NTN/PFAS Semi-annual QC Field Blanking and Field Spiking Procedures

Notes:

- Ensure you have all of the required semi-annual QC supplies on hand before starting. These are shipped to the site on a semi-annual basis from the PFAS Research Center. For missing supplies call 608-265-9193.
- Perform the QC procedures where you normally perform your routine bucketprep and sample pour-off procedures.
- Perform the QC procedures on any convenient day within two weeks of receiving the supplies.
- SAVE the QC supply box and packing materials for return shipment.
- Use the available NADP/NTN standard sampling bucket (along with a strap, plug and lid you have on hand) to perform the semi-annual QC procedures.

Items needed/Supplies:

- Semi-annual QC supplies
 - o 1000 mL bottle labeled **Source Water** full
 - o 1000 mL bottle labeled **Field Blank** empty
 - o 1000mL bottle labeled **Field Spike** half full (contains 500 mL of PFAS-free reagent water)
 - o 2mL vial labeled **PFAS spike solution**
 - o Chain of custody (COC) form
 - o NTN sample bags (2)
 - o 4"x15" Ziploc bag (3) See IMPORTANT PROCEDURE CHANGE note on page 2.
- Tyvek lab coat
- Vinyl gloves
- NTN Sample bucket
- Bucket Lid, strap and plug
- Lid seal bag, 16"x18" (8; not needed for QC procedures; provided to perform monthly lid seal bag replacement)

PFAS Field Blank Procedure

- 1. Wear PFAS PPE (provided Tyvek jacket and **NTN vinyl** gloves) throughout the QC field blank procedure.
- 2. Prepare an NTN bucket with a new NTN sample bag following standard protocol (Use the sample bags included in your semi-annual supplies specifically for the blank and spike procedures).
- 3. Pour half (500 mL) of the 1000 mL **SOURCE WATER** into the newly prepared sample bag/bucket.
- 4. Gently swirl the bucket, loosely cover, and let sit for 30 minutes,
 - a. Pour the 500 mL of SOURCE WATER from the sample bag/bucket into the provided 1 L bottle labeled "FIELD BLANK".

PFAS-2214_Semi-annual_QC_Instructions

Page **1** of **3** Version: 1.2

Revision Date: 12/9/2025

- b. Remove, fold, and place the bucket bag into the provided 4" x 15" zip-lock bag Label bag with "**FIELD BLANK**". For bag folding instructions refer to SOP *PFAS_2213_Bag_Folding_Instructions*.
- 5. Fill out the Field Blank AND Source Water section of the COC form.

PFAS Field Spike Procedure

- 6. Wear PFAS PPE (provided Tyvek jacket and **NTN vinyl** gloves) throughout the QC field spike procedure.
- 7. Prepare an NTN bucket with a new NTN sample bag following standard protocol (Use the sample bags included in your semi-annual supplies specifically for the blank and spike procedures).
- 8. Pour the full 500 mL from the **FIELD SPIKE** bottle into the prepared sample bag/bucket.
- 9. Pour the full contents of *PFAS spike solution* (2 mL vial) into the prepared sample bag/bucket.
- 10. Gently swirl the bucket, loosely cover, and let sit for 30 minutes
 - a. Pour the 500 mL of spiked water back into the 1 L bottle labeled "FIELD SPIKE"
 - b. Remove, fold, and place the bucket bag into the provided 4" x 15" zip-lock bag Label bag "FIELD SPIKE". For bag folding instructions refer to SOP *PFAS_2213_Bag_Folding_Instructions*
- 11. Fill out the Field Spike section of the COC form.

IMPORTANT PROCEDURE CHANGE:

Sites are no longer required to send back the folded sample collection bag with each routine weekly sample, with the following exception:

On the week that the QC procedures are performed, please send back the folded sample collection bag *from the routine sample* collected that same week. If you had a dry week, return the bag from the next wet sample that is collected.

In your QC Kit you have 3 long narrow bags:

One is for the QC Blank collection bag

One is for the QC Spike collection bag

One is for the routine weekly sample bag described above

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NADP Program Office Revision Date: 12/5/2025

Shipment

- 12. Send back the **FIELD BLANK** sample along with the folded bucket bag.
- 13. Send back the **FIELD SPIKE** sample along with the folded bucket bag.
- 14. Send back the remaining **SOURCE WATER** in its original bottle.
- 15. Confirm that all information is completed on the COC form, and place it back in the Ziploc bag it was received in.
- 16. Place all three bottles, two folded bags and the COC in the box that they came in for shipping and ship back to the lab.

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