



Green Acton League of Women Voters PFAS Panel

October 14, 2020

Matthew L. Mostoller

Environmental Compliance Manager

Speaking from Experience

- Technical Lead on Acton PFAS Program
- Participated in MassDEP Waste Site and Drinking Water Regulatory Process
- Collected over 100 PFAS samples
- Coordinate Public Outreach
- Represent Board and Staff of AWD



Early Actions

Unregulated Contaminant Monitoring Rule 3 – 2013 & 2014

- Required by Safe Drinking Water Act
- Not expected in our water system
- Did not identify presence of 6 compounds analyzed
- Standard Method Process
- Increased media attention
- Identified initial water systems with PFAS

- Follow Emerging Science and Policy
 - Regulatory Environment
 - Emerging Health Concerns
 - Review of PFAS Sources in Acton
 - Status of Neighboring Communities
 - Expansion of Known PFAS Contributors



Superfund Work - 2019

- Notified of Intent to Conduct GW Sampling in 2019
- Similar to 1,4-dioxane where Federal and State guidance differs
- WR Grace looking at previously identified source areas
 - Results will drive further actions
 - Resampled highest concentration well – MassDEP follow up actions 3/3/2020
- NMI doing comprehensive sampling event to determine if further action is needed in proposed remediation plan
 - Collected water quality samples from Assabet production wells
 - Summer 2020 drill new well at highest concentration site
 - Data Validated – PFOA results noted as potential high bias

