

Public Forum - Trotting Park Youth Baseball Fields

May 22, 2025

6:30pm – 8:00pm

Public Forum Agenda

•6:30pm - Presentations

- Forum Overview: Town Manager Mike Renshaw
- Environmental Investigation: James A Luker, PG, LSP
- Remediation and Ballfield Reconstruction Process: Peter McConarty, Public Works Director

7:00pm – Questions and Comments from the Public

•8:00pm - Adjourn

Individuals Available for Questions

Arcadis:

James A Luker, PG, LSP

Janet Keating-Connolly, MS, LSP

MassDEP:

John Handrahan, Deputy Regional Director
Bureau of Waste Site Cleanup

Navpreet Brolowski

Bureau of Waste Site Cleanup

Town of Falmouth:

Mike Renshaw, Town Manager

Peter McConarty, DPW Director

Maura O'Keefe, Town Counsel



Environmental Investigation of the Trotting Park Baseball Fields

What we currently know

05/22/2025

List of Preliminary Environmental Investigations of Trotting Park Baseball Fields



Evaluation of stockpiled soil from construction at the ballfields **Late December 2024**



Initial site investigation of near surface soil at three baseball fields **Late December 2024-January 30, 2025**



ASTM Phase I Environmental Assessment **January 20, 2025**



Preliminary Risk Screening of near surface soil in baseball fields **February 20, 2025**



Geophysical study of landfill area **February 28, 2025**



Additional subsurface investigation including groundwater assessment **March 20-April 10, 2025**



Informal telephone conferences with MassDEP Section Chiefs **January 15 and April 7, 2025**

