

WHY EARTHLITE™ STORMWATER FILTER MEDIA?

- ✓ Suitable for use in most stormwater treatment applications!
- ✓ Replacement media for existing stormwater filter systems.
- ✓ Easily applied to new stormwater design work.

LIFE EXPECTANCY / BREAKTHROUGH

Roof Runoff Filter Lifetime for >50% Removal

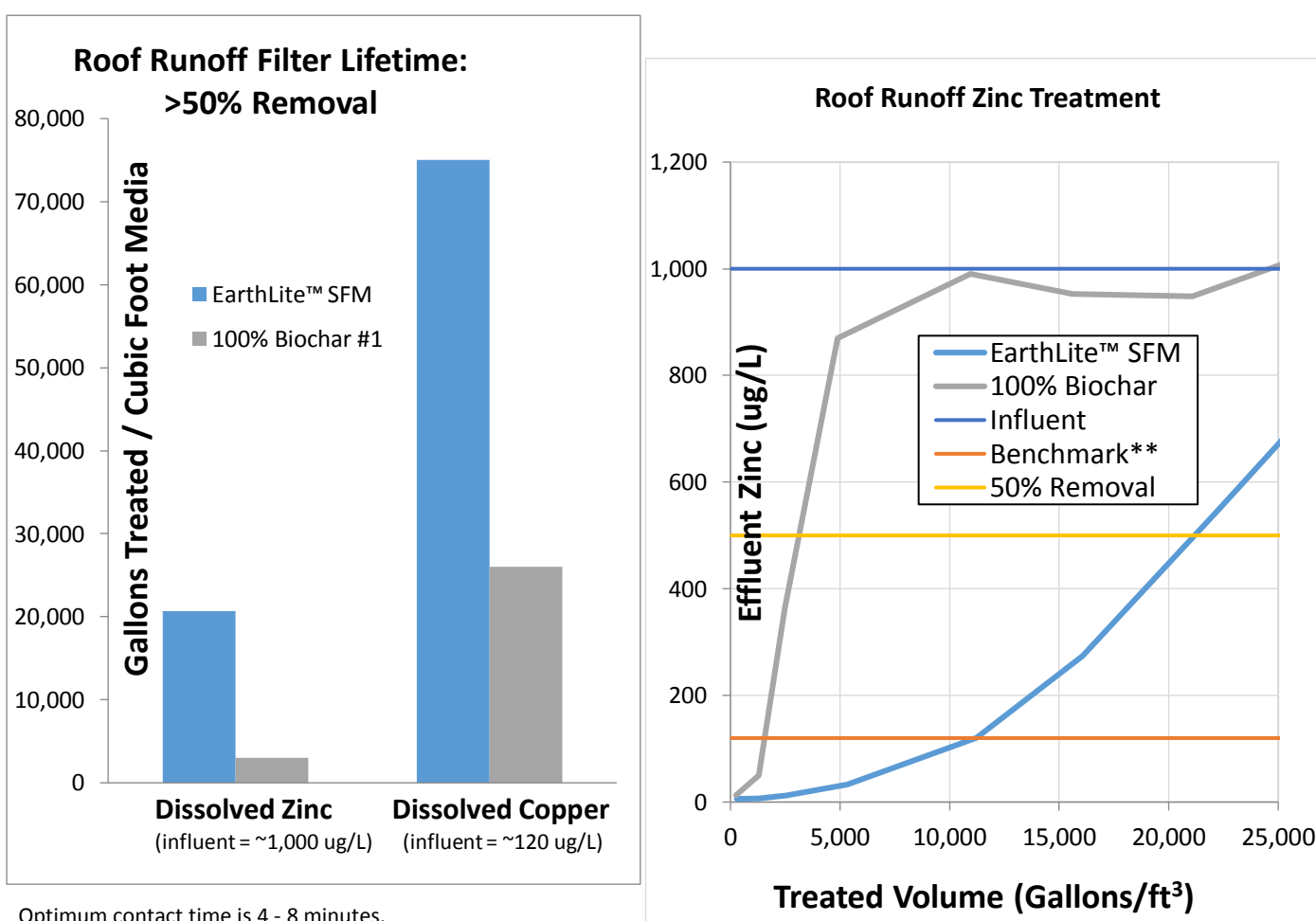
Media	Dissolved Zinc (influent = ~1,000 ug/L)				Dissolved Copper (influent = ~120 ug/L)			
	Filter Volumes	Gallons/ft ³	ROOF Size*		Filter Volumes	Gallons/ft ³	ROOF Size*	
			5,000 ft ²	10,000 ft ²			5,000 ft ²	10,000 ft ²
EarthLite™ SFM	2,770	20,721	3.3 yrs	1.7 yrs	>10,000	>75,000	12 yrs	6 yrs
100% Biochar	405	3,030	0.5 yrs	0.24 yrs	3,480	26,032	4.2 yrs	2.1 yrs

