



# Governor's Task Force on the Seacoast Cancer Cluster Investigation

## Coakley Landfill Update

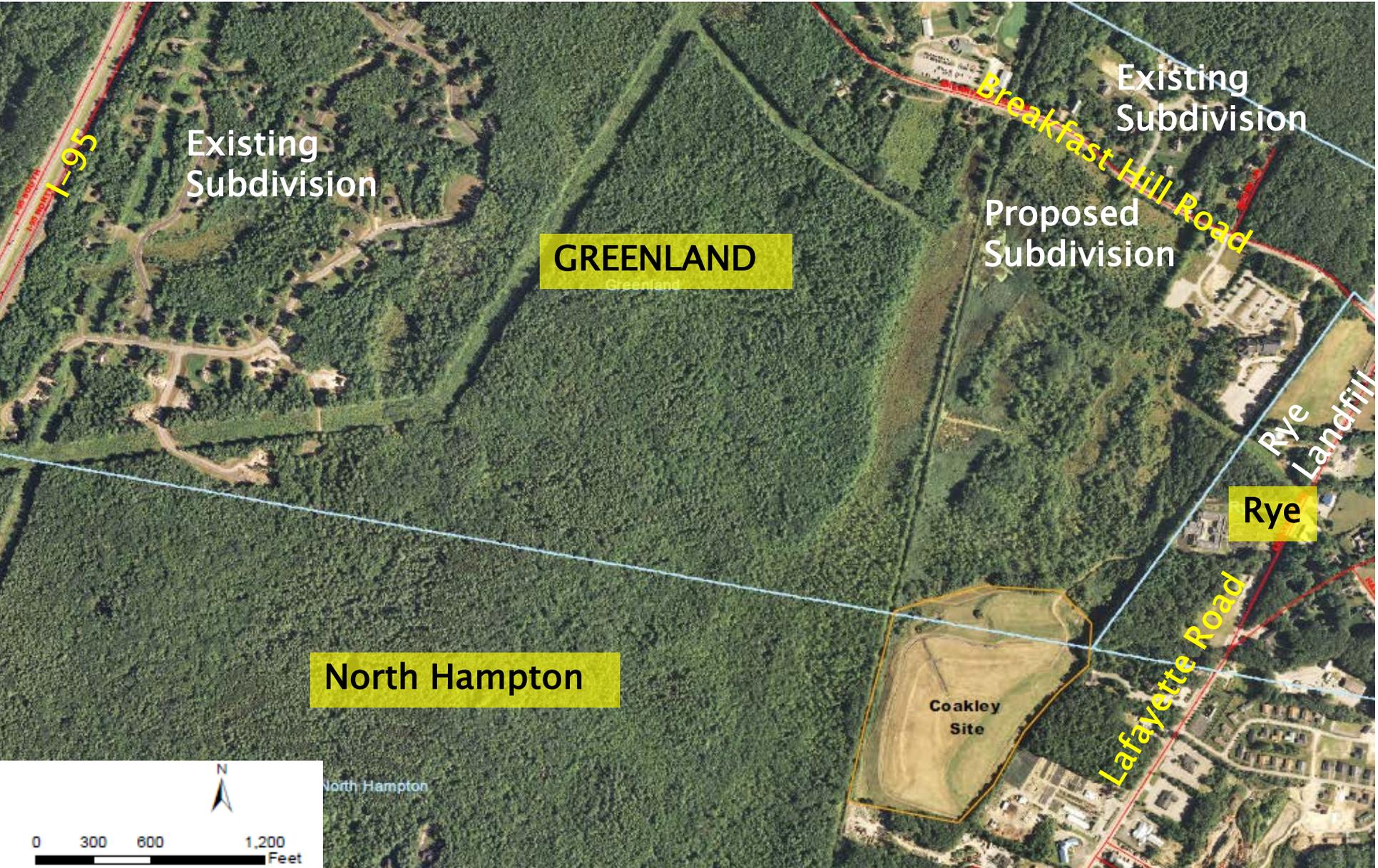
September 14, 2016

Presented by  
New Hampshire Department of  
Environmental Services

# Coakley Landfill Update

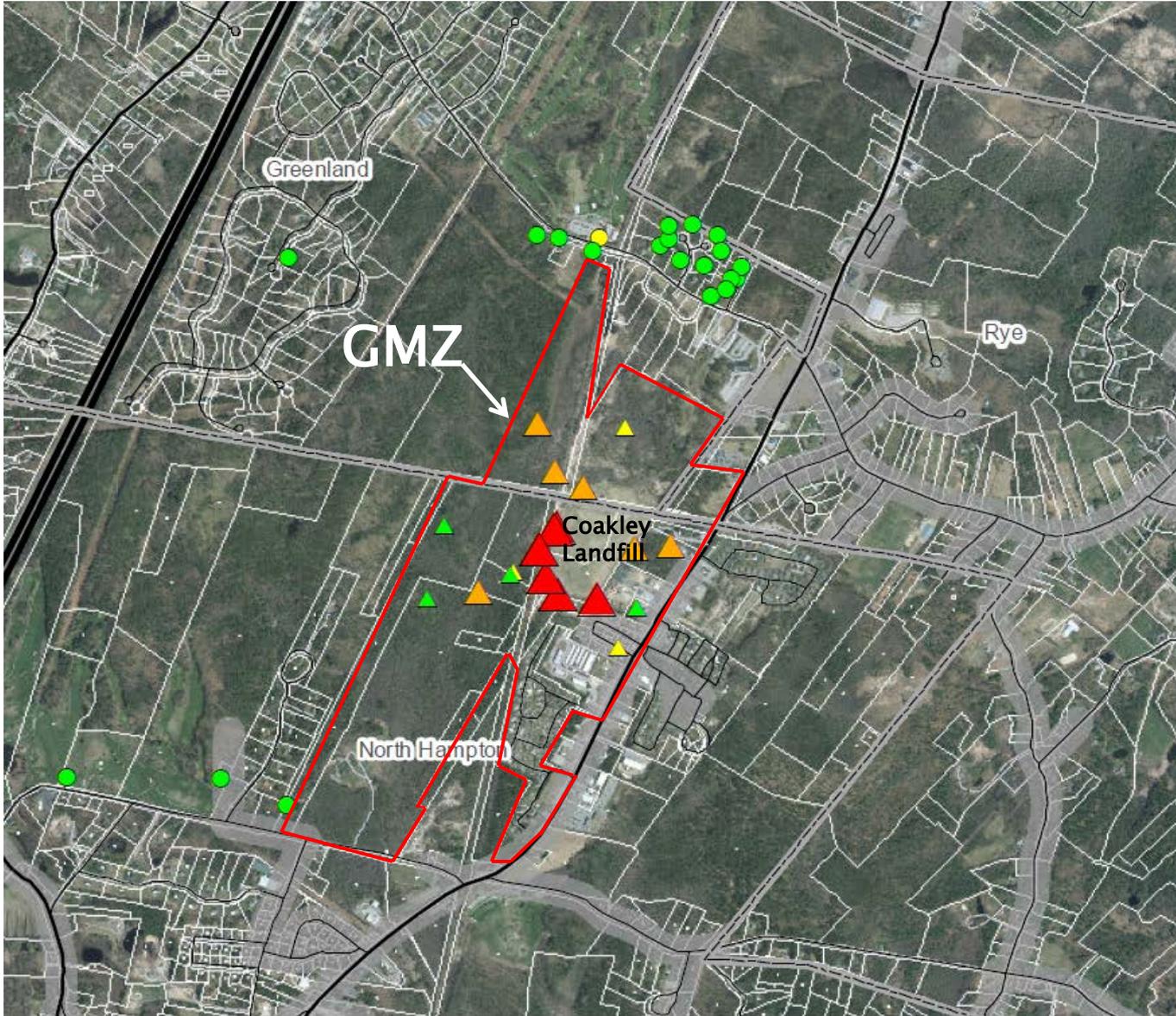
- ▶ PFOA/PFOS results
- ▶ 1,4-dioxane status & groundwater flow
- ▶ Information needs
- ▶ Area drinking water well review
- ▶ Summary of next steps

# Coakley Landfill Site Orientation



# PFOA/PFOS Results

COAKLEY LF



## PFOA + PFOS (PPT)

Public/Private Well	Monitoring Well	Concentration Range (PPT)
Red Circle	Red Triangle	≥400
Orange Circle	Orange Triangle	70 - <400
Yellow Circle	Yellow Triangle	10 - <70
Green Circle	Green Triangle	< 10

