinc	2008	Scheduled	L
Tongue	Middle Yellowstone	10090102	MT42C001_013	TONGUE RIVER, Hanging Woman Creek to Beaver Creek	Iron	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C001_013	TONGUE RIVER, Hanging Woman Creek to Beaver Creek	Solids (Suspended/Bedload)	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C001_014	TONGUE RIVER, Beaver Creek to Twelve Mile Dam, T6N R48E S29	Iron	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C001_014	TONGUE RIVER, Beaver Creek to Twelve Mile Dam, T6N R48E S29	Solids (Suspended/Bedload)	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C002_020	OTTER CREEK, headwaters to mouth (Tongue River)	Iron	1996	Scheduled	M
Tongue	Middle Yellowstone	10090102	MT42C002_020	OTTER CREEK, headwaters to mouth (Tongue River)	Salinity	1996	Scheduled	M
Tongue	Middle Yellowstone	10090102	MT42C002_020	OTTER CREEK, headwaters to mouth (Tongue River)	Solids (Suspended/Bedload)	1996	Scheduled	M
Tongue	Middle Yellowstone	10090102	MT42C002_061	PUMPKIN CREEK, headwaters to Little Pumpkin Creek	Salinity	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C002_061	PUMPKIN CREEK, headwaters to Little Pumpkin Creek	Temperature, water	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creek to the mouth (Tongue River)	Salinity	1996	Unassigned	M
Tongue	Middle Yellowstone	10090102	MT42C002_062	PUMPKIN CREEK, Little Pumpkin Creek to the mouth (Tongue River)	Temperature, water	1996	Unassigned	M
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2002	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2002	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	Copper	2000	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_160	PINE CREEK, headwaters to mouth (Andrus Creek)	Phosphorus (Total)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	Phosphorus (Total)	2006	Unassigned	L

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_180	WARM SPRINGS CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_180	WARM SPRINGS CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_180	WARM SPRINGS CREEK, headwaters to mouth (Big Hole River)	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Cadmium	2000	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Copper	2000	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2006	Unassigned	L
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Chromium (total)	1988	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Aluminum	1988	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Phosphorus (Total)	2006	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Iron	2000	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Manganese	2000	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Sulfates	1996	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_100	DEMPSEY CREEK, the national forest boundary to mouth (Clark Fork River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Nitrogen (Total)	2006	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Phosphorus (Total)	2006	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Total Kjehldahl Nitrogen (TKN)	2006	Unassigned	L
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Aluminum	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Arsenic	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Copper	1996	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Iron	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Lead	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Manganese	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Nitrates	1996	Scheduled	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Sedimentation/Siltation	1996	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Silver	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_020	SILVER BOW CREEK, headwaters to mouth (Clark Fork River), T5N R9W S18	Zinc	1996	In Progress	H
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Nitrogen (Total)	1990	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	Nitrogen (Total)	1990	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	Nitrogen (Total)	1990	Unassigned	M
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_111	WARM SPRINGS CREEK, headwaters to R9W and R10W	Sedimentation/Siltation	1988	Unassigned	M
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_010	SQUAW CREEK, aka Storm Castle Creek, headwaters to the mouth (Gallatin River), T4S R4E S33	Phosphorus (Total)	2000	Unassigned	L
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_020	TAYLOR FORK, Lee Metcalf Wilderness boundary to mouth (Gallatin River)	Sedimentation/Siltation	2000	Unassigned	L
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_020	TAYLOR FORK, Lee Metcalf Wilderness boundary to mouth (Gallatin River)	Solids (Suspended/Bedload)	2000	Unassigned	L
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_030	CACHE CREEK, headwaters to mouth (Taylor Fork)	Sedimentation/Siltation	1988	Unassigned	M
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_030	CACHE CREEK, headwaters to mouth (Taylor Fork)	Solids (Suspended/Bedload)	1988	Unassigned	M
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to mouth (Gallatin River)	Nitrogen (Total)	2000	In Progress	H
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to mouth (Gallatin River)	Phosphorus (Total)	2000	Unassigned	L
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_040	WEST FORK GALLATIN RIVER, confluence Middle and North Forks to mouth (Gallatin River)	Sedimentation/Siltation	1990	In Progress	H

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_050	MIDDLE FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Fecal Coliform	2000	In Progress	H
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_050	MIDDLE FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	In Progress	H
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_050	MIDDLE FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Solids (Suspended/Bedload)	1990	In Progress	H
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_060	SOUTH FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2000	In Progress	H
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_060	SOUTH FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Phosphorus (Total)	2000	Unassigned	L
Upper Gallatin	Upper Missouri Tribs.	10020008	MT41H005_060	SOUTH FORK WEST FORK GALLATIN RIVER, headwaters to mouth (West Fork Gallatin River)	Sedimentation/Siltation	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Copper	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Lead	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Sedimentation/Siltation	1988	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Solids (Suspended/Bedload)	1988	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_011	JEFFERSON RIVER, headwaters to Jefferson Slough	Temperature, water	2000	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Copper	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Lead	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Sedimentation/Siltation	1988	Unassigned	M
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Solids (Suspended/Bedload)	1988	Unassigned	M
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G001_012	JEFFERSON RIVER, Jefferson Slough to mouth (Missouri River)	Temperature, water	2000	Unassigned	L
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Nitrogen (Total)	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Phosphorus (Total)	1990	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Temperature, water	2000	Unassigned	L
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_020	HALFWAY CREEK, headwaters to mouth (Big Pipestone Creek-Jefferson River)	Sedimentation/Siltation	1992	Unassigned	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	Nitrogen (Total)	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	Phosphorus (Total)	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_110	CHERRY CREEK, headwaters to mouth (Jefferson River)	Zinc	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Aluminum	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Ammonia (Un-ionized)	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Copper	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Lead	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1994	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Phosphorus (Total)	1994	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Silver	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jeferson Slough)	Total Kjehldahl Nitrogen (TKN)	1994	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_160	FITZ CREEK, headwaters to mouth (Little Whitetail Creek)	Phosphorus (Total)	2006	In Progress	H
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_160	FITZ CREEK, headwaters to mouth (Little Whitetail Creek)	Sedimentation/Siltation	1996	Unassigned	M
Upper Milk	Milk	10050002	MT40F003_010	MILK RIVER, Eastern, Canada border to Fresno Reservoir	Copper	2006	Scheduled	L
Upper Milk	Milk	10050002	MT40F003_010	MILK RIVER, Eastern, Canada border to Fresno Reservoir	Iron	2006	Scheduled	L
Upper Milk	Milk	10050002	MT40F003_010	MILK RIVER, Eastern, Canada border to Fresno Reservoir	Lead	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	Nitrogen (Total)	1996	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	Phosphorus (Total)	1996	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A001_010	MUSSELSHELL RIVER, North & South Fork confluence to Deadmans Basin Diversion Canal	Sedimentation/Siltation	1996	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

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Upper/Middle Musselshell	Musselshell	10040201	MT40A001_020	MUSSELSHELL RIVER, Deadmans Basin Supply Canal to HUC boundary near Roundup	Nitrogen (Total)	1988	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A001_020	MUSSELSHELL RIVER, Deadmans Basin Supply Canal to HUC boundary near Roundup	Phosphorus (Total)	1988	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A001_020	MUSSELSHELL RIVER, Deadmans Basin Supply Canal to HUC boundary near Roundup	Sedimentation/Siltation	1988	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_030	TRAIL CREEK, headwaters to mouth (North Fork Musselshell River)	Sedimentation/Siltation	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_040	MILL CREEK, headwaters to mouth (North Fork Musselshell River)	Sedimentation/Siltation	1992	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	Phosphorus (Total)	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_070	FISH CREEK, headwaters to mouth (Musselshell River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_080	PAINTED ROBE CREEK, headwaters to mouth (Musselshell River)	Salinity	1994	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_080	PAINTED ROBE CREEK, headwaters to mouth (Musselshell River)	Total Kjeldahl Nitrogen (TKN)	1994	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	1992	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	Nitrogen (Total)	1992	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A002_090	HALF BREED CREEK, headwaters to mouth (Musselshell River)	Total Kjeldahl Nitrogen (TKN)	1992	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040201	MT40A005_010	DEADMANS BASIN RESERVOIR	Copper	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A005_010	DEADMANS BASIN RESERVOIR	Iron	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040201	MT40A005_010	DEADMANS BASIN RESERVOIR	Lead	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Iron	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Phosphorus (Total)	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Sedimentation/Siltation	1994	Scheduled	M
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Solids (Suspended/Bedload)	1994	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Specific Conductance	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Sulfates	2006	Scheduled	L
Upper/Middle Musselshell	Musselshell	10040202	MT40C002_010	NORTH WILLOW CREEK, headwaters to mouth (Musselshell River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Yaak	Kootenai	17010103	MT76B002_010	SEVENTEEN MILE CREEK, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yaak	Kootenai	17010103	MT76B002_020	LAP CREEK, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yaak	Kootenai	17010103	MT76B002_060	SPREAD CREEK, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2010	Unassigned	L
Yaak	Kootenai	17010103	MT76B002_070	PETE CREEK, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yaak	Kootenai	17010103	MT76B002_090	WEST FORK YAAK RIVER, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yaak	Kootenai	17010103	MT76B002_100	EAST FORK YAAK RIVER, headwaters to mouth (Yaak River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yellowstone - Lower Bighorn	Middle Yellowstone	10070007	MT43Q002_010	FLY CREEK, Crow Indian Reservation boundary to mouth (Yellowstone River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L
Yellowstone - Lower Bighorn	Middle Yellowstone	10070007	MT43Q002_010	FLY CREEK, Crow Indian Reservation boundary to mouth (Yellowstone River)	Oxygen, Dissolved	2006	Scheduled	L
Yellowstone - Lower Bighorn	Middle Yellowstone	10070007	MT43Q002_010	FLY CREEK, Crow Indian Reservation boundary to mouth (Yellowstone River)	Total Kjeldahl Nitrogen (TKN)	2006	Scheduled	L
Yellowstone - Lower Bighorn	Middle Yellowstone	10070008	MT43E001_010	PRYOR CREEK, Interstate 90 bridge to mouth (Yellowstone River)	Benthic-Macroinvertebrate Bioassessments	2006	Scheduled	L
Yellowstone - Lower Bighorn	Middle Yellowstone	10070008	MT43E001_011	PRYOR CREEK, Crow Reservation Boundary to Interstate 90 bridge	Sedimentation/Siltation	1990	Scheduled	M
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	Lead	1996	Scheduled	M
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R001_010	BIGHORN RIVER, Crow Indian Res. Boundary to mouth (Yellowstone River)	Mercury	1996	Scheduled	M
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	Iron	1990	Scheduled	M
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	Phosphorus (Total)	1990	Scheduled	M
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	Sedimentation/Siltation	1990	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Yellowstone - Lower Bighorn	Middle Yellowstone	10080015	MT43R002_010	TULLOCK CREEK, Crow Indian Reservation Boundary to mouth (Bighorn River)	Total Kjeldahl Nitrogen (TKN)	1990	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_012	OTTER CREEK, headwaters to 2 mi downstream of Highway 191 bridge	Sedimentation/Siltation	1996	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Arsenic	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Cadmium	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Copper	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Iron	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Lead	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Manganese	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Nickel	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Sedimentation/Siltation	1992	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Selenium	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_022	BIG TIMBER CREEK, headwaters downstream to Swamp Creek	Solids (Suspended/Bedload)	1992	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070002	MT43B004_042	UPPER DEER CREEK, headwaters to Cartwright Gulch	Solids (Suspended/Bedload)	1996	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_010	DUCK CREEK, headwaters to mouth (Yellowstone River)	Sedimentation/Siltation	1996	Scheduled	M
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_022	CANYON CREEK, headwaters to highway 532	Oxygen, Dissolved	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_022	CANYON CREEK, headwaters to highway 532	Sedimentation/Siltation	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	Benthic-Macroinvertebrate Bioassessments	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	Oxygen, Dissolved	2006	Scheduled	L
Yellowstone - Sweet Grass	Upper Yellowstone	10070004	MT43F002_040	VALLEY CREEK, headwaters to mouth (Yellowstone River)	Sedimentation/Siltation	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Copper	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Lead	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	pH	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Solids (Suspended/Bedload)	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Total Dissolved Solids	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100001	MT42K001_010	YELLOWSTONE RIVER, the Cartersville Diversion Dam to Powder River	Zinc	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Chromium (total)	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Copper	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Lead	1992	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Nitrogen (Total)	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	pH	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Phosphorus (Total)	1990	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Sedimentation/Siltation	1988	Scheduled	M
Yellowstone River	Lower Yellowstone	10100004	MT42M001_011	YELLOWSTONE RIVER, Lower Yellowstone Diversion Dam to North Dakota border	Total Dissolved Solids	1988	Scheduled	M
Yellowstone River	Middle Yellowstone	10070007	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	Arsenic	2008	Scheduled	L
Yellowstone River	Middle Yellowstone	10070007	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	Benthic-Macroinvertebrate Bioassessments	2008	Scheduled	L
Yellowstone River	Middle Yellowstone	10070007	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	Dissolved oxygen saturation	2008	Scheduled	L
Yellowstone River	Middle Yellowstone	10070007	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	Nutrient/Eutrophication Biological Indicators	2008	Scheduled	L
Yellowstone River	Middle Yellowstone	10070007	MT43F001_010	YELLOWSTONE RIVER, City of Billings PWS to Huntley Diversion Dam	Solids (Suspended/Bedload)	2008	Scheduled	L
Yellowstone River	Middle Yellowstone	10070007	MT43Q001_011	YELLOWSTONE RIVER, Huntley Diversion Dam to mouth (Big Horn River)	Ammonia (Un-ionized)	1996	Scheduled	M