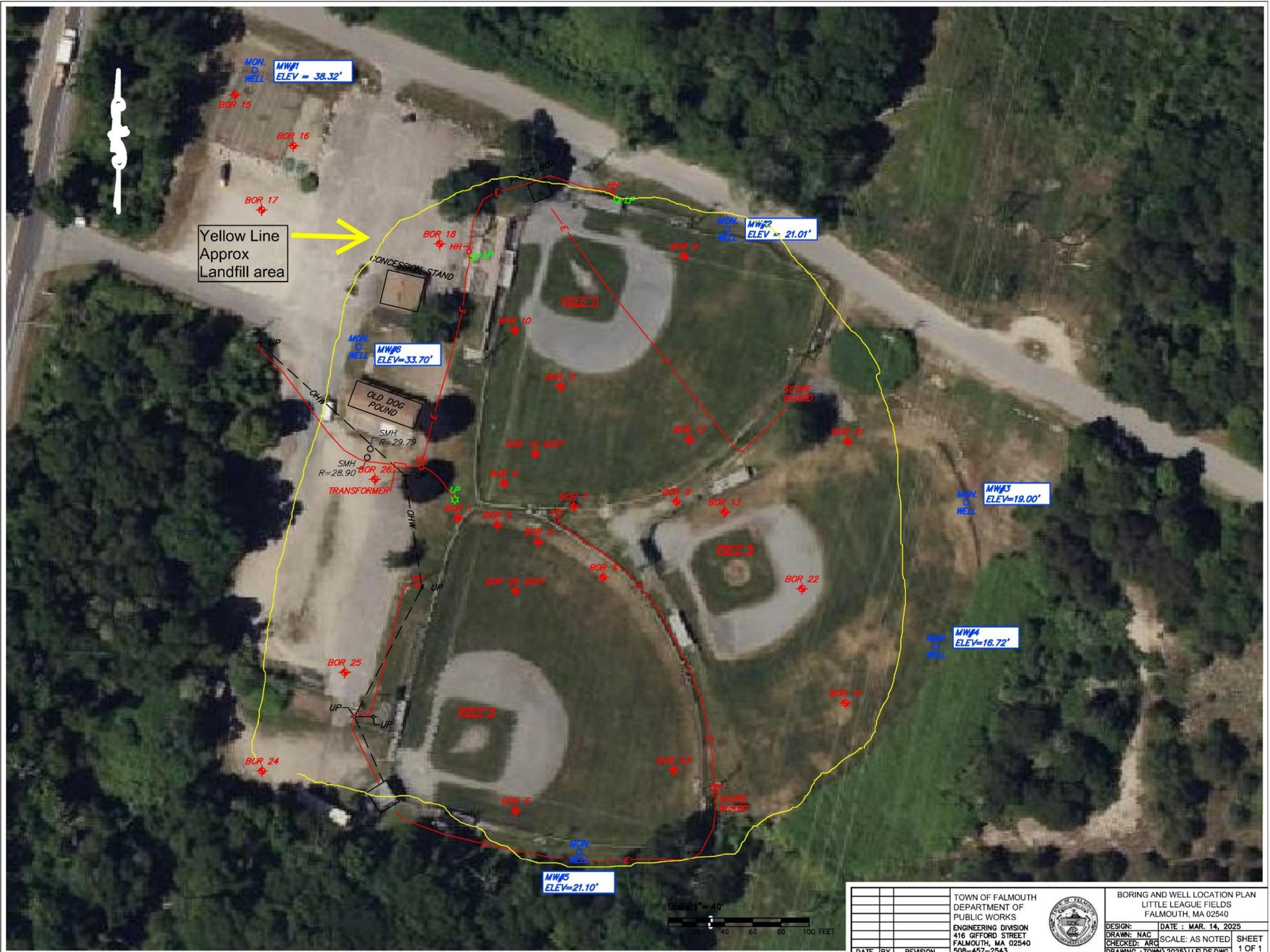
History and Use of the Landfill

The area was used for municipal waste from early 1920s to May 1957.

- Waste was collected and burned at the location.
- After the landfill was closed it was covered and used for other purposes.
- In the late 70s the area was developed for sport use.
- The 3 baseball fields were constructed starting in 1977.
 - **Field 1** was built 1977/78
 - **Field 2** was built 1985-1991
 - **Field 3** was built 2010-2014

Multiple lines of evidence to delineate area of landfill

- Aerial photographs from the 1950s
- Geophysical survey
- 26 soil borings and 6 monitoring wells
- Landfill material was found under all three fields at depths of 6 inches below ground to 18 feet below grade.
- Natural grass and 6 to 8 inches of fill present over the landfill material in the field areas
- Some pathways in the fields have evidence of glass debris at the surface.
- Landfill material contains glass and metal organic material; paper trash has not been observed in landfill material.



TOWN OF FALMOUTH
 DEPARTMENT OF
 PUBLIC WORKS
 ENGINEERING DIVISION
 416 GIFFORD STREET
 FALMOUTH, MA 02540
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BORING AND WELL LOCATION PLAN
 LITTLE LEAGUE FIELDS
 FALMOUTH, MA 02540

DESIGN:	DATE : MAR. 14, 2025
DRAWN: NAC	SCALE: AS NOTED
CHECKED: ARC	
DRAWING : TOWN\2025\LLFLDS.DWG	SHEET 1 OF 1

DATE	BY	REVISION

Preliminary Risk Screen Objectives & Results



Objective

Relying on data from the initial investigation, determine if near surface soil contained contaminants that would present a risk to the users of the ballfields using the guidelines for Risk Assessment allowed under the Massachusetts Contingency Plan (310 CMR 40.0000)



Safety

Exposed glass along the walking paths between the fields should be addressed.



