



NATIONAL GUARD BUREAU

3500 FETCHET AVENUE
JOINT BASE ANDREWS AFB MD 20762-5157

18 January 2023

MEMORANDUM FOR Wisconsin Department of Natural Resources (WDNR)

Attn: Mr. Stephen Ales
Hydrogeologist Program Coordinator
Remediation and Redevelopment Bureau
Division of Environmental Management
101 S. Webster Street
Madison, WI 53707

FROM: NGB/A4VR

Subject: Truax Field Air National Guard Base (ANGB) (Truax Field) Remedial Investigation (RI)
Additional Groundwater Sampling and Upcoming Schedule

The Air National Guard (ANG) has prepared this Technical Memorandum (TM) to summarize proposed additional sampling regarding the nature and extent of PFAS in groundwater at Truax Field as part of the ongoing Remedial Investigation (RI). The proposed additional groundwater sampling is an extension of the investigative activities completed in April and May 2022. The following table and figure are included in this TM:

Table 1 Proposed Step-out Sampling and Rationale

Figure 1 Proposed Step-out Sampling Locations

PROPOSED STEP-OUT SAMPLING LOCATIONS AND RATIONALE

Investigation activities completed in April 2022 at Truax Field included drilling of 30 borings for collection of lithologic and hydrogeologic data using hydraulic profiling tool (HPT) / electrical conductivity (EC) methods. In May 2022, an average of 5 groundwater samples (representing multiple depths per boring) were collected from adjacent locations at each of the previous HPT/EC borings and analyzed for three PFAS compounds (PFOA, PFOS, and PFBS) using a direct aqueous injection screening method.

Based on results obtained during the May 2022 sampling, additional groundwater sampling is recommended to define the nature and extent of PFAS contamination in groundwater attributable to source areas at Truax Field. The proposed step-out sampling locations were discussed in collaboration with WDNR, NGB, U.S. Army Corps of Engineers (USACE) – Omaha District, and EA Engineering, Science, and Technology, Inc., PBC (EA) via teleconference on 4 October 2022. The proposed step-out sampling locations are shown on **Figure 1**. The rationale for each proposed step-out location is summarized in **Table 1**.

UPCOMING DELIVERABLES AND RI ACTIVITIES

ANG's current schedule for completing the RI is outlined below:

- October to December 2022: Completed additional groundwater investigation activities (step-out) and data analysis
- January 2023: Submit Draft Final Direct Push Investigation Report (to include recommendation for new monitoring well locations and screen intervals)

- Spring/Summer/Fall 2023: Complete Mobilization 2 activities (monitoring well installation, development, and sampling; lysimeter installation and sampling; additional investigation activities as needed)
- 2024: Draft Final and Final RI Report

Please feel free to contact me at william.myer.2@us.af.mil or by phone at 774-994-7265 with any questions or concerns.

WILLIAM MYER, PG, GS-13
Environmental Restoration Program Manager

Attachments: Table 1, Figure 1

CC: USACE – Omaha District (Mr. Stephen Castellane) (Electronic Copy)
EA Engineering, Science, and Technology, Inc., PBC (Mr. Jon Ritterling) (Electronic Copy)
EA Engineering, Science, and Technology, Inc., PBC (Ms. Cybil Boss) (Electronic Copy)
BB&E (Ms. Celeste Holtz) (Electronic Copy)

**TABLE 1
PROPOSED ADDITIONAL GROUNDWATER SAMPLING LOCATIONS AND RATIONALE**

Location	Location	Estimated Boring Depth	Rationale
Transect A			
A5	West	100	Delineate plume to the west
A6	Northeast	60	Delineate plume to the northeast; Evaluate potential upgradient contributions
Transect B			
B3	West of Plume near Source Area(s)	100	Delineate plume to the west of source areas
Transect C			
C5	Northeast	100	Delineate plume to the northeast; Evaluate potential upgradient contributions
Transect D			
D4	West of Plume near Source Area(s)	100	Delineate plume to the west of source areas
D5	West	100	Delineate plume to the west
Transect E			
E6	West	100	Delineate plume to the west
E7	Northeast	100	Delineate plume to the northeast

