# Former Buckley & Mann

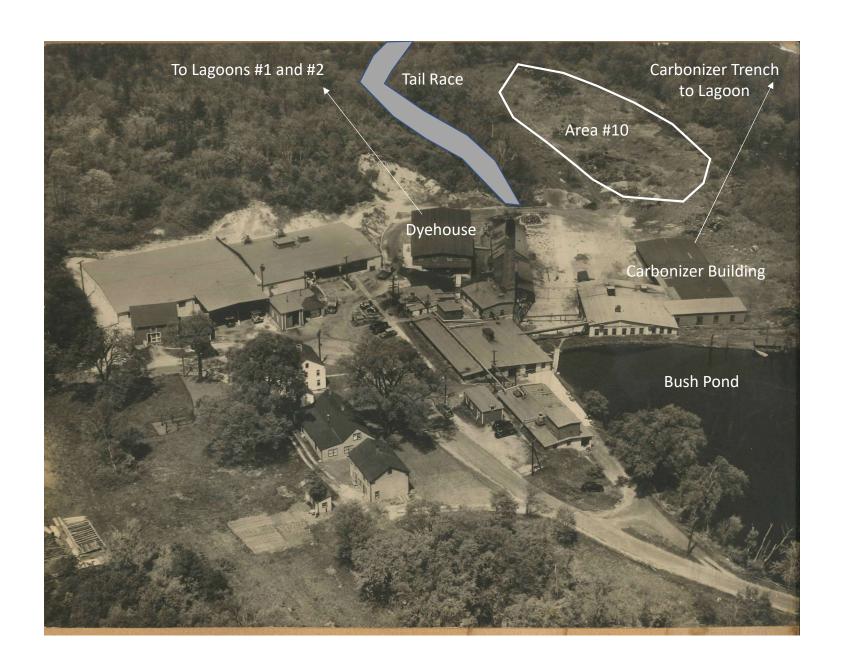
June 6, 2018



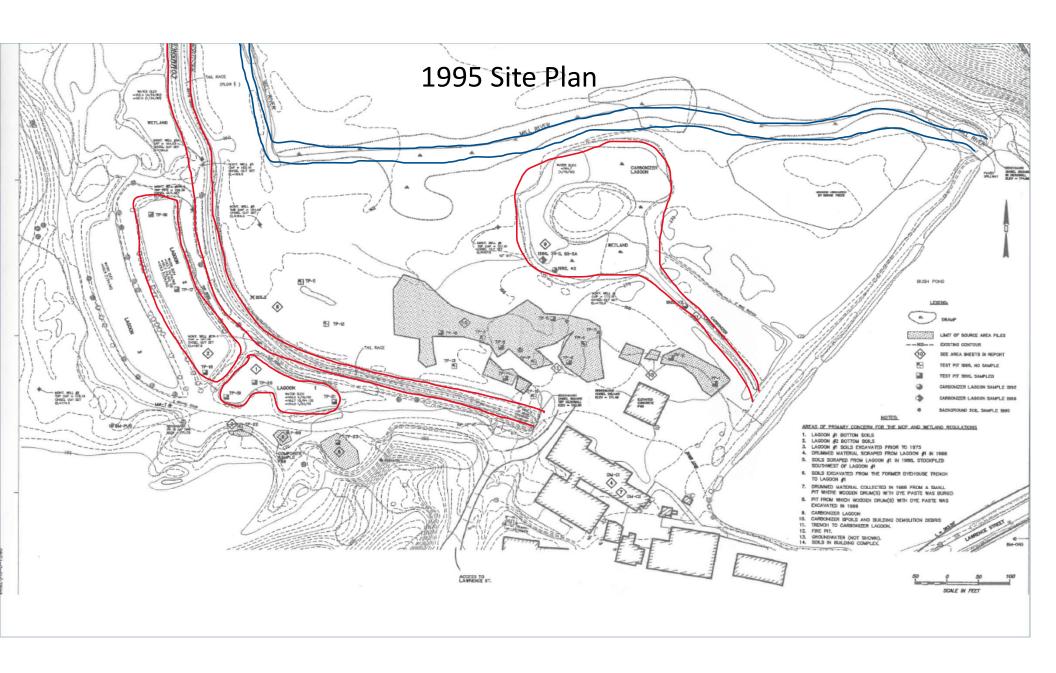
### Presentation Outline

- Buckley & Mann historical operations
- Historical (pre-2001) environmental assessment and remediation
- Recent (2013-2018) environmental assessment work
- 2017 MassDEP audit findings
- Public Involvement Plan
- Next steps