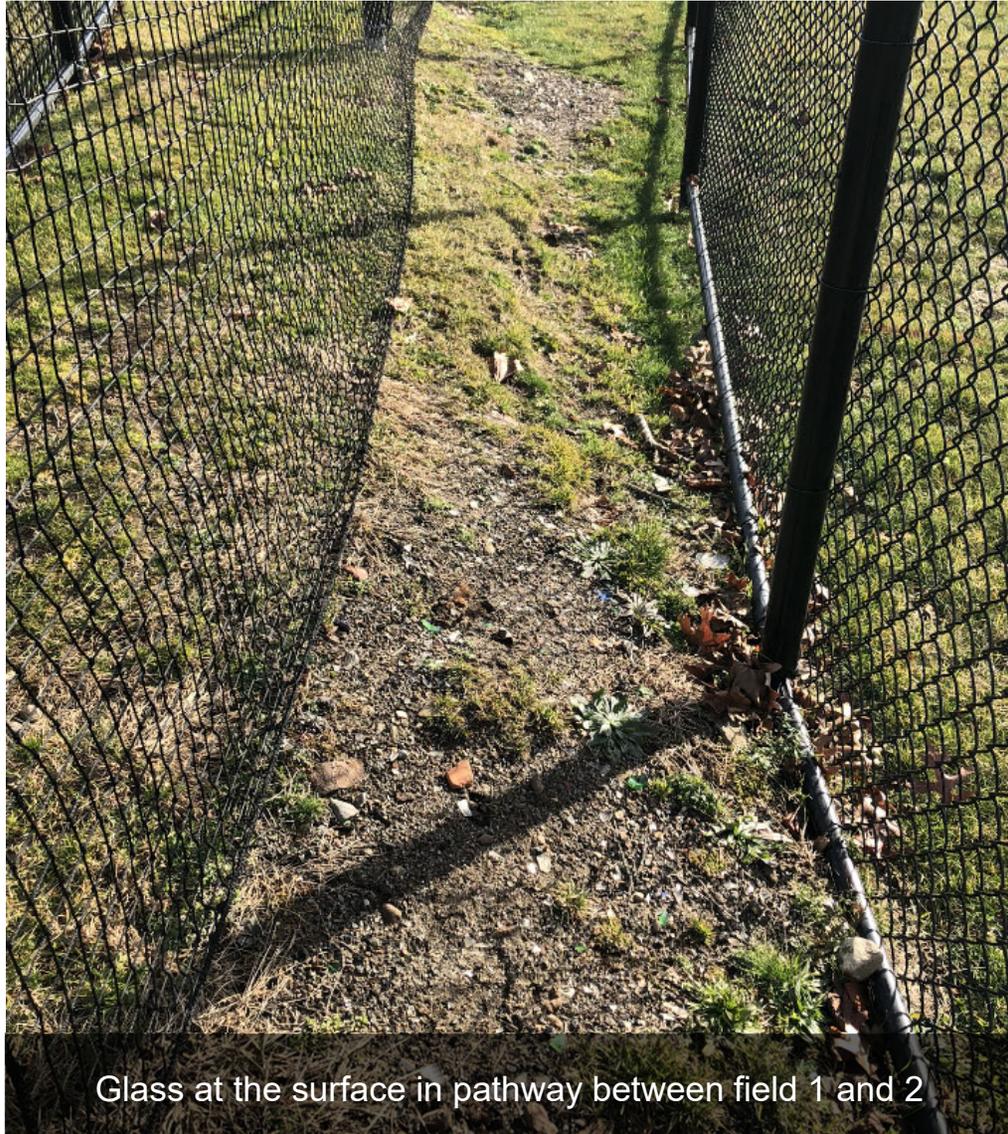
Health

The maximum concentration of lead measured in a topsoil sample from Field 1 could pose an Imminent Hazard to the health of a young child if access to this location is not restricted. The concentrations of lead and other constituents in topsoil on Fields 2 and 3 do not pose an Imminent Hazard to health.



