IMPROVE Filter Archives

Opportunity and Responsibility

Scott Copeland

IMPROVE Steering Committee

10/18/2023

Gustin 2012
Valley Fever 2014
Sarah Anderson 2014
Jay Turner 2014
Amy Sullivan 2015 (111 filters)
Betsy Stone 2016
Albert Presto 2019
Christine Wiedinmyer 2020
Scott Van Pelt 2021
Elena Gomez Alvarez 2022
Fierer – Microbes in smoke. 2022
Michelle L. Hladik, Pesticides 2023
Elizabeth Clare/Joanne Littlefair 2023

Journal of Geophysical Research: Atmospheres

Limited Evidence for Microbial Transport in Smoke Plumes

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	A	B	C	D	E	F	G	H	I	J	K	GV	GW	GX	GY
1	Lab ID	Project	Site	Position	Filter ID	Module	Medium	QC type	Sample date	Quantity	Units	adate (NOA-404617)	Thiamethoxam Degradate (NOA-407475)	Thiobencarb	Tolfenpyrad
2	LS7632	Yellowstone Filters 2023	BOLA1	1	1938905	D	Teflon Filter	Environmental	1/5/2022	1	filter				
3	LS7633	Yellowstone Filters 2023	BOLA1	2	1938906	D	Teflon Filter	Environmental	1/8/2022	1	filter				
4	LS7634	Yellowstone Filters 2023	BOLA1	3	1938909	D	Teflon Filter	Environmental	1/17/2022	1	filter				
5	LS7635	Yellowstone Filters 2023	BOLA1	4	1938911	D	Teflon Filter	Environmental	1/23/2022	1	filter				
6	LS7636	Yellowstone Filters 2023	BOLA1	5	1943148	D	Teflon Filter	Environmental	1/26/2022	1	filter				
7	LS7637	Yellowstone Filters 2023	BOLA1	6	1957425	D	Teflon Filter	Environmental	4/2/2022	1	filter				
8	LS7638	Yellowstone Filters 2023	BOLA1	7	1957427	D	Teflon Filter	Environmental	4/8/2022	1	filter				
9	LS7639	Yellowstone Filters 2023	BOLA1	8	1962209	D	Teflon Filter	Environmental	4/26/2022	1	filter				
10	LS7640	Yellowstone Filters 2023	BOLA1	9	1966382	D	Teflon Filter	Environmental	5/11/2022	1	filter				
11	LS7641	Yellowstone Filters 2023	BOLA1	10	1970810	D	Teflon Filter	Environmental	6/19/2022	1	filter				
12	LS7642	Yellowstone Filters 2023	BOLA1	11	1979966	D	Teflon Filter	Environmental	7/19/2022	1	filter		1.3		
13	LS7643	Yellowstone Filters 2023	BOLA1	12	1979970	D	Teflon Filter	Environmental	7/31/2022	1	filter				
14	LS7644	Yellowstone Filters 2023	BOLA1	13	1984839	D	Teflon Filter	Environmental	8/3/2023	1	filter				
15	LS7645	Yellowstone Filters 2023	BOLA1	14	1989036	D	Teflon Filter	Environmental	9/5/2022	1	filter				
16	LS7646	Yellowstone Filters 2023	BOLA1	15	1989037	D	Teflon Filter	Environmental	9/8/2022	1	filter				
17	LS7647	Yellowstone Filters 2023	BOLA1	16	1957404	A	Teflon Filter	Environmental	4/2/2022	1	filter				
18	LS7648	Yellowstone Filters 2023	BOLA1	17	1957406	A	Teflon Filter	Environmental	4/8/2022	1	filter				
19	LS7649	Yellowstone Filters 2023	BOLA1	18	1962187	A	Teflon Filter	Environmental	4/26/2022	1	filter				
20	LS7650	Yellowstone Filters 2023	BOLA1	19	1966361	A	Teflon Filter	Environmental	5/11/2022	1	filter				
21	LS7651	Yellowstone Filters 2023	BOLA1	20	1970788	A	Teflon Filter	Environmental	6/19/2022	1	filter				
22															
23		Concentrations are reported in ng/filter													
24		Limit of detection is ~ 0.5 ng/filter													
25															

Opportunities to do better?

Activities that require a vote of the Steering Committee include, but are not limited to:

- Distribution of 10 or more filters and/or extracts from the 110 IMPROVE sites to third parties for additional analyses. These analyses may or may not be destructive. Approval for more than 10 filters from protocol sites requires approval from the site sponsor.