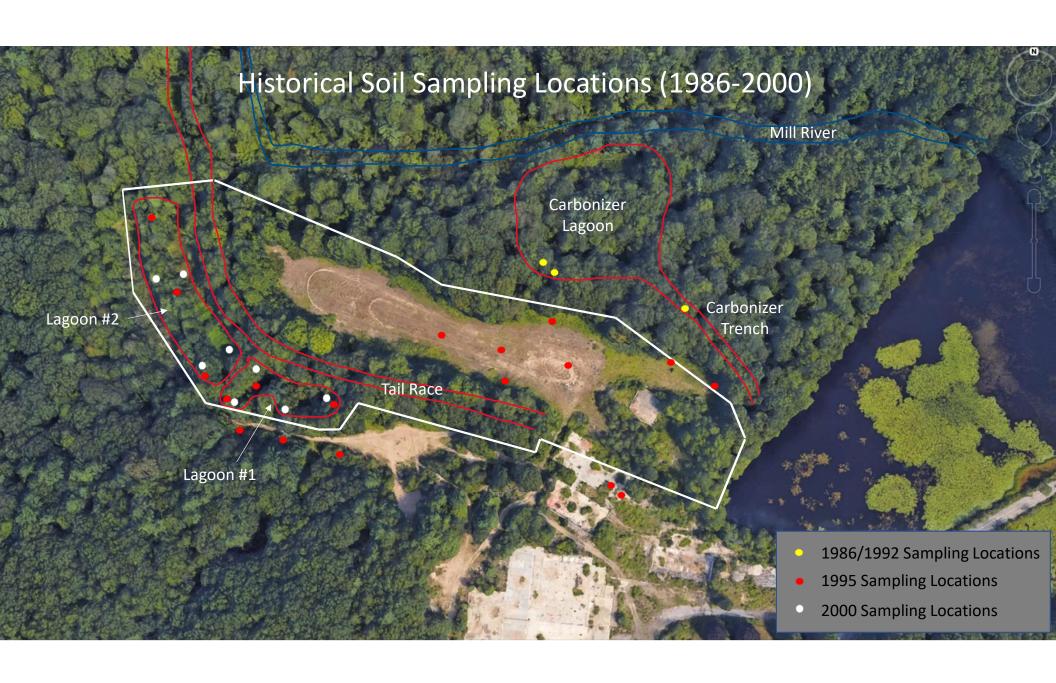


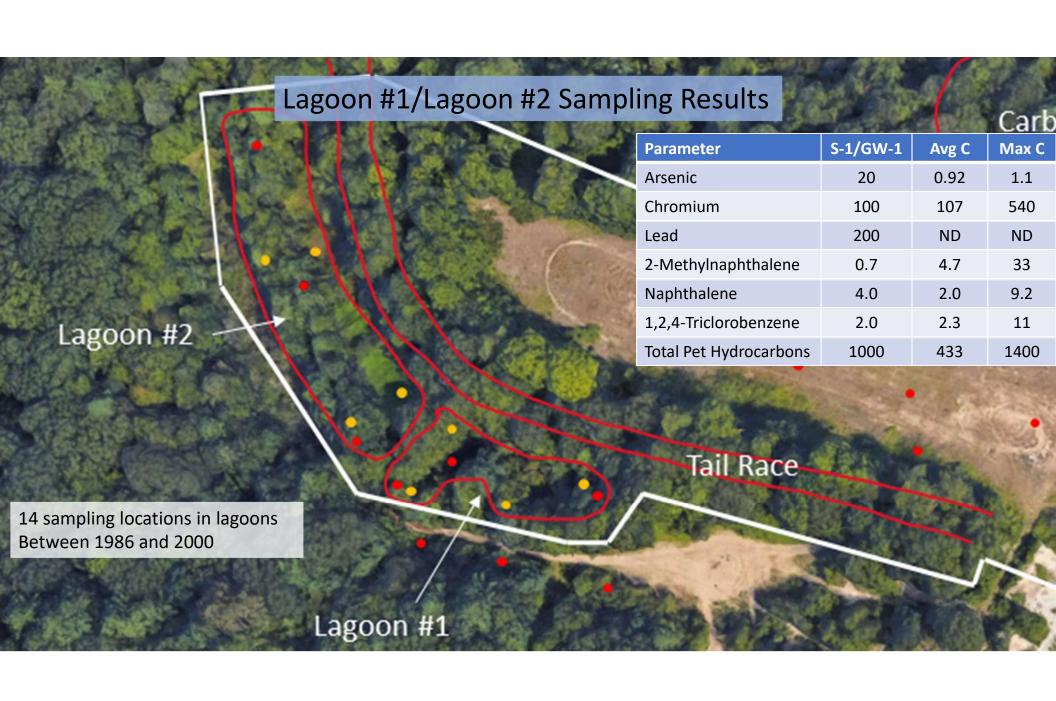


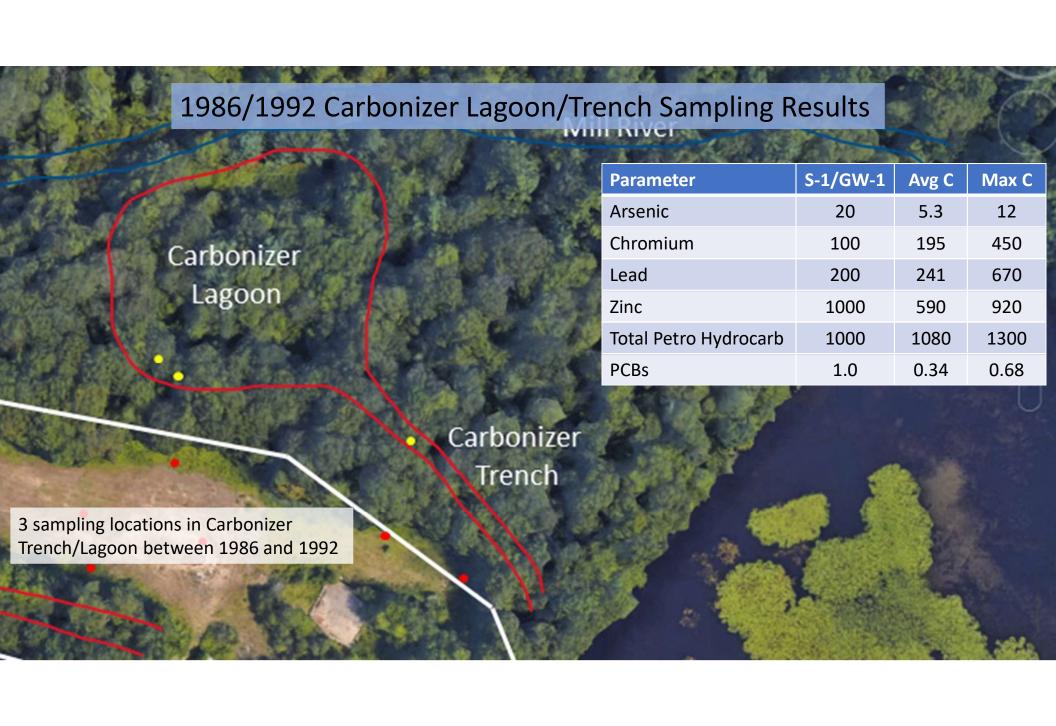


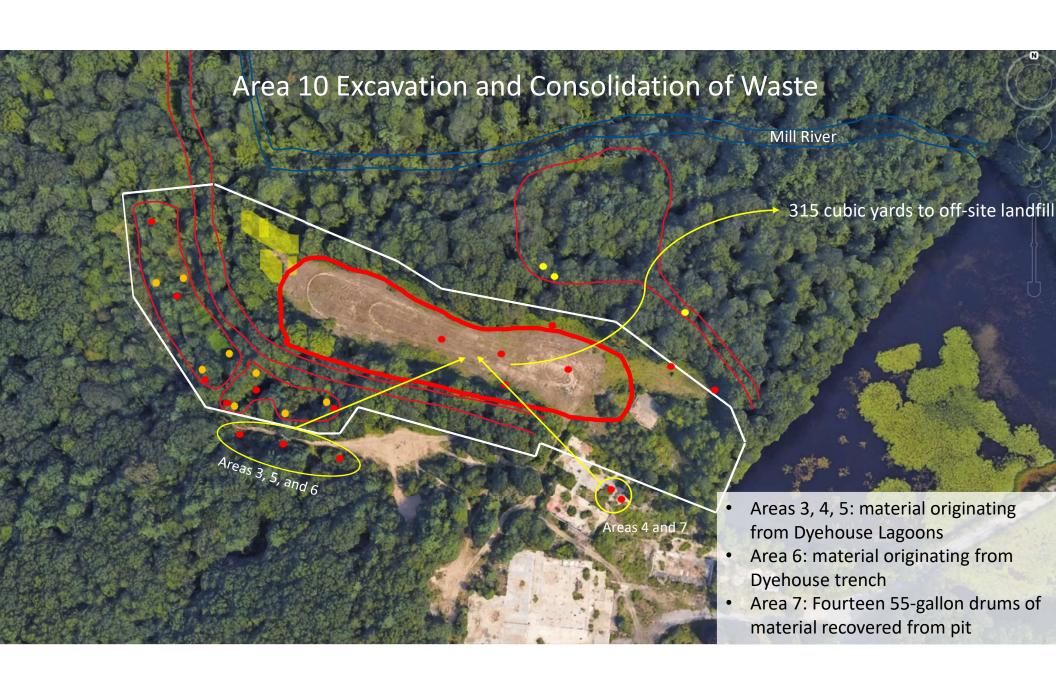


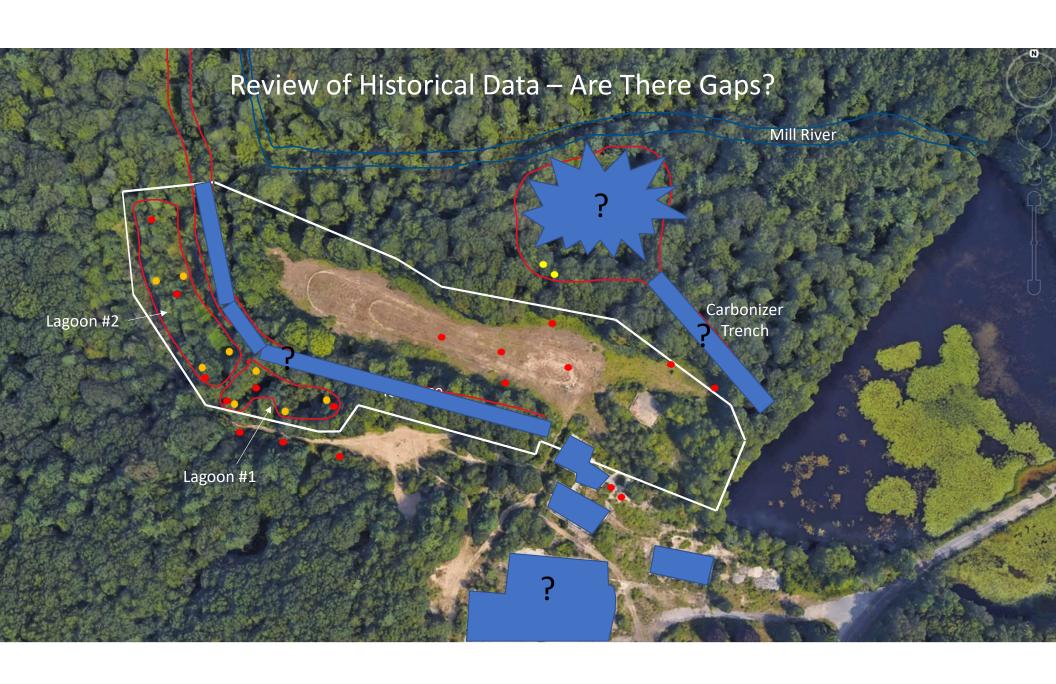








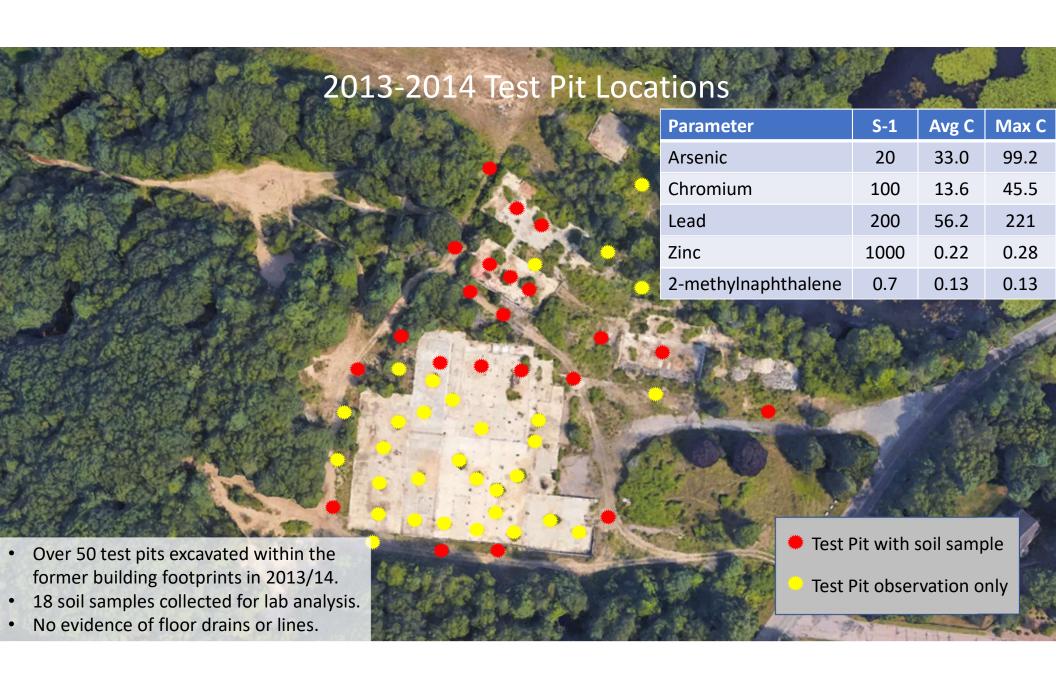




## Post-RAO Investigations

- 2013: Test Pits excavated within building foundations
  - Are there contaminants in soil beneath the building foundations?
  - Are there floor drains or sub-slab conduits beneath the buildings?
- 2014: Test pits excavated throughout the former building complex
  - Was something missed within the former building complex?
  - Are there underground utility lines that carried waste away from the buildings?
- 2014-2015 Groundwater Sampling
- 2018: Tail Race, Carbonizer Trench, Carbonizer Lagoon sampling
  - What are the contaminant levels in these locations?
  - Was something missed during the prior investigation?









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Parameter	S-1/GW-1	Avg C	Max C
Arsenic	20	4.12	4.83
Chromium (III)	1000	22.9	29.1
Chromium (VI)	100	ND	ND
Lead	200	42.9	110
Zinc	1000	53.5	61.7
2-Methylnaphthalene	0.7	ND	ND
Total EPH		ND	ND

