



Friday, August 27, 2021

Fibertec Project Number: A03382
Project Identification: 76597 /76597
Submittal Date: 08/13/2021

Ms. Deb Hoffner
Brighton Analytical, Inc.
2105 Pless Drive
Brighton, MI 48114

Dear Ms. Hoffner,

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.

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,

A handwritten signature in black ink that reads "Sue Ricketts". The signature is fluid and cursive.

By Sue Ricketts at 11:00 AM, Aug 27, 2021

For Daryl P. Strandbergh
Laboratory Director

Enclosures

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Client Identification:	Brighton Analytical, Inc.	Sample Description:	CP03271	Chain of Custody:	N/A
Client Project Name:	76597	Sample No:		Collect Date:	08/12/21
Client Project No:	76597	Sample Matrix:	Wastewater	Collect Time:	10:05

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: A03382-001		Matrix: Wastewater			
Method: ASTM D7979-17						Description: CP03271					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1. N-EtFOSAA	62		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 2. FtS 4:2	U	EIS+	ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 3. FtS 6:2	U	EIS+	ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 4. FtS 8:2	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 5. N-MeFOSAA	160		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 6. PFBA	840		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 7. PFBS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 8. PFDA	15		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 9. PFDoA	14		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 10. PFDS	12		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 11. PFHpA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 12. PFHpS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 13. PFHxA	30		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 14. PFHxS-Total	23		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 15. PFNA	14		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 16. PFNS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 17. PFOA	31		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 18. PFOSA	14		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 19. PFOS-Total	170		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 20. PFPeA	75		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 21. PFPeS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 22. PFTeA	U		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 23. PFTriA	U		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 24. PFUnA	12		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	

Client Identification:	Brighton Analytical, Inc.	Sample Description:	CP03272	Chain of Custody:	N/A
Client Project Name:	76597	Sample No:		Collect Date:	08/12/21
Client Project No:	76597	Sample Matrix:	Wastewater	Collect Time:	10:09

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: A03382-002		Matrix: Wastewater			
Method: ASTM D7979-17						Description: CP03272					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
‡ 1. N-EtFOSAA	40		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 2. FtS 4:2	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 3. FtS 6:2	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 4. FtS 8:2	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 5. N-MeFOSAA	23		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 6. PFBA	16		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 7. PFBS	15		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 8. PFDA	31		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 9. PFDoA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 10. PFDS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 11. PFHpA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 12. PFHpS	31		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 13. PFHxA	40		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 14. PFHxS-Total	U		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 15. PFNA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 16. PFNS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 17. PFOA	51		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 18. PFOSA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 19. PFOS-Total	160		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 20. PFPeA	31		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 21. PFPeS	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 22. PFTeA	U		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 23. PFTrIA	U		ng/L	20	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	
‡ 24. PFUnA	U		ng/L	10	1.0	08/19/21	PS21H19G	08/19/21	SM21H18A	SKG	

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Analytical Laboratory Report
Laboratory Project Number: A03382
Laboratory Sample Number: A03382-003

Order: A03382
Page: 4 of 5
Date: 08/27/21

Client Identification:	Brighton Analytical, Inc.	Sample Description:	CP03273	Chain of Custody:	N/A
Client Project Name:	76597	Sample No:		Collect Date:	08/12/21
Client Project No:	76597	Sample Matrix:	Biosolids	Collect Time:	09:55

