

**Reporting Cycle:** 2016      **Assessment Record:** MT76Q002\_070.pdf      **Status:** Unassigned

**ASSESSMENT UNIT INFORMATION**

<b>Reporting Cycle:</b>	2016	
<b>Assessment Unit:</b>	MT76Q002_070	
<b>Waterbody Name:</b>	Coal Creek	
<b>Location Description:</b>	COAL CREEK, headwaters to South Fork	
<b>Water Type:</b>	<b>Size (Miles/Acres)</b>	<b>Use Class:</b>
RIVER	10.4 MILES	B-1
<b>Hydrologic Unit Code:</b>	17010206	
<b>HUC Name:</b>	North Fork Flathead	
<b>Watershed:</b>	Pend Oreille	
<b>Basin:</b>	Columbia	
<b>TMDL Planning Area:</b>	Flathead Headwaters	
<b>Ecoregion:</b>	Canadian Rockies	
<b>County:</b>	FLATHEAD CO	
<b>Lat/Long AU Start (U/S):</b>	48.697896 / -114.541481	
<b>Lat/Long AU End (D/S):</b>	48.680481 / -114.345464	

**MONITORING INFORMATION**

**Date Assessment Started:** 11/26/1999  
**Assessed By:** Suplee, Mike

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

## CITATIONS

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Fraley, John J. ; Read, Don ; Graham, Patrick J. (1981), Flathead River Fisheries Study: April 1981	DEQ Metcalf Stacks	fish; macroinvertebrates		common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Read, Don ; Shepard, Bradley B. ; Graham, Patrick J. (1982), Fish and Habitat Inventory of Streams in the North Fork Drainage of the Flathead River	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	Rosgen type; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Shepard, Bradley B. ; Fraley, John J. ; Weaver, Thomas M. ; Graham, Patrick J. (1982), Flathead River Fisheries Study: 1982	DEQ Metcalf Stacks	fish		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data

Reporting Cycle: 2016

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Status: Unassigned

Citation	Location	Biological Data	Habitat Data	Chemistry Data
7-R-36 Job # I-a				data
Fraley, John J. ; May, Bruce ; Clancey, Patrick T. ; Beattie, Will (1987), Fisheries Evaluation Program for the Flathead Lake/River System and Hungry Horse and Libby Reservoirs	DEQ Metcalf Stacks	fish; macroinvertebrates		quantitative physical data
Hanzel, Delano A. ; Fraley, John J. ; Beattie, Will ; Weaver, Thomas M. ; Tohtz, Joel (1991), Statewide Fisheries Investigations: Survey and Inventory of Coldwater and Warmwater Ecosystems: Flathead Lake-River System Study, F-46-R-1, F-46-R-2, F-46-R-3, F-46-R-4 Job # V-a	DEQ Metcalf Stacks	fish; macroinvertebrates	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Fisheries Habitat and Fish Populations	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	quantitative physical data

## Montana DEQ - Water Quality Standards Attainment Record

Notice Letter - Attachment C2

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Holtrop, Joel D. (1995), Montana 305(b) Report Data Request	DEQ Metcalf Stacks	fecal coliforms	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; quantitative physical data
Montana Bull Trout Scientific Group (1995), Flathead River Drainage: Bull Trout Status Report (Including Flathead Lake, the North and Middle Forks of the Flathead River, and the Stillwater and Whitefish Rivers)	DEQ Metcalf Stacks	fish; macroinvertebrates	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous
Hauer, F. Richard ; Hill, Elizabeth (1997), Analysis of 1994-1996 Headwaters Monitoring Data: A Contribution to the Master Plan for Monitoring Water Quality in the Flathead Basin, FLBS Open File Report #140-97	DEQ Metcalf Stacks		riparian &/or instream surveys & physical features	major nutrients; quantitative physical data
Deleray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	metals; quantitative physical data
Flathead Basin Commission (1999), Flathead Basin Commission: Biennial Report 1997-1998	DEQ Metcalf Stacks	chlorophyll; fish; macroinvertebrates	Land use	common ions, pH, conductivity, miscellaneous; major nutrients; quantitative physical data
Montana Department of Fish, Wildlife, and Parks (2002), Montana Rivers Information System (MRIS): Montana Fisheries Information System (MFISH) - <a href="http://maps2.nris.mt.gov/scripts/esrimap.dll?name=M FISH&amp;Cmd=INST">http://maps2.nris.mt.gov/scripts/esrimap.dll?name=M FISH&amp;Cmd=INST</a>	Assessment Record	algae; fish; macroinvertebrates; wildlife	Land use; photo points; riparian &/or instream surveys & physical features	benthic sediment data; common ions, pH, conductivity, miscellaneous; quantitative physical data