Tail Race

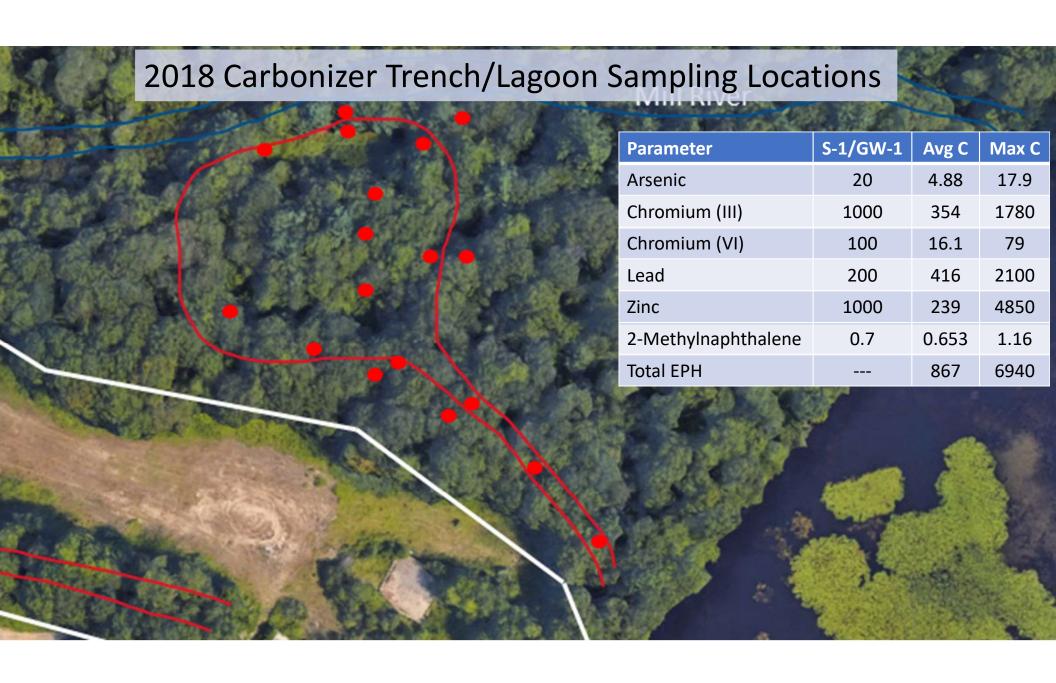
**Culture Analysis** 

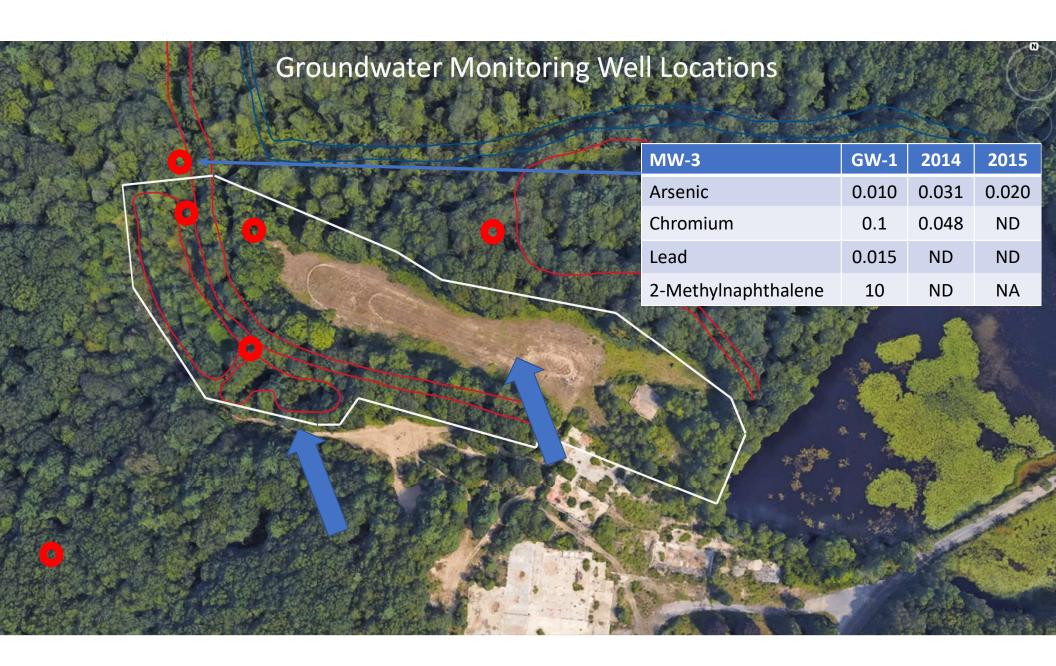
ID: Tail Race (Standing Water)