Roof Runoff Filter Lifetime for 120 ug/L Zinc & 20 ug/L Copper

Media	Filter Volumes	Gallons/ft ³	Zinc Lifetime	Copper Lifetime	Zinc Lifetime	Gallons/ft ³	Copper Lifetime
EarthLite™ SMF	1,500	11,221	1.8 yrs	0.9 yrs	>10,000	>75,000	12 yrs / 6 yrs
100% Biochar	207	1,548	0.25 yrs	0.12 yrs	2,550	19,075	3 yrs / 1.53 yrs

*Changeout time assumes 36" annual rainfall with 100% runoff and a 1.5 safety factor.

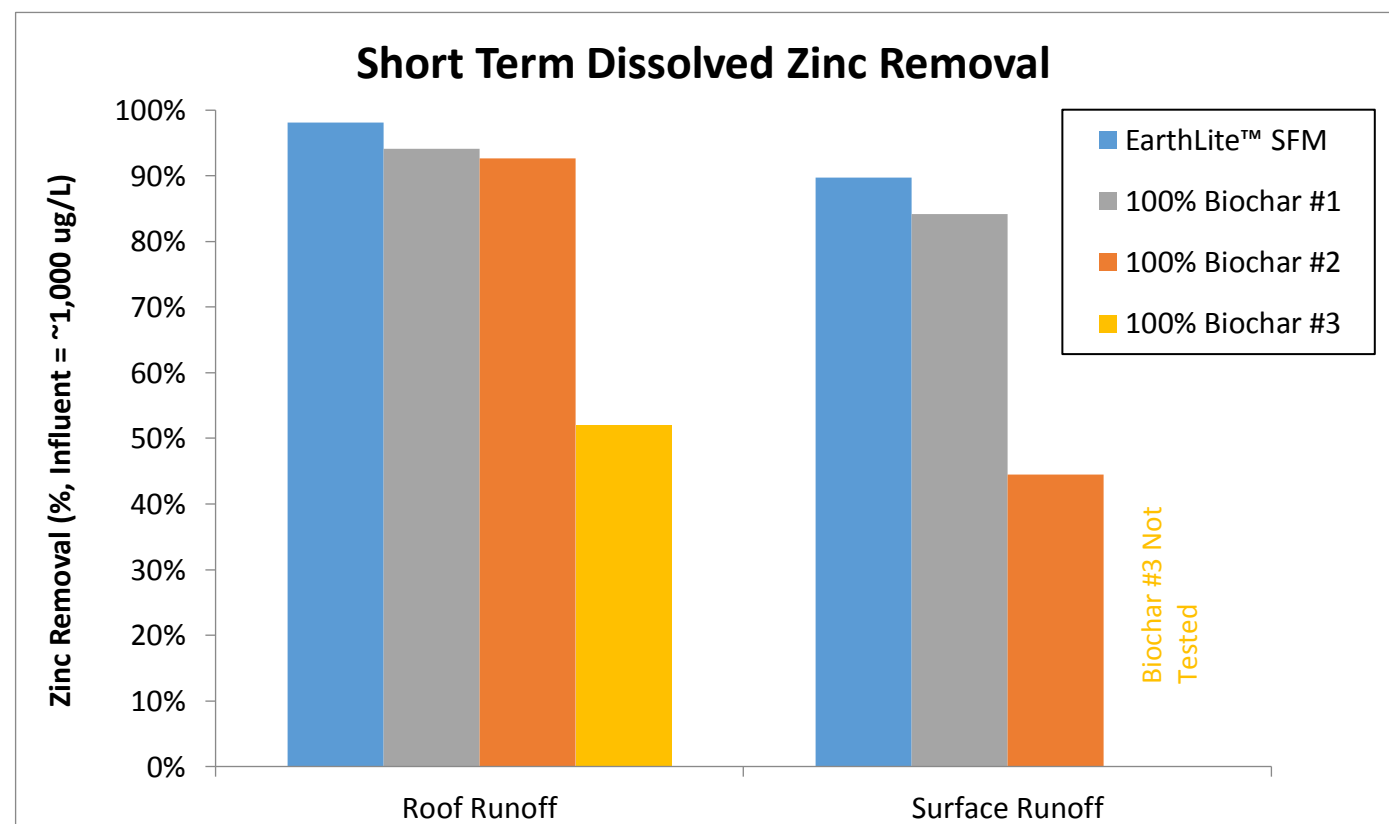
Actual Stormwater used, gathered from an industrial building roof and then spiked with 100% Dissolved Zinc & Copper to generate Influent Numbers shown.