# Montana DEQ - Water Quality Standards Attainment Record

Notice Letter - Attachment C2

**Reporting Cycle:** 2016

**Assessment Record:** MT76Q002\_070.pdf

**Status:** Unassigned

Citation	Location	Biological Data	Habitat Data	Chemistry Data
(nnnn), USFS Field Data	Assessment Record	chlorophyll; fish; macroinvertebrates	Land use; photo points; riparian &/or instream surveys & physical features	Rosgen type; benthic sediment data; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data

**Comments:**

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

**DATA MATRIX****Biological Data****Comments:****Headwater to SF Coal Cr confluence**

Data Type	Comments	Ref Num	Citation
fish	Westslope cutthroat and bull trout found.	1559	Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a
fish	During this time period, no increasing or decreasing trend in redds counts (similar to population estimates for this time).	733	Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX
fish	Population estimates were fairly stable from 82-90 (No significant trend), after which there was a sharp decline throughout the period 1990-1998 (significant decline, $P < 0.001$ ) which has not yet improved.	1258	Delaray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

**DATA MATRIX****Habitat Data****Comments:****Headwater to SF Coal Cr confluence**

Data Type	Comments	Ref Num	Citation
riparian &/or instream surveys & physical features	Upper reaches steep and stable. A clear cut was present with large amounts of slash on streambank. An old crossing was present extensive deposition and channel migration has occurred. Road on S side drains directly into channel creating a sediment source. High embeddedness noted, some active slumping banks.	733	Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX
riparian &/or instream surveys & physical features	TSS and turbidity were highest and most variable at lower Coal and the North Fork Coal Creek, and all of these sites carried more TSS than other sites.	201	Hauer, F. Richard ; Hill, Elizabeth (1997), Analysis of 1994-1996 Headwaters Monitoring Data: A Contribution to the Master Plan for Monitoring Water Quality in the Flathead Basin, FLBS Open File Report #140-97
riparian &/or instream surveys & physical features	McNeil coring values have shown that for NF Coal Creek from 1985-1997, only in 1988 and 1989 did the percent fines exceed the recommended level (35%). No clear trend in increasing or decreasing fines noted up to or after 1990.	1258	Delaray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2

**DATA MATRIX****Chemistry Data****Comments:****ASSESSMENT HISTORY****Cycle 2006**

This use attainment record has not been updated. Please refer to the TMDL document (<http://www.deq.mt.gov/wqinfo/TMDL/finalReports.asp>) for more recent information and status of this waterbody segment.

## Montana DEQ - Water Quality Standards Attainment Record

Notice Letter - Attachment C2

**Reporting Cycle:** 2016      **Assessment Record:** MT76Q002\_070.pdf      **Status:** Unassigned

**Cycle 2008**

Not assessed this cycle

**Cycle 2010**

Not assessed this cycle

**Cycle 2012**

Not assessed this cycle

**Cycle 2014**

Not assessed this cycle

**Cycle 2016**

Not assessed this cycle

**Reporting Cycle:** 2016      **Assessment Record:** MT76Q002\_070.pdf      **Status:** Unassigned

**Overall Condition of Segment**

Site Reach Name: Headwater to SF Coal Creek confluence Site Reach Condition: Moderate Impairment Comments: There has been a sharp, significant ( $P < 0.001$ ) decline in bull trout since 1990. There are indications of sedimentation problems in the watershed, primarily from silviculture and roads. Long-term sediment coring at a single site above fishery site showed no clear problems with fine sediment, however this site coverage is limited. Aquatic Life and Cold Water Fishery: There has been a sharp, significant ( $P < 0.001$ ) decline in bull trout since 1990. There are indications of sedimentation problems in the watershed, primarily from silviculture and roads. Long-term sediment coring at a single site above fishery site showed no clear problems with fine sediment, however this site coverage is limited.

