

## APPENDIX B – TABLE OF 2012 IMPAIRED WATERBODIES, IMPAIRED USES, AND IMPAIRMENT STATUS

This appendix consists of **Table B-1** that contains water use impairment information from the 2012 Montana Water Quality Integrated Report (DEQ 2012) on waterbodies in the Boulder-Elkhorn TMDL Planning Area.

**Table B-1. Status of Waterbody Impairments in the Boulder-Elkhorn TMDL Planning Area based on the 2012 Integrated Report**

Waterbody & Location Description	Waterbody ID	Impairment Cause	TMDL Pollutant Category	Impaired Use(s)	Impairment Cause Status
BASIN CREEK, headwaters to mouth (Boulder River)	MT41E002_030	Alteration in stream-side or littoral vegetative covers	Not a Pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life	Lead TMDL contained in this document
		Mercury	Metal	Agriculture, Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life	Zinc TMDL contained in this document
BIG LIMBER GULCH, headwaters to mouth (Cataract Creek-Boulder River)	MT41E002_140	Lead	Metal	Drinking Water	Not impaired based on updated assessment
		Mercury	Metal	Drinking Water	Not impaired based on updated assessment
BISON CREEK, headwaters to mouth (Boulder River)	MT41E002_070	Alteration in streamside or littoral vegetative covers	Not a Pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Copper	Metal	Aquatic Life	Copper TMDL contained in this document
		Iron	Metal	Aquatic Life	Iron TMDL contained in this document
		Nitrates	Nutrient	Aquatic Life	Addressed by TN TMDL in a separate document

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<b>Waterbody &amp; Location Description</b>	<b>Waterbody ID</b>	<b>Impairment Cause</b>	<b>TMDL Pollutant Category</b>	<b>Impaired Use(s)</b>	<b>Impairment Cause Status</b>
BOULDER RIVER, headwaters to Basin Creek	MT41E001_010	Cadmium	Metal	Aquatic Life	Not impaired based on updated assessment
		Copper	Metal	Aquatic Life	Copper TMDL contained in this document
		Iron	Metal	Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Lead	Metal	Aquatic Life	Lead TMDL contained in this document
		Zinc	Metal	Aquatic Life	Not impaired based on updated assessment
BOULDER RIVER, Basin Creek to Town of Boulder	MT41E001_021	Alteration in streamside or littoral vegetative covers	Not a Pollutant	Aquatic Life	Discussed in a separate document; not linked to a TMDL
		Cadmium	Metal	Aquatic Life	Cadmium TMDL contained in this document
		Copper	Metal	Aquatic Life	Copper TMDL contained in this document
		Iron	Metal	Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Lead	Metal	Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Silver	Metal	Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Zinc	Metal	Aquatic Life	Zinc TMDL contained in this document

**Table B-1. Status of Waterbody Impairments in the Boulder-Elkhorn TMDL Planning Area based on the 2012 Integrated Report**

<b>Waterbody &amp; Location Description</b>	<b>Waterbody ID</b>	<b>Impairment Cause</b>	<b>TMDL Pollutant Category</b>	<b>Impaired Use(s)</b>	<b>Impairment Cause Status</b>
BOULDER RIVER, Town of Boulder to Cottonwood Creek	MT41E001_022	Alteration in streamside or littoral vegetative covers	Not a Pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Copper	Metal	Agriculture, Aquatic Life	Copper TMDL contained in this document
		Iron	Metal	Agriculture, Aquatic Life	Iron TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Low Flow Alterations	Not a Pollutant	Aquatic Life, Primary Contact Recreation	Discussed in a separate document; not linked to a TMDL
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Silver	Metal	Agriculture, Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Temperature, water	Temperature	Aquatic Life	Temperature TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life	Zinc TMDL contained in this document

**Table B-1. Status of Waterbody Impairments in the Boulder-Elkhorn TMDL Planning Area based on the 2012 Integrated Report**

Waterbody & Location Description	Waterbody ID	Impairment Cause	TMDL Pollutant Category	Impaired Use(s)	Impairment Cause Status
BOULDER RIVER, Cottonwood Creek to the mouth (Jefferson Slough), T1N R3W S2	MT41E001_030	Alteration in streamside or littoral vegetative covers	Not a Pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Low Flow Alterations	Not a Pollutant	Aquatic Life, Primary Contact Recreation	Discussed in a separate document; not linked to a TMDL
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Temperature, water	Temperature	Aquatic Life	Temperature TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life	Zinc TMDL contained in this document

**Table B-1. Status of Waterbody Impairments in the Boulder-Elkhorn TMDL Planning Area based on the 2012 Integrated Report**

Waterbody & Location Description	Waterbody ID	Impairment Cause	TMDL Pollutant Category	Impaired Use(s)	Impairment Cause Status
CATARACT CREEK, headwaters to mouth (Boulder River)	MT41E002_020	Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life, Drinking Water	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Mercury	Metal	Agriculture, Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Nitrogen, Nitrate	Nutrient	Aquatic Life	No TMDL developed; updated 303(d) listing status pending
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life	Zinc TMDL contained in separate document

**Table B-1. Status of Waterbody Impairments in the Boulder-Elkhorn TMDL Planning Area based on the 2012 Integrated Report**