## Appendix B: Waters in need of TMDLs [303(d) list] and TMDL Priority Schedule

TMDL Planning Area	Watershed	HUC	ID305B	WaterbodyName/Location	Pollutant	Cycle First Listed	TMDL Status	TMDL Priority (2010-2012)
Yellowstone River	Middle Yellowstone	10070007	MT43Q001_011	YELLOWSTONE RIVER, Huntley Diversion Dam to mouth (Big Horn River)	Sedimentation/Siltation	1988	Scheduled	M
Yellowstone River	Middle Yellowstone	10070007	MT43Q001_011	YELLOWSTONE RIVER, Huntley Diversion Dam to mouth (Big Horn River)	Total Dissolved Solids	1988	Scheduled	M
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Ammonia (Total)	1990	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Arsenic	1992	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Copper	1992	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Lead	1992	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_010	YELLOWSTONE RIVER, Yellowstone Park Boundary to Reese Creek	Sedimentation/Siltation	1990	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	Ammonia (Un-ionized)	2006	Scheduled	L
Yellowstone River	Upper Yellowstone	10070001	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	Arsenic	1992	Scheduled	M
Yellowstone River	Upper Yellowstone	10070001	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	Copper	1992	Scheduled	M
Yellowstone River	Upper Yellowstone	10070001	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	Nitrate/Nitrite (Nitrite + Nitrate as N)	1988	Scheduled	M
Yellowstone River	Upper Yellowstone	10070001	MT43B001_011	YELLOWSTONE RIVER, Montana State border to Yellowstone Park Boundary	Sedimentation/Siltation	1988	Scheduled	M
Yellowstone River	Upper Yellowstone	10070004	MT43F001_011	YELLOWSTONE RIVER, City of Laurel PWS to City of Billings PWS	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	Scheduled	L

## Appendix C: Waters with Use Support Assessments during the 2010 Reporting Cycle

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location
Beaver	Milk	10050014	MT40M002_020	LARB CREEK, headwaters to mouth (Beaver Creek)
Judith - Arrow	Middle Missouri	10040102	MT41R001_020	ARROW CREEK, Surprise Creek to mouth (Missouri River)
Lower Milk	Milk	10050012	MT40O002_010	CHERRY CREEK, headwaters to mouth (Milk River)
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)
Lower Musselshell	Musselshell	10040205	MT40C004_020	LODGEPOLE CREEK, North and Middle Fork Lodgepole Creeks to mouth (Musselshell River)
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)
Middle Milk and Tributaries	Milk	10050010	MT40J005_020	COTTONWOOD CREEK, Black Coulee to mouth (Milk River)

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_180	SCUDDER CREEK, headwaters to mouth (Grasshopper Creek), T6S R12W S19	Total Kjehldahl Nitrogen (TKN)	Flaws in original listing	6/30/2010
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_070	BUCK CREEK, headwaters to mouth (West Fork Bitterroot), T1N R22W S36	Sedimentation/Siltation	EPA approval of TMDL (4A)	4/12/2006
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Copper	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Iron	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Lead	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Copper	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Iron	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Lead	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Copper	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Iron	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Lead	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Copper	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Iron	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Lead	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Copper	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Iron	EPA approval of TMDL (4A)	9/11/2009
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Lead	EPA approval of TMDL (4A)	9/11/2009
Flathead - Stillwater	Flathead	17010210	MT76P001_010	STILLWATER RIVER, Logan Creek to mouth	Cause Unknown	Flaws in original listing	6/30/2010
Flatwillow - Box Elder	Musselshell	10040203	MT40B001_022	FLATWILLOW CREEK, Highway 87 bridge to mouth (Musselshell River)	Nitrates	Flaws in original listing	6/30/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Nitrogen (Total)	EPA approval of TMDL (4A)	9/27/2006
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Temperature, water	EPA approval of TMDL (4A)	9/27/2006
Landusky	Middle Missouri	10040104	MT40E002_100	MILL GULCH, headwaters to mouth (Rock Creek)	Nitrogen, Nitrate	Flaws in original listing	6/30/2010
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Temperature, water	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Cadmium	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Copper	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Lead	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Zinc	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Temperature, water	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Total Kjeldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_090	BIRCH CREEK, headwaters to National Forest Boundary	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_100	BIRCH CREEK, National Forest Boundary to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Copper	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Nitrogen (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Phosphorus (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Copper	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Lead	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Mercury	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Nitrogen (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Phosphorus (Total)	EPA approval of TMDL (4A)	9/3/2009
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Iron	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Temperature, water	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_020	WEST FORK ASHBY CREEK, headwaters to mouth (East Fork Ashby Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_032	ELK CREEK, Stinkwater Creek to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_032	ELK CREEK, Stinkwater Creek to mouth (Blackfoot River)	Temperature, water	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_040	KENO CREEK, headwaters to mouth (Elk Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_050	EAST FORK ASHBY CREEK	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_060	CAMAS CREEK, 1 mile above mouth to mouth (Union Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_070	BELMONT CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	12/23/2009
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_070	REESE CREEK, headwaters to mouth (Smith Creek)	Phosphate	Flaws in original listing	6/30/2010
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_129	HYALITE CREEK, headwaters to the top of Hyalite Reservoir, T4S R6E S23	Chlorophyll-a	Flaws in original listing	2/7/2008
Lower Gallatin	Upper Missouri Tribs.	10020008	MT41H003_130	HYALITE CREEK, Hyalite Reservoir to the Bozeman water supply diversion ditch, T3S R5E S23	Chlorophyll-a	Flaws in original listing	2/7/2008
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_150	CHARCOAL CREEK, headwaters to mouth (Pony Creek)	Nitrogen (Total)	Flaws in original listing	6/30/2010
Lower Jefferson	Upper Missouri Tribs.	10020005	MT41G002_150	CHARCOAL CREEK, headwaters to mouth (Pony Creek)	Phosphorus (Total)	Flaws in original listing	6/30/2010
Lower Milk	Milk	10050012	MT40O002_010	CHERRY CREEK, headwaters to mouth (Milk River)	Iron	State Determines water quality standard is being met	6/22/2010
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Cadmium	State Determines water quality standard is being met	6/22/2010
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Copper	State Determines water quality standard is being met	6/22/2010
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Iron	State Determines water quality standard is being met	6/22/2010
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Lead	State Determines water quality standard is being met	6/22/2010
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Zinc	State Determines water quality standard is being met	6/22/2010
Lower Missouri	Lower Missouri	10060005	MT40S004_010	CHARLIE CREEK, East and Middle Charlie Creek to mouth (Missouri River)	Total Dissolved Solids	Flaws in original listing	6/30/2010
Lower Musselshell	Musselshell	10040205	MT40C004_020	LODGEPOLE CREEK, North and Middle Fork Lodgepole Creeks to mouth (Musselshell River)	Iron	State Determines water quality standard is being met	6/22/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Lower Yellowstone	Lower Yellowstone	1010004	MT42M002_051	FOX CREEK, headwaters to mouth (Yellowstone River), T22N R59E S19	Excess Algal Growth	Impairment due to non-pollutant (4C)	1/25/2008
Lower Yellowstone	Lower Yellowstone	1010004	MT42M002_052	NORTH FORK FOX CREEK, headwaters to mouth (Fox Creek), T22N R58E S21	Excess Algal Growth	Impairment due to non-pollutant (4C)	1/25/2008
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Lead	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Temperature, water	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_030	DELANO CREEK, headwaters to mouth (Jerry Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_040	DEEP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Turbidity	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	1002004	MT41D003_090	SIXMILE CREEK, headwaters to mouth (California Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_110	SEVENMILE CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_130	CORRAL CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_160	FISHTRAP CREEK, confluence of West & Middle Forks to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Cadmium	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Lead	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_210	PATTENGAIL CREEK, headwaters to mouth (Wise River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Arsenic	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Cadmium	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Copper	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Lead	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Zinc	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_230	GOLD CREEK, headwaters to mouth (Wise River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	Arsenic	State Determines water quality standard is being met	6/22/2010
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/3/2009
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Total Kjeldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_060	WARD CREEK, headwaters to Browns Lake	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_070	WARREN CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_090	ROCK CREEK, headwaters to mouth (North Fork Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_100	MONTURE CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_020	RICHMOND CREEK, headwaters to mouth (Lake Alva)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_030	DEER CREEK, headwaters to mouth (Seeley Lake)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_060	BLANCHARD CREEK, North Fork to mouth (Clearwater River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Missouri River	Missouri-Sun-Smith	10030101	MT41I007_040	HAUSER LAKE	Endosulfan	Flaws in original listing	6/30/2010
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_011	MISSOURI RIVER, Sun River to Rainbow Dam	Pentachlorobenzene	Flaws in original listing	6/30/2010
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_013	MISSOURI RIVER, Rainbow Dam to Morony Dam	Pentachlorobenzene	Flaws in original listing	6/30/2010
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Copper	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Iron	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Lead	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Total Kjeldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Total Kjeldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_021	JEFFERSON CREEK, headwaters to 1 mile above confluence with Madison Gulch	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Aluminum	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Iron	EPA approval of TMDL (4A)	9/22/2008

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2010
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Nitrate/Nitrite (Nitrite + Nitrate as N)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	9/22/2008

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_071	WASHINGTON CREEK, headwaters to Cow Gulch	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_072	WASHINGTON CREEK, Cow Gulch to mouth (Nevada Creek)	Iron	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_072	WASHINGTON CREEK, Cow Gulch to mouth (Nevada Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Nitrate/Nitrite (Nitrite + Nitrate as N)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_100	NEVADA SPRING CREEK, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Nitrate/Nitrite (Nitrite + Nitrate as N)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Temperature, water	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F003_130	BUFFALO GULCH, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Nitrogen (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Oxygen, Dissolved	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Phosphorus (Total)	EPA approval of TMDL (4A)	9/22/2008
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Total Kjehldahl Nitrogen (TKN)	EPA approval of TMDL (4A)	9/22/2008
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_010	NORTH FORK BIG HOLE RIVER, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_020	MUSSIGBROD CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_030	JOHNSON CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_060	TIE CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth (North Fork Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_090	JOSEPH CREEK, headwaters to mouth (Trail Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_100	RUBY CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Prospect Creek	Lower Clark Fork	17010213	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	1/21/2009
Prospect Creek	Lower Clark Fork	17010213	MT76N003_022	COX GULCH headwaters to mouth (Prospect Creek)	Antimony	EPA approval of TMDL (4A)	12/27/2006
Prospect Creek	Lower Clark Fork	17010213	MT76N003_050	CLEAR CREEK, headwaters to mouth (Prospect Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	1/21/2009
Prospect Creek	Lower Clark Fork	17010213	MT76N003_070	DRY CREEK, headwaters (confluence of East and West Forks) to mouth (Prospect Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	1/21/2009