Reporting Cycle: 2016

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## USE SUPPORT DECISION

Use Class B-1

Trophic Status:

Trophic Trend:

Uses	DQA	Method, Data, and Information Used	Assessment Type and Confidence	Use Support	Partial Flag	Use SupportThreatened Certainty
Aquatic Life			BIOLOGICAL-GOOD, HABITAT-GOOD, PHYSICAL/CHEMICAL-LOW	Not Fully Supporting	No	No
Agricultural				Not Assessed	No	No
Drinking Water				Not Assessed	No	No
Primary Contact Recreation				Not Assessed	No	No

## Method Number and Description

Reporting Cycle: 2016

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Status: Unassigned

**IMPAIRMENT INFORMATION**

Uses	Cause (Confidence): Source(Confirmed)	Observed Effects
Aquatic Life	84 (High):	
Agricultural		
Drinking Water		
Primary Contact Recreation		
Cause Number and Description	Source Number and Description	Observed Effect Number and Description
84-Alteration in stream-side or littoral vegetative covers		

**DELISTINGS**

Cause	Delisting Reason	Delisting Date
Sedimentation/Siltation	Applicable WQS attained; reason for recovery unspecified	12/31/2004

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

## CATEGORY INFORMATION

## Previous Cycle

<b>Cycle</b>	2014
<b>Category</b>	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
<b>User Defined Category</b>	N/A

## Current Cycle

<b>Cycle</b>	2016
<b>Category</b>	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
<b>User Defined Category</b>	N/A

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**ASSESSMENT UNIT INFORMATION**

<b>Reporting Cycle:</b>	2016	
<b>Assessment Unit:</b>	MT76Q002_070	
<b>Waterbody Name:</b>	Coal Creek	
<b>Location Description:</b>	COAL CREEK, headwaters to South Fork	
<b>Water Type:</b>	<b>Size (Miles/Acres)</b>	<b>Use Class:</b>
RIVER	10.4 MILES	B-1
<b>Hydrologic Unit Code:</b>	17010206	
<b>HUC Name:</b>	North Fork Flathead	
<b>Watershed:</b>	Pend Oreille	
<b>Basin:</b>	Columbia	
<b>TMDL Planning Area:</b>	Flathead Headwaters	
<b>Ecoregion:</b>	Canadian Rockies	
<b>County:</b>	FLATHEAD CO	
<b>Lat/Long AU Start (U/S):</b>	48.697896 / -114.541481	
<b>Lat/Long AU End (D/S):</b>	48.680481 / -114.345464	

**MONITORING INFORMATION**

**Date Assessment Started:** 11/26/1999  
**Assessed By:** Suplee, Mike

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

## CITATIONS

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Fraley, John J. ; Read, Don ; Graham, Patrick J. (1981), Flathead River Fisheries Study: April 1981	DEQ Metcalf Stacks	fish; macroinvertebrates		common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Read, Don ; Shepard, Bradley B. ; Graham, Patrick J. (1982), Fish and Habitat Inventory of Streams in the North Fork Drainage of the Flathead River	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	Rosgen type; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Shepard, Bradley B. ; Fraley, John J. ; Weaver, Thomas M. ; Graham, Patrick J. (1982), Flathead River Fisheries Study: 1982	DEQ Metcalf Stacks	fish		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data
Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a	DEQ Metcalf Stacks	fish; macroinvertebrates; wildlife		common ions, pH, conductivity, miscellaneous; quantitative physical data

