Fibertec
environmental
services

Wednesday, July 07, 2021

Fibertec Project Number:	A01344 Amended
Project Identification:	Biosolids - PFAS Monitoring /
Submittal Date:	04/20/2021

Mr. Richard Lee Kane
Delta Charter Township - Utility Dept.
7000 West Willow
Lansing, MI 48917

Dear Mr. Kane,

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.

This report was amended to include all PFAS compounds and update the matrix to biosolid, it replaces the report sent 5/14/2021.

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 Jacob Sutherlund at 10:29 AM, Jul 07, 2021

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	**Delta Charter Township - Utility Dept.**	Sample Description:	**BS- 21E- PFAs**	Chain of Custody:	**198354**
Client Project Name:	**Biosolids - PFAS Monitoring**	Sample No:		Collect Date:	**04/20/21**
Client Project No:	**NA**	Sample Matrix:	**Biosolids**	Collect Time:	**08:45**

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: A01344-001** **Matrix: Biosolids**
Method: ASTM D7968-17a **Description: BS- 21E- PFAs**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. ADONA	U	ISC+	µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 2. 9Cl-PF3ONS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 3. 11Cl-PF3OUdS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 4. N-EtFOSAA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 5. FtS 4:2	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 6. FtS 6:2	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 7. FtS 8:2	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 8. HFPO-DA	U	C-	µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 9. N-MeFOSAA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 10. PFBA	U	EIS-	µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 11. PFBS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 12. PFDA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 13. PFDoA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 14. PFDS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 15. PFHpA	U		µg/kg	2.0	1.0	04/30/21	PS21D30E	05/03/21	SM21E03A	SKG
‡ 16. PFHpS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 17. PFHxA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 18. PFHxS-Total	U		µg/kg	2.0	1.0	04/30/21	PS21D30E	05/03/21	SM21E03A	SKG
‡ 19. PFNA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 20. PFNS	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 21. PFOA	U		µg/kg	2.0	1.0	04/30/21	PS21D30E	05/03/21	SM21E03A	SKG
‡ 22. PFOSA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 23. PFOS-Total	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 24. PFPeA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 25. PFPeS	U		µg/kg	2.0	1.0	04/30/21	PS21D30E	05/03/21	SM21E03A	SKG
‡ 26. PFTeA	U	ISC+	µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 27. PFTriA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG
‡ 28. PFUnA	U		µg/kg	2.0	2.0	05/05/21	PS21D30E	05/04/21	SM21E04A	SKG

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:

C- : Recovery in the Reporting Limit Check Sample (RLCS) exceeds the lower control limit. Results may be biased low.
EIS- : The Isotope Dilution/Extracted Internal Standard area exceeds the lower control limit.
ISC+ : Recovery in the associated Instrument Sensitivity Check (ISC) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.

NELAP ACCREDITED TNI LABORATORY

Accreditation Number(s):

T104704518-19-8 (TX)