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Redwater	Middle Missouri	10040104	MT40E003_020	NELSON CREEK, headwaters to mouth (Big Dry Creek arm of Fort Peck Res)	Nitrogen, Nitrate	Flaws in original listing	6/30/2010
Shields	Upper Yellowstone	10070003	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Shields	Upper Yellowstone	10070003	MT43A001_012	SHIELDS RIVER, headwaters to Cottonwood Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Shields	Upper Yellowstone	10070003	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Shields	Upper Yellowstone	10070003	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	Solids (Suspended/Bedload)	EPA approval of TMDL (4A)	6/30/2009
Smith	Missouri-Sun-Smith	10030103	MT41J002_081	NEWLAN CREEK, Newlan Reservoir to mouth (Smith River)	Fecal Coliform	Flaws in original listing	6/30/2010
St. Regis	Lower Clark Fork	17010204	MT76M003_010	ST. REGIS RIVER, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_010	ST. REGIS RIVER, headwaters to mouth (Clark Fork River)	Temperature, water	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	Temperature, water	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	Temperature, water	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_070	LITTLE JOE CREEK, North Fork to mouth (St. Regis River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
St. Regis	Lower Clark Fork	17010204	MT76M003_080	NORTH FORK LITTLE JOE CREEK, headwaters to mouth (Little Joe Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	Nitrogen (Total)	EPA approval of TMDL (4A)	8/31/2004
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	Phosphorus (Total)	EPA approval of TMDL (4A)	8/31/2004
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Salinity	EPA approval of TMDL (4A)	11/26/2003
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Sulfates	EPA approval of TMDL (4A)	11/26/2003
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Total Dissolved Solids	EPA approval of TMDL (4A)	11/26/2003
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D001_030	BIG HOLE RIVER, headwaters to Pintlar Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D001_030	BIG HOLE RIVER, headwaters to Pintlar Creek	Temperature, water	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_160	PINE CREEK, headwaters to mouth (Andrus Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Nitrogen (Total)	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Phosphorus (Total)	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_220	DOOLITTLE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	6/30/2009
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_030	CABLE CREEK, headwaters to mouth (Warm Springs Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_040	STORM LAKE CREEK, headwaters to mouth (Un-Named canal/Ditch)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Arsenic	EPA approval of TMDL (4A)	3/4/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Cadmium	EPA approval of TMDL (4A)	3/4/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_100	DEMPSEY CREEK, the national forest boundary to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_110	TIN CUP JOE CREEK, Tin Cup Lake to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Iron	EPA approval of TMDL (4A)	3/4/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Temperature, water	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Cyanide	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Selenium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_031	BEEFSTRAIGHT CREEK, Minnesota Gulch to mouth (German Gulch)	Cyanide	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Arsenic	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Cadmium	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Copper	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Zinc	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	Turbidity	EPA approval of TMDL (4A)	3/4/2010

## Appendix D: Impairment Causes De-Listed from the 2008 303(d) List (Category 5)

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Delisting Reason	Delisting Date
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_091	GOLD CREEK, headwaters to National Forest boundary	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	Iron	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	Lead	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_112	WARM SPRINGS CREEK, from line between R9W and R10W to mouth (Clark Fork River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	3/4/2010
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Total Suspended Solids (TSS)	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_030	HELLS CANYON CREEK, headwaters to mouth (Jefferson River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_100	FISH CREEK, headwaters to mouth (Jefferson Canal), T1S R5W S12	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_110	CHERRY CREEK, headwaters to mouth (Jefferson River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jefferson Slough)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/22/2009
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_141	LITTLE WHITETAIL CREEK, headwater to mouth (Whitetail Creek)	Chlorophyll-a	Impairment due to non-pollutant (4C)	1/25/2008
Yaak	Kootenai	17010103	MT76B002_010	SEVENTEEN MILE CREEK, headwaters to mouth (Yaak River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
Yaak	Kootenai	17010103	MT76B002_020	LAP CREEK, headwaters to mouth (Yaak River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008
Yaak	Kootenai	17010103	MT76B002_080	SOUTH FORK YAAK RIVER, headwaters to mouth (Yaak River)	Sedimentation/Siltation	EPA approval of TMDL (4A)	9/10/2008

## Appendix E: Beneficial Use Support Changes during the 2010 Reporting Cycle

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Beneficial Use	2008	2010
Beaverhead	Upper Missouri Tribs.	10020002	MT41B002_090	RATTLESNAKE CREEK, from the Dillon PWS off-channel well T7S R10W S11 to the mouth (Van Camp Slough)	Primary Contact Recreation	F	P
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_070	BUCK CREEK, headwaters to mouth (West Fork Bitterroot), T1N R22W S36	Aquatic Life	F	P
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_070	BUCK CREEK, headwaters to mouth (West Fork Bitterroot), T1N R22W S36	Cold Water Fishery	F	P
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_141	EAST BOULDER RIVER, Elk Creek to mouth (Boulder River)	Drinking Water	X	F
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_142	EAST BOULDER RIVER, NF boundary to Elk Creek	Drinking Water	F	I
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Aquatic Life	X	N
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Cold Water Fishery	X	N
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	Agricultural	X	F
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	Drinking Water	X	F
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	Industrial	X	F
Clark Fork - Drummond	Upper Clark Fork	17010202	MT76E004_041	HARVEY CREEK, headwaters to Grouse Gulch	Primary Contact Recreation	X	F
Clarks Fork Yellowstone	Upper Yellowstone	10070006	MT43D001_011	CLARKS FORK YELLOWSTONE RIVER, Bridger Creek to mouth (Yellowstone River)	Drinking Water	X	I
Flathead - Stillwater	Flathead	17010208	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	Drinking Water	F	I
Flathead - Stillwater	Flathead	17010208	MT76O002_050	FISH CREEK, headwaters to mouth (Ashley Lake)	Industrial	X	F
Flathead - Stillwater	Flathead	17010208	MT76O004_020	LAKE MARY RONAN	Aquatic Life	N	T
Flathead - Stillwater	Flathead	17010208	MT76O004_020	LAKE MARY RONAN	Cold Water Fishery	N	T
Kootenai	Kootenai	17010101	MT76D002_090	QUARTZ CREEK, headwaters to confluence with the Kootenai River	Drinking Water	X	I
Kootenai	Kootenai	17010101	MT76D002_090	QUARTZ CREEK, headwaters to confluence with the Kootenai River	Primary Contact Recreation	X	I
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	Aquatic Life	X	N
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	Cold Water Fishery	X	N
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_040	KENO CREEK, headwaters to mouth (Elk Creek)	Aquatic Life	X	N
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_040	KENO CREEK, headwaters to mouth (Elk Creek)	Cold Water Fishery	X	N
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Agricultural	X	I
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Aquatic Life	X	I
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Cold Water Fishery	X	I

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

## Appendix E: Beneficial Use Support Changes during the 2010 Reporting Cycle

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Beneficial Use	2008	2010
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Drinking Water	X	I
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Industrial	X	I
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_080	DAY GULCH, headwaters to mouth (Elk Creek), T12N R13W S16	Primary Contact Recreation	X	I
Lower Milk	Milk	10050012	MT40O002_010	CHERRY CREEK, headwaters to mouth (Milk River)	Aquatic Life	P	F
Lower Milk	Milk	10050012	MT40O002_010	CHERRY CREEK, headwaters to mouth (Milk River)	Warm Water Fishery	P	F
Lower Milk	Milk	10050012	MT40O002_040	BEAVER CREEK, confluence of Little Beaver Creek and South Fork Beaver Creek to mouth (Willow Creek)	Drinking Water	N	F
Lower Musselshell	Musselshell	10040205	MT40C004_020	LOGEPOLE CREEK, North and Middle Fork Lodgepole Creeks to mouth (Musselshell River)	Aquatic Life	P	F
Lower Musselshell	Musselshell	10040205	MT40C004_020	LOGEPOLE CREEK, North and Middle Fork Lodgepole Creeks to mouth (Musselshell River)	Warm Water Fishery	P	F
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Aquatic Life	X	N
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Cold Water Fishery	X	N
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	Drinking Water	N	F
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	Aquatic Life	F	P
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	Cold Water Fishery	F	P
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Aquatic Life	F	P
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Cold Water Fishery	F	P
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Primary Contact Recreation	F	P
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	Agricultural	X	F
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	Aquatic Life	X	F
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	Drinking Water	X	F
Middle Clark Fork Tributaries	Lower Clark Fork	17010204	MT76M002_120	RATTLESNAKE CREEK, headwaters to mouth (Clark Fork River)	Industrial	X	F
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Aquatic Life	F	P
Middle Yellowstone Tributaries	Lower Yellowstone	10100001	MT42K002_080	NORTH FORK SUNDAY CREEK, Custer/Rosebud County border to mouth (Sunday Creek)	Warm Water Fishery	F	P
Missouri River	Middle Missouri	10040104	MT40E004_010	FORT PECK RESERVOIR	Aquatic Life	X	I
Missouri River	Middle Missouri	10040104	MT40E004_010	FORT PECK RESERVOIR	Cold Water Fishery	X	I
Missouri River	Missouri-Sun-Smith	10030102	MT41Q001_014	MISSOURI RIVER, Morony Dam to Marias River	Warm Water Fishery	X	N

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## Appendix E: Beneficial Use Support Changes during the 2010 Reporting Cycle

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Beneficial Use	2008	2010
Nevada Creek	Upper Clark Fork	17010203	MT76F003_071	WASHINGTON CREEK, headwaters to Cow Gulch	Aquatic Life	X	N
Nevada Creek	Upper Clark Fork	17010203	MT76F003_071	WASHINGTON CREEK, headwaters to Cow Gulch	Cold Water Fishery	X	N
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Aquatic Life	X	N
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Cold Water Fishery	X	N
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_011	WARM SPRINGS CREEK, headwaters to Meyers Dam, T5N R12W S25	Drinking Water	X	I
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Aquatic Life	X	N
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Cold Water Fishery	X	N
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	Aquatic Life	X	N
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	Cold Water Fishery	X	N
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Drinking Water	F	P
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Drinking Water	F	P
Yaak	Kootenai	17010103	MT76B002_060	SPREAD CREEK, headwaters to mouth (Yaak River)	Aquatic Life	F	P
Yaak	Kootenai	17010103	MT76B002_060	SPREAD CREEK, headwaters to mouth (Yaak River)	Cold Water Fishery	F	P

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Big Creek (Columbia)	Flathead	17010206	MT76Q002_050	BIG CREEK, tributary to North Fork of the Flathead River	Sedimentation/Siltation	1992	6/9/2003	The TMDL document was submitted to EPA in March 2003. The document, Watershed Restoration Plan for Big Creek, North Fork of the Flathead River, approved by EPA on June 9, 2003. The document addressed TMDLs for sediment for Big Creek. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BigCreekTMDLCBFinal.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BigCreekTMDLCBFinal.pdf</a>
Big Sandy - Sage	Milk	10050005	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	Salinity	1988	4/23/2002	A surrogate TMDL was completed for salinity.
Big Sandy - Sage	Milk	10050005	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	Sulfates	1988	4/23/2002	A surrogate TMDL was completed for sulfates.
Big Sandy - Sage	Milk	10050005	MT40H001_010	BIG SANDY CREEK, Lonesome Lake Coulee to mouth (Milk River)	Total Dissolved Solids	1988	4/23/2002	The TMDL was completed for total dissolved solids.
Big Sandy - Sage	Milk	10050006	MT40G001_011	SAGE CREEK, Laird Creek to the confluence of Russell Creek, T36N R9E S32	Salinity	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Sandy - Sage	Milk	10050006	MT40G001_011	SAGE CREEK, Laird Creek to the confluence of Russell Creek, T36N R9E S32	Sulfates	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Sandy - Sage	Milk	10050006	MT40G001_011	SAGE CREEK, Laird Creek to the confluence of Russell Creek, T36N R9E S32	Total Dissolved Solids	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Sandy - Sage	Milk	10050006	MT40G001_012	SAGE CREEK, the section line between 1 & 12 T36N R6E to the mouth	Salinity	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Sandy - Sage	Milk	10050006	MT40G001_012	SAGE CREEK, the section line between 1 & 12 T36N R6E to the mouth	Sulfates	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Sandy - Sage	Milk	10050006	MT40G001_012	SAGE CREEK, the section line between 1 & 12 T36N R6E to the mouth	Total Dissolved Solids	1988	4/23/2002	The TMDL document was submitted to EPA on January 16, 2002 and approved on April 23, 2002. The document, Salinity TMDL for Sage Creek, Montana addressed TMDLs for salinity, total dissolved solids, and chlorides for Sage Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/SageCrk.pdf</a> .
Big Springs	Middle Missouri	10040103	MT41S004_010	BIG SPRING CREEK, East Fork Big Spring Creek to Casino Creek	Polychlorinated biphenyls	2004	9/29/2005	The TMDL was completed for polychlorinated biphenyls.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Big Springs	Middle Missouri	10040103	MT41S004_020	BIG SPRING CREEK, East Fork to mouth (Judith River)	Nitrogen (Total)	2008	9/29/2005	The TMDL was completed for nitrogen (total). Originally listed in 1996 for nutrients.
Big Springs	Middle Missouri	10040103	MT41S004_020	BIG SPRING CREEK, East Fork to mouth (Judith River)	Phosphorus (Total)	1996	9/29/2005	The TMDL was completed for phosphorus (total).
Big Springs	Middle Missouri	10040103	MT41S004_020	BIG SPRING CREEK, East Fork to mouth (Judith River)	Polychlorinated biphenyls	2000	9/29/2005	The TMDL was completed for polychlorinated biphenyls.
Big Springs	Middle Missouri	10040103	MT41S004_020	BIG SPRING CREEK, East Fork to mouth (Judith River)	Sedimentation/Siltation	1996	9/29/2005	The TMDL was completed for sedimentation/siltation.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary to mouth (Bitterroot River)	Sedimentation/Siltation	1992	4/12/2006	The TMDL was completed for sedimentation/siltation
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_010	EAST FORK BITTERROOT RIVER, Anaconda-Pintlar Wilderness boundary to mouth (Bitterroot River)	Temperature, water	2006	4/12/2006	The TMDL was completed for temperature, water.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_020	REIMEL CREEK, headwaters to mouth (East Fork Bitterroot River)	Sedimentation/Siltation	1992	4/12/2006	The TMDL was completed for sedimentation/siltation.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_070	LAIRD CREEK, headwaters to mouth (East Fork Bitterroot River), T2N R20 S35	Sedimentation/Siltation	1992	4/12/2006	The TMDL was completed for sedimentation/siltation.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H002_080	GILBERT CREEK, headwaters to mouth (Laird Creek), T1N R20W S10	Sedimentation/Siltation	1992	4/12/2006	The TMDL was completed for sedimentation/siltation.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_010	WEST FORK BITTERROOT RIVER, headwaters to mouth	Sedimentation/Siltation		4/12/2006	
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_010	WEST FORK BITTERROOT RIVER, headwaters to mouth	Temperature, water		4/12/2006	
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_020	NEZ PERCE FORK BITTERROOT RIVER, headwaters to mouth (West Fork Bitterroot River)	Temperature, water	1996	4/12/2006	The TMDL was completed for temperature, water.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_040	HUGHES CREEK, headwaters to the mouth (West Fork Bitterroot River)	Sedimentation/Siltation	1988	4/12/2006	The TMDL was completed for sedimentation/siltation.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_040	HUGHES CREEK, headwaters to the mouth (West Fork Bitterroot River)	Temperature, water	1990	4/12/2006	The TMDL was completed for temperature, water.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_050	OVERWHICH CREEK, headwaters to mouth (West Fork Bitterroot River)	Temperature, water	1992	4/12/2006	The TMDL was completed for temperature, water.
Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_060	DITCH CREEK, headwaters to mouth (West Fork Bitterroot River)	Sedimentation/Siltation	1992	4/12/2006	The TMDL was completed for sedimentation/siltation.