Optimum contact time is 4 - 8 minutes.

**BENCHMARK: Estimates for Zinc and Copper Oregon 1200-Z benchmarks of 120 ug/L and 20 ug/L respectively

NOT ALL BIOCHARS WORK THE SAME



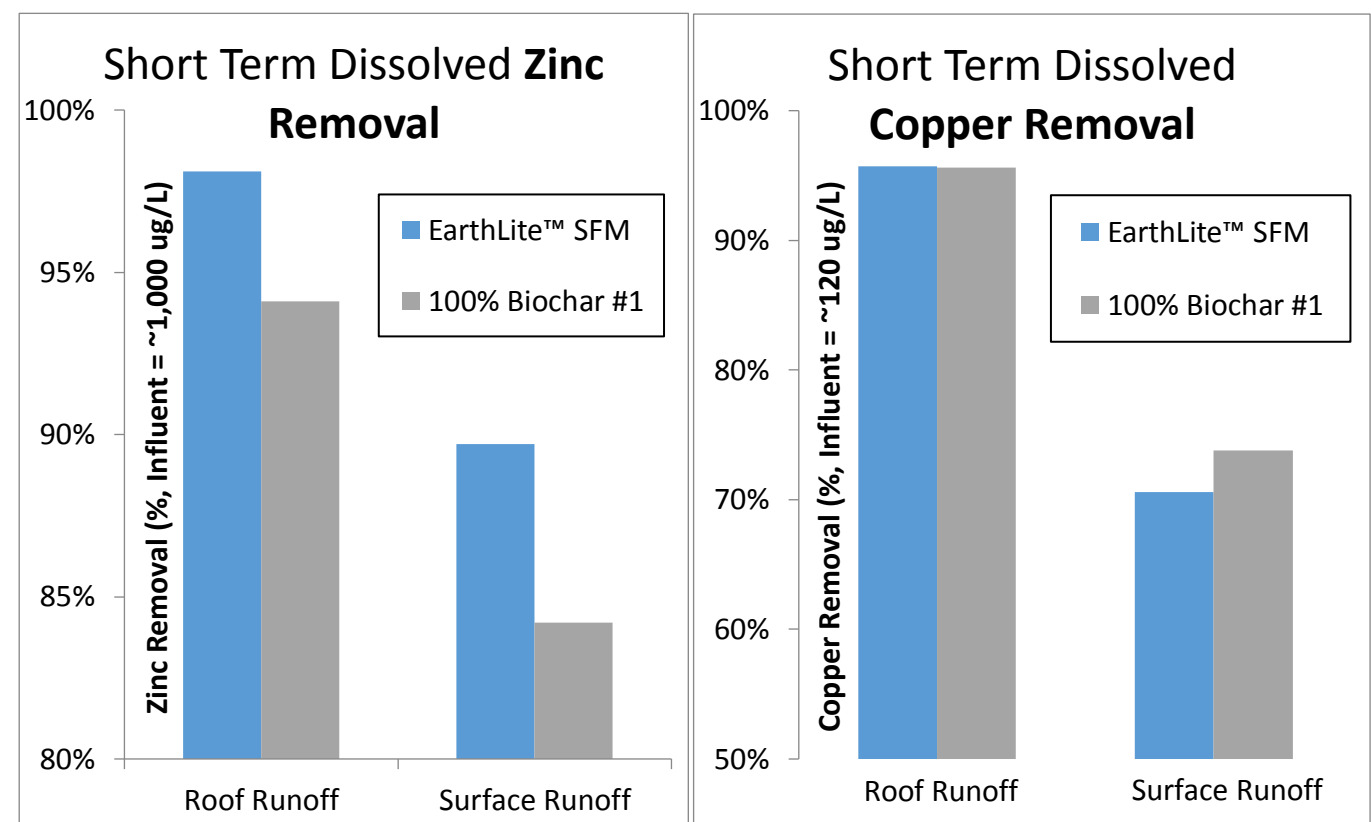
Research by Oregon State University Department of Crop and Soil Science Faculty Research Assistant Myles Gray under the Supervision of Markus Kleber, Associate Professor, Soil and Environmental Geochemistry August 2015