Environment

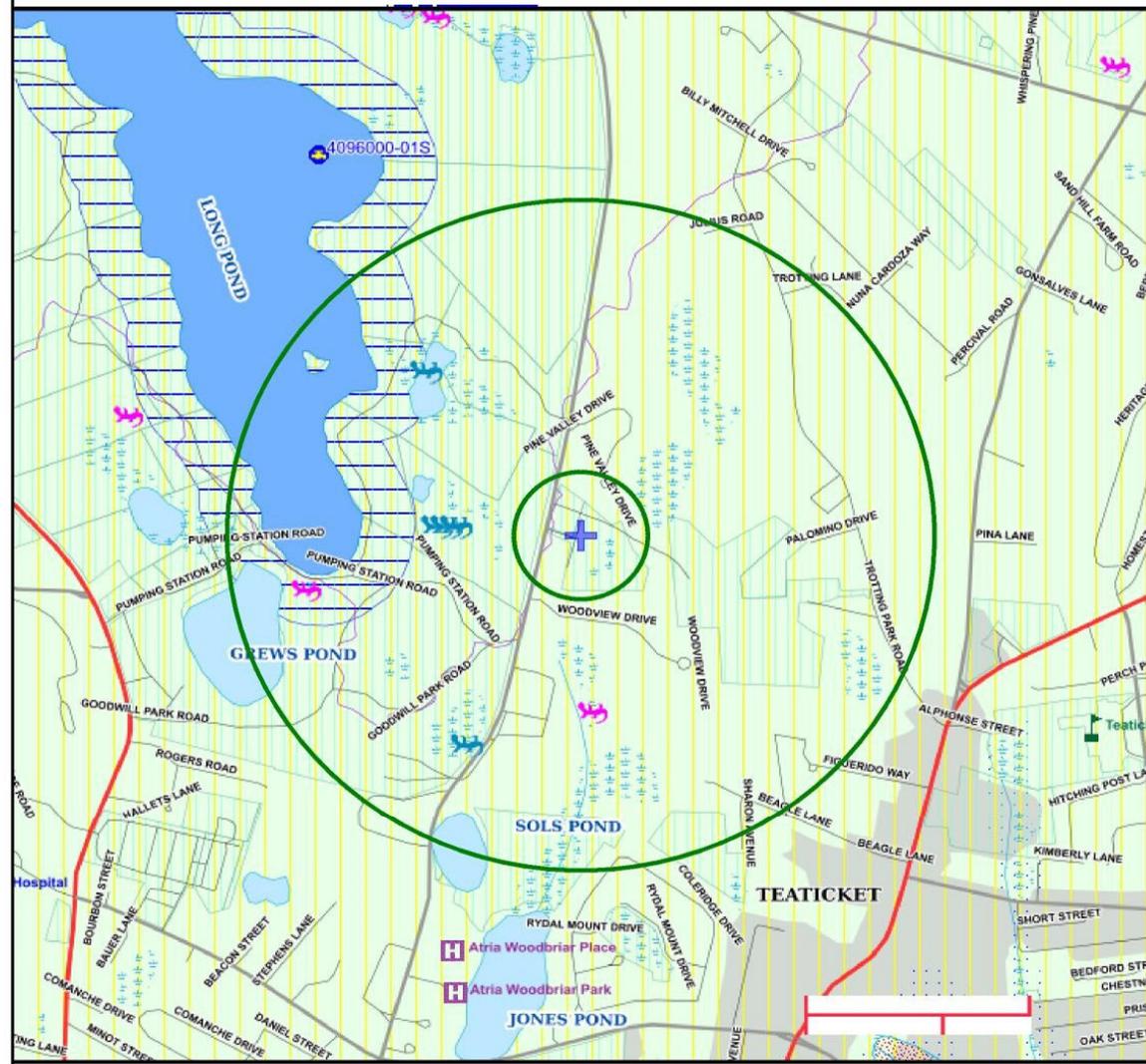
No Imminent Hazard conditions to the environment at the ballfields.



