



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

# Sundberg Gravel Pit

## Agreed Order Public Comment Period

Jerome Lambiotte, CPG, Section Manager, TCP-SWRO

Connie Groven, P.E., Project Manager; Nancy Davis, Section Planner

<https://apps.ecology.wa.gov/cleanupsearch/site/10635>

# **Sundberg Gravel Pit Public Review Draft Agreed Order DE 21913 Remedial Investigation Work Plan**

**6:00-6:45 Open House**

**6:45-8:00 Presentation and Q&A**

**8:00-8:30 Open House**

Public Comment Period closes September 16, 2024, 11:59 PM PST

- Submit online: <http://tcp.ecology.commentinput.com/?id=h7UYfTDC4>

Available  
for  
comment

Your comments are needed on:

- **Sundberg Gravel Pit Agreed Order No. 21913**
  - Exhibit A: Site Location Map
  - Exhibit B: Sundberg Gravel Pit Data Gap Report and Remedial Investigation Work Plan
  - Exhibit C: Scope of Work and Schedule
- **Public Participation Plan**
- **Site webpage:** <https://apps.ecology.wa.gov/cleanupsearch/site/10635>

# How to comment

Submit Comments through  
September 16, 11:59 PM

- **Submit comments online**

- <http://tcp.ecology.commentinput.com/?id=h7UYfTDC4>

- **Or by mail or email**

- **Connie Groven, Site Manager**

- WA State Department of Ecology

- PO Box 47775

- Olympia, WA 98504-7775

- [Connie.Groven@ecy.wa.gov](mailto:Connie.Groven@ecy.wa.gov)

- **Printed document review**

- **Olympia Timberland Regional Library**

- **Ecology Lacey Office by appointment**

- [PublicDisclosureSWRO@ecy.wa.gov](mailto:PublicDisclosureSWRO@ecy.wa.gov)

- [or 360-407-6365](tel:360-407-6365)



# Comment Response

After the comment period, we will:

- Consider your comments,
- Update the documents as needed, and
- Respond to comments in a comment response document.

# Outline

- 1** The cleanup process
- 2** Location and history
- 3** Current conditions and community concerns
- 4** Needed Information
- 5** Agreed order and work plan
- 6** Next steps



# The cleanup process



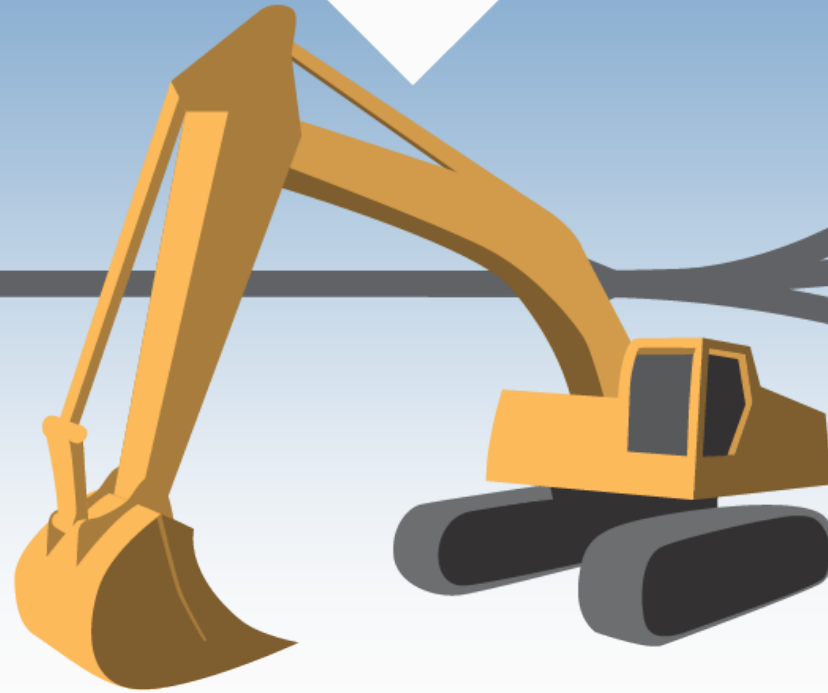


# Ecology's role



## Contamination

A leak, spill, or old industrial methods may cause contamination.



## Cleanup

Most of the time, **polluters and property owners** clean up the site. **Ecology** oversees cleanup at large, complicated sites.