Clean Water...It's Worth It!

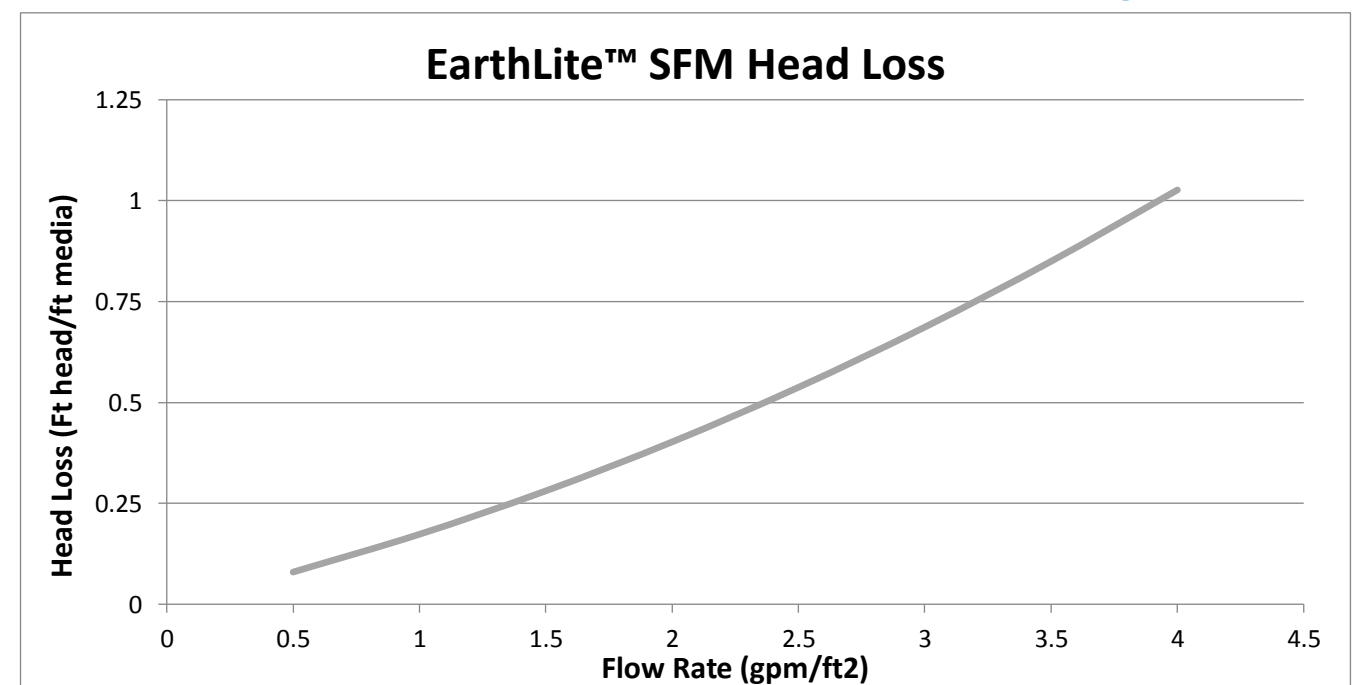


ROOF & SURFACE REMOVAL RATES

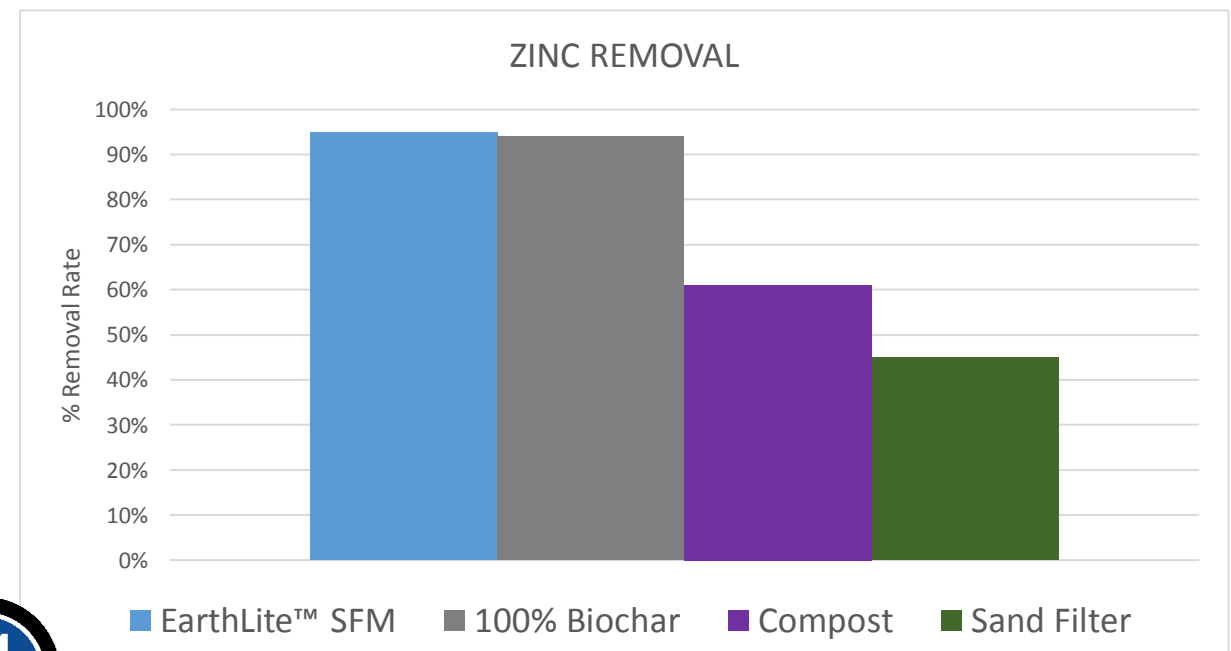


Recommended flow rate is 1 to 4 gpm/ft².

FLOW RATE



LET'S COMPARE



An Affordable Stormwater Filter Media

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