

State Reporting Limits for regulated PFAS molecules					Black Earth	
State:	MA	MA	NH		April 2021	
	(S-1, GW-1)*	(S-1, GW-2, GW-3)*	Direct Human Contact Limits		Compost Duplicate 1 **	Compost Duplicate 2 **
CAS#	ng/kg	ng/kg	ng/kg		ng/kg	ng/kg
PFHpA	375-85-9	500	300,000	-	270	270
PFOA	335-67-1	720	300,000	200,000	450	450
PFDA	335-76-2	300	300,000	-	170	200
PFOS	1763-23-1	2000	300,000	100,000	130	nd
PFHxS	355-46-4	300	300,000	100,000	nd	nd
PFNA	375-91-1	320	300,000	100,000	nd	nd

\*Refer to MA state regulations 310 CMR 40 for definitions of S-1, GW-1, GW-2, GW-3. However in summary... Both (S-1, GW-1) and (S-1, GW-2, GW-3) refer to soils used for agricultural purposes and/or in direct contact with children. The difference is GW-1 refers to those soils that sit over groundwater that is defined by the state as a current or potential drinking water source. GW-2 and GW-3 refer to soils that sit over all other groundwater types.

\*\*Note results are for 100% compost. Therefore concentrations decrease significantly when mixed with your soil. Based on these results, we recommend our compost for use on all soils regardless of groundwater status. Follow recommended application rates



# Analytical Laboratory Report

Lab Sample ID: S22700.01

Sample Tag: Compost 1 BEC

Collected Date/Time: 03/29/2021 00:01

Matrix: Soil

COC Reference: 129432

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.3	IR
1	250ml Plastic	None	Yes	4.3	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	8.60/6.76/10	ASTM D7968-17M	04/01/21 14:15	KCV	

### Inorganics

Method: SM2540B, Run Date: 03/30/21 19:20, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	61	1		%	1		

### Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 04/01/21 22:36, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	1,700	180		ng/kg	8.91	375-22-4	I
PFPeA*	1,600	89		ng/kg	8.91	2706-90-3	I
4:2 FTSA*	Not detected	89		ng/kg	8.91	757124-72-4	I
PFHxA*	11,000	89		ng/kg	8.91	307-24-4	I
PFBS*	Not detected	89		ng/kg	8.91	375-73-5	
PFHpA*	270	89		ng/kg	8.91	375-85-9	I
PFPeS*	Not detected	89		ng/kg	8.91	2706-91-4	
6:2 FTSA*	Not detected	89		ng/kg	8.91	27619-97-2	I
PFOA*	450	89		ng/kg	8.91	335-67-1	
PFHxS*	Not detected	89		ng/kg	8.91	355-46-4	
PFHxS-LN*	Not detected	89		ng/kg	8.91	355-46-4-LN	
PFHxS-BR*	Not detected	89		ng/kg	8.91	355-46-4-BR	
PFNA*	Not detected	89		ng/kg	8.91	375-95-1	
8:2 FTSA*	Not detected	89		ng/kg	8.91	39108-34-4	I
PFHpS*	Not detected	89		ng/kg	8.91	375-92-8	
PFDA*	170	89		ng/kg	8.91	335-76-2	
N-MeFOSAA*	Not detected	89		ng/kg	8.91	2355-31-9	
EtFOSAA*	Not detected	89		ng/kg	8.91	2991-50-6	
PFOS*	130	89		ng/kg	8.91	1763-23-1	
PFOS-LN*	Not detected	89		ng/kg	8.91	1763-23-1-LN	
PFOS-BR*	Not detected	89		ng/kg	8.91	1763-23-1-BR	
PFUnDA*	Not detected	89		ng/kg	8.91	2058-94-8	I
PFNS*	Not detected	89		ng/kg	8.91	68259-12-1	
PFDODA*	Not detected	89		ng/kg	8.91	307-55-1	
PFDS*	Not detected	89		ng/kg	8.91	335-77-3	
PFTTrDA*	Not detected	89		ng/kg	8.91	72629-94-8	
FOSA*	Not detected	89		ng/kg	8.91	754-91-6	
PFTeDA*	Not detected	89		ng/kg	8.91	376-06-7	
11Cl-PF3OUdS*	Not detected	89		ng/kg	8.91	763051-92-9	
9Cl-PF3ONS*	Not detected	89		ng/kg	8.91	756426-58-1	

