DMAG SPRING 2026 MEETING AGENDA

(May 19, 2026 01:00 – 02:30 PM Central)

1. Welcome (Zac/Mark)
    a. Attendees:
        i. NADP – Christa Dahman, Dana Grabowski, Mark Kuether, Casey Lanham, Nichole Miller, Zac Najacht, Richard Tanabe, Liam Trinhnguyen ii. Amanda Cole (ECCC), Noel Deyette (USGS), Tim Sharac (EPA), Jess Trevino (USGS)
2. Preliminary Data Review and Reporting (Zac/Dana)
    a. Network summaries & Status (Zac/Dana)
        i. NTN – January 2026 reported – February in review. ii. MDN – December 2025 reported – January in review.
        iii. MLN (Litterfall) – 2024 posted – 2025 in review. iv. AMoN – January 2026 reported – February in review.
        v. AMNet – 2025 reported out and on web. vi. PRECIP – Current
    b.

Network	Approx. Sites	Approx. Samples per Month
NTN	240	11714 / 12 mo. = 976
MDN	75	3495 / 12 mo. = 291
MLN	25	Seasonal / Variable
AMoN	101	2482 / 12 mo. = 206
AMNet	7	36068 / 12 mo. = 3005
PRECIP	260	1040 (260 / week)
PFN	4	N/A
PFAS	15	N/A
MerPAS	13	N/A

    c. Preliminary Data Review turn-around time for NTN, MDN, AMON currently at: i. NTN = 104 days
        ii. MDN = 96 days iii. AMON = 112 days

    d. Data to website (Mark Kuether)
        i. Web data status
            1. MDN - data posted through:
                a. Weekly – December 2025
                b. Annual - 2024
            2. NTN – data posted through:
                a. Weekly – December 2025
                b. Monthly, Season, Annual, WY - 2024 3. AMoN – data posted through:
                a. Bi-weekly – December 2025
                b. No annual summaries
            4. AMNET – Data posted through 2025

5. MLN – Data posted through 2024

3. Updates (Zac/Mark)
    a. Data Review:
        i. Status of the NTN Data Review SOP.
            1. Some improvements made by Liam will be added to SOP. ii.

        Staffing Updates:
            1. Liam's fellowship extended by 1 year by APHL. Liam's time continues to be split between NADP and EPA projects and tasks.
            2. Staff role transitions (…)
                a. Recent grads:
                    i. 2 students + 1 intern have departed
                b. Gaining 1 APHL intern for summer
                c. Ongoing future staffing discussions to cover sample receiving and data needs.

        iii. Current status of network optimization efforts
            1. Data Review application updates made to handle 2-week MDN sampling sites are in place.
            2. Web report to indicate when a sample follows the 2-week protocol.
            3. 17 MDN sites now on the 2-week sampling protocol.
            4. MDN 2-week metadata for sample period and hold times being finalized.

    b. NTN Process Updates (Zac/Mark)
        i. NTN Field Form updates:
            1. Current NTN field form (FORF) is in use
                a. Removal of manual precip section, changes to lid weight, formatting for easier use/entry/OCR
                b. Rollout went smooth, operators returned old versions & began using new
            2. Current MDN field form (MOF) had small changes made similar to NTN with manual precip section removed.
                a. Next round of updates includes formatting similar to NTN (circle buttons vs boxes)
        ii. OCR – Development progress
            1. Naviant, OIS, and NADP have been working through the new program & process. NADP continues to test while Naviant and OIS continues to advise an make requested revisions.
                a. Discussions on use of OnBase vs network drive resources for storage and access of field form scans continue.
            2. Plans for process workflow & implementation
                a. Nearing the completion of the testing phase and preparing for final steps with OIS for implementation
                b. Comparison of the new OCR workflow with current (login, 1st DE, 2nd DE, compare) plans in progress
            3. Initial result of using new forms for OCR

a. New NTN forms, including formatting changes, are read well by ABBYY OCR/OnBase
b. Future plans to bring MDN (MOFs) into the OCR workflow process for login/1st DE

c. MLN (Litterfall) notes codes & QR codes (Zac/Dana/Mark/Christa/Casey)

i. Status unchanged - still working through notes and QR codes for MLN. Lower priority to more immediate topics.

d. AMoN (Zac/Mark)

i. Alpha samplers are in place are have adjusted MDL for alpha samplers.
ii. Data Review updated for new Alpha sampler calculations.

e. PFN Updates (Mark)

i. Planned Data Products:

1. Weekly PFN report (via Data Export)

a. Currently under construction.
b. Combination of PFN data from CLS, and NTN data from MS DB.
c. Vertical format due to variable analytes
i. Compressed vs expanded invalids?
d. Both analyte and sample validity and notes.