## Public Water Supplies

- Water Distribution
- Groundwater Management Zone (GMZ)
- Political Boundary

1 in = 2,000 feet

1:24,000





# Information Needs

## COAKLEY LF

### PFOA + PFOS (PPT)

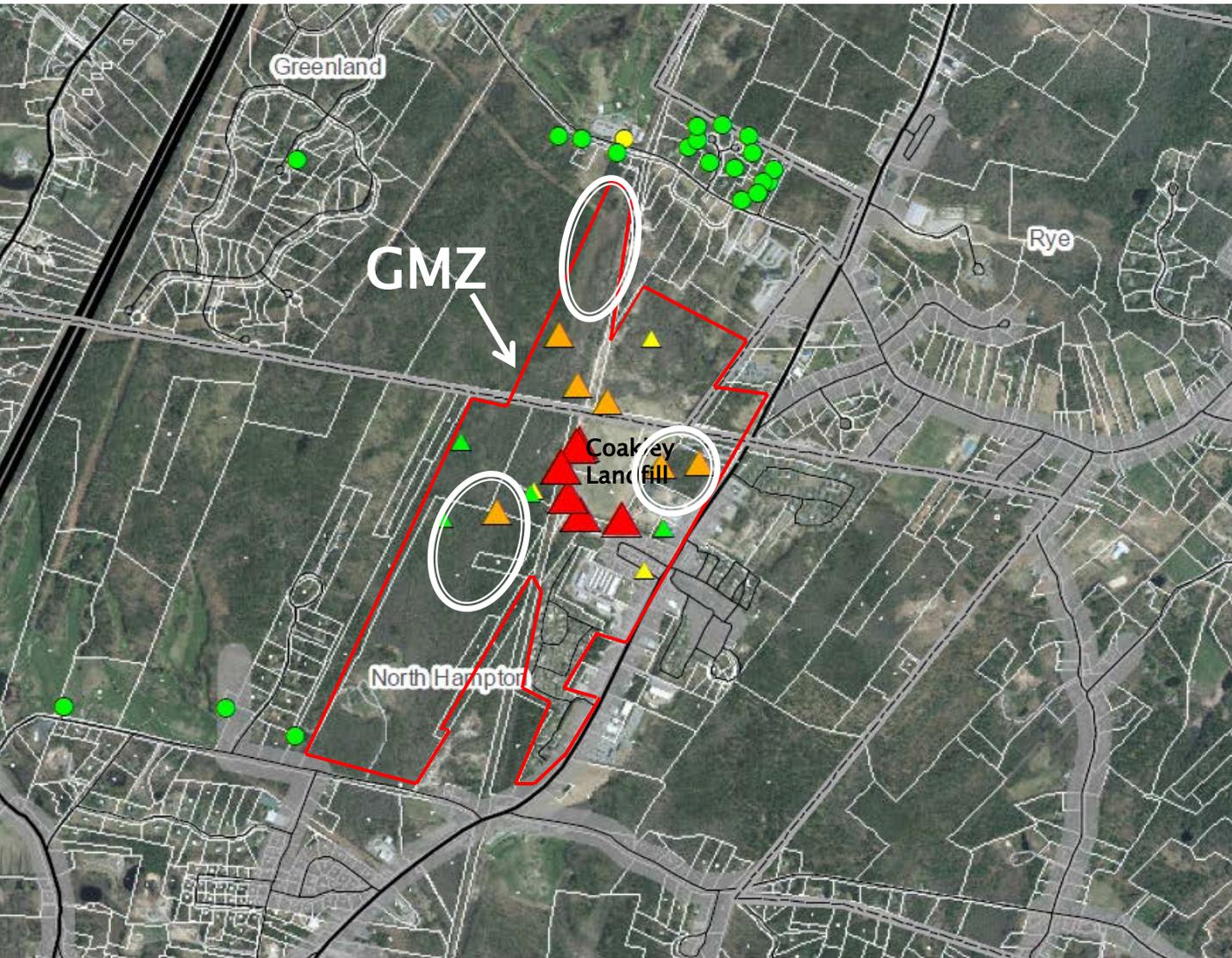
Public/Private Well	Monitoring Well	Concentration (PPT)
Red Circle	Red Triangle	$\geq 400$
Orange Circle	Orange Triangle	70 - <400
Yellow Circle	Yellow Triangle	10 - <70
Green Circle	Green Triangle	< 10

### Public Water Supplies

Grey Box	Water Distribution
Red Line	Groundwater Mngmnt Zone (GMZ)
White Outline	Political Boundary

