

## Summary Sheet

### Total Maximum Daily Load (TMDL)

#### 1. 303(d) Listed Waterbody Information

State: Kentucky

County: Rockcastle

Major River Basin: Upper Cumberland River

8-Digit HUC: 05130102

GNIS #: Brush Creek = 510966\_00

Crooked Creek = 511648\_00

Waterbody	River Mile	Listing Year	Use Impairment(s)	Pollutant
Brush Creek	1.1 – 7.5	1998	Primary contact recreation	Pathogens
Crooked Creek	1.0 – 6.4	1998	Primary contact recreation	Pathogens

#### 2. TMDL Target (numerical/narrative target):

The TMDL target is the Kentucky water quality criterion for Primary Contact Recreation of 240 cfu/100 ml *Escherichia coli* (*E. coli*) as stated in 401 KAR 5:031 Section 7(1)(a).

#### 3. Pollutant Allocations:

##### Brush Creek

Site Name	Critical Flow Condition	Load (BoC/day) <sup>1</sup>	TMDL Target Load	WLA		LA		MOS	
				(BoC/day)	% Reduction	(BoC/day)	% Reduction	(BoC/day)	% of TMDL
TMDL01BC Lower Brush Creek	36%	105.86	16.17	0.00 <sup>2</sup>	0.0%	14.55	85%	1.62	10.0
TMDL02BC Upper Brush Creek	65%	21.85	2.95	0.00 <sup>2</sup>	0.0%	2.65	88%	0.3	10.0

<sup>1</sup> Billions of colonies per day

<sup>2</sup> Any future permitted point source must meet permit limits based on the Water Quality Standards in 401 KAR 5:031, and must not cause or contribute to an existing impairment.

**Crooked Creek**

Site Name	Critical Flow Condition	Existing Load (BoC/day) <sup>1</sup>	TMDL Target Load (BoC/day) <sup>1</sup>	WLA		LA		MOS	
				(BoC/day) <sup>1</sup>	% Reduction	(BoC/day) <sup>1</sup>	% Reduction	(BoC/day) <sup>1</sup>	% of TMDL
TMDL01CC Lower Crooked Cr.	36.5%	416.31	41.62	0.00 <sup>2</sup>	0.0%	37.46	91%	4.16	10%
TMDL02CC Lower Middle Crooked Cr.	46.9%	75.71	19.73	0.00 <sup>2</sup>	0.0%	17.76	** <sup>3</sup>	1.97	10%
TMDL03CC Upper Middle Crooked Cr.	8.0%	465.17	136.81	0.00 <sup>2</sup>	0.0%	123.13	** <sup>3</sup>	13.68	10%
TMDL04CC Upper Crooked Cr.	51.0%	11.60	9.04	0.00 <sup>2</sup>	0.0%	8.14	** <sup>3</sup>	0.90	10%
TMDL05CC UT to Crooked Cr. Below TMDL02CC	38.6%	71.29	5.52	0.00 <sup>2</sup>	0.0%	4.97	93%	0.55	10%

<sup>1</sup> Billions of colonies per day

<sup>2</sup> Any future permitted point source must meet permit limits based on the Water Quality Standards in 401 KAR 5:031, and must not cause or contribute to an existing impairment.

<sup>3</sup> Less than 10% of the samples collected violated the WQC, therefore no load reduction was calculated.

4. Endangered Species (yes or no):

No

5. TMDL Proposal Date:

08/31/2006

6. TMDL Impacted by Point Source, Nonpoint Source, or both:

Nonpoint Source only

7. Major KPDES Discharges to Surface Waters:

None