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Bitterroot Headwaters	Upper Clark Fork	17010205	MT76H003_070	BUCK CREEK, headwaters to mouth (West Fork Bitterroot), T1N R22W S36	Sedimentation/Siltation	2010	4/12/2006	
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Cadmium	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Copper	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Iron	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Lead	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Manganese	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_010	BLACKFOOT RIVER, headwaters to Landers Fork	Zinc	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .

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TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	Aluminum	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, iron, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	Cadmium	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, iron, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	Iron	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, iron, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	Sedimentation/Siltation	1996	5/19/2004	MTDEQ submitted the TMDL documented to EPA on April 9, 2004. The document, Blackfoot Headwaters Planning Area Water Quality and Habitat Restoration Plan and TMDL for Sediment, was approved by EPA on May 19, 2004. The document developed a TMDL for sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F001_020	BLACKFOOT RIVER, Landers Fork to Nevada Creek	Zinc	1996	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, iron, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_020	WILLOW CREEK, Sandbar Creek to mouth (Blackfoot River), T15N R7W S34	Sedimentation/Siltation	2002	5/19/2004	MTDEQ submitted the TMDL documented to EPA on April 9, 2004. The document, Blackfoot Headwaters Planning Area Water Quality and Habitat Restoration Plan and TMDL for Sediment, was approved by EPA on May 19, 2004. The document developed a TMDL for sediment, fish habitat, other habitat alterations, and riparian habitat alterations for Willow Creek. The document can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	Cadmium	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper and lead for Poorman's Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .

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TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	Copper	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper and lead for Poorman's Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	Lead	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper and lead for Poorman's Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_030	POORMAN CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	1988	5/19/2004	MTDEQ submitted the TMDL documented to EPA on April 9, 2004. The document, Blackfoot Headwaters Planning Area Water Quality and Habitat Restoration Plan and TMDL for Sediment, was approved by EPA on May 19, 2004. The document developed a TMDL for sediment and other habitat alteration for Poorman's Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSEd_Master.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSEd_Master.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Cadmium	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Copper	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Iron	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .

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TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Lead	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Manganese	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_040	BEARTRAP CREEK, Mike Horse Creek to mouth (Blackfoot River)	Zinc	1988	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: cadmium, copper, iron, lead, manganese, and zinc for Beartrap Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	Aluminum	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, copper, iron, and manganese for Sandbar Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	Copper	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, copper, iron, and manganese for Sandbar Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	Iron	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, copper, iron, and manganese for Sandbar Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .