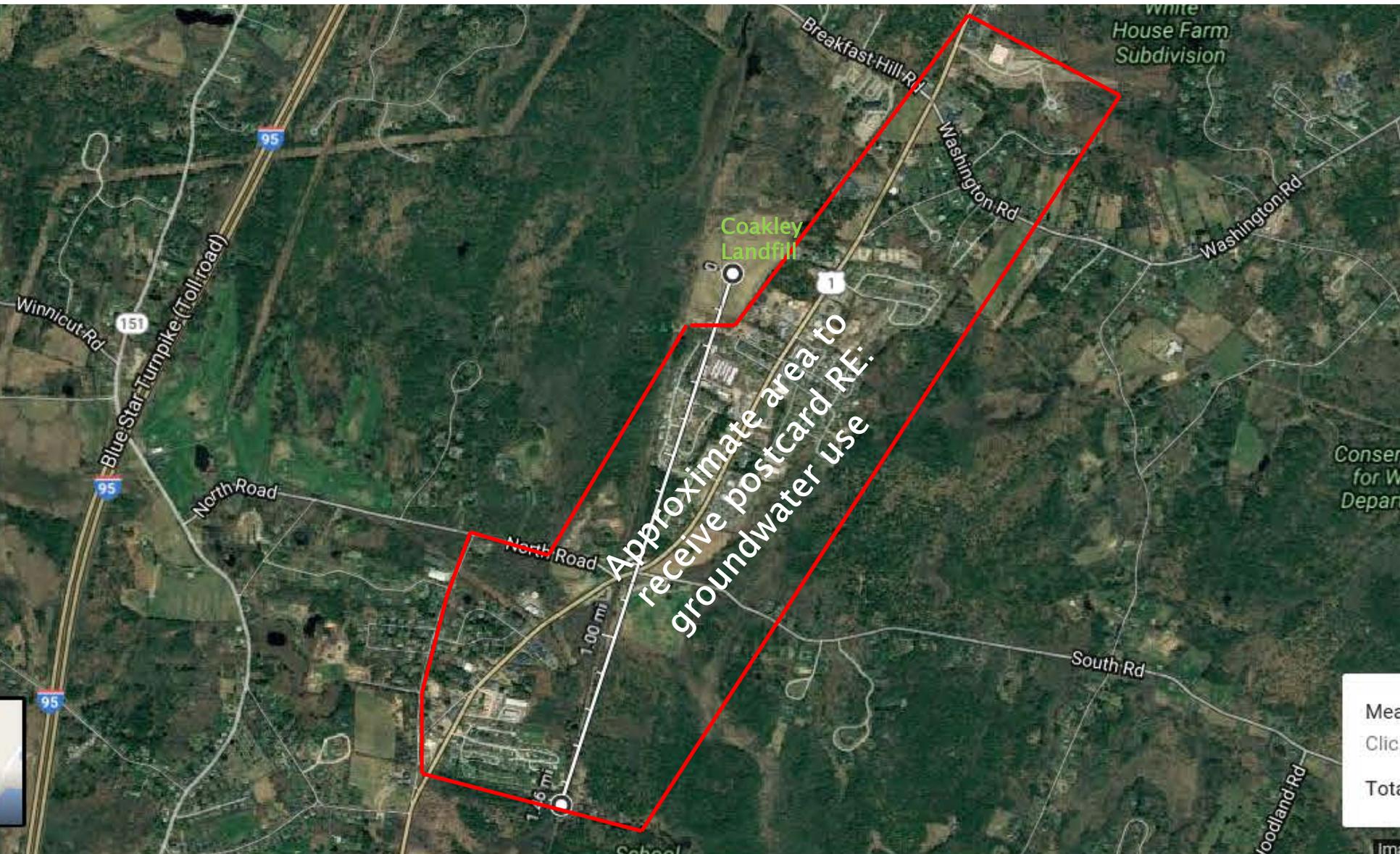
1 in = 2,000 feet

1:24,000





# Area Well Review



# Summary of Next Steps

## ▶ **General**

- Area well review (postcards to be mailed week of 9/19)
- Support EPA in further evaluation of PFOA/PFOS
- Surface water & sediment sampling for 1,4-dioxane & PFOA/PFOS

## ▶ **North of Landfill**

- Residential well sampling to continue
- Compliance wells (demonstrate clean boundary)
- Water main extension to proposed subdivision
- Support Town of Greenland in sampling of residential wells

## ▶ **South of Landfill**

- PRP-lead residential well sampling to continue
- Compliance wells to be identified