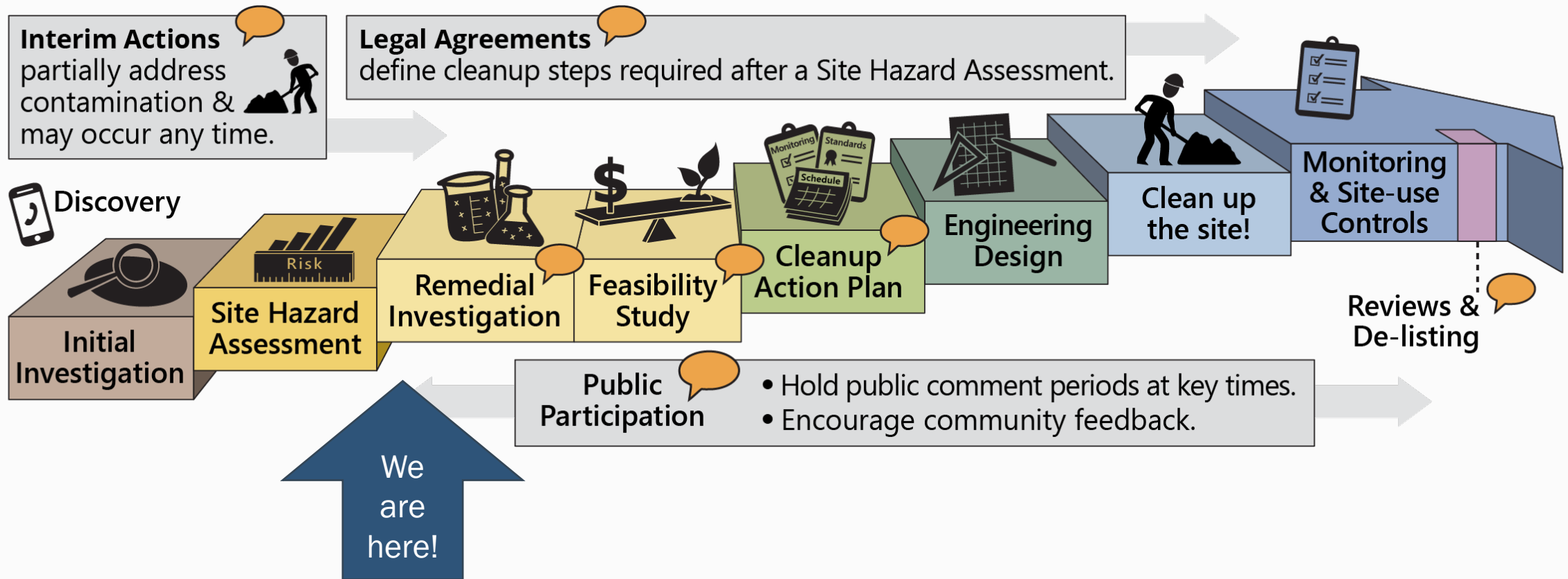


## Re-use

**Local zoning laws** determine how the site is used.



# Where we are in the process





# Location and history

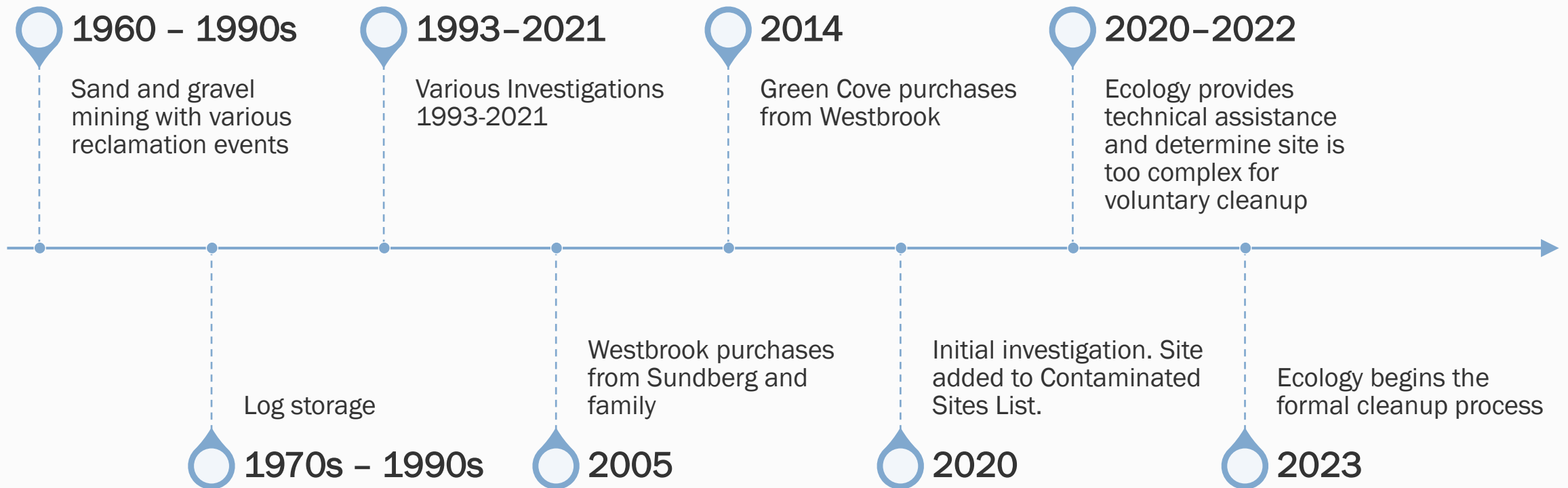




# Site Location









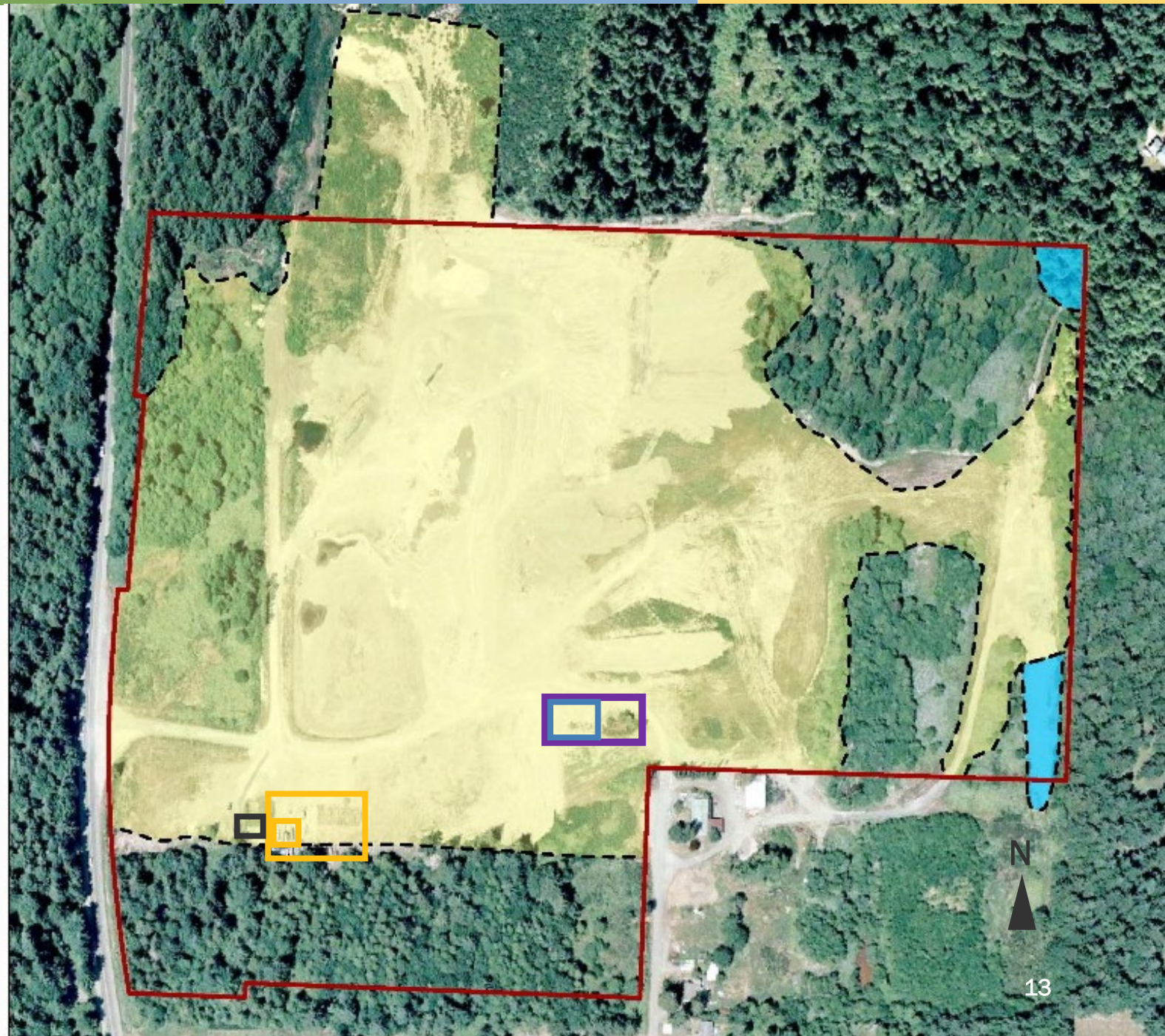
# History





# Land disturbance area

-  Property boundary
-  Disturbance area (Lidar & photos)
-  Historical sheds/shack
-  Former underground storage tank
-  Former garage area
-  Former residence