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TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_060	SANDBAR CREEK, forks to mouth (Willow Creek)	Manganese	1990	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, copper, iron, and manganese for Sandbar Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F002_070	ARRASTRA CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	1992	5/19/2004	MTDEQ submitted the TMDL documented to EPA on April 9, 2004. The document, Blackfoot Headwaters Planning Area Water Quality and Habitat Restoration Plan and TMDL for Sediment, was approved by EPA on May 19, 2004. The document developed a TMDL for sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BlackfootHeadwaters/Final_BFHSed_Master.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Aluminum	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Cadmium	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Copper	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Iron	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Lead	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Manganese	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Blackfoot Headwaters	Upper Clark Fork	17010203	MT76F003_010	MIKE HORSE CREEK, headwaters to mouth (Beartrap Creek)	Zinc	2006	10/10/2003	MTDEQ submitted the TMDL documented to EPA in June 2003. The document, Water Quality Restoration Plan for Metals in the Blackfoot Headwaters TMDL Planning Area, was approved by EPA on October 10, 2003. The document addressed TMDLs for: aluminum, cadmium, copper, iron, lead, manganese and zinc for Mike Horse Creek and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/BlackfootHdwtrsRestorationPlan.pdf</a> .
Bobtail Creek	Kootenai	17010101	MT76D002_080	BOBTAIL CREEK, headwaters to mouth (Kootenai River)	Sedimentation/Siltation	2000	4/27/2005	MTDEQ submitted the TMDL documented to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads (TMDL) for the Bobtail Creek Watershed, was approved by EPA on April 27, 2005. The document addressed TMDLs for: sediment and turbidity and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BoBtailFinalTMDL/FinalBoBtailCoverDoc.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BoBtailFinalTMDL/FinalBoBtailCoverDoc.pdf</a>
Bobtail Creek	Kootenai	17010101	MT76D002_080	BOBTAIL CREEK, headwaters to mouth (Kootenai River)	Turbidity	2000	4/27/2005	MTDEQ submitted the TMDL documented to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads (TMDL) for the Bobtail Creek Watershed, was approved by EPA on April 27, 2005. The document addressed TMDLs for: sediment and turbidity and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/BoBtailFinalTMDL/FinalBoBtailCoverDoc.pdf">http://www.deq.mt.gov/wqinfo/TMDL/BoBtailFinalTMDL/FinalBoBtailCoverDoc.pdf</a>
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Copper	2004	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Iron	2004	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_131	BOULDER RIVER, five miles upstream of mouth (Yellowstone River)	Lead	2004	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Copper	2010	9/11/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Iron	2010	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_132	BOULDER RIVER, Natural Bridge and Falls in T3S R12E S26 to 5 miles above the mouth, T1N R14E S34	Lead	2010	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Copper	2010	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Iron	2010	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_133	BOULDER RIVER, confluence of the East Fork boulder River to Natural bridge and Falls	Lead	2010	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Copper	2006	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Iron	2010	9/11/2009	Changed from un-assessed to assessed for list/delist.
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B004_134	BOULDER RIVER, headwaters to confluence of East Fork Boulder River	Lead	2006	9/11/2009	
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Copper	2010	9/11/2009	Changed from un-assessed to assessed for list/delist.
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Iron	2010	9/11/2009	Changed from un-assessed to assessed for list/delist.
Boulder - Big Timber	Upper Yellowstone	10070002	MT43B005_010	BASIN CREEK, headwater to mouth (Boulder River)	Lead	2010	9/11/2009	Changed from un-assessed to assessed for list/delist.
Careless Creek	Musselshell	10040201	MT40A002_050	CARELESS CREEK, confluence with Deadmans Basin Canal to mouth (Musselshell River)	Sedimentation/Siltation	1988	12/21/2001	MTDEQ submitted the TMDL documented to EPA in February 2001. The document, Careless Creek Water Quality Restoration Plan, was approved by EPA on December 21, 2001. The document addressed TMDLs for: sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/Careless_Creek_FINAL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/Careless_Creek_FINAL.pdf</a> .
Clark Fork River	Lower Clark Fork	17010204	MT76M001_010	CLARK FORK RIVER, the Flathead River to Fish Creek	Nitrogen (Total)	2000	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Lower Clark Fork	17010204	MT76M001_010	CLARK FORK RIVER, the Flathead River to Fish Creek	Phosphorus (Total)	2000	10/21/1998	The TMDL was completed for phosphorus (total).
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Chlorophyll-a	1988	10/21/1998	The TMDL was completed for Chlorophyll-a.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Nitrogen (Total)	1990	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Organic Enrichment (Sewage) Biological Indicators	1990	10/21/1998	This pollutant is linked to pollutant TMDLs (Nitrogen (Total) and Phosphorus (Total)).
Clark Fork River	Lower Clark Fork	17010204	MT76M001_020	CLARK FORK RIVER, Fish Creek to Rattlesnake Creek	Phosphorus (Total)	1990	10/21/1998	The TMDL was completed for phosphorus (total).
Clark Fork River	Lower Clark Fork	17010204	MT76M001_030	CLARK FORK RIVER, Rattlesnake Creek to Blackfoot River	Nutrient/Eutrophication Biological Indicators	2000	10/21/1998	This pollutant is linked to pollutant TMDLs (Nitrogen (Total) and Phosphorus (Total)).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Nitrogen (Total)	1996	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_010	CLARK FORK RIVER, Flint Creek to Little Blackfoot River	Phosphorus (Total)	1996	10/21/1998	The TMDL was completed for phosphorus (total).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Nitrogen (Total)	1990	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_030	CLARK FORK RIVER, the Little Blackfoot River to Cottonwood Creek	Phosphorus (Total)	1990	10/21/1998	The TMDL was completed for phosphorus (total).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Nitrogen (Total)	1990	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Upper Clark Fork	17010201	MT76G001_040	CLARK FORK RIVER, Cottonwood Creek to Warm Springs Creek	Phosphorus (Total)	1990	10/21/1998	The TMDL was completed for phosphorus (total).
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Nitrogen (Total)	1994	10/21/1998	The TMDL was completed for nitrogen (total).
Clark Fork River	Upper Clark Fork	17010202	MT76E001_010	CLARK FORK RIVER, Blackfoot River to Flint Creek	Phosphorus (Total)	1994	10/21/1998	The TMDL was completed for phosphorus (total).
Cooke City	Upper Yellowstone	10070001	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	Copper	1996	1/6/2003	The TMDL was completed for copper.
Cooke City	Upper Yellowstone	10070001	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	Iron	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6,2003. The document addressed TMDLs for: copper, iron, lead, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	Lead	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6,2003. The document addressed TMDLs for: copper, iron, lead, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070001	MT43B002_031	SODA BUTTE CREEK, McLaren Tailings to Montana Border	Manganese	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for: copper, iron, lead, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Aluminum	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Cadmium	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Copper	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Iron	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Lead	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Manganese	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070001	MT43B002_040	MILLER CREEK, headwaters to mouth (Soda Butte Creek)	Zinc	2006	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Miller Creek for: aluminum, copper, iron, lead, manganese and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070005	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	Copper	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Stillwater River for: copper, iron, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	Iron	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Stillwater River for: copper, iron, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	Manganese	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Stillwater River for: copper, iron, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	pH	2002	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Stillwater River for: copper, iron, and manganese and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> . Section 3.3.1.2 (page 3-11) states Because of the linkage between metals loading and acidic drainage, it is assumed that restoration activities undertaken to address high metal loads from mining impacts will also address conditions leading to low pH values from these same mining impacts. Therefore, the TMDL indirectly addresses pH via the metals load allocations.
Cooke City	Upper Yellowstone	10070005	MT43C001_010	STILLWATER RIVER, headwaters to Flood Creek	Sedimentation/Siltation	2002	1/6/2003	The TMDL was completed for sedimentation/siltation.
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Aluminum	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Cadmium	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Copper	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Iron	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Lead	1996	1/6/2003	
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Manganese	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	pH	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> . Section 3.3.1.2 (page 3-11) states Because of the linkage between metals loading and acidic drainage, it is assumed that restoration activities undertaken to address high metal loads from mining impacts will also address conditions leading to low pH values from these same mining impacts. Therefore, the TMDL indirectly addresses pH via the metals load allocations.
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Sedimentation/Siltation	2000	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070005	MT43C002_140	DAISY CREEK, headwaters to mouth (Stillwater River)	Zinc	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Daisy Creek for: aluminum, cadmium, copper, iron, lead, manganese, pH, zinc, and sediment and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	Cadmium	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	Copper	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	Lead	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	pH	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> . Section 3.3.1.2 (page 3-11) states Because of the linkage between metals loading and acidic drainage, it is assumed that restoration activities undertaken to address high metal loads from mining impacts will also address conditions leading to low pH values from these same mining impacts. Therefore, the TMDL indirectly addresses pH via the metals load allocations.
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	Silver	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D001_020	CLARKS FORK YELLOWSTONE RIVER, headwaters to Montana Border	Zinc	1992	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for the Clarks Fork of the Yellowstone River for: pH, cadmium, copper, iron, lead, silver, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Aluminum	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Cadmium	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Copper	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Iron	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Lead	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Manganese	1996	1/6/2003	MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	pH	1996	1/6/2003	<p>MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a>.</p> <p>Section 3.3.1.2 (page 3-11) states Because of the linkage between metals loading and acidic drainage, it is assumed that restoration activities undertaken to address high metal loads from mining impacts will also address conditions leading to low pH values from these same mining impacts. Therefore, the TMDL indirectly addresses pH via the metals load allocations.</p>
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Sedimentation/Siltation	2002	1/6/2003	<p>MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a>.</p>
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Silver	1996	1/6/2003	<p>MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a>.</p>
Cooke City	Upper Yellowstone	10070006	MT43D002_110	FISHER CREEK, headwaters to mouth (Clarks Fork Yellowstone River)	Zinc	1996	1/6/2003	<p>MTDEQ submitted the TMDL documented to EPA in September 2002. The document, Water Quality Restoration Plan for the Cooke City TMDL Planning Area, was approved by EPA on January 6, 2003. The document addressed TMDLs for Fisher Creek for: aluminum, pH, cadmium, copper, iron, manganese, lead, silver, sediment, and zinc and can be viewed on-line at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf">http://www.deq.mt.gov/wqinfo/TMDL/Cooke_City_files/FinalCCTMDL.pdf</a>.</p>
Dearborn	Missouri-Sun-Smith	10030102	MT41Q003_020	MIDDLE FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	Sedimentation/Siltation	1988	5/25/2005	<p>The document was submitted to EPA in February 2005. The document, Water Quality Assessments and TMDLs for the Dearborn Planning Area, was approved by EPA on May 25, 2005. The document addressed TMDLs for: sediment for the Middle Fork of the Dearborn and can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/DearbornRiver/Dearborn%20River%20TMDL%20FINALSection1_8.pdf">http://www.deq.mt.gov/wqinfo/TMDL/DearbornRiver/Dearborn%20River%20TMDL%20FINALSection1_8.pdf</a>. Nutrients were identified as a possibly impacting aquatic life; additional studies were recommended.</p>
Dearborn	Missouri-Sun-Smith	10030102	MT41Q003_030	SOUTH FORK DEARBORN RIVER, headwaters to mouth (Dearborn River)	Sedimentation/Siltation	2002	5/25/2005	The TMDL was completed for sedimentation/siltation.
Dearborn	Missouri-Sun-Smith	10030102	MT41Q003_040	FLAT CREEK, Henry Creek to mouth (Dearborn River)	Sedimentation/Siltation	1988	5/25/2005	The TMDL was completed for sedimentation/siltation.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Deep Creek	Missouri-Sun-Smith	10030101	MT41I002_070	DEEP CREEK, National Forest Boundary to mouth (Missouri River)	Sedimentation/Siltation	1988	10/16/1997	The document was submitted to EPA in March 1996. The document, Development of a TMDL to Reduce NonPoint Source Sediment Pollution in Deep Creek, Montana, approved by EPA on October 16, 1997. The document addressed TMDLs for sediment in Deep Creek and can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/DeepCrk.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/DeepCrk.pdf</a> .
Elk Creek	Lower Clark Fork	17010213	MT76N003_060	ELK CREEK, headwaters to mouth (Cabinet Gorge Reservoir)	Sedimentation/Siltation	1988	12/8/1998	The document was submitted to EPA in October 1998. The document, WC Level 2.5 Stream Survey Development Reach Health Assessment Management and Rehabilitation Recommendations, was approved by EPA on December 8, 1998. The document addressed TMDLs for sediment in Elk Creek and can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/ElkCreekSurvey.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/ElkCreekSurvey.pdf</a> .
Flathead Headwaters	Flathead	17010206	MT76Q002_080	COAL CREEK, South Fork to mouth (North Fork Flathead)	Sedimentation/Siltation	2006	5/24/2005	The TMDL document was submitted to EPA in December 31, 2004. The document, Water Quality Assessment and TMDLs for the Flathead River Headwaters Planning Area, Montana approved by EPA on May 25, 2005. The document addressed TMDLs for sediment for Coal Creek. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/FlatheadHeadwatersFinal/Flathead%20River%20Headwaters%20TMDL%20-%20Full%20Document%20Low-Res.pdf">http://www.deq.mt.gov/wqinfo/TMDL/FlatheadHeadwatersFinal/Flathead%20River%20Headwaters%20TMDL%20-%20Full%20Document%20Low-Res.pdf</a> .
Flathead Lake	Flathead	17010208	MT76O003_010	FLATHEAD LAKE	Nitrogen (Total)	1996	3/31/2002	The TMDL document was submitted to EPA in December 2001. The document, Nutrient Management Plan and Total Maximum Daily Load for Flathead Lake, Montana, approved by EPA on March 31, 2002. The document addressed TMDLs for nitrogen and phosphorus and indirectly addresses 303(d) listings for dissolved oxygen and excess algal growth, which result from excess nutrients. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/FlatheadDoc.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/FlatheadDoc.pdf</a> .
Flathead Lake	Flathead	17010208	MT76O003_010	FLATHEAD LAKE	Phosphorus (Total)	1996	3/31/2002	The TMDL document was submitted to EPA in December 2001. The document, Nutrient Management Plan and Total Maximum Daily Load for Flathead Lake, Montana, approved by EPA on March 31, 2002. The document addressed TMDLs for nitrogen and phosphorus and indirectly addresses 303(d) listings for dissolved oxygen and excess algal growth, which result from excess nutrients. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/FlatheadDoc.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/FlatheadDoc.pdf</a> .
Grave Creek	Kootenai	17010101	MT76D004_060	GRAVE CREEK, Foundation Creek to mouth (Fortine Creek)	Sedimentation/Siltation	1990	5/10/2005	The TMDL document was submitted to EPA in March 2005. The document, Grave Creek Watershed Water Quality and Habitat Restoration Plan and Sediment Total Maximum Daily Loads was approved by EPA on May 10, 2005. The document addressed TMDLs for sediment, fish habitat, other habitat alteration and siltation for Grave Creek. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/GraveCreekFinalTMDL/GraveFinalCantOC.pdf">http://www.deq.mt.gov/wqinfo/TMDL/GraveCreekFinalTMDL/GraveFinalCantOC.pdf</a> .
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Arsenic	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Cadmium	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Copper	1988	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Lead	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Nitrogen (Total)	2010	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Phosphorus (Total)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Sedimentation/Siltation	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_020	PRICKLY PEAR CREEK, Helena WWTP Discharge Ditch to Lake Helena	Zinc	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Arsenic	1988	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Cadmium	1988	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Copper	1988	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Lead	1988	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Nitrogen (Total)	2008	9/27/2006	The TMDL was completed for nitrogen (total). Originally listed in 2000 for nutrients.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Phosphorus (Total)	2008	9/27/2006	The TMDL was completed for phosphorus (total). Originally listed in 2000 for nutrients.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Sedimentation/Siltation	1988	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_030	PRICKLY PEAR CREEK, Highway 433 (Wylie Dr.) Crossing to Helena WWTP Discharge	Zinc	1988	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Arsenic	1988	9/27/2006	The TMDL was completed for arsenic.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Cadmium	1988	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Copper	1988	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Lead	1988	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Sedimentation/Siltation	2000	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Temperature, water	2010	9/27/2009	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_040	PRICKLY PEAR CREEK, Lump Gulch to County Road Wylie Drive	Zinc	1988	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Cadmium	2000	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Lead	2000	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Sedimentation/Siltation	1988	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_050	PRICKLY PEAR CREEK, Spring Creek to Lump Gulch	Zinc	2000	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	Lead	1992	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_060	PRICKLY PEAR CREEK, headwaters to Spring Creek	Total Suspended Solids (TSS)	2008	9/27/2006	The TMDL was completed for suspended solids.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	Cadmium	1992	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_070	GOLCONDA CREEK, headwaters to mouth (Prickly Pear Creek), T7N R3W S8	Lead	1992	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Arsenic	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Cadmium	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Copper	1988	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Lead	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Nitrogen (Total)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Phosphorus (Total)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Total Suspended Solids (TSS)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_080	SPRING CREEK, Corbin Creek to mouth (Prickly Pear Creek)	Zinc	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Arsenic	1988	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Cadmium	1988	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Copper	1988	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Lead	1988	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Solids (Suspended/Bedload)	1988	9/27/2006	The TMDL was completed for suspended solids.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_090	CORBIN CREEK, headwaters to mouth (Spring Creek)	Zinc	1988	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Arsenic	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Cadmium	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Lead	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Sedimentation/Siltation	1990	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_100	MIDDLE FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek-Prickly Pear Creek)	Zinc	1988	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	Arsenic	1990	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	Cadmium	1990	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	Lead	1990	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	Sedimentation/Siltation	1990	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_110	WARM SPRINGS CREEK, the Middle Fork to mouth (Prickly Pear Creek)	Zinc	2008	9/27/2006	The TMDL was completed for zinc. Originally listed in 1996 for metals.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Arsenic	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Cadmium	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Copper	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Lead	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Sedimentation/Siltation	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_120	CLANCY CREEK, headwaters to mouth (Prickly Pear Creek)	Zinc	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Cadmium	1990	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Copper	1990	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Lead	1990	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Total Suspended Solids (TSS)	2008	9/27/2006	The TMDL was completed for suspended solids.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_130	LUMP GULCH, headwaters to mouth (Prickly Pear Creek)	Zinc	1990	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Arsenic	1988	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Cadmium	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Copper	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Lead	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_141	TENMILE CREEK, headwaters to confluence of Spring Creek	Zinc	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Arsenic	1988	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Cadmium	1988	9/27/2006	The TMDL was completed for cadmium.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Copper	1988	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Lead	1988	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Sedimentation/Siltation	1988	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_142	TENMILE CREEK, Spring Creek to Helena Water Treatment Plant, Lat 46.573 Long -112.214	Zinc	1988	9/27/2006	The TMDL was completed for zinc.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Arsenic	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Cadmium	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Copper	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Lead	1988	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Nitrogen (Total)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Nutrient/Eutrophication Biological Indicators	2002	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Phosphorus (Total)	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Sedimentation/Siltation	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_143	TENMILE CREEK, Helena Water Treatment Plant to mouth (Prickly Pear Creek)	Zinc	1988	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_150	SILVER CREEK, headwaters to where the stream goes underground, T11N R4W S30	Arsenic	1988	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Arsenic	2008	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Copper	2008	9/27/2006	The TMDL was completed for copper.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Lead	2002	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Nitrogen (Total)	2008	9/27/2006	The TMDL was completed for nitrogen (total).
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Phosphorus (Total)	2002	9/27/2006	The TMDL was completed for phosphorus (total).
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_160	SEVENMILE CREEK, headwaters to mouth (Tenmile Creek)	Sedimentation/Siltation	1992	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	Arsenic	2002	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	Cadmium	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT411006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	Sedimentation/Siltation	2002	10/2/2006	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_180	NORTH FORK WARM SPRINGS CREEK, headwaters to mouth (Warm Springs Creek)	Zinc	2008	10/2/2006	
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	Lead	1994	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_210	JENNIES FORK, headwaters to mouth (Silver Creek)	Sedimentation/Siltation	1994	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I006_220	SKELLY GULCH, headwaters to mouth (Greenhorn Creek/Sevenmile Creek), T10N R5W S2	Sedimentation/Siltation	1994	9/27/2006	The TMDL was completed for sedimentation/siltation.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I007_010	LAKE HELENA	Arsenic	1994	9/27/2006	The TMDL was completed for arsenic.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I007_010	LAKE HELENA	Lead	1994	9/27/2006	The TMDL was completed for lead.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I007_010	LAKE HELENA	Nitrogen (Total)	2008	9/27/2006	The TMDL was completed for nutrients.
Lake Helena	Missouri-Sun-Smith	10030101	MT41I007_010	LAKE HELENA	Phosphorus (Total)	2008	9/27/2006	The TMDL was completed for nutrients.
Lone Tree Creek	Milk	10050012	MT40O002_050	LONE TREE CREEK, headwaters to mouth at Willow Creek	Nitrogen (Total)	2000	9/21/2001	The TMDL document was submitted to EPA in February 2001. The document, Lone Tree Creek TMDL Addressing Riparian Habitat Degradation, Flow Alteration and Nutrient Enrichment was approved by EPA on September 21, 2001. The document addressed TMDLs for sediment, other habitat alteration and siltation for Lone Tree Creek. The TMDL document can be found at: <a href="http://www.deq.mt.gov/wqinfo/TMDL/pdf/LoneTreeCrk.pdf">http://www.deq.mt.gov/wqinfo/TMDL/pdf/LoneTreeCrk.pdf</a> .
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D001_010	BIG HOLE RIVER, Divide Creek to mouth (Jefferson River)	Temperature, water	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Arsenic	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Cadmium	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Copper	1990	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Lead	1990	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_010	TRAPPER CREEK, headwaters to mouth (Big Hole River)	Zinc	1990	9/3/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_020	CAMP CREEK, headwaters to mouth (Big Hole River)	Solids (Suspended/Bedload)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1990	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Temperature, water	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_040	DIVIDE CREEK, headwaters to mouth (Big Hole River)	Total Kjeldahl Nitrogen (TKN)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_050	MOOSE CREEK, headwaters to mouth (Big Hole River at Maiden Rock)	Sedimentation/Siltation	2010	9/3/2009	Changed from un-assessed to assessed for list/delist.
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_060	GROSE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1988	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_090	BIRCH CREEK, headwaters to National Forest Boundary	Sedimentation/Siltation	1990	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_100	BIRCH CREEK, National Forest Boundary to mouth (Big Hole River)	Sedimentation/Siltation	2010	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_120	WICKIUP CREEK, headwaters to mouth (Camp Creek), T2S R8W S1	Copper	1994	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Nitrogen (Total)	2010	9/3/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Phosphorus (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_140	SOAP CREEK, headwaters to mouth (Big Hole River), T2S R9W S10	Sedimentation/Siltation	1994	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Arsenic	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Copper	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Lead	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Mercury	2000	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_160	ROCHESTER CREEK, headwaters to mouth (Big Hole River), T3S R6W S29	Sedimentation/Siltation	1994	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Arsenic	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Nitrogen (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Phosphorus (Total)	2006	9/3/2009	
Lower Big Hole	Upper Missouri Tribs.	10020004	MT41D002_180	LOST CREEK, headwaters to mouth (Lost Creek Canal/Ditch), T4S R9W S15	Sedimentation/Siltation	1996	9/3/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Iron	2010	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Solids (Suspended/Bedload)	1990	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_010	UNION CREEK, headwaters to mouth (Blackfoot River)	Temperature, water	1990	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_020	WEST FORK ASHBY CREEK, headwaters to mouth (East Fork Ashby Creek)	Sedimentation/Siltation	1988	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_031	ELK CREEK, headwaters to Stinkwater Creek	Sedimentation/Siltation	1988	12/23/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_032	ELK CREEK, Stinkwater Creek to mouth (Blackfoot River)	Sedimentation/Siltation	1988	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_032	ELK CREEK, Stinkwater Creek to mouth (Blackfoot River)	Temperature, water	2000	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_040	KENO CREEK, headwaters to mouth (Elk Creek)	Sedimentation/Siltation	1996	12/23/2009	Changed from un-assessed to assessed for list/delist.
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_050	EAST FORK ASHBY CREEK	Sedimentation/Siltation	1996	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_060	CAMAS CREEK, 1 mile above mouth to mouth (Union Creek)	Sedimentation/Siltation	1988	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_070	BELMONT CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	1992	12/23/2009	
Lower Blackfoot	Upper Clark Fork	17010203	MT76F006_090	WASHOE CREEK, Headwater to mouth (Union Creek)	Sedimentation/Siltation	1994	12/23/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Copper	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Lead	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Sedimentation/Siltation	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D001_020	BIG HOLE RIVER, Divide Creek to Pintlar Creek	Temperature, water	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	Copper	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_020	JERRY CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_030	DELANO CREEK, headwaters to mouth (Jerry Creek)	Sedimentation/Siltation	1992	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_040	DEEP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Arsenic	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Copper	2010	9/3/2009	Changed from un-assessed to assessed for list/delist.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_050	FRENCH CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	2010	9/3/2009	Changed from un-assessed to assessed for list/delist.
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Arsenic	1992	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Copper	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Sedimentation/Siltation	1992	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_070	CALIFORNIA CREEK, headwaters to mouth (French Creek-Deep Creek)	Turbidity	2006	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Arsenic	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Copper	2000	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_080	OREGON CREEK, headwaters to mouth (California Creek-French Creek-Deep Creek)	Sedimentation/Siltation	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_090	SIXMILE CREEK, headwaters to mouth (California Creek)	Sedimentation/Siltation	2002	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_110	SEVENMILE CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_130	CORRAL CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	1992	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_160	FISHTRAP CREEK, confluence of West & Middle Forks to mouth (Big Hole River)	Sedimentation/Siltation	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Cadmium	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Copper	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Lead	2010	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_200	WISE RIVER, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2010	9/3/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_210	PATTENGAIL CREEK, headwaters to mouth (Wise River)	Sedimentation/Siltation	2002	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Arsenic	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Cadmium	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Copper	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Lead	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Sedimentation/Siltation	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_220	ELKHORN CREEK, headwaters to mouth (Jacobson Creek)	Zinc	1996	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D003_230	GOLD CREEK, headwaters to mouth (Wise River)	Sedimentation/Siltation	1990	9/3/2009	
Middle Big Hole	Upper Missouri Tribs.	10020004	MT41D004_230	SAWLOG CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2006	9/3/2009	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Nitrogen (Total)	1996	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Phosphorus (Total)	1996	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_031	BLACKFOOT RIVER, Nevada Creek to Monture Creek	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Nitrogen (Total)	1996	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Phosphorus (Total)	1996	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F001_032	BLACKFOOT RIVER, Monture Creek to Belmont Creek	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Nitrogen (Total)	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Phosphorus (Total)	2006	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Sedimentation/Siltation	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_010	FRAZIER CREEK, headwaters to mouth (Blackfoot River), T14N R12W S28	Total Kjehldahl Nitrogen (TKN)	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_040	COTTONWOOD CREEK, 10 miles upstream to mouth (Blackfoot River)	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Nitrogen (Total)	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Phosphorus (Total)	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_050	WALES CREEK, reservoir outlet to mouth (Blackfoot River)	Sedimentation/Siltation	1992	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_060	WARD CREEK, headwaters to Browns Lake	Sedimentation/Siltation	2002	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_070	WARREN CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Nitrogen (Total)	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Phosphorus (Total)	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_080	YOURNAME CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_090	ROCK CREEK, headwaters to mouth (North Fork Blackfoot River)	Sedimentation/Siltation	1992	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_100	MONTURE CREEK, headwaters to mouth (Blackfoot River)	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Sedimentation/Siltation	2006	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F004_110	KLEINSCHMIDT CREEK, 1.5 miles upstream to mouth (North Fork Blackfoot River)	Temperature, water	2000	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_020	RICHMOND CREEK, headwaters to mouth (Lake Alva)	Sedimentation/Siltation	1992	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_030	DEER CREEK, headwaters to mouth (Seeley Lake)	Sedimentation/Siltation	1992	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Nitrogen (Total)	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Phosphorus (Total)	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_040	WEST FORK CLEARWATER RIVER, headwaters to mouth (Clearwater River)	Sedimentation/Siltation	2010	9/22/2008	
Middle Blackfoot	Upper Clark Fork	17010203	MT76F005_060	BLANCHARD CREEK, North Fork to mouth (Clearwater River)	Sedimentation/Siltation	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Copper	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Iron	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Lead	2000	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Nitrogen (Total)	1992	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Phosphorus (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Solids (Suspended/Bedload)	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Temperature, water	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_011	NEVADA CREEK, headwaters to Nevada Lake	Total Kjehldahl Nitrogen (TKN)	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Phosphorus (Total)	1996	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Sedimentation/Siltation	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Temperature, water	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_012	NEVADA CREEK, Nevada Lake to mouth (Blackfoot River)	Total Kjehldahl Nitrogen (TKN)	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_021	JEFFERSON CREEK, headwaters to 1 mile above confluence with Madison Gulch	Sedimentation/Siltation	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Aluminum	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Iron	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Phosphorus (Total)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Sedimentation/Siltation	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_022	JEFFERSON CREEK, 1 mi above Madison Gulch to mouth (Nevada Creek)	Solids (Suspended/Bedload)	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Phosphorus (Total)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_030	GALLAGHER CREEK, headwaters to mouth (Nevada Creek)	Total Kjehldahl Nitrogen (TKN)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Nitrogen (Total)	2010	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Phosphorus (Total)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_040	BRAZIEL CREEK, 2.8 miles upstream from mouth (Nevada Creek), T12N R10W S22	Sedimentation/Siltation	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Phosphorus (Total)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_050	MCELWAIN CREEK, diversion of Company Ditch to mouth (Nevada Creek), T13N R11W S18	Sedimentation/Siltation	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Phosphorus (Total)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Sedimentation/Siltation	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Solids (Suspended/Bedload)	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_060	BLACK BEAR CREEK, headwaters to mouth (Bear Creek), T12N R12W S22	Total Kjehldahl Nitrogen (TKN)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_071	WASHINGTON CREEK, headwaters to Cow Gulch	Sedimentation/Siltation	2010	9/22/2008	Changed from un-assessed to assessed for list/delist.
Nevada Creek	Upper Clark Fork	17010203	MT76F003_072	WASHINGTON CREEK, Cow Gulch to mouth (Nevada Creek)	Iron	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_072	WASHINGTON CREEK, Cow Gulch to mouth (Nevada Creek)	Sedimentation/Siltation	1988	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Nitrate/Nitrite (Nitrite + Nitrate as N)	1990	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Phosphorus (Total)	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Sedimentation/Siltation	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Temperature, water	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_081	DOUGLAS CREEK, headwaters to Murray Creek	Total Kjehldahl Nitrogen (TKN)	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Phosphorus (Total)	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Sedimentation/Siltation	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Temperature, water	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_082	DOUGLAS CREEK, Murray Creek to mouth (Nevada-Cottonwood Creeks)	Total Kjehldahl Nitrogen (TKN)	1990	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Sedimentation/Siltation	2010	9/2/2008	Changed from un-assessed to assessed for list/delist.
Nevada Creek	Upper Clark Fork	17010203	MT76F003_090	COTTONWOOD CREEK, South Fork Cottonwood Creek to mouth (Douglas Creek)	Temperature, water	2010	9/22/2008	Changed from un-assessed to assessed for list/delist.
Nevada Creek	Upper Clark Fork	17010203	MT76F003_100	NEVADA SPRING CREEK, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	1992	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Nitrate/Nitrite (Nitrite + Nitrate as N)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Phosphorus (Total)	2006	9/22/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Sedimentation/Siltation	1994	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Temperature, water	1994	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_120	MURRAY CREEK, headwaters to mouth (Douglas Creek), T12N R12W S6	Total Kjehldahl Nitrogen (TKN)	2006	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F003_130	BUFFALO GULCH, headwaters to mouth (Nevada Creek)	Sedimentation/Siltation	2002	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Nitrogen (Total)	2010	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Oxygen, Dissolved	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Phosphorus (Total)	1996	9/22/2008	
Nevada Creek	Upper Clark Fork	17010203	MT76F007_020	NEVADA LAKE, reservoir of Nevada Creek	Total Kjehldahl Nitrogen (TKN)	1996	9/22/2008	
Ninemile	Lower Clark Fork	17010204	MT76M004_010	NINEMILE CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1996	7/26/2003	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation for Ninemile Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .
Ninemile	Lower Clark Fork	17010204	MT76M004_020	STONY CREEK, headwaters to mouth (Ninemile Creek)	Sedimentation/Siltation	1994	7/26/2005	The TMDL was completed for sedimentation/siltation.
Ninemile	Lower Clark Fork	17010204	MT76M004_040	JOSEPHINE CREEK, headwaters to mouth (Ninemile Creek)	Sedimentation/Siltation	2006	7/26/2005	
Ninemile	Lower Clark Fork	17010204	MT76M004_060	CEDAR CREEK, headwaters to mouth (Ninemile Creek)	Sedimentation/Siltation	2006	7/26/2005	
Ninemile	Lower Clark Fork	17010204	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	Copper	1988	7/26/2005	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation, copper, lead, mercury, and zinc for Kennedy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Ninemile	Lower Clark Fork	17010204	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	Lead	1988	7/26/2005	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation, copper, lead, mercury, and zinc for Kennedy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .
Ninemile	Lower Clark Fork	17010204	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	Mercury	1988	7/26/2005	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation, copper, lead, mercury, and zinc for Kennedy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .
Ninemile	Lower Clark Fork	17010204	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	Sedimentation/Siltation	1988	7/26/2005	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation, copper, lead, mercury, and zinc for Kennedy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .
Ninemile	Lower Clark Fork	17010204	MT76M004_070	KENNEDY CREEK, headwaters to mouth (Ninemile Creek)	Zinc	1988	7/26/2005	The TMDL document was submitted to EPA in January 2005. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Ninemile Planning Area was approved by EPA on July 26, 2005. The document addressed TMDLs for siltation, copper, lead, mercury, and zinc for Kennedy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Ninemile/Final9Mi_Master.pdf</a> .
Ninemile	Lower Clark Fork	17010204	MT76M004_080	LITTLE MCCORMICK CREEK, headwaters to mouth (McCormick Creek)	Sedimentation/Siltation	2006	7/26/2005	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_010	NORTH FORK BIG HOLE RIVER, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1990	6/30/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_020	MUSSIGBROD CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	2010	9/3/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_030	JOHNSON CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	1990	6/30/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_060	TIE CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	1992	6/30/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_070	TRAIL CREEK, headwaters to Joseph Creek	Sedimentation/Siltation	1990	6/30/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_080	TRAIL CREEK, Joseph Creek to mouth (North Fork Big Hole River)	Sedimentation/Siltation	1990	6/30/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_090	JOSEPH CREEK, headwaters to mouth (Trail Creek)	Sedimentation/Siltation	1990	6/30/2009	
North Fork Big Hole	Upper Missouri Tribs.	10020004	MT41D004_100	RUBY CREEK, headwaters to mouth (North Fork Big Hole River)	Sedimentation/Siltation	2000	6/30/2009	
Prospect Creek	Lower Clark Fork	17010213	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	Antimony	2000	12/27/2006	The TMDL was completed for antimony.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	Lead	2000	12/27/2006	The TMDL was completed for lead.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	2010	1/21/2009	
Prospect Creek	Lower Clark Fork	17010213	MT76N003_020	PROSPECT CREEK, headwaters to mouth (Clark Fork River)	Zinc	2000	12/27/2006	The TMDL was completed for zinc.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_021	ANTIMONY CREEK, headwaters to mouth (Prospect Creek)	Antimony	2008	12/27/2006	The TMDL was completed for antimony.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_021	ANTIMONY CREEK, headwaters to mouth (Prospect Creek)	Arsenic	2004	12/27/2006	The TMDL was completed for arsenic.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_021	ANTIMONY CREEK, headwaters to mouth (Prospect Creek)	Lead	2004	12/27/2006	The TMDL was completed for lead.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_022	COX GULCH headwaters to mouth (Prospect Creek)	Antimony	2010	12/27/2006	
Prospect Creek	Lower Clark Fork	17010213	MT76N003_022	COX GULCH headwaters to mouth (Prospect Creek)	Lead	2004	12/27/2006	The TMDL was completed for lead.
Prospect Creek	Lower Clark Fork	17010213	MT76N003_050	CLEAR CREEK, headwaters to mouth (Prospect Creek)	Sedimentation/Siltation	2006	1/21/2009	
Prospect Creek	Lower Clark Fork	17010213	MT76N003_070	DRY CREEK, headwaters (confluence of East and West Forks) to mouth (Prospect Creek)	Sedimentation/Siltation	2010	1/21/2009	
Ruby	Upper Missouri Tribs.	10020003	MT41C001_010	RUBY RIVER, Ruby Dam to mouth (Beaverhead River)	Sedimentation/Siltation	1988	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C001_010	RUBY RIVER, Ruby Dam to mouth (Beaverhead River)	Temperature, water	2000	5/9/2007	The TMDL was completed for temperature, water.
Ruby	Upper Missouri Tribs.	10020003	MT41C001_020	RUBY RIVER, confluence of East, West, and Middle Forks to Ruby Reservoir	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_010	WISCONSIN CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/15/2007	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Ruby	Upper Missouri Tribs.	10020003	MT41C002_020	MILL CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_020	MILL CREEK, headwaters to mouth (Ruby River)	Temperature, water	1990	5/9/2007	The TMDL was completed for temperature, water.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_030	INDIAN CREEK, headwaters to mouth (Leonard Slough)	Sedimentation/Siltation	2006	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_040	ALDER GULCH, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_050	RAMSHORN CREEK, headwaters to mouth (Ruby River)	Lead	1988	5/9/2007	The TMDL was completed for lead.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_050	RAMSHORN CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	2004	5/9/2007	The TMDL was completed for sedimentation/siltation
Ruby	Upper Missouri Tribs.	10020003	MT41C002_060	CURRANT CREEK, headwaters to mouth (Ramshorn Creek), T4S R4W S35	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_090	CALIFORNIA CREEK, headwaters to mouth (Ruby River), T5S R4W S30	Sedimentation/Siltation	1994	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_100	GARDEN CREEK, headwaters to mouth (Ruby Reservoir)	Sedimentation/Siltation	1996	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C002_110	MORMON CREEK, headwaters to mouth (Upper end of Ruby River Reservoir )	Sedimentation/Siltation	1996	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_020	COAL CREEK, headwaters to mouth (Middle Fork Ruby River)	Sedimentation/Siltation	2006	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_030	COTTONWOOD CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_040	EAST FORK RUBY RIVER, headwaters to mouth (Ruby River)	Sedimentation/Siltation	2006	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_050	WARM SPRINGS CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	Chlorophyll-a	2002	5/9/2007	The TMDL was completed for Chlorophyll-a.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	Nitrogen (Total)	2002	5/9/2007	The TMDL was completed for nitrogen (total).
Ruby	Upper Missouri Tribs.	10020003	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	Phosphorus (Total)	2002	5/9/2007	The TMDL was completed for phosphorus (total).