## ▶ **East of Landfill**

- Confirm groundwater flow direction
- Evaluate next steps

**support slides follow**





BREAKFAST HILL ROAD

PROPOSED  
MONITORING WELL

TAX MAP R-1, LOT 13  
ELMER H. SOWAL, TRUST OF 1981  
340 BREAKFAST HILL ROAD  
GREENLAND, NH 03840  
R.C.R.D. BOOK 2189, PAGE 128

TAX MAP R-1, LOT 14  
SOMERSET CONGREGATIONAL CHURCH, INC.  
550 BREAKFAST HILL ROAD  
GREENLAND, NH 03840  
R.C.R.D. BOOK 2172, PAGE 225A

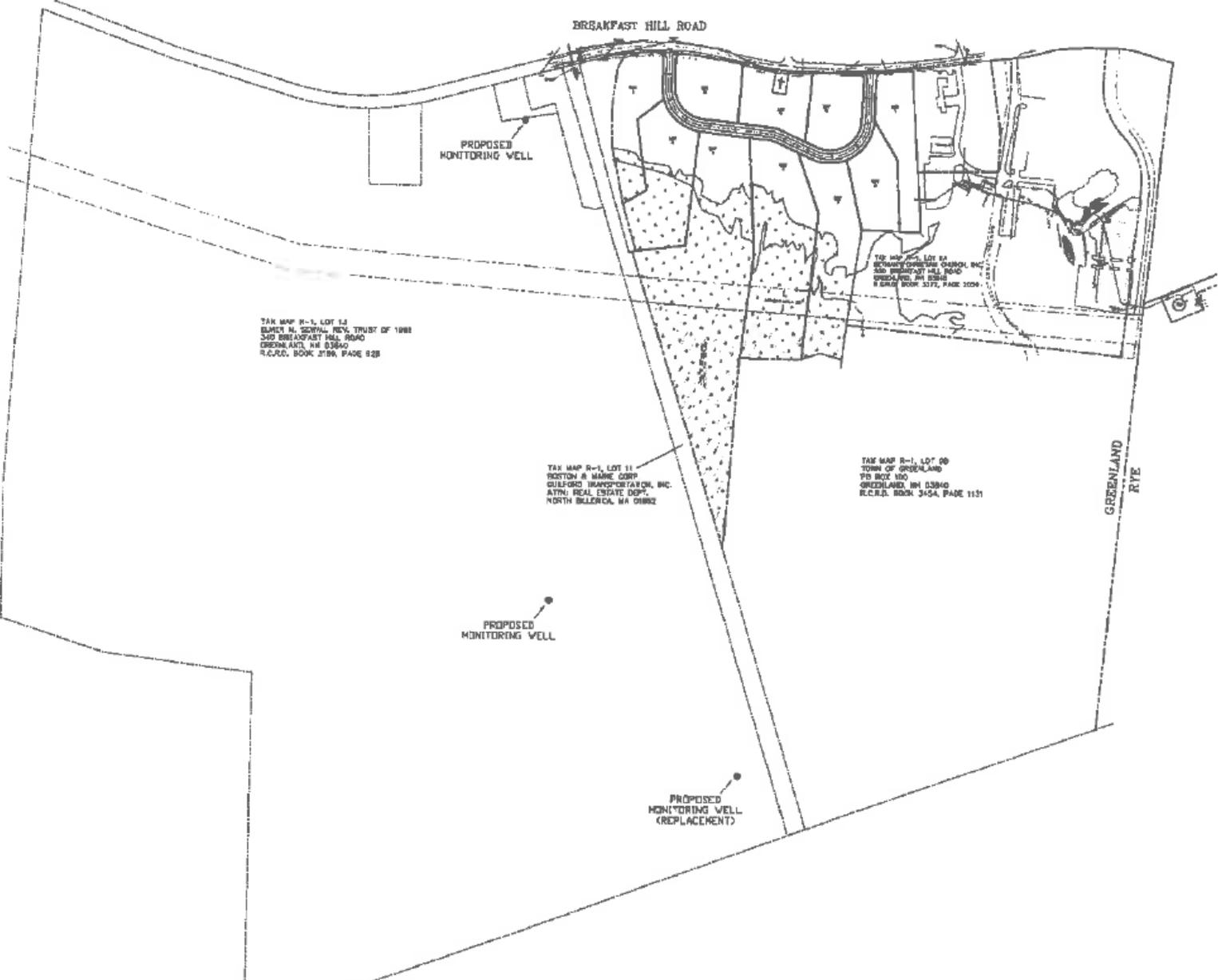
TAX MAP R-1, LOT 11  
SECTION 8 MAINE CORP  
SULPHUR MANUFACTURING, INC.  
ATTN: REAL ESTATE DEPT.  
NORTH BILLERICA, MA 01862

