

## TEST REPORT

**DATE: 12-10-2024**
**Page 1 of 3**
**TEST NUMBER: 0313343**

<b>CLIENT</b>	Guardian Innovations, LLC
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<b>TEST METHOD CONDUCTED</b>	EPA Method 1633 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS
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DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	Guardian Biobased TPE Infill
<b>LOT NUMBER</b>	Batch: 2275664

### GENERAL PRINCIPLE

Specimens are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by LC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or extracted internal standard quantification using isotopically labeled compounds added to the samples before extraction.

### TEST RESULTS

<b>Sample ID</b>		<b>Guardian Biobased TPE Infill</b>			
<b>Sampling Date</b>		<b>12/02/2024 1:08 pm</b>			
<b>Matrix</b>		<b>Solid</b>			
<b>Dilution Factor</b>		<b>1</b>			
<b>Units</b>		<b>ng/kg</b>			
<b>Prep Level</b>		<b>Cryogenic Grinding</b>			
LCMS - 1633	CAS#	Result	Q	Abbreviation	PQL
HFPODA	13252-13-6	ND	U	HFPO-DA	40
Perfluorotetradecanoic acid	376-06-7	ND	U	PFMPA	40
Perfluoro-3-methoxypropanoic acid	377-73-1	ND	U	PFAS	40
8:2 Fluorotelomer sulfonic acid	39108-34-4	ND	U	8:2FTS	40
NEtFOSA	4151-50-2	ND	U	NEtFOSA	40
Perfluorononanesulfonic acid	68259-12-1	ND	U	PFNS	40
Perfluorotridecanoic acid	72629-94-8	ND	U	PFTriA	40
Perfluorooctanesulfonamide	754-91-6	ND	U	FOSA	40
9CI-PF3ONS	756426-58-1	ND	U	9CI-PF3ONS	160
4:2 Fluorotelomer sulfonic acid	757124-72-4	ND	U	4:2FTS	40
11CI-PF3OUdS	763051-92-9	ND	U	11CI-PF3OUdS	160
Perfluorododecanesulfonic acid	79780-39-5	ND	U	PFDoS	40
Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	U	PFIB	40
7:3 FTCA	812-70-4	ND	U	7:3FTCA	1000
Perfluoro(4-methoxybutanoic acid)	863090-89-5	ND	U	PFMBA	40
5:3 FTCA	914637-49-3	ND	U	5:3FTCA	1000

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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Guardian Biobased TPE Infill
LOT NUMBER	Batch: 2275664

LCMS - 1633	CAS#	Result	Q	Abbreviation	PQL
Perfluoro-4-ethylcyclohexanesulfonic acid	133201-07-7	ND	U	PFECHS	40
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	U	NFDHA	40
Perfluorooctanesulfonic acid	1763-23-1	ND	U	PFOS	40
Perfluoroundecanoic acid	2058-94-8	ND	U	PFUnA	40
NMeFOSAA	2355-31-9	ND	U	NMeFOSAA	40
NMeFOSE	24448-09-7	ND	U	NMeFOSA	40
Perfluoropentanoic acid	2706-90-3	ND	U	PFPeA	40
Perfluoropentanesulfonic acid	2706-91-4	ND	U	PFPeS	40
6:2 Fluorotelomer sulfonic acid	27619-97-2	ND	U	6:2FTS	40
NEtFOSAA	2991-50-6	ND	U	NEtFOSAA	40
Perfluorohexanoic acid	307-24-4	ND	U	PFHxA	40
Perfluorododecanoic acid	307-55-1	ND	U	PFDoA	40
NMeFOSA	31506-32-8	ND	U	NMeFOSA	40
Perfluorooctanoic acid	335-67-1	ND	U	PFOA	40
Perfluorodecanoic acid	335-76-2	ND	U	PFDA	40
Perfluorodecanesulfonic acid	335-77-3	ND	U	PFDS	40
Perfluorohexanesulfonic acid	355-46-4	ND	U	PFHxS	40
3:3 FTCA	356-02-5	ND	U	3:3FTCA	200
Perfluorobutanoic acid	375-22-4	ND	U	PFBA	40
Perfluorobutanesulfonic acid	375-73-5	ND	U	PFBS	40
Perfluoroheptanoic acid	375-85-9	ND	U	PFHpA	40
Perfluoroheptanesulfonic acid	375-92-8	ND	U	PFHps	40
Perfluorononanoic acid	375-95-1	ND	U	PFNA	40
4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	ND	U	ADONA	40

1 : LCS/LCSD RPD exceeds control limits.

B : Compound was found in the blank and sample.

I : Value is EMPC (estimated maximum possible concentration).

J : Result is less than the PQL but greater than or equal to the MDL and the concentration value.

U : Indicates the analyte was analyzed for but not detected.

**Bold indicates detected result.**

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2410334-02 TURF GN 4090 [Solid] Sampled 12/2/2024 1:08 PM

1633-40 Compounds 40 Compounds

313343

### Sample Receipt Log

Default Cooler

Samples Received at: 20.0° C

Were Custody Seals present and signed?	Yes	Container/preservative correct for test requested?	Yes
Received on Ice	No	Sufficient amount sent for tests requested?	Yes
Within proper temp	Yes	Required containers sealed in separate bags?	Yes
Were all T0-15 samples received at ambient?	Yes	Were all samples inspected and sampled correctly?	Yes
Was a chain of custody received?	Yes	Were bubbles absent in volatile samples?	NA
COCs complete/signed in the appropriate places?	Yes	Sufficient remaining holding time for analyses?	Yes
Were all samples listed on COC received?	Yes	If Applicable pH documented for necessary samples?	No
Did all samples/container labels agree with COCs?	Yes	If applicable, was the chlorine test negative?	No
Did all containers arrive in good condition?	Yes	If applicable, samples free of oxidizers?	No
Containers Intact	Yes	Thermometer # : 10003954 used?	NA

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A handwritten signature in black ink, appearing to read 'Lee Phillips', is written over a horizontal red line.

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