## Montana DEQ - Water Quality Standards Attainment Record

Notice Letter - Attachment C2

Reporting Cycle: 2016

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Status: Unassigned

Citation	Location	Biological Data	Habitat Data	Chemistry Data
7-R-36 Job # I-a				data
Fraley, John J. ; May, Bruce ; Clancey, Patrick T. ; Beattie, Will (1987), Fisheries Evaluation Program for the Flathead Lake/River System and Hungry Horse and Libby Reservoirs	DEQ Metcalf Stacks	fish; macroinvertebrates		quantitative physical data
Hanzel, Delano A. ; Fraley, John J. ; Beattie, Will ; Weaver, Thomas M. ; Tohtz, Joel (1991), Statewide Fisheries Investigations: Survey and Inventory of Coldwater and Warmwater Ecosystems: Flathead Lake-River System Study, F-46-R-1, F-46-R-2, F-46-R-3, F-46-R-4 Job # V-a	DEQ Metcalf Stacks	fish; macroinvertebrates	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX	DEQ Metcalf Stacks	fish	Land use; riparian &/or instream surveys & physical features	quantitative physical data
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Weaver, Thomas M. ; Fraley, John J. (1991), Fisheries Habitat and Fish Populations	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	quantitative physical data

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Citation	Location	Biological Data	Habitat Data	Chemistry Data
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Montana Bull Trout Scientific Group (1995), Flathead River Drainage: Bull Trout Status Report (Including Flathead Lake, the North and Middle Forks of the Flathead River, and the Stillwater and Whitefish Rivers)	DEQ Metcalf Stacks	fish; macroinvertebrates	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous
Hauer, F. Richard ; Hill, Elizabeth (1997), Analysis of 1994-1996 Headwaters Monitoring Data: A Contribution to the Master Plan for Monitoring Water Quality in the Flathead Basin, FLBS Open File Report #140-97	DEQ Metcalf Stacks		riparian &/or instream surveys & physical features	major nutrients; quantitative physical data
Delaray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	metals; quantitative physical data
Flathead Basin Commission (1999), Flathead Basin Commission: Biennial Report 1997-1998	DEQ Metcalf Stacks	chlorophyll; fish; macroinvertebrates	Land use	common ions, pH, conductivity, miscellaneous; major nutrients; quantitative physical data
Montana Department of Fish, Wildlife, and Parks (2002), Montana Rivers Information System (MRIS): Montana Fisheries Information System (MFISH) - <a href="http://maps2.nris.mt.gov/scripts/esrimap.dll?name=M FISH&amp;Cmd=INST">http://maps2.nris.mt.gov/scripts/esrimap.dll?name=M FISH&amp;Cmd=INST</a>	Assessment Record	algae; fish; macroinvertebrates; wildlife	Land use; photo points; riparian &/or instream surveys & physical features	benthic sediment data; common ions, pH, conductivity, miscellaneous; quantitative physical data

# Montana DEQ - Water Quality Standards Attainment Record

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Citation	Location	Biological Data	Habitat Data	Chemistry Data
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**Comments:**

Reporting Cycle: 2016

Assessment Record: MT76Q002\_070.pdf

Status: Unassigned

**DATA MATRIX****Biological Data****Comments:****Headwater to SF Coal Cr confluence**

Data Type	Comments	Ref Num	Citation
fish	Westslope cutthroat and bull trout found.	1559	Domrose, Robert J. ; Anderson, Gary (1987), Northwest Montana Fisheries Investigations: Inventory of Waters of the Project Area, F-7-R-19, F-7-R-23, F-7-R-30, F-7-R-31, F-7-R-35, F-7-R-36 Job # I-a
fish	During this time period, no increasing or decreasing trend in redds counts (similar to population estimates for this time).	733	Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX
fish	Population estimates were fairly stable from 82-90 (No significant trend), after which there was a sharp decline throughout the period 1990-1998 (significant decline, $P < 0.001$ ) which has not yet improved.	1258	Delaray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2