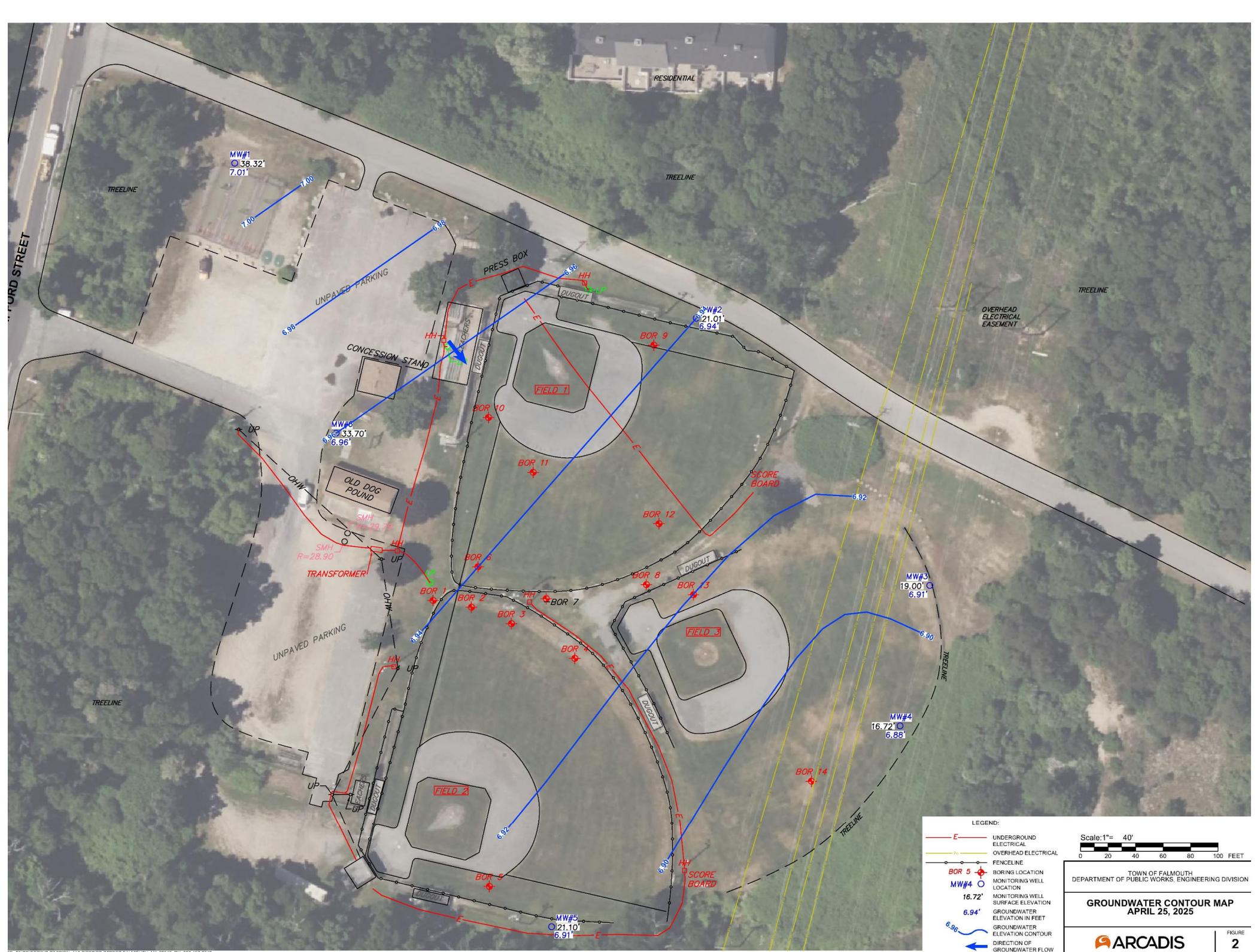
Glass at the surface in pathway between field 1 and 2

Typical landfill material with glass ash and metal

Groundwater Classification

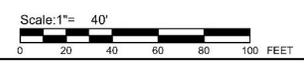


Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail	PWS Protection Areas: Zone II, IWPA, Zone A
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct	Hydrography: Open Water, PWS Reservoir, Tidal Flat
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	Wetlands: Freshwater, Saltwater, Cranberry Bog
Aquifers: Medium Yield, High Yield, EPA Sole Source	FEMA 100yr Floodplain; Protected Open Space; ACEC
Non Potential Drinking Water Source Area: Medium, High (Yield)	NHESP Pr-Hab of Rare Species; Vernal Pool: Cert., Potential
	Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com