# Contaminants of Concern

- Diesel and heavy oil
- Volatile organic compounds (VOCs)
- SVOCs
- Metals (arsenic, iron and manganese)
- PCBs
- Pesticides
- Methane







# Current conditions and community concerns

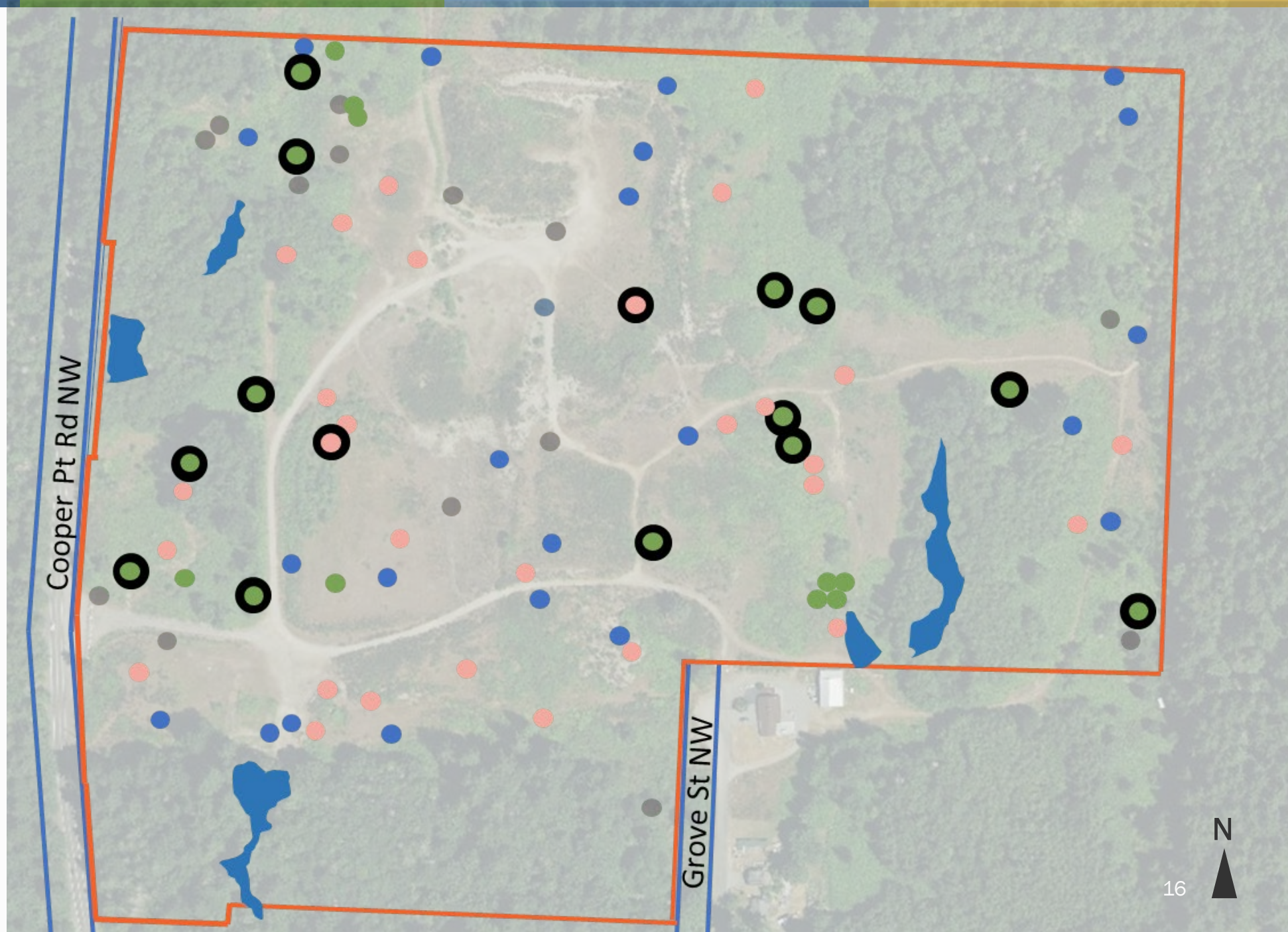




# Depth of Fill

(feet below surface)

- 0 (grey) ●
- 0-5 (blue) ●
- 5-10 (pink) ●
- 10-15 (green) ●
- Depth undetermined (back) ●