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Ruby	Upper Missouri Tribs.	10020003	MT41C003_060	SWEETWATER CREEK, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_080	WEST FORK RUBY RIVER, headwaters to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_090	MIDDLE FORK RUBY RIVER, Divide Creek to mouth (Ruby River)	Sedimentation/Siltation	1990	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_110	POISON CREEK, headwaters to mouth (Ruby River), T11S R3W S18	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_120	BASIN CREEK, headwaters to mouth (Ruby River), T11S R3W S20	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_130	BURNT CREEK, headwaters to mouth (Ruby River), T10S R3W S21	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Ruby	Upper Missouri Tribs.	10020003	MT41C003_150	SHOVEL CREEK, headwaters to mouth (Cabin Creek)	Sedimentation/Siltation	1992	5/9/2007	The TMDL was completed for sedimentation/siltation.
Shields	Upper Yellowstone	10070003	MT43A001_011	SHIELDS RIVER, Cottonwood Creek to mouth (Yellowstone River)	Sedimentation/Siltation	1988	6/30/2009	
Shields	Upper Yellowstone	10070003	MT43A001_012	SHIELDS RIVER, headwaters to Cottonwood Creek	Sedimentation/Siltation	1988	6/30/2009	
Shields	Upper Yellowstone	10070003	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	Sedimentation/Siltation	1988	6/30/2009	
Shields	Upper Yellowstone	10070003	MT43A002_010	POTTER CREEK, headwaters to the mouth (Flathead Creek), T3N R9E S18	Solids (Suspended/Bedload)	1988	6/30/2009	
St. Regis	Lower Clark Fork	17010204	MT76M003_010	ST. REGIS RIVER, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1990	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_010	ST. REGIS RIVER, headwaters to mouth (Clark Fork River)	Temperature, water	2002	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	Sedimentation/Siltation	1992	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_020	TWELVE MILE CREEK, headwaters to mouth (St. Regis River)	Temperature, water	2002	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	Sedimentation/Siltation	2002	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_040	BIG CREEK, the East and Middle Forks to mouth (St. Regis River)	Temperature, water	1992	9/10/2008	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
St. Regis	Lower Clark Fork	17010204	MT76M003_070	LITTLE JOE CREEK, North Fork to mouth (St. Regis River)	Sedimentation/Siltation	1992	9/10/2008	
St. Regis	Lower Clark Fork	17010204	MT76M003_080	NORTH FORK LITTLE JOE CREEK, headwaters to mouth (Little Joe Creek)	Sedimentation/Siltation	1992	9/10/2008	
Sun	Missouri-Sun-Smith	10030104	MT41K001_010	SUN RIVER, Gibson Dam to Muddy Creek	Sedimentation/Siltation	1988	2/23/2005	The Sun River TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, thermal modifications, and siltation for the upper Sun River. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K001_010	SUN RIVER, Gibson Dam to Muddy Creek	Temperature, water	1990	2/23/2005	In the Water Quality Impairment Section of the TMDL document written by DEQ, the document indicates that the Upper Sun River is meeting water quality standards for nutrients and total phosphorus. Therefore, no TMDLs were written for those pollutants. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, thermal modifications, and siltation for the upper Sun River. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K001_020	SUN RIVER, Muddy Creek to mouth (Missouri River)	Nitrogen (Total)	1988	2/23/2005	In the Salinity Section of the TMDL document written by DEQ, the document indicates that the Lower Sun River is meeting water quality standards for temperature and salinity-related pollutants. Therefore, no TMDLs were written for those pollutants for the Lower Sun River. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen and total phosphorus for the lower Sun River. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K001_020	SUN RIVER, Muddy Creek to mouth (Missouri River)	Phosphorus (Total)	1988	2/23/2005	In the Salinity Section of the TMDL document written by DEQ, the document indicates that the Lower Sun River is meeting water quality standards for temperature and salinity-related pollutants. Therefore, no TMDLs were written for those pollutants for the Lower Sun River. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen and total phosphorus for the lower Sun River. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Sun	Missouri-Sun-Smith	10030104	MT41K001_020	SUN RIVER, Muddy Creek to mouth (Missouri River)	Sedimentation/Siltation	1988	2/23/2005	The TMDL was completed for sedimentation/siltation.
Sun	Missouri-Sun-Smith	10030104	MT41K001_020	SUN RIVER, Muddy Creek to mouth (Missouri River)	Total Suspended Solids (TSS)	1988	2/23/2005	The TMDL was completed for Total Suspended Solids (TSS).
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Nitrogen (Total)	1988	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation , nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Phosphorus (Total)	1988	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation , nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Salinity	1990	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation , nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Sedimentation/Siltation	1988	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation , nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Selenium	2006	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen, phosphorus, selenium (aquatic life), salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Sulfates	1990	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Temperature, water	1990	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_010	MUDDY CREEK, headwaters to mouth (Sun River)	Total Dissolved Solids	1990	2/23/2005	In the Hydrogen Ion Content Section (Section 5) of the TMDL document written by DEQ, the document indicates that Muddy Creek is meeting water quality standards for pH. Therefore, no TMDLS were written for pH. Additional documentation of the delisting rationale can be found in the TMDL document that was submitted to EPA in December 2004. The document, Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area was approved by EPA on February 23, 2005. The document addressed TMDLs for suspended solids, siltation, nitrogen, phosphorus, salinity, TDS and chlorides for Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SunRiverFinalTMDL/MasterSunTMDL.pdf</a> .
Sun	Missouri-Sun-Smith	10030104	MT41K002_020	FORD CREEK, from mouth 2 miles upstream (Smith Creek-Elk Creek-Sun River)	Sedimentation/Siltation	2000	2/22/2005	
Sun	Missouri-Sun-Smith	10030104	MT41K004_030	FREEZEOUT LAKE	Selenium	1988	2/22/2005	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Sun	Missouri-Sun-Smith	10030104	MT41K004_030	FREEZEOUT LAKE	Sulfates	1990	2/22/2005	
Sun	Missouri-Sun-Smith	10030104	MT41K004_030	FREEZEOUT LAKE	Total Dissolved Solids	1988	2/22/2005	
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	BOD, sediment load (Sediment Oxygen Demand)	2008	8/31/2004	An equivalent TMDL was completed for BOD, sediment load (Sediment Oxygen Load).
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	Nitrogen (Total)	2010	8/31/2004	
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	Phosphorus (Total)	2010	8/31/2004	
Swan	Flathead	17010211	MT76K002_010	SWAN LAKE	Sedimentation/Siltation	1996	8/31/2004	The TMDL document was submitted to EPA in June 2004. The document, Water Quality Protection Plan and TMDLs for the Swan Lake Watershed was approved by EPA on August 31, 2004. The document addressed TMDLs for sediment, organic enrichment and dissolved oxygen for Swan Lake. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SwanLake/Final01SwanMasterDoc.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SwanLake/Final01SwanMasterDoc.pdf</a> .
Swan	Flathead	17010211	MT76K003_010	JIM CREEK, headwaters to mouth (Swan River), T21 R18W S8	Sedimentation/Siltation	1990	8/31/2004	The TMDL document was submitted to EPA in June 2004. The document, Water Quality Protection Plan and TMDLs for the Swan Lake Watershed was approved by EPA on August 31, 2004. The document addressed TMDLs for sediment for Jim Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/SwanLake/Final01SwanMasterDoc.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/SwanLake/Final01SwanMasterDoc.pdf</a> .
Swan	Flathead	17010211	MT76K003_031	GOAT CREEK, headwaters to Squeezer Creek	Total Suspended Solids (TSS)	1992	8/31/2004	The TMDL was completed for sedimentation/siltation.
Teton	Marias	10030205	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	Salinity	1996	11/26/2003	A surrogate TMDL was completed for salinity.
Teton	Marias	10030205	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	Sedimentation/Siltation	1996	11/26/2003	The TMDL was completed for sedimentation/siltation.
Teton	Marias	10030205	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	Sulfates	1996	11/26/2003	A surrogate TMDL was completed for sulfates.
Teton	Marias	10030205	MT41O001_010	TETON RIVER, Muddy Creek to mouth (Marias River)	Total Dissolved Solids	1996	11/26/2003	The TMDL was completed for total dissolved solids.
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Salinity	2000	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, TSS, and thermal modifications for the Teton River from Deep Creek to Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Sulfates	2000	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, TSS, and thermal modifications for the Teton River from Deep Creek to Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Temperature, water	2000	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, TSS, and thermal modifications for the Teton River from Deep Creek to Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Total Dissolved Solids	2000	11/26/2003	A surrogate TMDL was completed for total dissolved solids.
Teton	Marias	10030205	MT41O001_020	TETON RIVER, Deep Creek to Muddy Creek	Total Suspended Solids (TSS)	1988	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, TSS, and thermal modifications for the Teton River from Deep Creek to Muddy Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O002_010	WILLOW CREEK, headwaters to mouth (Deep Creek)	Sedimentation/Siltation	1988	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment for Willow Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	Nitrogen (Total)	2002	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, nitrogen, and phosphorus for Deep Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	Phosphorus (Total)	2002	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment, nitrogen, and phosphorus for Deep Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O002_020	DEEP CREEK, Willow Creek to mouth (Teton River)	Sedimentation/Siltation	1988	11/26/2003	A surrogate TMDL was completed for sedimentation/siltation.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Teton	Marias	10030205	MT41O002_060	TETON SPRING CREEK, the city of Choteau to mouth (Teton River)	Nitrogen (Total)	2002	11/26/2003	The TMDL was completed for nitrogen (total).
Teton	Marias	10030205	MT41O002_060	TETON SPRING CREEK, the city of Choteau to mouth (Teton River)	Sedimentation/Siltation	2002	11/26/2003	A surrogate TMDL was completed for sedimentation/siltation.
Teton	Marias	10030205	MT41O002_070	TETON SPRING CREEK, headwaters to city of Choteau	Sedimentation/Siltation	2002	11/26/2003	The TMDL document was submitted to EPA in September 2003. The document, Water Quality Management Plan and TMDLs for the Teton River Watershed was approved by EPA on November 26, 2003. The document addressed TMDLs for sediment and thermal modifications for the upper section of Teton Spring Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/Teton/TetonMasterDoc8_18_03.pdf</a>
Teton	Marias	10030205	MT41O002_070	TETON SPRING CREEK, headwaters to city of Choteau	Temperature, water	2002	11/26/2003	The TMDL was completed for temperature, water.
Teton	Marias	10030205	MT41O004_020	PRIEST BUTTE LAKE	Salinity	1988	11/26/2003	
Teton	Marias	10030205	MT41O004_020	PRIEST BUTTE LAKE	Selenium	1988	11/26/2003	
Teton	Marias	10030205	MT41O004_020	PRIEST BUTTE LAKE	Sulfates	1988	11/26/2003	
Teton	Marias	10030205	MT41O004_020	PRIEST BUTTE LAKE	Total Dissolved Solids	1988	11/26/2003	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D001_030	BIG HOLE RIVER, headwaters to Pintlar Creek	Sedimentation/Siltation	2010	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D001_030	BIG HOLE RIVER, headwaters to Pintlar Creek	Temperature, water	2000	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_110	SWAMP CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1990	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_120	ROCK CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2002	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_140	MINER CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1990	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_150	GOVERNOR CREEK, headwaters to mouth (Warm Springs Creek)	Sedimentation/Siltation	2010	9/3/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_160	PINE CREEK, headwaters to mouth (Andrus Creek)	Sedimentation/Siltation	2010	9/3/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_170	FOX CREEK, headwaters to mouth (Governor Creek)	Sedimentation/Siltation	2010	9/3/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Nitrogen (Total)	2010	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Phosphorus (Total)	2000	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_190	STEEL CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	2010	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Nitrogen (Total)	2006	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Phosphorus (Total)	2006	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_200	FRANCIS CREEK, headwaters to mouth (Steel Creek)	Sedimentation/Siltation	1990	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_210	McVEY CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1992	6/30/2009	
Upper Big Hole	Upper Missouri Tribs.	10020004	MT41D004_220	DOOLITTLE CREEK, headwaters to mouth (Big Hole River)	Sedimentation/Siltation	1992	6/30/2009	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Arsenic	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Cadmium	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Copper	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Lead	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_012	WARM SPRINGS CREEK, Meyers Dam T5N R12W S25 to mouth (Clark Fork), T6N R9W S6	Zinc	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_030	CABLE CREEK, headwaters to mouth (Warm Springs Creek)	Sedimentation/Siltation	1988	3/4/2010	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_040	STORM LAKE CREEK, headwaters to mouth (Un-Named canal/Ditch)	Sedimentation/Siltation	2006	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Arsenic	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Cadmium	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Copper	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Lead	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_051	MILL CREEK, headwaters to section line between Sec 27 and 28, T4N, R11W	Zinc	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Arsenic	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Cadmium	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Copper	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Iron	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Lead	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_052	MILL CREEK, line between sections 27-28 T4N R11W to mouth (Silver Bow Creek)	Zinc	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Arsenic	2006	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Cadmium	2006	3/4/2010	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Copper	2006	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Lead	2006	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Sedimentation/Siltation	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_061	WILLOW CREEK, headwaters to T4N R10W S30	Zinc	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Arsenic	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Cadmium	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Copper	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Lead	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Sedimentation/Siltation	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_062	WILLOW CREEK, T4N R10W S30 to mouth (Mill Creek), T4N R10W S11	Zinc	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Arsenic	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Copper	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_072	LOST CREEK, the south State Park boundary to mouth (Clark Fork River)	Lead	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Arsenic	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Cadmium	2010	3/4/2010	Changed from un-assessed to assessed for list/delist.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Copper	2010	3/4/2010	Changed from un-assessed to assessed for list/delist.
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_080	MODESTY CREEK, headwaters to mouth (Clark Fork River)	Lead	2010	3/4/2010	Changed from un-assessed to assessed for list/delist.
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_100	DEMPSEY CREEK, the national forest boundary to mouth (Clark Fork River)	Sedimentation/Siltation	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_110	TIN CUP JOE CREEK, Tin Cup Lake to mouth (Clark Fork River)	Sedimentation/Siltation	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Arsenic	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Cadmium	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Copper	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Lead	1996	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_120	MILL WILLOW BYPASS, Silver Bow Creek to Clark Fork River	Zinc	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Copper	2006	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Lead	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_131	PETERSON CREEK, headwaters to Jack Creek	Sedimentation/Siltation	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Sedimentation/Siltation	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_132	PETERSON CREEK, Jack Creek to mouth (Clark Fork River)	Temperature, water	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G002_140	ANTELOPE CREEK, headwaters to mouth (Gardner Ditch)	Sedimentation/Siltation	2010	3/4/2010	Changed from un-assessed to assessed for list/delist.

