

**Errata to the Big Wood River Watershed Management Plan (aka TMDL) of 2002
September 2011**

The Idaho Department of Environmental Quality is making corrections to calculation errors to four tables that appear in the final EPA approved TMDL (May 15, 2002). The calculation errors were a result of not using the correct design flow capacity for three wastewater treatment facilities (WWTP). The errors did not come to light until NPDES draft permit reissuance for the City of Hailey. The City of Ketchum and the Meadows WWTP are also affected. DEQ and EPA recognized the errors and DEQ has made the corrections to Tables H, page xviii; Table XX, page 64; Table HHH, page 76; and Table PPP, page 89.

The cfu/day wasteload allocations for E. coli in Tables H, XX, HHH and PPP are based on achieving the E. coli criteria of 126 cfu/100 ml (30 day geometric mean) at the point of discharge, i.e., “end of pipe.” Both the cfu/day load and achieving the E. coli criteria as an end of pipe concentration limit are part of the wasteload allocation, and both limits should be incorporated when updating NPDES permits for City of Hailey, City of Ketchum, and Meadows WWTPs.

The original TMDL calculated the percent reduction for the Big Wood River reach BWR-2 based on the existing E. coli instream concentration, which is 419 cfu/100 ml (see Table XX). Therefore the TMDL reduction does not change and the reduction remains the same at 69.9%.

The new tables as part of the errata dated September, 2011 are to be utilized for NPDES permitting purposes for E. coli.

Table H. Mainstem Big Wood River *E. coli* L.C. calculations (Sept. 2011)

Unit	Stream and WQLS No.	LC cfu ⁹	WLAs cfu ⁹	LAs cfu ⁹	10% Natural Background cfu ⁹	10% MOS cfu ⁹
1	BWR – 1	270.2	0.0	216.1	27.0	27.0
2	BWR-2-NPS	819.62	0.0	650.26	84.68	84.68
	BWR-2-Hailey	0.0	19.07	0.0	0.0	0.0
	BWR-2-Ketchum	0.0	7.64	0.0	0.0	0.0
	BWR-2-Meadows	0.0	0.48	0.0	0.0	0.0
	BWR – 2 - TOTAL	846.81	27.19	650.26	84.68	84.68
3	BWR – 3	1,369.4	0.0	1,095.5	136.9	136.9
4	BWR – 4	1,434.7	0.0	1,147.7	143.5	143.5
5	BWR – 5	1,063.5	0.0	850.8	106.3	106.3
6	BWR – 6	112.8	0.0	90.2	11.3	11.3
7	BWR – 7	1,542.5	0.0	1,234.0	154.3	154.3
8	BWR – 8	1,617.7	0.0	1,294.1	161.8	161.8

Prepared by IDEQ-TFRO. TP = Total phosphorus. WQLS = Water quality limited stream. L.C. = Load Capacity = TMDL = WLA + LA + Natural Background + MOS. WLAs = Wasteload allocations for point sources. LAs = Load allocations for nonpoint sources. MOS = Margin of safety. Hwt = Headwaters. Ck = Creek. t/yr = tons/year. The WLAs in Unit 2 represents three (3) point source wastewater treatment facilities – The Meadows, City of Hailey, and City of Ketchum. NPS = Nonpoint source.

Table XX. Mainstem Big Wood River *E. coli* loading capacities per unit (Sept. 2011)

Unit	Segment Boundary	WQLS No.	Annual Mean Flow cfs	<i>E. coli</i> (WLA + LA)	
				TARGET cfu/100 mL	NEW LC cfu ⁹
1	BWR – 1	NA	87.7	126	270.2
2	BWR – 2 – NPS	2483	266.05	126	819.6
	BWR – 2 – Hailey		6.19*	126	19.1
	BWR – 2 – Ketchum		2.48*	126	7.6
	BWR – 2 – Meadows		0.155*	126	0.5
	BWR – 2 - TOTAL		274.875	126	846.8
3	BWR – 3	2482	444.5	126	1,369.4
4	BWR – 4	NA	465.7	126	1,434.7
5	BWR – 5	2478	345.2	126	1,063.5
6	BWR – 6	2477	36.6	126	112.8
7	BWR – 7	2476	500.7	126	1,542.5
8	BWR – 8	NA	525.1	126	1,617.7

Prepared by IDEQ-TFRO. *E. coli* LC (cfu⁹/day) = Flow (cfs) x Target (cfu/100 mL) x 0.02445. cfu⁹ is cfu X 100. BWR = Big Wood River. WQLS = Water quality limited stream. LC = loading capacity. * Design flows were converted from million gallon/day to cfs. Hailey 4.0 mgd = 6.19 cfs; Ketchum 1.6 mgd = 2.48 cfs; Meadows 0.1 mgd = 0.155cfs

Table HHH. Mainstem Big Wood River *E. coli* TMDL and allocations (Sept. 2011)