I-Matrix interference with internal standard



# Analytical Laboratory Report

Lab Sample ID: S22700.01 (continued)

Sample Tag: Compost 1 BEC

28 PFAs, Method: ASTM D7968-17M, Run Date: 04/01/21 22:36, Analyst: KCV (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
ADONA*	Not detected	89		ng/kg	8.91	919005-14-4	
HFPO-DA*	Not detected	89		ng/kg	8.91	13252-13-6	I

I-Matrix interference with internal standard



# Analytical Laboratory Report

Lab Sample ID: S22700.02

Sample Tag: Compost 2 BEC

Collected Date/Time: 03/29/2021 00:01

Matrix: Soil

COC Reference: 129432

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.3	IR
1	250ml Plastic	None	Yes	4.3	IR

### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	7.96/6.70/10	ASTM D7968-17M	04/01/21 14:15	KCV	

### Inorganics

Method: SM2540B, Run Date: 03/30/21 19:20, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	53	1		%	1		

### Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 04/01/21 22:55, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	2,000	300		ng/kg	15	375-22-4	I
PFPeA*	1,800	150		ng/kg	15	2706-90-3	I
4:2 FTSA*	Not detected	150		ng/kg	15	757124-72-4	I
PFHxA*	10,000	150		ng/kg	15	307-24-4	I
PFBS*	Not detected	150		ng/kg	15	375-73-5	
PFHpA*	270	150		ng/kg	15	375-85-9	
PFPeS*	Not detected	150		ng/kg	15	2706-91-4	
6:2 FTSA*	Not detected	150		ng/kg	15	27619-97-2	I
PFOA*	450	150		ng/kg	15	335-67-1	
PFHxS*	Not detected	150		ng/kg	15	355-46-4	
PFHxS-LN*	Not detected	150		ng/kg	15	355-46-4-LN	
PFHxS-BR*	Not detected	150		ng/kg	15	355-46-4-BR	
PFNA*	Not detected	150		ng/kg	15	375-95-1	
8:2 FTSA*	Not detected	150		ng/kg	15	39108-34-4	I
PFHpS*	Not detected	150		ng/kg	15	375-92-8	
PFDA*	200	150		ng/kg	15	335-76-2	
N-MeFOSAA*	Not detected	150		ng/kg	15	2355-31-9	I
EtFOSAA*	Not detected	150		ng/kg	15	2991-50-6	I
PFOS*	Not detected	150		ng/kg	15	1763-23-1	
PFOS-LN*	Not detected	150		ng/kg	15	1763-23-1-LN	
PFOS-BR*	Not detected	150		ng/kg	15	1763-23-1-BR	
PFUnDA*	Not detected	150		ng/kg	15	2058-94-8	
PFNS*	Not detected	150		ng/kg	15	68259-12-1	
PFDODA*	Not detected	150		ng/kg	15	307-55-1	
PFDS*	Not detected	150		ng/kg	15	335-77-3	
PFTTrDA*	Not detected	150		ng/kg	15	72629-94-8	
FOSA*	Not detected	150		ng/kg	15	754-91-6	
PFTeDA*	Not detected	150		ng/kg	15	376-06-7	
11Cl-PF3OUdS*	Not detected	150		ng/kg	15	763051-92-9	
9Cl-PF3ONS*	Not detected	150		ng/kg	15	756426-58-1	

I-Matrix interference with internal standard



# Analytical Laboratory Report

Lab Sample ID: S22700.02 (continued)

Sample Tag: Compost 2 BEC

28 PFAs, Method: ASTM D7968-17M, Run Date: 04/01/21 22:55, Analyst: KCV (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
ADONA*	Not detected	150		ng/kg	15	919005-14-4	
HFPO-DA*	Not detected	150		ng/kg	15	13252-13-6	