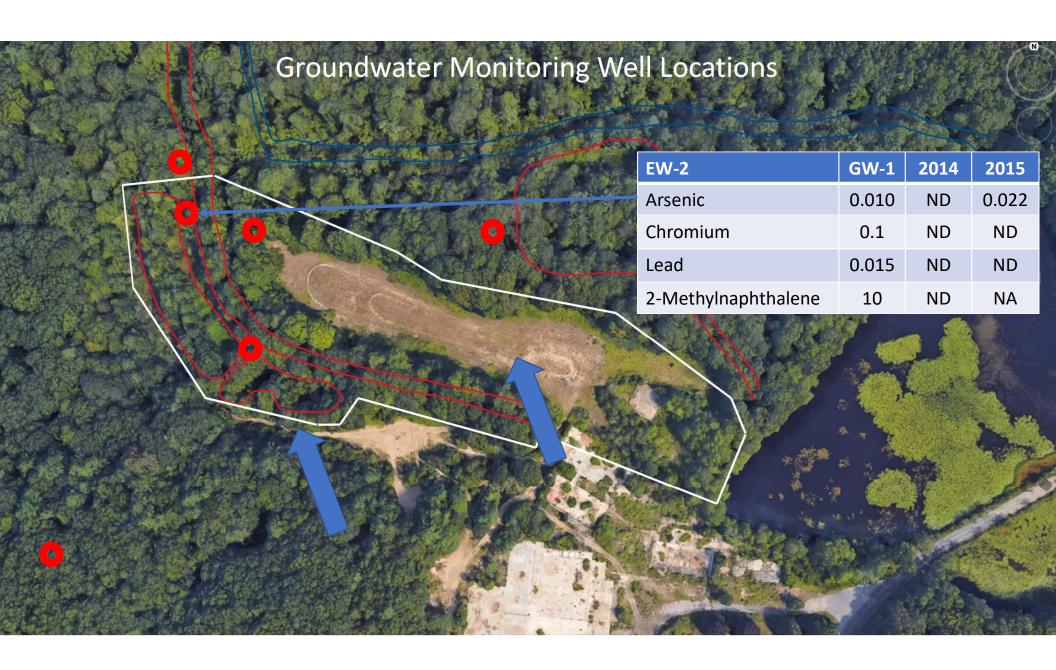
IO-Culture Analysis on Water Iron Related Bacteria Analytical Sensitivity: 25 CFUs/Milliliter