**TABLE 1
PROPOSED ADDITIONAL GROUNDWATER SAMPLING LOCATIONS AND RATIONALE**

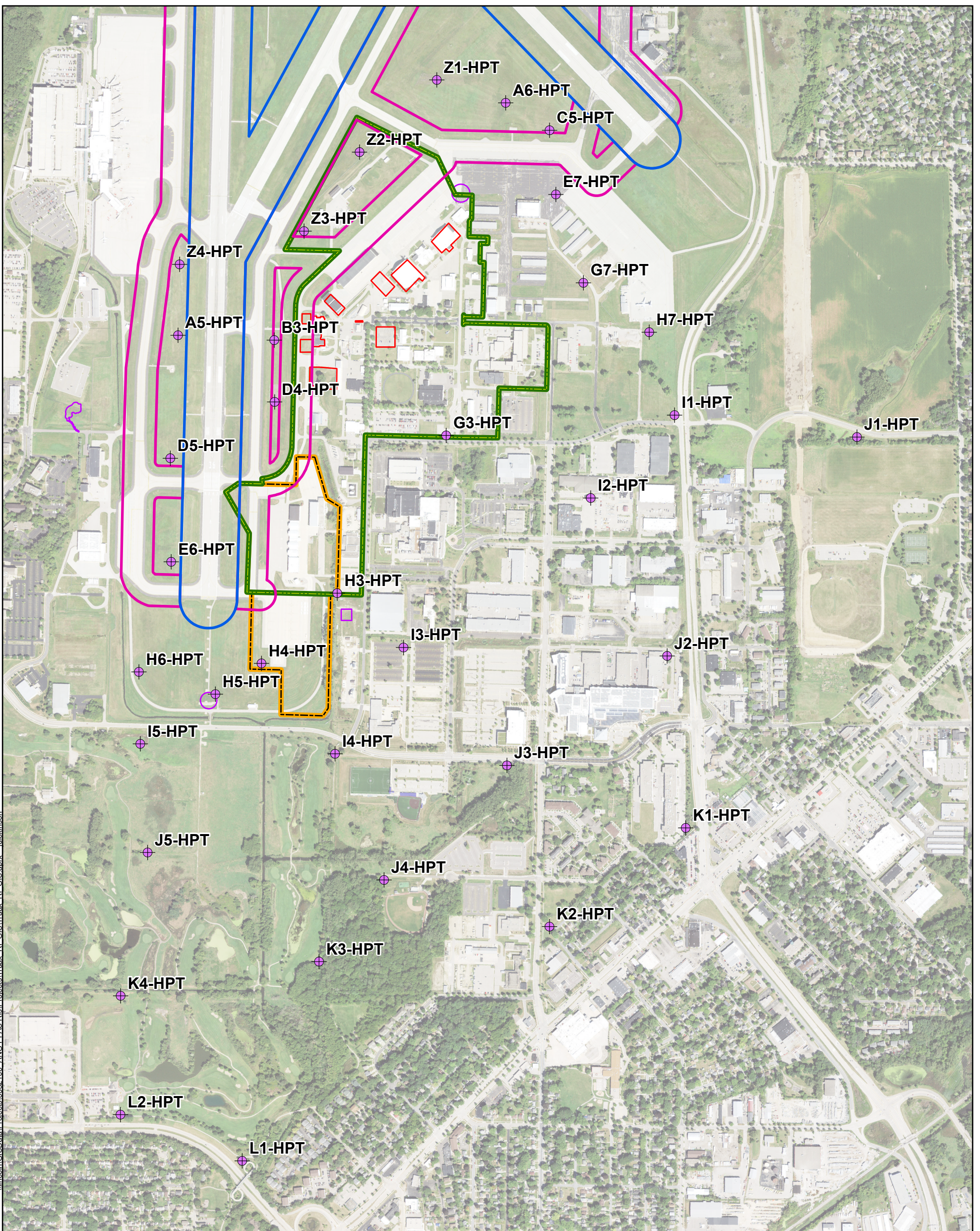
Location	Location	Estimated Boring Depth	Rationale
Transect G			
G3	South	100	Address data gap to evaluate potential plume migration to the south; Boring located along a south/southeast groundwater flow path from the source area(s)
G7	Northeast	100	Delineate plume to the northeast
Transect H			
H3	South	100	Delineate plume to the south (includes vertical delineation); Evaluate potential contribution from adjacent Former Fire Training Area (FFTA)
H4	South	100	Delineate plume to the southwest
H5	South (F16 Crash Area)	100	Delineate plume to the southwest
H6	Southwest	100	Delineate plume to the southwest
H7	East	100	Delineate plume to the east
Transect I			
I1	East	100	Delineate plume to the east
I2	Southeast	100	Delineate plume to the east
I3	South	100	Delineate plume to the south/southeast

TABLE 1
PROPOSED ADDITIONAL GROUNDWATER SAMPLING LOCATIONS AND RATIONALE

Location	Location	Estimated Boring Depth	Rationale
I4	South	100	Delineate plume to the south
I5	Southwest	100	Delineate plume to the southwest
Transect J			
J1	East	100	Delineate plume to the east
J2	Southeast	100	Delineate plume to the southeast
J3	South	100	Delineate plume to the south
J4	South	100	Delineate plume to the south
J5	Southwest	100	Delineate plume to the southwest

**TABLE 1
PROPOSED ADDITIONAL GROUNDWATER SAMPLING LOCATIONS AND RATIONALE**

Location	Location	Estimated Boring Depth	Rationale
Transect K			
K1	Southeast	80	Delineate plume to the southeast
K2	Southeast	65	Delineate plume to the south
K3	South	100	Delineate plume to the south/southwest
K4	Southwest	100	Delineate plume to the south/southwest
Transect L			
L1	South	80	Delineated plume to the south
L2	Southwest	65	Delineate plume to the southwest
Transect Z			
Z1	Northeast	60	Delineate plume to the northeast
Z2	North	60	Delineate plume to the north
Z3	North	100	Delineate plume to the north



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- Proposed HPT/EC Locations
- ▬ Truax Field Boundary
- ▬ Wisconsin Army National Guard
- ▬ Off-Base PRLs and FFTAs
- ▬ On-Base PRLs and FFTAs
- ▬ Runway Setback (270 ft)
- ▬ Taxiway Setback (150 ft)

Figure 1
Proposed Step-out Sampling Locations
Truax Field Air National Guard
 RIs at Multiple ANG Installations
 Madison, Wisconsin

Map Date: 1/9/2023