Unit	Segment Boundary	WQLS No.	TMDL cfu ⁹	WLAs cfu ⁹	LAs cfu ⁹	Nat Bk 10% cfu ⁹	MOS 10% cfu ⁹	% Red
1	BWR – 1	NA	270.2	0.0	216.1	27.0	27.0	0.0
2	BWR – 2	NPS	819.62	-	650.26	84.68	84.68	69.9
		Hailey	19.07	19.07	-	-	-	
		Ketchum	7.64	7.64	-	-	-	
		Meadows	0.48	0.48	-	-	-	
		2483 - Total	846.81	27.19	650.26	84.68	84.68	
3	BWR – 3	2482	1,369.4	0.0	1,095.5	136.9	136.9	0.0
4	BWR – 4	NA	1,434.7	0.0	1,147.7	143.5	143.5	22.2
5	BWR – 5	2478	1,063.5	0.0	850.8	106.3	106.3	0.0
6	BWR – 6	2477	112.8	0.0	90.2	11.3	11.3	0.0
7	BWR – 7	2476	1,542.5	0.0	1,234.0	154.3	154.3	0.0
8	BWR – 8	NA	1,617.7	0.0	1,294.1	161.8	161.8	0.0

Prepared by IDEQ-TFRO. *E. coli* LC (cfu⁹/day) = Flow (cfs) x Target (cfu/100 mL) x 0.02445. cfu⁹ is cfu X 100. 10% Natural Background and 10% MOS were initially taken from *E. coli* TMDL value. % Reduction based on *E. coli* mean concentration values to reach instream target. WQLS = Water quality limited stream. WLA = Wasteload allocations. LAs = Load allocations. Nat Bk = Natural background. MOS = Margin of safety. Red = Reduction.

Table PPP. Mainstem Big Wood River Detailed *E. coli* TMDL and allocations (Sept. 2011)

Un	Segment Boundaries	WQLS No.	Source by Land Ownership	% Land Owned	Type	WLA/LAs cfu ⁹
1	Headwaters to Trail Creek	NA	USFS	82.7%	LA	178.7
			BLM	5.0%	LA	10.8
			IDL	0.0%	LA	0.0
			Private	12.2%	LA	26.7
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	27.0
			10% MOS	-	MOS	27.0
			TOTAL	-	-	270.2
2	Trail Creek to Glendale Diversion	2483	USFS	0.0%	LA	0.0
			BLM	16.6%	LA	107.9
			IDL	1.9%	LA	12.39
			Private	81.5%	LA	529.96
			Hailey	-	WLA	19.07
			Ketchum	-	WLA	7.64
			The Meadows	-	WLA	0.48
			10% Nat Bk	-	Nat Bk	84.68
			10% MOS	-	MOS	84.68
TOTAL	-	-	846.81			
3	Glendale Diversion to Base Line	2482	USFS	0.0%	LA	0.0
			BLM	4.5%	LA	49.4
			IDL	0.0%	LA	0.0

			Private	95.5%	LA	1,046.2
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	136.9
			10% MOS	-	MOS	136.9
			TOTAL	-	-	1,369.4
4	Base Line to Magic Reservoir	NA	USFS	0.0%	LA	0.0
			BLM	27.3%	LA	313.3
			IDL	5.4%	LA	62.0
			Private + Water	67.3%	LA	772.4
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	143.5
			10% MOS	-	MOS	143.5
			TOTAL	-	-	1,434.7
5	Magic Reservoir to Highway 75	2478	USFS	0.0%	LA	0.0
			BLM	83.9%	LA	713.9
			IDL	0.6%	LA	5.1
			Private + Water	15.4%	LA	131.9
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	106.3
			10% MOS	-	MOS	106.3
			TOTAL	-	-	1,063.5
6	Highway 75 to Little Wood River	2477	USFS	0.0%	LA	0.0
			BLM	44.9%	LA	40.5
			IDL	4.3%	LA	3.9
			Private + Water	50.8%	LA	45.8
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	11.3
			10% MOS	-	MOS	11.3
			TOTAL	-	-	112.8
7	Little Wood River to Interstate 84	2476	USFS	0.0%	LA	0.0
			BLM	20.4%	LA	251.7
			IDL	0.0%	LA	0.0
			Private	79.6%	LA	982.2
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	154.3
			10% MOS	-	MOS	154.3
			TOTAL	-	-	1,542.5
8	Interstate 84 to Snake River	NA	USFS	0.0%	LA	0.0
			BLM	7.0%	LA	90.6
			IDL	6.3%	LA	81.5
			Private + Water	86.7%	LA	1,122.0
			WLAs	-	WLA	0.0
			10% Nat Bk	-	Nat Bk	161.8
			10% MOS	-	MOS	161.8
			TOTAL	-	-	1,617.7

Prepared by IDEQ-TFRO. Type refers to the type of allocation: LA = Load allocation for nonpoint sources; WLA = wasteload allocation for point sources; Nat Bk = natural background, and MOS = margin of safety.