

Table S5. Concentrations of fecal bacterial indicators and *Bacteroidales* MST markers along the Chaudanne River.

Sampling site	Compartment	Fecal indicators (log ₁₀ CFU / 100 mL or g)				MST markers (log ₁₀ copy number / 100mL or g)							
		<i>E. coli</i>	SD	TTC ^c	SD	Total <i>Bacteroidales</i>	SD	Human marker	SD	Ruminant marker	SD	Pig marker	SD
1 Mix Ag/Ur	SW	2.8	2.0	2.8	2.2	6.4	5.8	5.2	-	3.8	3.5	<LOD	-
	BS	2.3	1.6	2.6	2.0	6.8	6.6	<LOD	-	<LOD	-	4.0	3.6
	HS	<LOD ^a	-	0.5	0.8	3.9	3.6	<LOD	-	<LOD	-	<LOD	-
2 Mix Ag/Ur	SW	2.3	2.2	2.4	2.4	6.3	5.7	3.5	3.3	3.7	3.6	<LOD	-
	BS	1.0	1.0	1.7	1.1	6.1	5.5	<LOD	-	<LOD	-	4.0	3.5
	HS	2.8	1.5	2.9	1.6	6.8	6.2	<LOD	-	<LOD	-	<LOD	-
3 Mix Ag/Ur	SW	2.1	2.1	2.1	2.1	6.3	6.0	3.6	3.2	3.5	2.9	<LOD	-
	BS	0.8	0.7	1.6	1.0	5.6	5.4	<LOD	-	<LOD	-	<LOD	-
	HS	0.8	1.1	1.7	1.6	4.8	3.9	<LOD	-	<LOD	-	<LOD	-
4 Mix Ag/Ur	SW	2.4	2.1	2.5	2.2	6.5	6.2	3.5	3.3	3.7	3.5	<LOD	-
	BS	0.8	1.0	1.9	1.6	6.0	5.4	<LOD	-	<LOD	-	<LOD	-
	HS	0.5	0.8	0.8	0.8	4.9	4.4	<LOD	-	<LOD	-	<LOD	-
5 Mix Ag/Ur	SW	2.8	2.2	2.9	2.3	7.0	6.5	3.8	3.8	3.7	3.3	<LOD	-
	BS	1.3	1.0	1.7	1.2	6.0	5.6	<LOD	-	4.8	4.4	<LOD	-
	HS	0.5	0.8	0.8	0.8	5.4	4.9	<LOD	-	<LOD	-	<LOD	-
6 Ag	SW	<LOD	-	<LOD	-	6.3	5.9	4.7	4.0	4.3	3.9	<LOD	-
	BS	1.5	1.6	2.2	1.6	6.7	5.9	<LOD	-	5.4	5.2	<LOD	-
	HS	0.8	1.1	0.8	1.1	4.6	4.0	<LOD	-	<LOD	-	4.0	3.6
7 Ag	SW	1.5	1.8	1.5	1.8	6.6	6.1	<LOD	-	4.7	4.4	<LOD	-
	BS	<LOD	-	0.8	0.8	6.0	5.6	<LOD	-	4.8	4.5	<LOD	-
	HS	<LOD	-	<LOD	-	3.7	3.4	<LOD	-	<LOD	-	3.1	2.0
8 Ag	SW	2.0	2.2	2.0	2.2	6.7	5.9	<LOD	-	5.4	5.0	<LOD	-
	BS	0.8	0.8	1.4	0.8	6.1	5.0	<LOD	-	5.1	5.0	<LOD	-
	HS	0.5	0.8	1.2	1.2	5.1	4.7	<LOD	-	<LOD	-	3.6	3.3
8' Ag	SW	2.5	2.2	2.6	2.3	7.2	6.5	<LOD	-	5.8	5.1	<LOD	-
	BS	<LOD	-	<LOD	-	<LOD	-	<LOD	-	<LOD	-	<LOD	-
	HS	NA ^b	NA	NA	NA	<LOD	-	<LOD	-	<LOD	-	<LOD	-
9 Ag	SW	2.3	2.3	2.3	2.3	4.5	4.1	<LOD	-	3.6	3.1	<LOD	-
	SB	4.4	3.5	4.5	3.5	8.1	7.5	<LOD	-	6.5	6.0	<LOD	-
	SH	<LOD	-	<LOD	-	5.4	4.9	<LOD	-	4.6	4.1	<LOD	-
10 (Source)	SW	1.5	1.8	1.5	1.8	5.2	4.5	<LOD	-	3.4	2.7	<LOD	-
	BS	1.4	1.2	1.6	1.2	6.6	6.2	<LOD	-	4.9	4.6	<LOD	-
	HS	1.1	1.1	1.1	1.1	4.0	3.9	<LOD	-	<LOD	-	<LOD	-

10'	SW	<LOD	-	1.5	1.8	5.2	-	<LOD	-	<LOD	-	<LOD	-
Ag	BS	0.8	0.7	1.5	1.0	6.3	5.6	<LOD	-	<LOD	-	<LOD	-
	HS	NA	NA	NA	NA	<LOD	-	<LOD	-	<LOD	-	<LOD	-

SW: Surface water; BS: benthic sediment; HS: hyporheic sediment. ^a: LOD: limit of detection; ^b: NA: not analyzed, ^c TTC: total thermotolorent coliforms. Mix Ag/Ur indicates mix agriculture/urban background, Ag indicates agriculture background