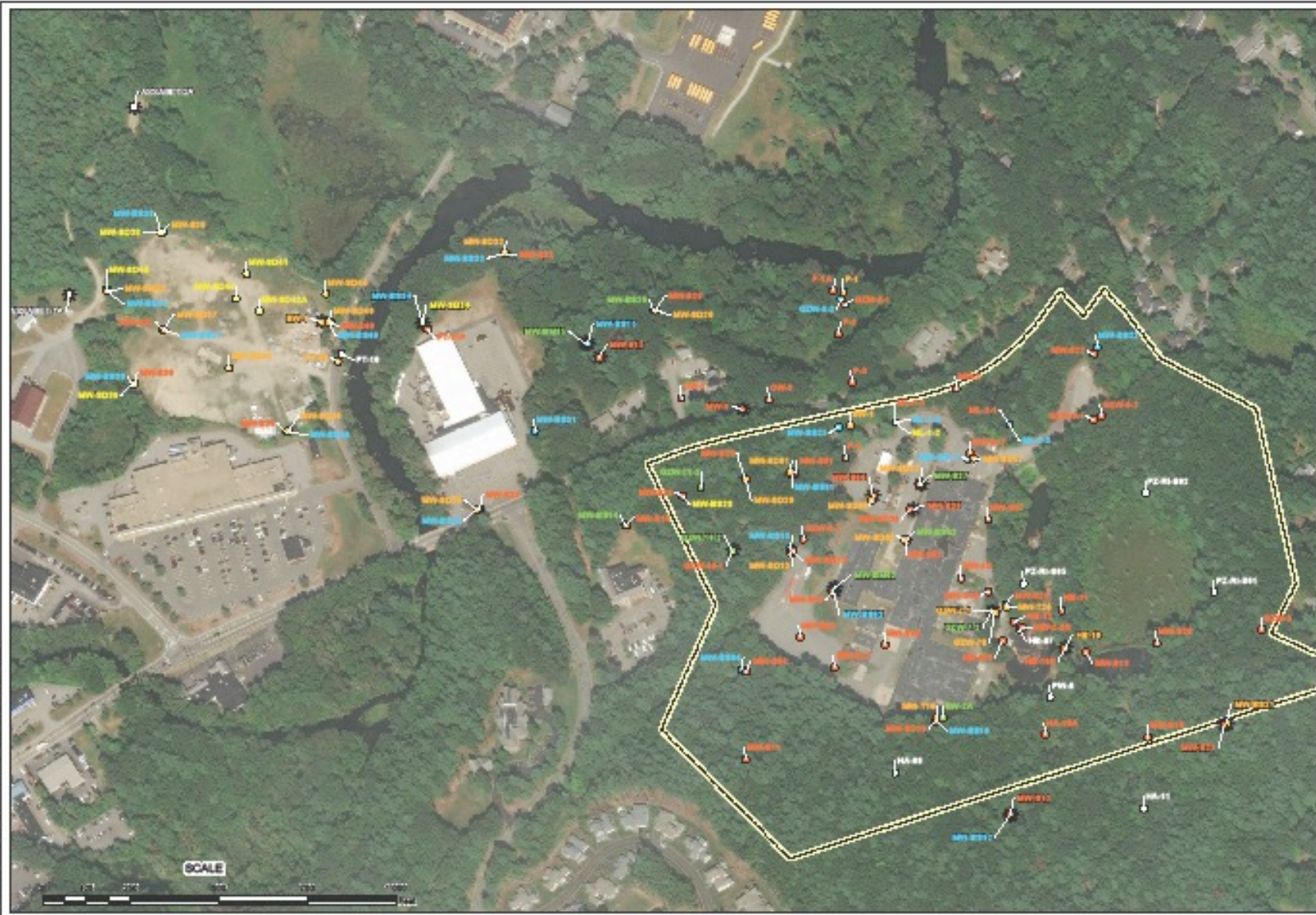


Figure 1
Sample Locations

Nuclear Metals Inc. (NTCRA)
Concord, Massachusetts

Description:
Planned well sample locations
for sitewide event November,
2019.

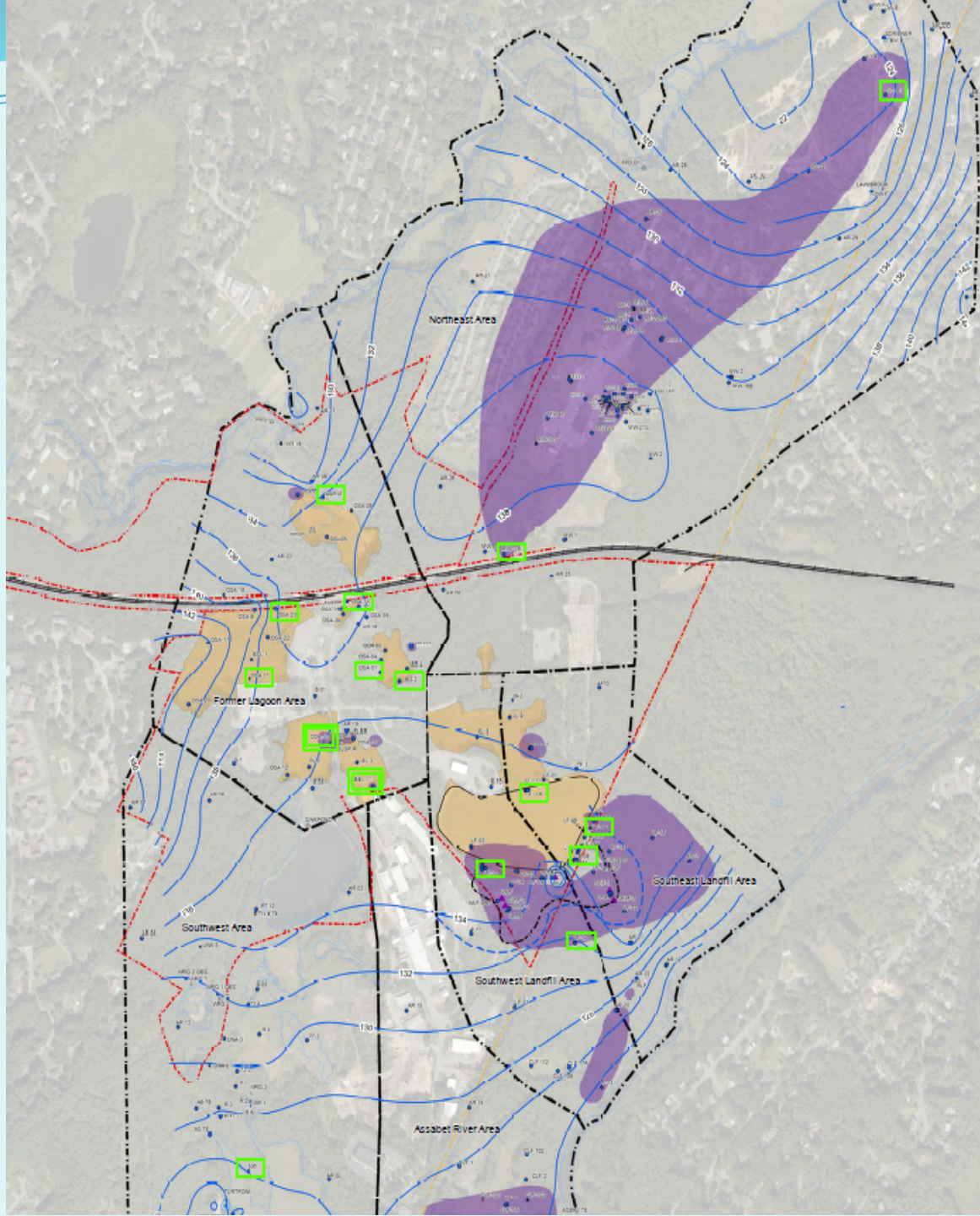
- Map Legend:**
- PFAS Sample Location
 - Well Formation**
 - Undefined
 - SOB
 - MOB
 - TII
 - BR
 - WBR
 - Site Boundary