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Status: Unassigned

**DATA MATRIX****Habitat Data****Comments:****Headwater to SF Coal Cr confluence**

Data Type	Comments	Ref Num	Citation
riparian &/or instream surveys & physical features	Upper reaches steep and stable. A clear cut was present with large amounts of slash on streambank. An old crossing was present extensive deposition and channel migration has occurred. Road on S side drains directly into channel creating a sediment source. High embeddedness noted, some active slumping banks.	733	Weaver, Thomas M. ; Fraley, John J. (1991), Coal Creek Fisheries Monitoring Studies and Forest-Wide Fisheries Monitoring 1985-1991, Study No. IV, V, VI, VII, VIII, IX
riparian &/or instream surveys & physical features	TSS and turbidity were highest and most variable at lower Coal and the North Fork Coal Creek, and all of these sites carried more TSS than other sites.	201	Hauer, F. Richard ; Hill, Elizabeth (1997), Analysis of 1994-1996 Headwaters Monitoring Data: A Contribution to the Master Plan for Monitoring Water Quality in the Flathead Basin, FLBS Open File Report #140-97
riparian &/or instream surveys & physical features	McNeil coring values have shown that for NF Coal Creek from 1985-1997, only in 1988 and 1989 did the percent fines exceed the recommended level (35%). No clear trend in increasing or decreasing fines noted up to or after 1990.	1258	Delaray, Mark ; Knotek, Ladd ; Rumsey, Scott ; Weaver, Thomas M. (1999), Flathead Lake and River System Fisheries Status Report, F-78-R-1 through F-78-R-5, Element 1, Project 1 & 2

**DATA MATRIX****Chemistry Data****Comments:****ASSESSMENT HISTORY****Cycle 2006**

This use attainment record has not been updated. Please refer to the TMDL document (<http://www.deq.mt.gov/wqinfo/TMDL/finalReports.asp>) for more recent information and status of this waterbody segment.

## Montana DEQ - Water Quality Standards Attainment Record

Notice Letter - Attachment C2

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**Cycle 2008**

Not assessed this cycle

**Cycle 2010**

Not assessed this cycle

**Cycle 2012**

Not assessed this cycle

**Cycle 2014**

Not assessed this cycle

**Cycle 2016**

Not assessed this cycle

**Reporting Cycle:** 2016      **Assessment Record:** MT76Q002\_070.pdf      **Status:** Unassigned

**Overall Condition of Segment**

Site Reach Name: Headwater to SF Coal Creek confluence Site Reach Condition: Moderate Impairment Comments: There has been a sharp, significant ( $P < 0.001$ ) decline in bull trout since 1990. There are indications of sedimentation problems in the watershed, primarily from silviculture and roads. Long-term sediment coring at a single site above fishery site showed no clear problems with fine sediment, however this site coverage is limited. Aquatic Life and Cold Water Fishery: There has been a sharp, significant ( $P < 0.001$ ) decline in bull trout since 1990. There are indications of sedimentation problems in the watershed, primarily from silviculture and roads. Long-term sediment coring at a single site above fishery site showed no clear problems with fine sediment, however this site coverage is limited.

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## USE SUPPORT DECISION

Use Class B-1

Trophic Status:

Trophic Trend:

Uses	DQA	Method, Data, and Information Used	Assessment Type and Confidence	Use Support	Partial Flag	Use SupportThreatened Certainty
Aquatic Life			BIOLOGICAL-GOOD, HABITAT-GOOD, PHYSICAL/CHEMICAL-LOW	Not Fully Supporting	No	No
Agricultural				Not Assessed	No	No
Drinking Water				Not Assessed	No	No
Primary Contact Recreation				Not Assessed	No	No

## Method Number and Description

Reporting Cycle: 2016

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Status: Unassigned

**IMPAIRMENT INFORMATION**

Uses	Cause (Confidence): Source(Confirmed)	Observed Effects
Aquatic Life	84 (High):	
Agricultural		
Drinking Water		
Primary Contact Recreation		
Cause Number and Description	Source Number and Description	Observed Effect Number and Description
84-Alteration in stream-side or littoral vegetative covers		

**DELISTINGS**

Cause	Delisting Reason	Delisting Date
Sedimentation/Siltation	Applicable WQS attained; reason for recovery unspecified	12/31/2004

Reporting Cycle: 2016

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## CATEGORY INFORMATION

## Previous Cycle

<b>Cycle</b>	2014
<b>Category</b>	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
<b>User Defined Category</b>	N/A

## Current Cycle

<b>Cycle</b>	2016
<b>Category</b>	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
<b>User Defined Category</b>	N/A