TAX MAP R-1, LOT 20  
TOWN OF GREENLAND  
P.O. BOX 110  
GREENLAND, NH 03840  
R.C.R.D. BOOK 3454, PAGE 1151

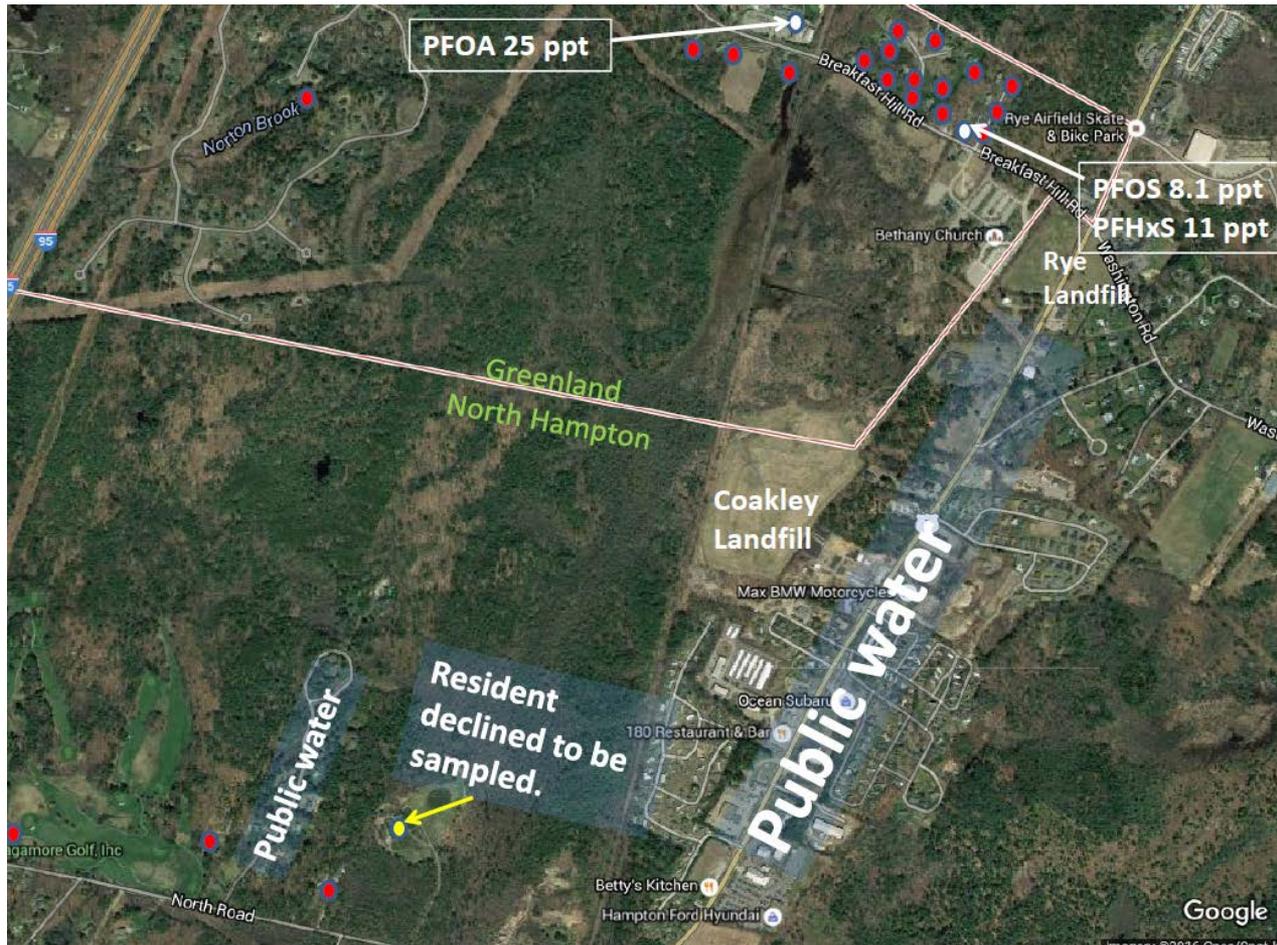
PROPOSED  
MONITORING WELL

PROPOSED  
MONITORING WELL  
(REPLACEMENT)