# Soil Results

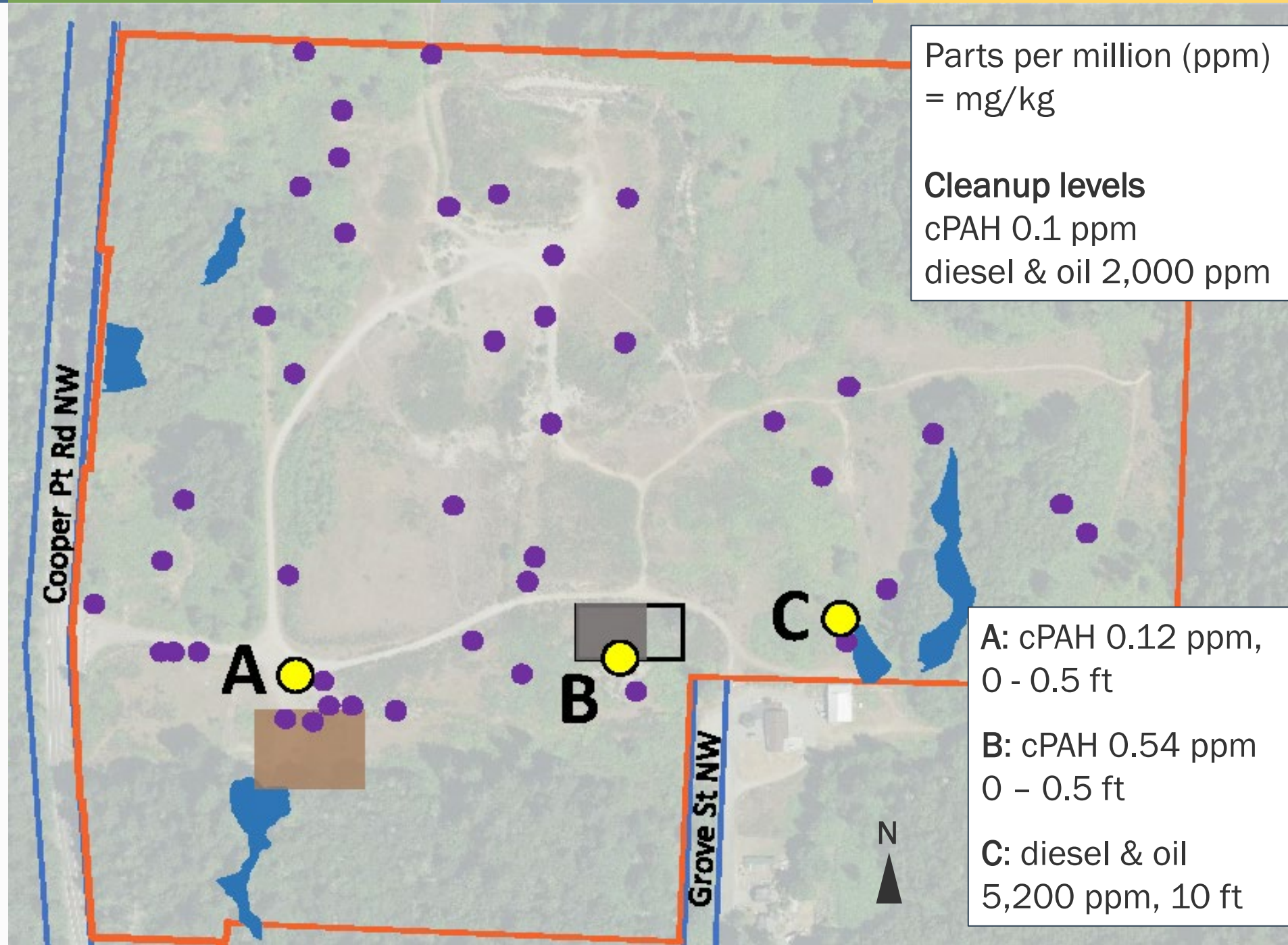
All tested contaminants below cleanup levels (purple)

One or more contaminants above cleanup levels (yellow)

Shed/shack area (1960-90)