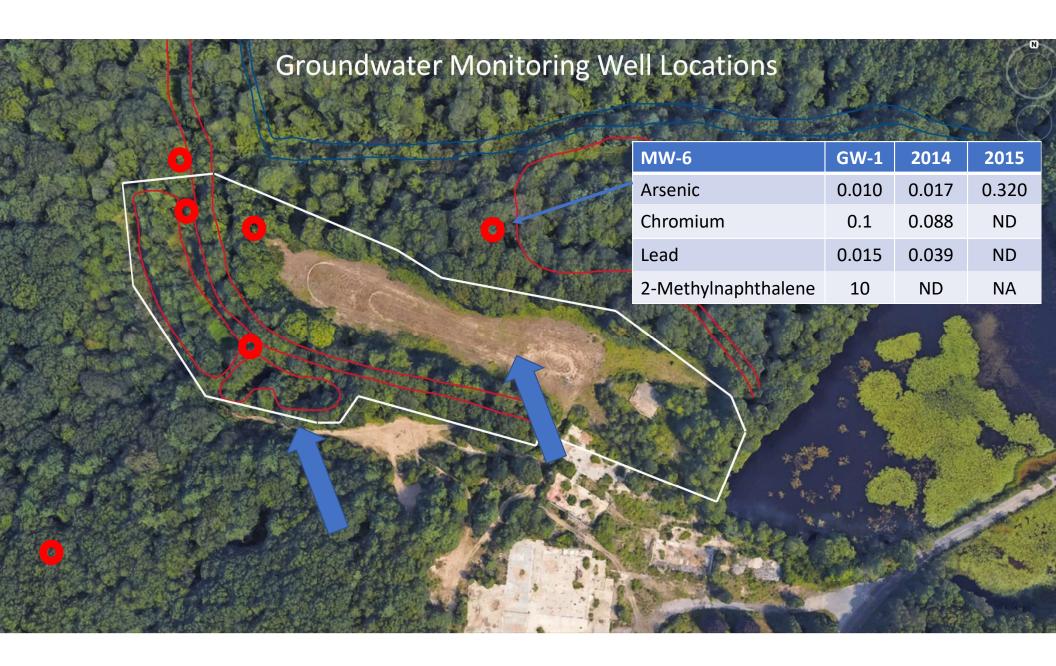
Other **Raw Count** 

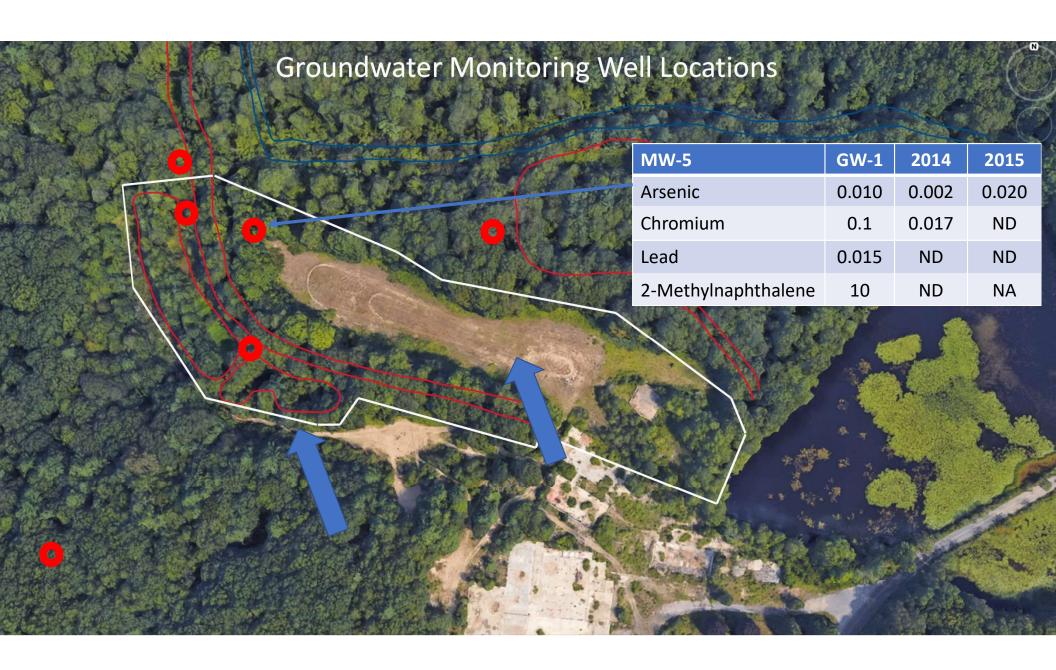
2,300 CFU/ml Positive











- September 7, 2017: Notified by MassDEP of intent to audit the RAO
- September 13, 2017: Audit site inspection
- November 17, 2017: Notice of Audit Findings (NOAF) letter
- Non-compliance issues identified:
  - 1. AUL did not contain documentation verifying that Richard Mann had signatory authority for Buckley & Mann, Inc.
  - 2. AUL did not explicitly prohibit residential use.
  - MassDEP was not provided documentation that holders of any record interests were notified of the existence of the AUL.
  - 4. The RAO did not provide a screening of potential environmental risks.
- 180-day deadline established (May 17, 2018)



Technical Administrative

## Final Steps

- Complete Environmental Risk Characterization (ongoing)
- Re-Evaluate Human Health Risk Characterization
- Revise AUL Language
- Prepare/Submit Permanent Solution Statement
- Re-Record AUL
- Establish Plan for Maintenance and Monitoring of AUL Area



#### Public Involvement

- May 23, 2018: petition filed to establish a PIP
- 20 days to respond to petitioners
- 80 days to prepare Public Involvement Plan and hold public meeting
- Public notice published at least 14 days prior to public meeting
- 20 day public comment period for PIP and all other MCP documents