<b>Waterbody &amp; Location Description</b>	<b>Waterbody ID</b>	<b>Impairment Cause</b>	<b>TMDL Pollutant Category</b>	<b>Impaired Use(s)</b>	<b>Impairment Cause Status</b>
ELKHORN CREEK, headwaters to Wood Gulch	MT41E002_061	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Low Flow Alterations	Not a Pollutant	Aquatic Life, Primary Contact Recreation	Discussed in a separate document; not linked to a TMDL
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life, Drinking Water	Not impaired based on updated assessment

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Waterbody & Location Description	Waterbody ID	Impairment Cause	TMDL Pollutant Category	Impaired Use(s)	Impairment Cause Status
ELKHORN CREEK, Wood Gulch to the mouth (Unnamed Canal/Ditch), T5N R3W S21	MT41E002_062	Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life	Not impaired based on updated assessment
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Low Flow Alterations	Not a Pollutant	Aquatic Life, Primary Contact Recreation	Discussed in a separate document; not linked to a TMDL
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Zinc	Metal	Agriculture, Aquatic Life	Not impaired based on updated assessment

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Waterbody & Location Description	Waterbody ID	Impairment Cause	TMDL Pollutant Category	Impaired Use(s)	Impairment Cause Status
HIGH ORE CREEK, headwaters to mouth (Boulder River)	MT41E002_040	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life, Drinking Water	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Lead TMDL contained in this document
		Mercury	Metal	Agriculture, Aquatic Life, Drinking Water	Not impaired based on updated assessment
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Temperature, water	Temperature	Aquatic Life	Temperature TMDL contained in a separate document
		Total Suspended Solids (TSS)	Sediment	Aquatic Life	Addressed by sediment TMDL in a separate document
		Zinc	Metal	Agriculture, Aquatic Life, Drinking Water	Zinc TMDL contained in this document
LITTLE BOULDER RIVER, headwaters to mouth (Boulder River)	MT41E002_080	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Discussed in a separate document; not linked to a TMDL
		Cause Unknown	Not a pollutant	Primary Contact Recreation	Not Addressed
		Copper	Metal	Aquatic Life	Copper TMDL contained in this document
		Physical substrate habitat alterations	Not a Pollutant	Aquatic Life	Discussed in a separate document; not linked to a TMDL
		Zinc	Metal	Aquatic Life	Not impaired based on updated assessment



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LOWLAND CREEK, headwaters to mouth (Boulder River)	MT41E002_050	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Discussed in a separate document; not linked to a TMDL
		Aluminum	Metal	Aquatic Life	Aluminum TMDL contained in this document
		Copper	Metal	Aquatic Life	Copper TMDL contained in this document
		Physical substrate habitat alterations	Not a Pollutant	Aquatic Life	Discussed in a separate document; not linked to a TMDL
		Silver	Metal	Aquatic Life	Not impaired based on updated assessment
McCARTY CREEK, headwaters to mouth (Boulder River)	MT41E002_110	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by sediment TMDL in a separate document
		Fish-Passage Barrier	Not a pollutant	Aquatic Life	Not Addressed
		Low flow alterations	Not a pollutant	Aquatic Life, Primary Contact Recreation	Not Addressed
		Phosphorus (Total)	Nutrient	Aquatic Life	TP TMDL contained in a separate document
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
MUSKRAT CREEK, headwaters to mouth (Boulder River)	MT41E002_100	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by sediment TMDL in a separate document
		Copper	Metal	Aquatic Life	Not impaired based on updated assessment
		Lead	Metal	Aquatic Life, Drinking Water	Not impaired based on updated assessment
NORTH FORK LITTLE BOULDER RIVER, headwaters to mouth (Little Boulder)	MT41E002_090	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by sediment TMDL in a separate document
		Nitrogen (Total)	Nutrients	Aquatic Life	Not impaired based on updated assessment
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
NURSERY CREEK, headwaters (east branch) to mouth (Muskrat Creek)	MT41E002_130	Nitrate/Nitrite (Nitrite + Nitrate as N)	Nutrient	Aquatic Life	NO <sup>2</sup> +NO <sup>3</sup> TMDL contained in a separate document
		Nitrogen (Total)	Nutrient	Aquatic Life	TN TMDL contained in a separate document
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document

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UNCLE SAM GULCH, headwaters to mouth (Cataract Creek)	MT41E002_010	Alteration in streamside or littoral vegetative covers	Not a pollutant	Aquatic Life	Addressed by sediment TMDL in a separate document
		Arsenic	Metal	Agriculture, Aquatic Life, Drinking Water	Arsenic TMDL contained in this document
		Cadmium	Metal	Agriculture, Aquatic Life, Drinking Water	Cadmium TMDL contained in this document
		Copper	Metal	Agriculture, Aquatic Life, Drinking Water	Copper TMDL contained in this document
		Lead	Metal	Agriculture, Aquatic Life, Drinking Water	Addressed by lead TMDL
		Nitrogen, Nitrate	Nutrient	Aquatic Life	NO <sup>2</sup> +NO <sup>3</sup> TMDL contained in a separate document
		Other flow regime alterations	Not a pollutant	Aquatic Life	Not Addressed
		Sedimentation/Siltation	Sediment	Aquatic Life	Sediment TMDL contained in a separate document
		Turbidity	Sediment	Aquatic Life	Addressed by a sediment TMDL in a separate document
		Zinc	Metal	Agriculture, Aquatic Life, Drinking Water	Zinc TMDL contained in this document