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Arsenic	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Cyanide	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_030	GERMAN GULCH, headwaters to mouth (Silver Bow Creek)	Selenium	2002	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G003_031	BEEFSTRAIGHT CREEK, Minnesota Gulch to mouth (German Gulch)	Cyanide	2004	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Arsenic	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Cadmium	1990	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Copper	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Lead	1990	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_071	DUNKLEBERG CREEK, headwaters to T9N R12W S2 SW	Zinc	1990	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Arsenic	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Cadmium	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Copper	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Lead	1990	3/4/2010	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_072	DUNKLEBERG CREEK, T9N R12W S2 to mouth (Un-named Canal), T10N R11W S30	Zinc	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	Sedimentation/Siltation	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_081	HOOVER CREEK, headwaters to Miller Lake	Turbidity	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_082	HOOVER CREEK, Miller Lake to mouth (Clark Fork River)	Sedimentation/Siltation	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_091	GOLD CREEK, headwaters to National Forest boundary	Lead	2000	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	Iron	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_092	GOLD CREEK, the forest boundary to mouth (Clark Fork River)	Lead	2010	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_100	BROCK CREEK, headwaters to mouth (Clark Fork River)	Sedimentation/Siltation	1988	3/4/2010	
Upper Clark Fork	Upper Clark Fork	17010201	MT76G005_112	WARM SPRINGS CREEK, from line between R9W and R10W to mouth (Clark Fork River)	Sedimentation/Siltation	1988	3/4/2010	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Sedimentation/Siltation	2010	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_010	BIG PIPESTONE CREEK, headwaters to mouth (Jefferson Slough), T1N R4W S11	Total Suspended Solids (TSS)	1996	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_030	HELLS CANYON CREEK, headwaters to mouth (Jefferson River)	Sedimentation/Siltation	1992	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_040	LITTLE PIPESTONE CREEK, headwaters to mouth (Big Pipestone Creek)	Sedimentation/Siltation	1990	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_100	FISH CREEK, headwaters to mouth (Jefferson Canal), T1S R5W S12	Sedimentation/Siltation	1996	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_110	CHERRY CREEK, headwaters to mouth (Jefferson River)	Sedimentation/Siltation	2006	9/22/2009	
Upper Jefferson	Upper Missouri Tribs.	10020005	MT41G002_140	WHITETAIL CREEK, Whitetail Reservoir to mouth (Jefferson Slough)	Sedimentation/Siltation	1994	9/22/2009	

