

APPROVED TMDLS
Big Spring TMDL Planning Area

4 pollutant TMDLs completed
11 determinations that no pollutant TMDL is needed
3 pollutant TMDLs yet to be developed/studied

Waterbody Name*	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	WLA/ LA	Supporting Documentation (not an exhaustive list of supporting documents)
Big Spring Creek (MT41S004_010)*	Nutrients	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“Water Quality Assessment and TMDLs for the Big Spring Creek Planning Area ”
	Suspended Solids	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“
	PCB**	Fish tissue PCB concentrations <0.025 ppm Stream bottom sediment PCB concentrations <0.187 ppm	100% reduction in PCB loading. 79% reduction in stream bottom sediment concentrations.	Loading reductions allocated to Big Springs Trout Hatchery. Allocation alternatives to address PCB load in bottom sediments are currently under investigation.	“
Big Spring Creek (MT41S004_020)*	Nutrients	TN <0.500 mg/l TP <0.035 mg/l Chlorophyll a <100 mg/m ² summer mean and <150 mg/m ² summer max	Flow-based for phosphorous (e.g., 20.8 lbs/day at average summer flow of 110 cfs)	WLA = flow-based (e.g., 49% reduction at average summer flow of 110 cfs) LA = 0% reduction	“
	Siltation	Periphyton siltation index <25 % clinger taxa >50% % surface fines < 2mm <20%	Sum of the performance-based allocations	WLA = 0 LA = performance-based actions resulting in reducing eroding stream banks, reducing TSS loading by 60%, and providing flushing flow events below the dam.	“
	PCB	Fish tissue PCB concentrations <0.025 ppm Stream bottom sediment PCB concentrations <0.187 ppm	100% reduction in PCB loading. 79% reduction in stream bottom sediment concentrations.	Loading reductions allocated to Big Springs Trout Hatchery. Allocation alternatives to address PCB load in bottom sediments are currently under investigation.	“

Waterbody Name*	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	WLA/ LA	Supporting Documentation (not an exhaustive list of supporting documents)
Beaver Creek* (MT41S004-030)	Nutrients	Justification for no need of a nutrient TMDL. Narrative criteria for nutrients (nitrogen and phosphorus) currently met.			“
	Suspended Solids	Justification for no need of suspended solids TMDL. Narrative criteria for sediment currently met.			“
	Siltation	Justification for no need of suspended solids TMDL. Narrative criteria for sediment currently met.			“
Casino Creek (MT41S004_040)*	Nutrients	TN <0.500 mg/l TP <0.035 mg/l Chlorophyll a <100 mg/m ² summer mean and <150 mg/m ² summer max	Not completed. Insufficient data.	Not completed. Insufficient data.	“
	Suspended Solids	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“
Upper Cottonwood Creek (MT41S004_051)*	Nutrients	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“
	Suspended Solids	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“
	Dissolved Oxygen	This pollutant was removed from Montana’s 303(d) list as a probable cause of impairment in 2002. No TMDL necessary.			“
Lower Cottonwood Creek (MT41S004_052)*	Nutrients	<30% streambed coverage of filamentous algae Chlorophyll a <100 mg/m ² summer mean and <150 mg/m ² summer max	Not completed. Insufficient data.	Not completed. Insufficient data.	“
	Suspended Solids	Justification for no need of suspended solids TMDL. Narrative criteria for sediment currently met.			“
	Siltation	Justification for no need of suspended solids TMDL. Narrative criteria for sediment currently met.			“
	Dissolved Oxygen	> 4mg/l	Not completed. Insufficient data.	Not completed. Insufficient data.	“

* An asterisk indicates the water body has been included on the State's Section 303(d) list of water bodies in need of TMDLs.

**Water body was not previously listed for this pollutant. This pollutant was added as a cause of impairment on Montana’s 2004 303(d) list.