

Tuesday, March 29, 2022

Fibertec Project Number: A07483
Project Identification: 22C0535 /22C0535
Submittal Date: 03/17/2022

Mr. Tim Brewer
Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444

Dear Mr. Brewer,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

Percent Solids for sample -001 were reported at 5.9%.

Biosolids

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



By Sue Ricketts at 12:24 PM, Mar 29, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Client Identification:	Trace Analytical Laboratories, Inc.	Sample Description:	22C0535-07	Chain of Custody:	N7A
Client Project Name:	22C0535	Sample No:		Collect Date:	03/15/22
Client Project No:	22C0535	Sample Matrix:	Biosolids	Collect Time:	12:00

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

PFAS Aliquot ID: A07483-001 Matrix: Biosolids
Method: ASTM D7968-17a Description: 22C0535-07

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. ADONA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 2. 9CI-PF3ONS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 3. 11CI-PF3OUdS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 4. N-EIFOSAA	9.7		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 5. FIS 4:2	U	EIS+	µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 6. FIS 6:2	U	EIS+	µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 7. FIS 8:2	U	EIS+	µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 8. HFPO-DA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 9. N-MeFOSAA	18		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 10. PFBA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 11. PFBS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 12. PFDA	5.2		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 13. PFDoA	3.6		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 14. PFDS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 15. PFHpA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 16. PFHpS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 17. PFHxA	2.6		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 18. PFHxS-Total	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 19. PFNA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 20. PFNS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 21. PFOA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 22. PFOSA	2.3		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 23. PFOS-Total	9.3		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 24. PFPeA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 25. PFPeS	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 26. PFTeA	2.0		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 27. PFTrIA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG
‡ 28. PFUnA	U		µg/kg	2.0	1.0	03/21/22	PS22C21G	03/23/22	SM22C23B	SKG

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Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
*: Value reported is outside QC limits

Exception Summary:

EIS+ : The Isotope Dilution/Extracted Internal Standard area exceeds the upper control limit.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-19-8 (TX)

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SUBCONTRACT ORDER

22C0535

SENDING LABORATORY:

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444
Phone: 231.773.5998

RECEIVING LABORATORY:

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842
Phone : (517) 699-0345

Project Manager: Tim Brewer

Note Our New Email address: TraceSubOut@trace-labs.com

PO # 22C0535

Sample ID: Biosolids Tank 22C0535-07

Matrix: Solid

Sampled: 03/15/22 12:00 TAT: Standard

Sampled By: Trace-PR

Analysis Needed:

PFAS- Biosolids- EGLE List

5.9%

Karla Blake
Released By

3/15/22
Date

Received By

Date

Released By

Date

Received By

Date