Spatial Projection:

Coordinate System:
NAD State Plane Meters
NAD Zone: 2001
Units: US Survey Feet
Datum: NAD83

Plot Info:
File: AEWells_201911_event.mxd
Project No.: 3243
Plot Date: 15 October, 2019
Arc Operator: HG
Reviewed by: HG





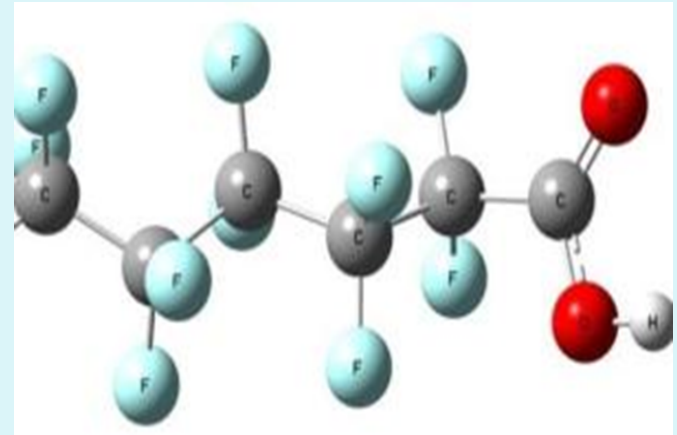
Initial Plan – 2019 & 2020

- Source Water Monitoring in South Acton
- January 2020 – initial sampling
- Lab Capacity Issues
- Maintenance Coordination
- MassDEP Assistance
 - Sample Plan
 - Defer Collection to AWD
 - Analytical Costs
- COVID-19
- Regulatory Process

