

Table S1: Choptank Water/Sediment Characteristics at Start of Study; Supporting Information

Parameter	Choptank Aerobic		Choptank Anaerobic	
	Water	Sediment	Water	Sediment
% sand/silt/clay	---	96/2/2		98/1/1
PH		---	7.2	---
Total Organic Carbon (mg/L)	171.4	---	---	----
O ₂ Concentration (mg O ₂ /L)	4.5	---	0.1	---
Redox Potential (mv)	+178.3	+100.6	-163.6	-172.7
Organic Carbon %	---	0.2	---	1.5
Cation Exchange Capacity	---		---	
Microbial Biomass (µg/g)	---	92	---	194

Table S2: Turkey Creek Water/Sediment Characterization at Start of Study; Supporting Information

Parameter	Turkey Creek Aerobic		Turkey Creek Anaerobic	
	Water	Sediment	Water	Sediment
% sand/silt/clay	---	34/34/32	---	40/30/30
PH	6.5	6.3	7.9	6.7
Total Organic Carbon (mg/L)	138.0	---	32.5	---
O ₂ Concentration (mg O ₂ /L)	5.5	---	0.2	---
Redox Potential (mv)	+165.6	+103.7	-138.5	-208.7
Organic Carbon %	---	7.8	---	7.7
Cation Exchange Capacity	---		---	
Microbial Biomass (µg/g)	---	278	---	71

Table S4: Physical-chemical, fate and effects studies recommended in Phase II Tier A

Study Type	Recommended Protocol
Adsorption-Desorption Using a Batch Equilibrium Method	OECD 106
Ready Biodegradability Test	OECD 301
Aerobic and Anaerobic Transformation in Aquatic Sediment Systems	OECD 308
Algae, Growth Inhibition	OECD 201
Daphnia sp. Reproduction Test	OECD 211
Fish, Early Life Stage Toxicity Test	OECD 210
Activated Sludge, Respiration Inhibition Test	OECD 209

Guideline on the Environmental Risk Assessment of Medicinal Products for Human Use, June 2006.

Figure S1: Schematic of Aerobic Biotransformation Test Apparatus; Supporting Information

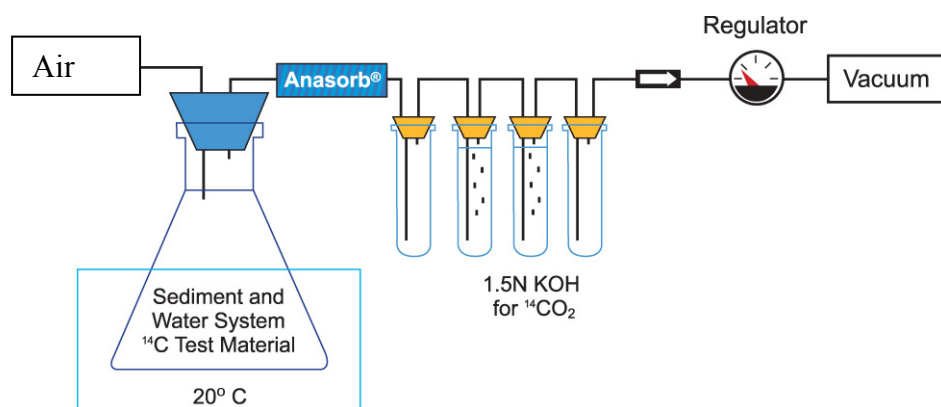


Figure S2: Schematic of Anaerobic Mineralization Test Apparatus; Supporting Information