## Appendix F: EPA-Approved TMDLs

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Cause of Impairment	Cycle First Listed	TMDL Completion Date	Comment
Upper Lolo	Upper Clark Fork	17010205	MT76H005_030	GRANITE CREEK, headwaters to mouth (Lolo Creek)	Sedimentation/Siltation	1988	6/24/2003	The TMDL document was submitted to EPA in April 2003. The document, Water Quality Restoration Plan and TMDLs for the Upper Lolo Creek TMDL Planning Area was approved by EPA on June 24, 2003. The document addressed TMDLs for sediment for Granite Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf</a> .
Upper Lolo	Upper Clark Fork	17010205	MT76H005_040	EAST FORK LOLO CREEK, headwaters to mouth (Confluence with Lolo Creek)	Sedimentation/Siltation	1990	6/24/2003	The TMDL was completed for sedimentation/siltation.
Upper Lolo	Upper Clark Fork	17010205	MT76H005_050	WEST FORK LOLO CREEK, headwaters to mouth (Lolo Creek)	Sedimentation/Siltation	1992	6/24/2003	The TMDL was completed for sedimentation/siltation.
Upper Lolo	Upper Clark Fork	17010205	MT76H005_060	LOST PARK CREEK, headwaters to mouth (Confluence with East Fork Lolo Creek)	Sedimentation/Siltation	1992	6/24/2003	The TMDL document was submitted to EPA in April 2003. The document, Water Quality Restoration Plan and TMDLs for the Upper Lolo Creek TMDL Planning Area was approved by EPA on June 24, 2003. The document addressed TMDLs for sediment for Lost Park Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf</a> .
Upper Lolo	Upper Clark Fork	17010205	MT76H005_070	LEE CREEK, headwaters to mouth (West Fork Lolo Creek)	Sedimentation/Siltation	2002	6/24/2003	The TMDL document was submitted to EPA in April 2003. The document, Water Quality Restoration Plan and TMDLs for the Upper Lolo Creek TMDL Planning Area was approved by EPA on June 24, 2003. The document addressed TMDLs for sediment for Lee Creek. The TMDL document can be found at: <a href="http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf">http://www.deq.state.mt.us/wqinfo/TMDL/pdf/FinalUpperLolo.pdf</a> .
Yaak	Kootenai	17010103	MT76B002_010	SEVENTEEN MILE CREEK, headwaters to mouth (Yaak River)	Sedimentation/Siltation	1992	9/10/2008	
Yaak	Kootenai	17010103	MT76B002_020	LAP CREEK, headwaters to mouth (Yaak River)	Sedimentation/Siltation	2006	9/10/2008	
Yaak	Kootenai	17010103	MT76B002_080	SOUTH FORK YAAK RIVER, headwaters to mouth (Yaak River)	Sedimentation/Siltation	1992	9/10/2008	

## Appendix G: Monitoring and Assessment Schedule for 2010 - 2012

TMDL Planning Area	Watershed	HUC	ID305B	Waterbody Name/Location	Size	Units	Cycle Last Assessed	Monitoring Schedule Date
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The DEQ Water Quality Planning Bureau (WQPB) is updating the WQPB monitoring strategy, which will include the monitoring and assessment schedule for 2010 to 2012. The monitoring and assessment schedule for 2010 to 2012 will be released when this is complete.