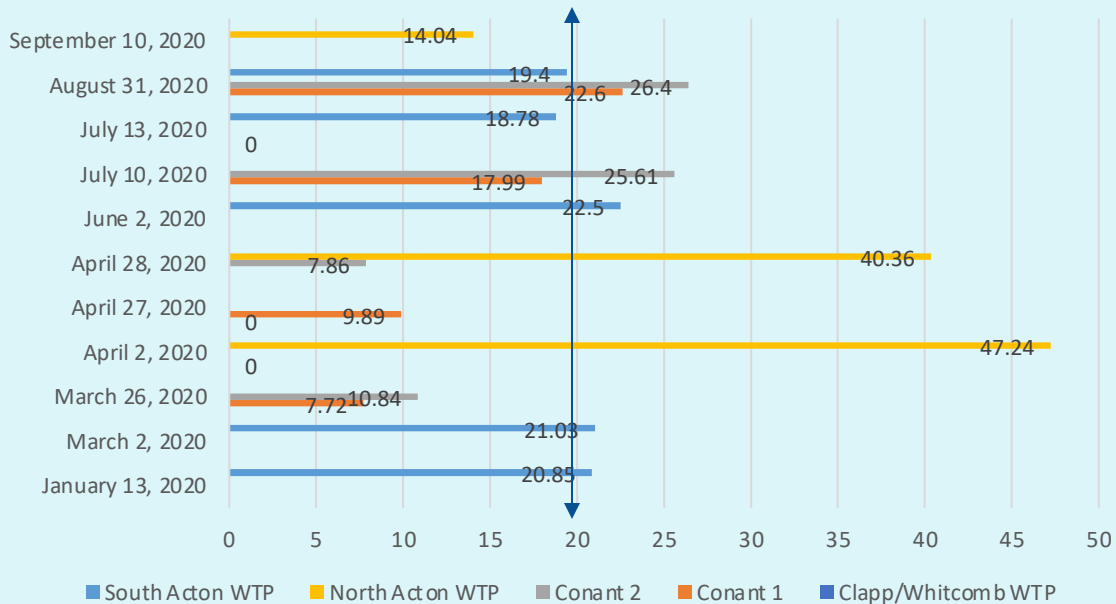


Results to Date

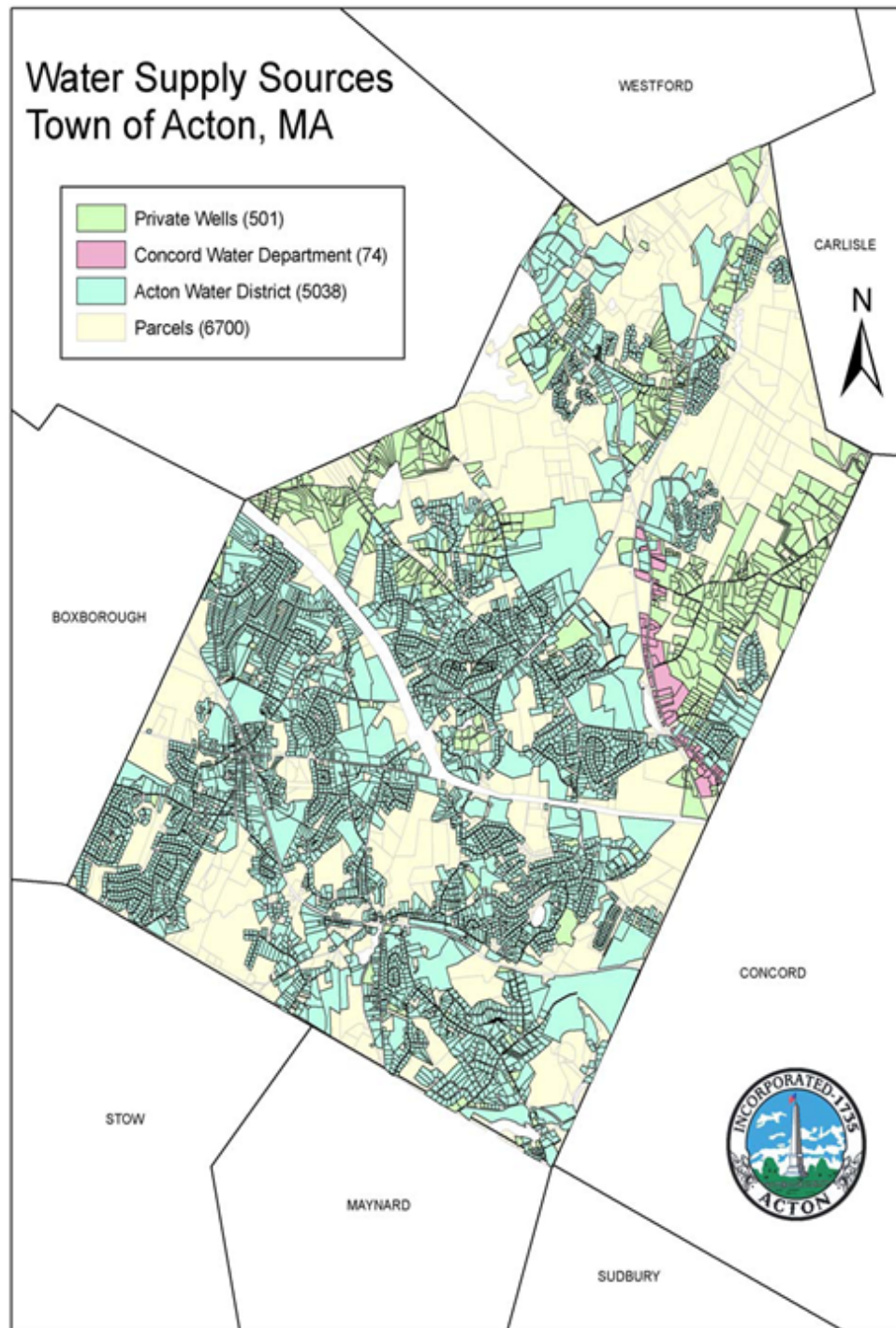
- Treated Water ND to 47.24 ppt
- Raw Water 4.95 to 93.17 ppt
- ~71% of water is currently <20 ppt



Treated Water Summary



Where is it?



Response Actions

- Remove Assabet 1A from service – limit use
- Remove NAWTP from service
- Conduct Additional Monitoring
- Remove PFAS Containing Plumbing Materials at Sample Taps
- Retain Engineer to develop treatment-based solutions
- Coordinate with Town of Acton
- Develop Customer Notice and Information
 - Emphasis on Sub-Population, Broad Notice
 - www.actonwater.com/pfas

Ongoing Actions

- South Acton
 - Pumping Optimization to achieve <20 ppt effluent
 - Reactivate Assabet 2 Well
 - Explore Connection of Assabet 3 Well
 - Waste Management Options
- Acton Center Treatment Plant
 - Under Construction – 2021 completion
 - Combine Conant Wells
 - Bedrock Well Exploration – Moving towards permitting
- North Acton Pilot – 6 combinations of media
 - MassDEP Awarded AWD 1 of 10 \$200K Grants Statewide
 - SRF Application for 0% Construction Financing
- Joined Multi District Litigation
 - Represented by Napoli Shkolnick, PLLC
- Exploring New Technology for PFAS Treatment



Thank You!

Questions about presentation
matt@actonwater.com

Sign up for PFAS Notices
wq@actonwater.com

978-263-9107



<http://www.actonwater.com/pfas>