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: A03382-003		Matrix: Biosolids			
Method: ASTM D7968-17a						Description: CP03273					
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	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 2. 9CI-PF3ONS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 3. 11CI-PF3OUdS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 4. N-EtFOSAA	23		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 5. FtS 4:2	U	EIS+	µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 6. FtS 6:2	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 7. FtS 8:2	2.2		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 8. HFPO-DA	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 9. N-MeFOSAA	33		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 10. PFBA	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 11. PFBS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 12. PFDA	20		µg/kg	4.8	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 13. PFDoA	7.6		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 14. PFDS	4.2		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 15. PFHpA	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 16. PFHpS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 17. PFHxA	2.9		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 18. PFHxS-Total	5.2		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 19. PFNA	6.3		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 20. PFNS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 21. PFOA	18		µg/kg	4.8	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 22. PFOSA	11		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 23. PFOS-Total	120		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 24. PFPeA	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 25. PFPeS	U		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 26. PFTeA	U		µg/kg	4.8	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 27. PFTriA	2.2		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	SKG	
‡ 28. PFUnA	6.2		µg/kg	2.0	1.0	08/25/21	PS21H25F	08/25/21	SM21H24A	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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 Brighton Analytical, L.L.C.™ 2105 Pless Drive Brighton, MI 48114 Phone: 810-229-7575 Fax: 810-229-8650 email: bai-brighton@sbcglobal.net		BA PROJECT #: 76557		Analysis Requested/Method		PAGE: ____ OF ____ COMPANY INFO: Carlos Rodriguez E. Tawas WWT 410 W. Franklin 48730 PHONE: 772 201 6567 SEND: EMAIL: Carlos Rodriguez@brighton.com For Laboratory Use Only:	
COMPANY NAME E. Tawas WWT		ABBREVIATIONS FOR SAMPLE MATRIX S = Solid L = Liquid DW = Drinking H ₂ O WW = Wastewater O = Oil P = Wipe A = Air (Tedlar Bag) F = Filter T = Tube GW = Groundwater SW = Surface Water M = Misc.		Sample Matrix D7979 D7966 PFA/PFO PFA/PFO		For Laboratory Use Only:	
PROJECT NAME (48 SPACES MAXIMUM)		Container Type & Quantity		Sample received within holding time? yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Temperature of samples °C: Once pH verified in login? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> Headspace/bubbles in VOAS? yes <input type="checkbox"/> no <input type="checkbox"/> n/a <input checked="" type="checkbox"/> Sample containers and COC match? yes <input type="checkbox"/> no <input checked="" type="checkbox"/>		Sample received within holding time? yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Temperature of samples °C: Once pH verified in login? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> Headspace/bubbles in VOAS? yes <input type="checkbox"/> no <input type="checkbox"/> n/a <input checked="" type="checkbox"/> Sample containers and COC match? yes <input type="checkbox"/> no <input checked="" type="checkbox"/>	
PROJECT NUMBER (25 SPACES MAXIMUM)		IF RUSH approved by Luc K		P.O. NUMBER:		BILLING ADDRESS (IF REQUIRED) Det to Libank 81321	
Sample collected by		Sample Description 35 Characters Limit Primary Sludge Secondary Sludge Sludge Tank		DATE 8/12/21 10:04 9:55		For Laboratory Use Only: Field pH/Temp/Time/Initials Drinking Water Only:	
REQUESTED TURNAROUND: (X BOX WITH TAT NEEDED) Default TAT Standard: 7 - 10 Business days RUSH: 1 Business day (verify with lab) @3x Surcharge RUSH: 2 Business days @2x Surcharge (Non TCLP) RUSH: 3 Business days @1.5x Surcharge (TCLP @ 2X)		VOAS (PRES) Y N		GLASS, NO PRESERVATIVE		STERILIZED BACTERIA	
Default TAT Standard: 7 - 10 Business days RUSH: 1 Business day (verify with lab) @3x Surcharge RUSH: 2 Business days @2x Surcharge (Non TCLP) RUSH: 3 Business days @1.5x Surcharge (TCLP @ 2X)		HDPE UNPRESERVED		HDPE H₂SO₄		AMBER GLASS (UNPRESERVED)	
STD		HDPE HNO₃		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
3 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
1 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
2 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
3 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
1 DAY		HDPE H₂SO₄		AMBER GLASS (PRESERVED)		GLASS, NO PRESERVATIVE	
2 DAY		HDPE UNPRESERVED		AMBER GLASS (UNPRESERVED)		STERILIZED BACTERIA	
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