Former UST & petroleum soil stockpile

Former garage



Parts per million (ppm) = mg/kg

**Cleanup levels**  
cPAH 0.1 ppm  
diesel & oil 2,000 ppm

**A:** cPAH 0.12 ppm, 0 - 0.5 ft

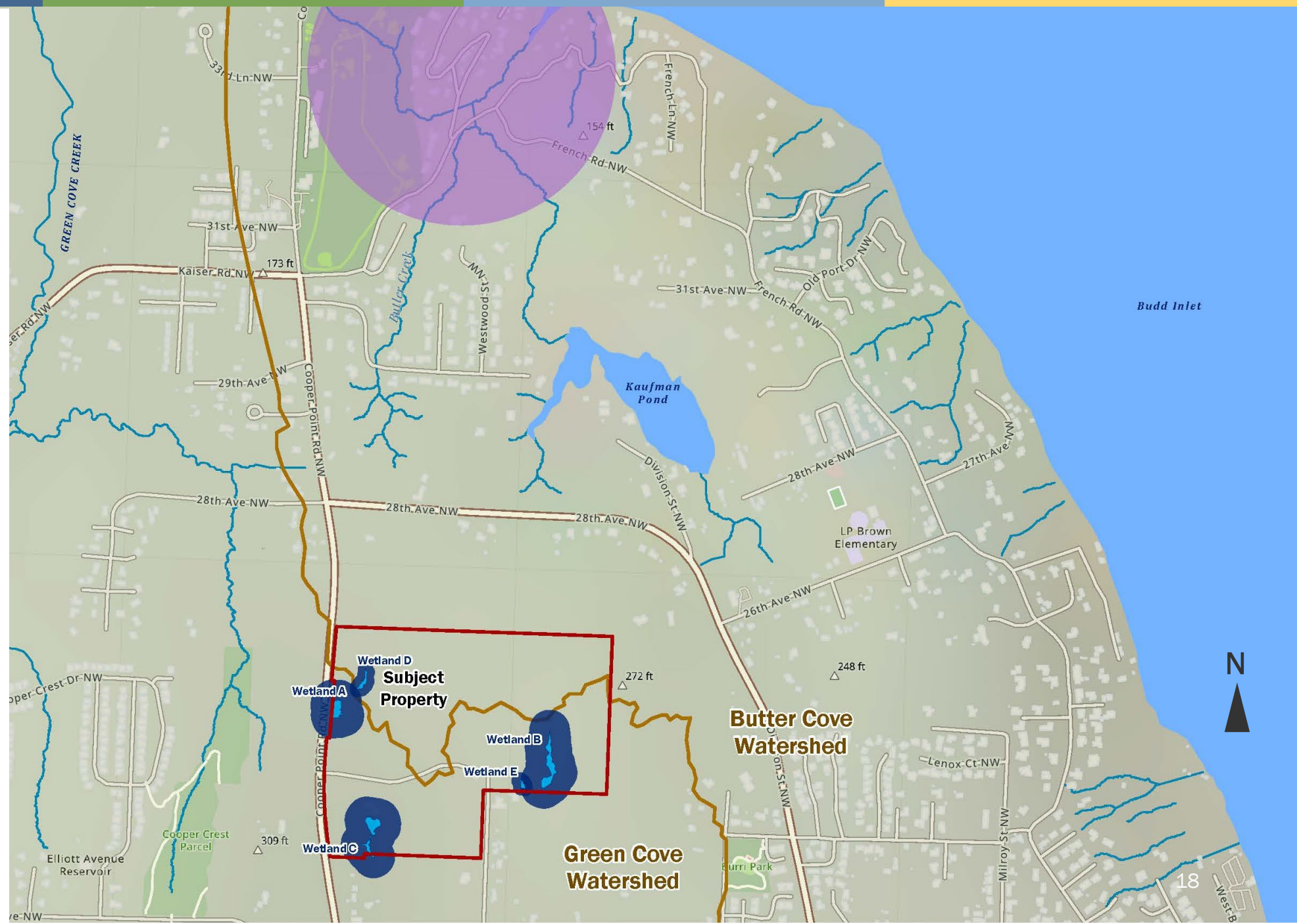
**B:** cPAH 0.54 ppm 0 - 0.5 ft

**C:** diesel & oil 5,200 ppm, 10 ft



# Surface Waters and Wellhead Protection Area

-  Wellhead protection Area
-  Wetland
-  Wetland buffer
-  Watershed boundary

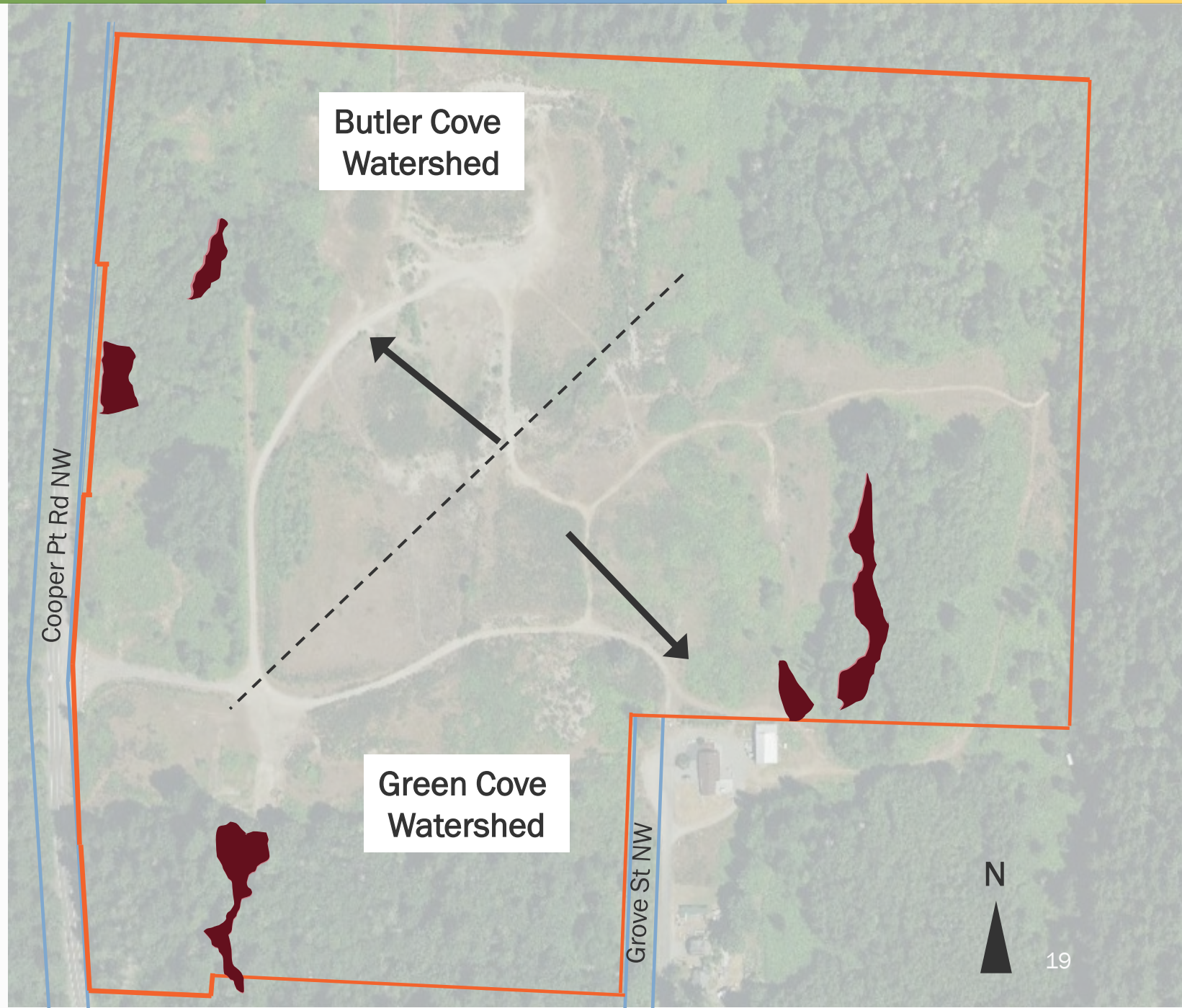




# Groundwater



Not to scale

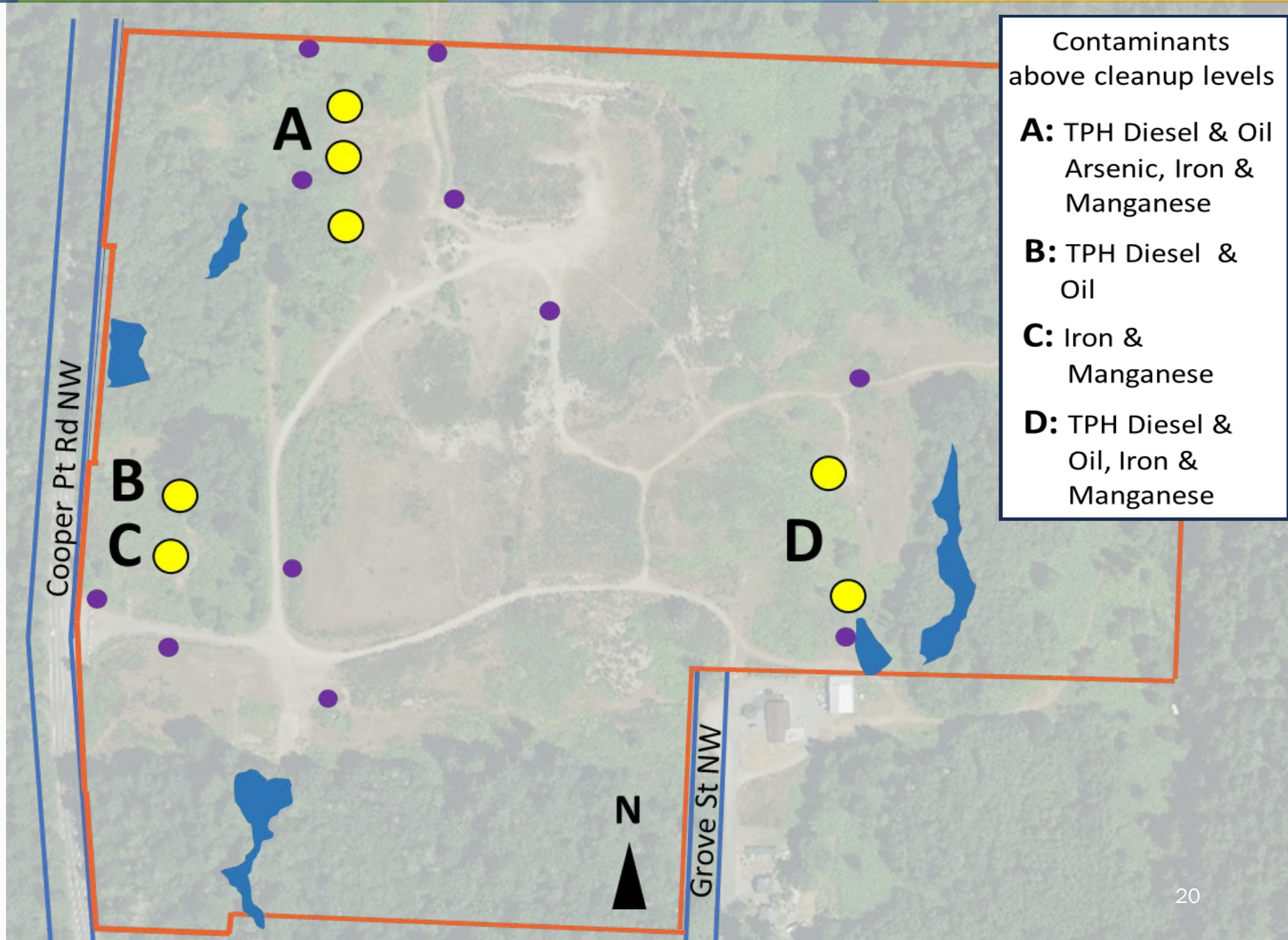




# Groundwater results

All test contaminants below cleanup levels (purple) ●

One or more contaminants above cleanup levels (yellow) ●





# Community Concerns



Quality of imported fill



Imported and buried materials



Buried drums of unknown materials



Fuel leaks and spills, leaking tanks



Wood debris – logs, barks, and roots, methane production



Pesticides



Stormwater runoff to creeks and wetlands



Protection of aquifers



Movement of contamination off-property