2. Annual PFN report (via Data Export) – TBD.

a. Items to consider: data flow, vertical report formatting, sample types, web data/metadata
i. Mark's questions to the committee:
1. Expand out -9.99 or keep compressed within report
a. Goal is to keep report size manageable
2. Sample Type – valcode vs invalcodes and NTN sample type (W, WI, WD, T, D)
3. Rain gauge data vs sample volume collected
a. How to code sample type for PFAS 3.

Network Information:

a. Interactive Map
b. Data Access Table?
c. Network

Information 4. Annual maps – TBD. ii.

Data Flow / Data Infrastructure

1. CLS + MS DB (NTN) data combined into web data
2. Web data stored and reported from in MS DB
3. DB structure determined by weekly and annual reports. (not completed)
4. API determined by existing DB structures and web report. (not completed) iii. SOPs

1. Analytical – completed

2. Web Processing – not written. iv. Web Page (in process):

1. Similar to NTN page.
2. Backed by API like other network pages.

f. Web Updates (Casey/Mark)

i. Building PFN network page and resources

1. Development time scheduled anticipated late June or July 2.

API updates - PFN API to be developed.

g. Map Updates (Mark)

i. Map Correction work 1.

scope: 2016 to 2024 2.

Highlights:

a. 2019 and 2020 Total N
b. Map resolution and interpolation power corrections 2022 forward +

2016, 2017 NH4 (from prior corrections)

c. NADP + PRISM precip integration 2016+

3. Status

a. Original maps backed up.
b. All issues and corrections documented internally
c. Majority of map rasters corrected (new issue with pH found recently)
d. PDF maps not redrawn at this time.

ii. Animated Maps

1. Using corrected rasters to rebuild animated maps.
2. Recreating 2015 – 2024 maps
3. Issues Encountered

a. Large 2022 gap filled via 2-year average.
b. Color scale issues – unable to reproduce colors exactly as old files.
c. Legend – rebuilding required.

iii. Canadian Deposition Maps – No updates. iv.

PFAS maps / charts – format TBD.

v. AMNet + AMON charts posted to web.

vi. Next Steps

1. Complete Animation maps and pH map corrections.
2. Update web map files for corrected maps.
3. Return to Canadian deposition map efforts.
4. Develop PFAS map / charts with PFAS group.
5. Post MLN maps on web.

h. Data Products Updates (Mark)

i. Federal Sample Status Report

1. No updates. Using copy from prior year. ii.

Running Criteria Report

1. Currently in production

2. Richard generating enhancements.
3. Future – determine algorithm to estimate more recent samples.

4. Other Data Issues:
   a. Zero precipitation samples with chemistry.
      i. Sample coding issue when measured precip = 0 accompanies wet sample.
      ii. Scope – samples from 2018 forward to be corrected.
      iii. Corrective Actions
         1. Estimate precip from sample volume.
         2. Recode from dry sample to wet sample.
         3. ~450 samples iv. Data updates planned – weekly, monthly, seasonal, annual

      v. Web announcements to be delivered prior to updates.
   b. MDN Deposition errors discovered.
      i. Discovered by David Gay and Bernard Firanski
      ii. Calculated Deposition does not equal stated deposition.
      iii. Scope (counting errors of 0.2+% difference)
         1. Intermittent between 1997 to 2021.
         2. Sample error counts between 50 – 300 per year 3. Max frequency of ~1000 samples in 2014. iv. Cause
            1. Observed with original Eurofins data.
            2. Inconsistent cause from sample to sample.
            3. WSLH/NADP began MDN data processing 2019-present

      v. Status: No corrections made at this time.

   c. Precip Datalogger clock adjustments / corrections behind schedule.

5. Additional Discussion Topics (Various)
   a. Noel questions
      i. PFAS data availability? Will the data just be from April on as the official network start date or will the data from before that when it was a provisional network also be posted?
         1. Mark response – April 2026 forward on initial web posting for the official network data. Also plans to post provisional data, likely in a static format (spreadsheet)
         2. Christa response – confirms that it will be separate & distinct section for preliminary data (pre-PFN)
            a. Noel - official data timeline?
            i. Christa – at this time the samples have yet to be analyzed, but should have a better idea of this timeline soon
            ii. Plan for MDN data revision and posting to the website?
         1. Mark response – haven't considered all the details so far, but planning to back up all the data somewhere before beginning the process of editing and publishing revised/updated MDN data
   a. Noel response – interested to former publications using the data and researcher feedback

   b. Noel - introduction of Jess Trevino who is joining the DMAG from USGS and is helping Noel with QAAG preparation and some of the analysis that Greg Wetherbee did in the past.

c. Amanda question – Demo of the ABBYY OCR at the Spring Meeting?
    i. Zac response – yes, a demo of sorts where I will be showing a video/screenshot of the OCR program, how the interface looks and how we will scan forms and review the OCR dataflow