LEGEND:

- **E** UNDERGROUND ELECTRICAL
- **PH** OVERHEAD ELECTRICAL
- FENCELINE
- + **BOR 5** BORING LOCATION
- **MW#4** MONITORING WELL LOCATION
- 16.72' SURFACE ELEVATION
- 6.94' GROUNDWATER ELEVATION IN FEET
- 6.96 GROUNDWATER ELEVATION CONTOUR
- DIRECTION OF GROUNDWATER FLOW



TOWN OF FALMOUTH
DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION

**GROUNDWATER CONTOUR MAP
APRIL 25, 2025**

Soil and Groundwater Analysis (VOCs, Metals, PCBs, EPH and PAHs)

Soil Results

The following compounds were detected in the landfill material above the MCP Reportable Concentrations for soil ("RCS-1"):

- Antimony
- Arsenic
- PCBs
- Lead
- Naphthalene
- 2-Methylnaphthalene
- Benzo(a)pyrene
- Thallium

Groundwater Results

Six monitoring wells and the irrigation well at the soccer field were sampled for constituents of concern. All results were below the MCP Reportable Concentration ("RCGW-1") except the groundwater sample from monitoring well MW-2.

Tetrachloroethene found in one groundwater (not drinking water) sample from MW-2 at 27 µg/l which exceeds the RCGW-1 criterion of 5 µg/L.

Summary of Preliminary Investigation

- The site was the location of a former landfill that was closed in 1957.
- The approximate area of the former landfill has been delineated.
- The location has constituents in soil and groundwater at concentrations above Reportable Concentrations established by MassDEP; and is regulated under the MCP.
- The site has been assigned a Release Tracking Number (RTN) 4-0051743.
- The location is an area designated a medium or high yield aquifer therefore the RCGW-1 standards for groundwater apply.
- The closest water supply is at Long Pond; the raw water inlet is approximately 2,500 feet to the northwest.
- There are no known private drinking water wells within 500 feet of the site.
- Groundwater flow is toward the southeast away from Long Pond.

Next Steps

Additional investigation

10 soil borings are planned for geotechnical and design purposes

Additional borings to determine extent of the landfill material in parking lot area