GREENLAND  
EYE

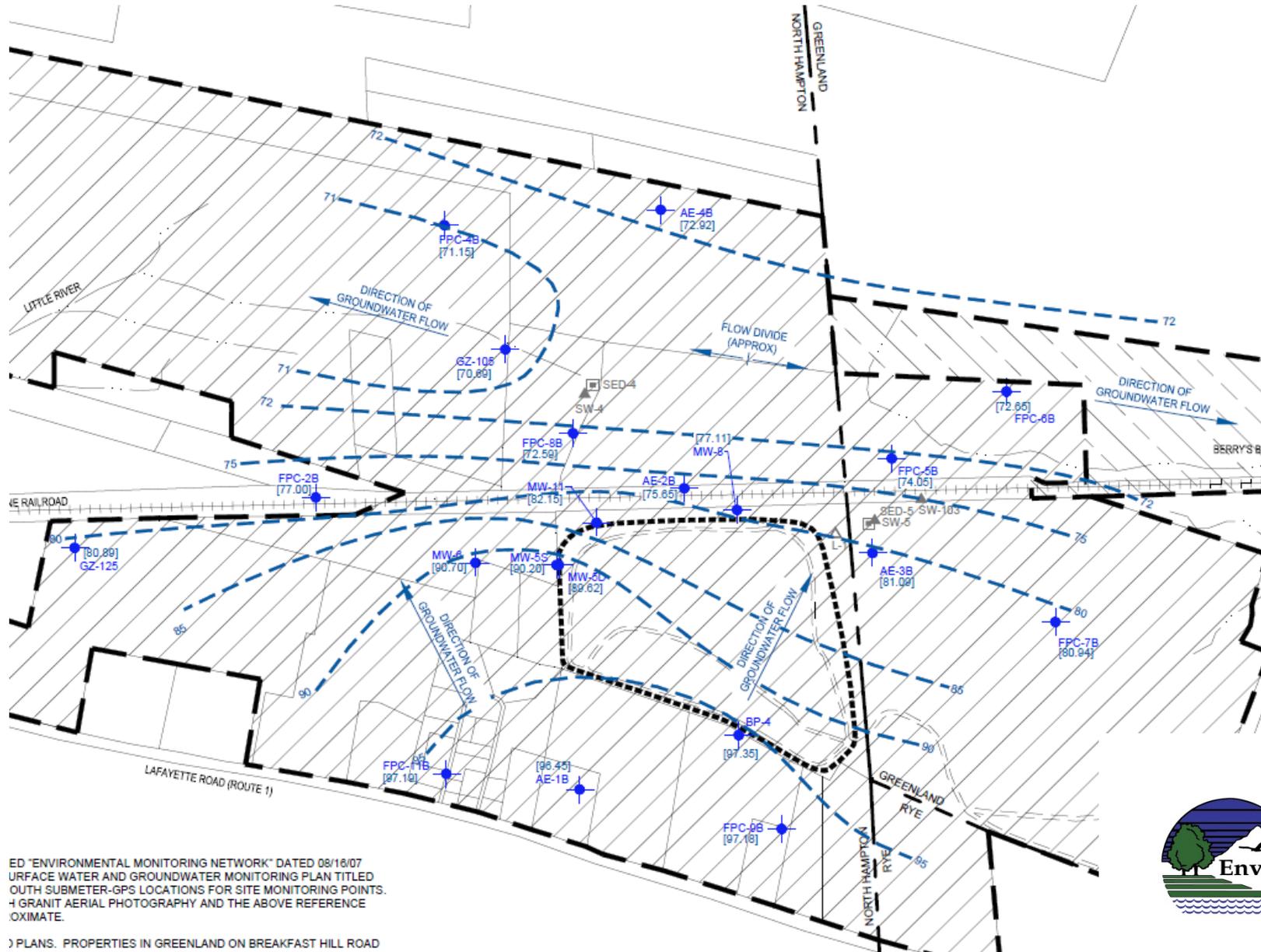


# 2016 PFC Residential Sampling Extent





# Bedrock Groundwater Contours

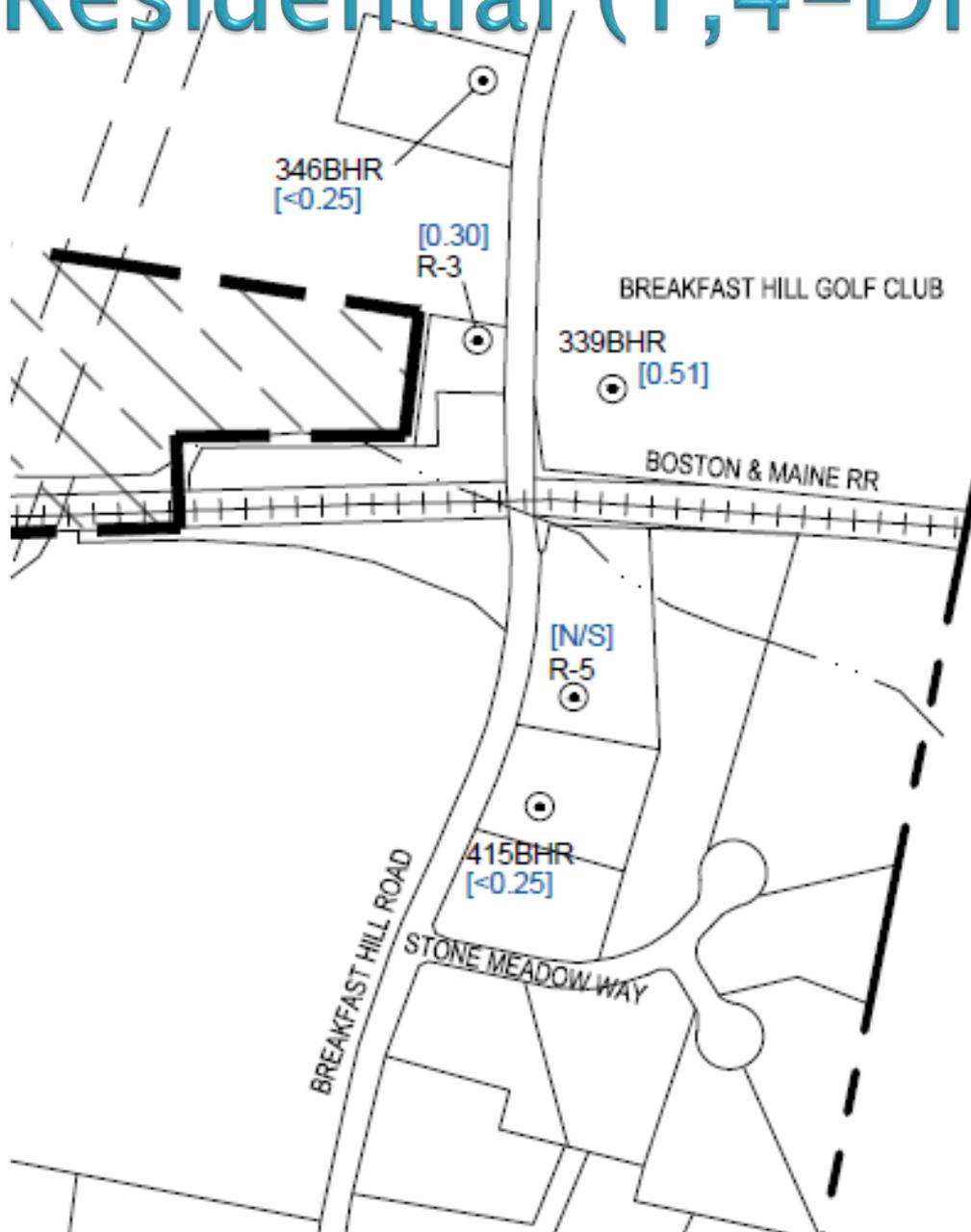


ED "ENVIRONMENTAL MONITORING NETWORK" DATED 08/16/07  
 URFACE WATER AND GROUNDWATER MONITORING PLAN TITLED  
 OUTH SUBMETER-GPS LOCATIONS FOR SITE MONITORING POINTS.  
 + GRANIT AERIAL PHOTOGRAPHY AND THE ABOVE REFERENCE  
 OXIMATE.

) PLANS. PROPERTIES IN GREENLAND ON BREAKFAST HILL ROAD



# 2016 Residential (1,4-Dioxane)



Homes sampled in Stone Meadow Way neighborhood had no 1,4-dioxane detected.