# Needed Information



**We need to  
better  
understand  
the...**

- Nature and extent of fill and whether it is contaminated
- Contamination in the area with the deep soil exceedance
- Contamination associated with fill near the north edge of the property and whether it extends off-property
- Contamination in fill near on west side of property
- Shallow groundwater across the property
- Wetland sediment and surface water
- Potential for generation of methane from buried wood debris.





# Agreed Order and Work Plan





# Agreed Order

Requires Green Cove to:

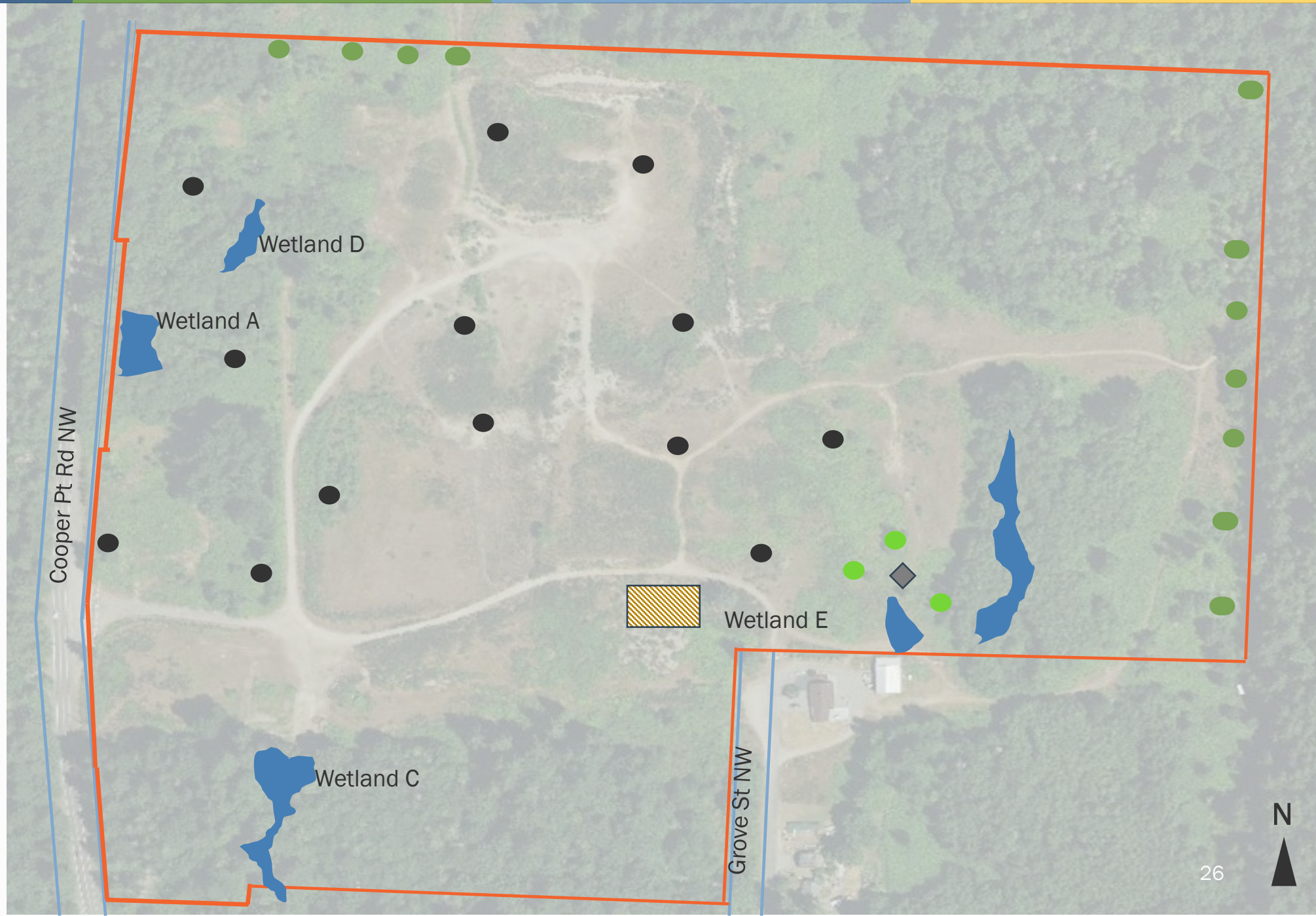
- Implement the attached work plan
  - Complete a remedial investigation
  - Do interim actions if required
  - Complete a feasibility study
  - Prepare a preliminary draft cleanup action plan
- 
- Exhibit A: Site Location Map
  - Exhibit B: Data Gap Report and Remedial Investigation Work Plan (**Work Plan**)
  - Exhibit C: Scope of Work and Schedule

Implementation of a draft cleanup action plan will be under a new order after public comment.