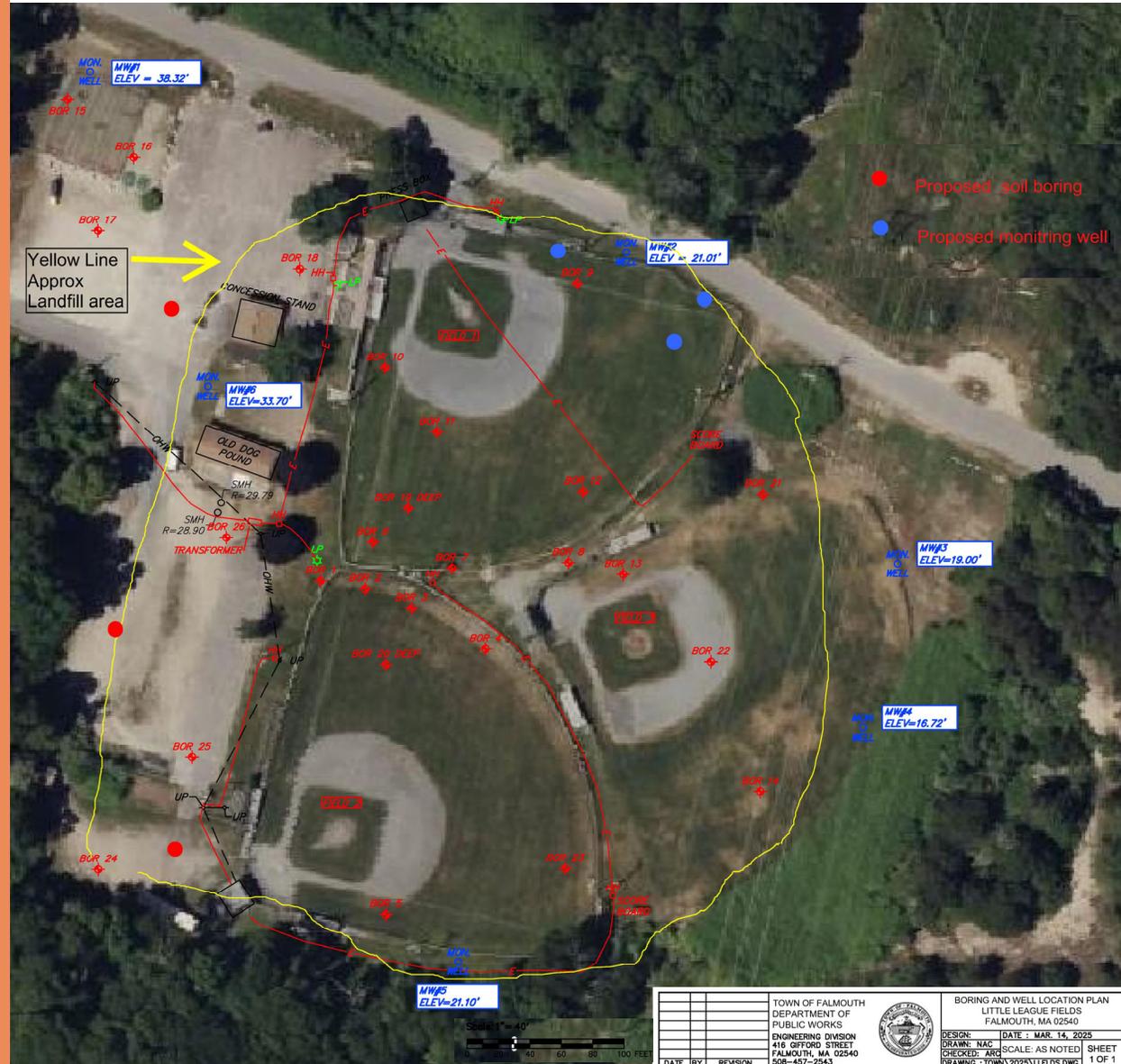
Additional borings and monitoring wells to investigate the presence of PCE

Work with design team on remediation options

Additional groundwater sampling

Risk Characterization of new data to be collected

Reporting results



Options For Site Closure Under the Regulations

- A response action consisting of placing a geotextile membrane over the landfill material with 2 feet of clean cover with an Activity and Use Limitation (AUL). The AUL will restrict exposing the underlying landfill material without the proper safety precautions and a soil management plan prepared by a Licensed Site Professional (LSP).
- A response action consisting of placing a geotextile membrane over the landfill material with 1 foot of clean cover fill, over which is placed synthetic turf cover with AUL Or a combination of the remedies listed above.



Arcadis Team



**James A Luker,
PG, LSP**

Principal Geologist

Licensed Site Professional
(LSP) since 1993

Registered Professional
Geologist PG State of New
Hampshire

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**Janet Keating-Connolly,
MS, LSP**

Technical Expert

Conducting human health
risk assessments in
accordance with the
Massachusetts Contingency
Plan since 1988

Licensed Site Professional
(LSP) since 2002

Thank you.

Public Works Presentation



TROTTHING PARK LITTLE LEAGUE BASEBALL FIELD COMPLEX

TROTTHING PARK ACCESS ROAD

FIELD #1

FIELD #3

FIELD #2

Falmouth Youth Baseball Fields 525

Google Earth

Image © 2025 Airbus

TROTTHING PARK LITTLE LEAGUE FIELD BASEBALL COMPLEX

Q & A

Questions and Comments from In-Person Attendees and Via Zoom Chat

Individuals Available for Questions

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