# Work Plan Fill and Soil

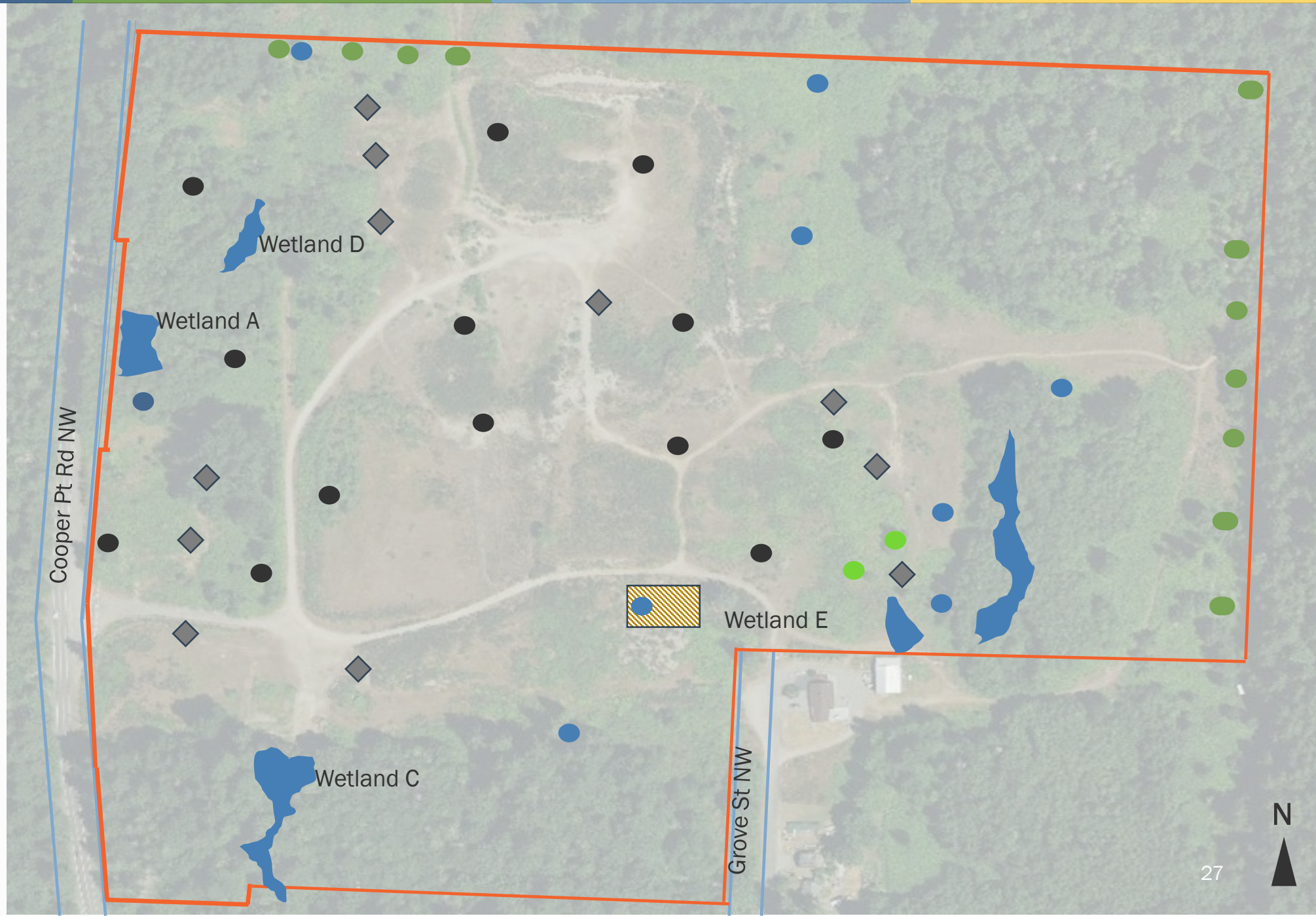
- soil test pit
- fill investigation
- soil boring





# Work Plan Groundwater

- soil test pit
- fill investigation
- soil boring
- ◆ existing GW well
- new GW well

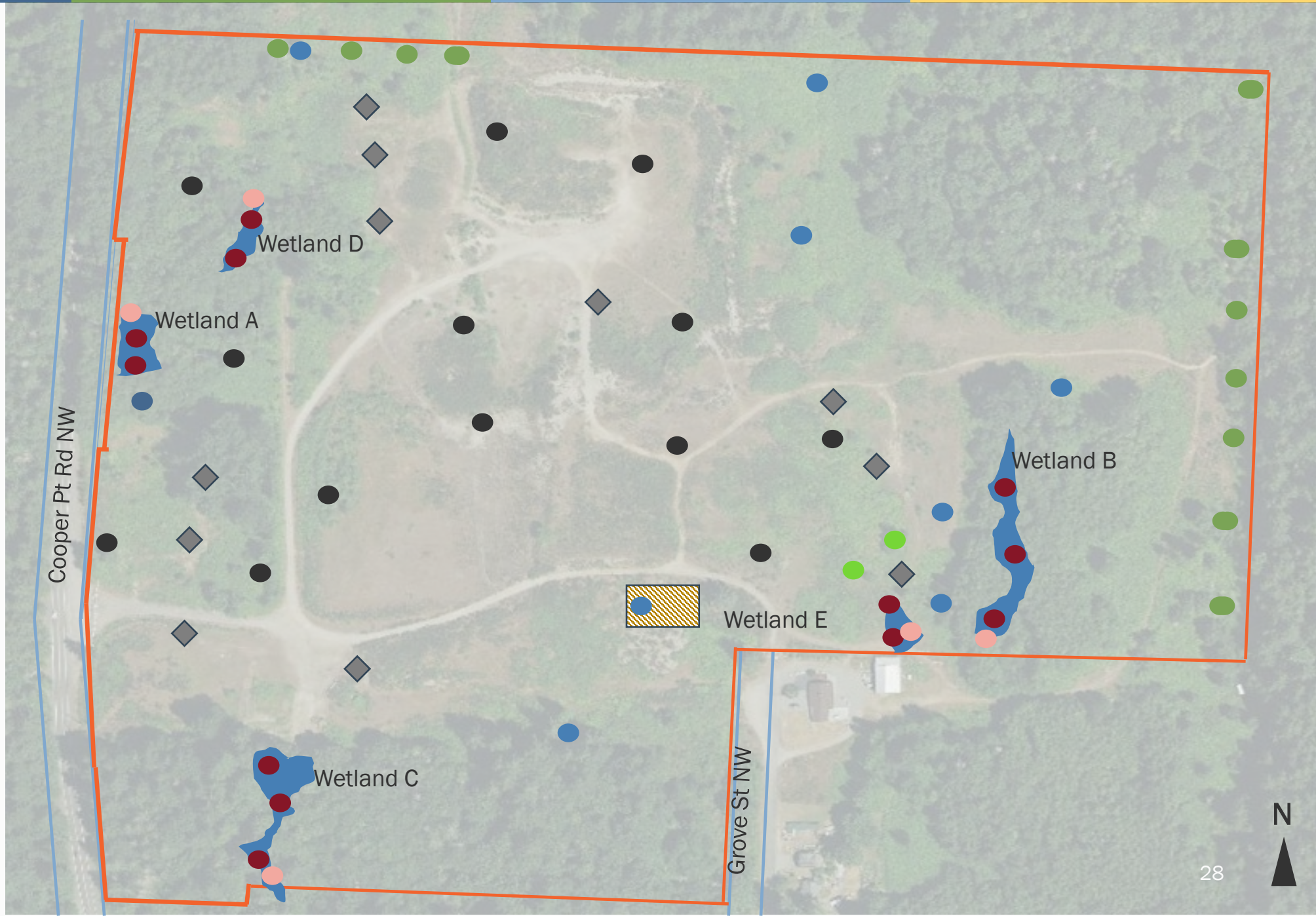




# Work Plan

## Surface water and sediment

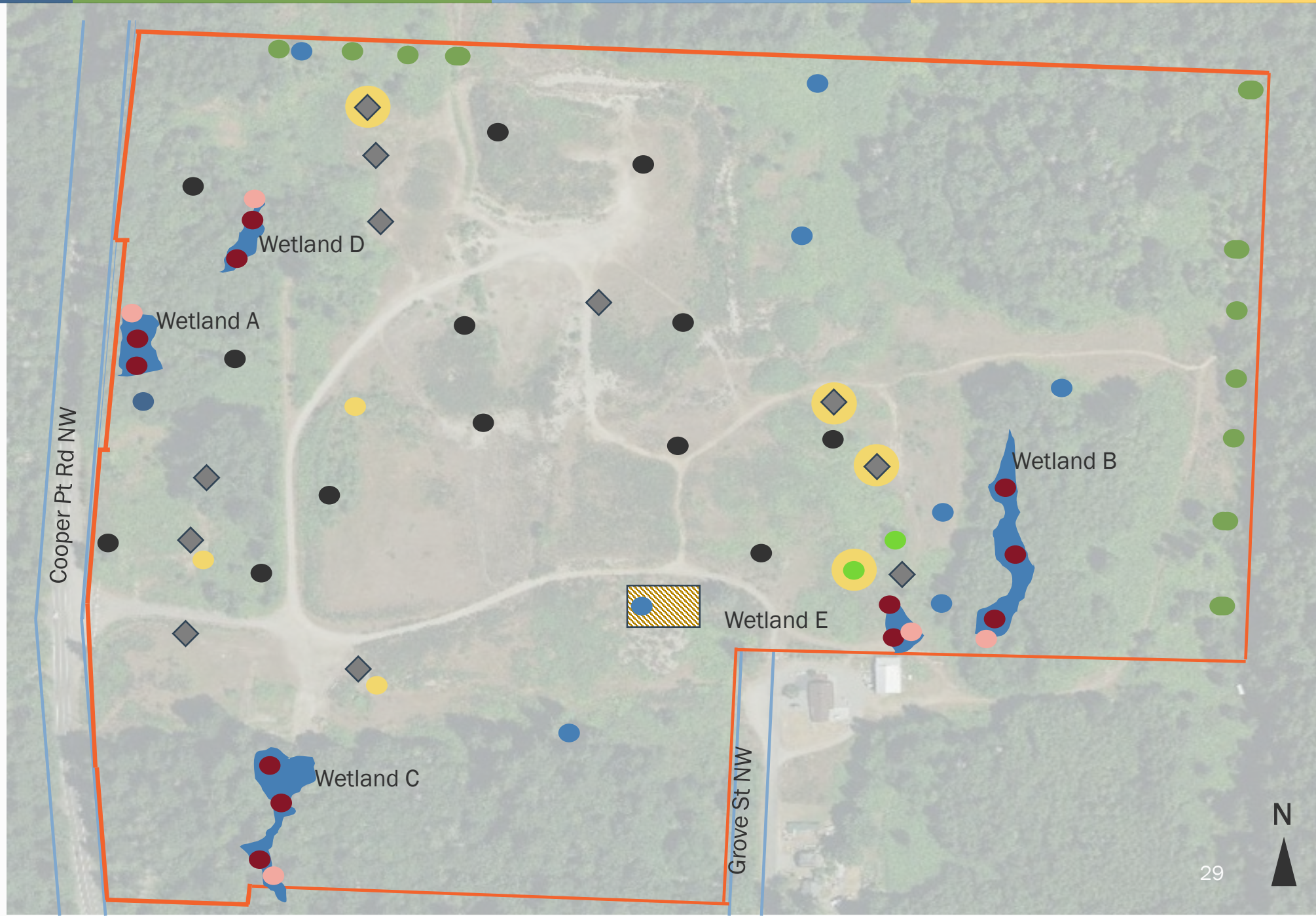
- soil test pit
- fill investigation
- soil boring
- ◆ existing GW well
- new GW well
- surface water
- sediment





# Work Plan Methane

- soil test pit
- fill investigation
- soil boring
- ◆ existing GW well
- new GW well
- surface water
- sediment
- gas sampling at soil borings
- gas sampling at monitoring wells
- new gas probes







# Next steps



# Next Steps

- Comment period ends – Sept 16, 2024
  - Comment review and document revisions
  - Ecology signs the agreed order
  - Investigation begins 90 days after AO signed
- 
- Prepare and submit a Work Plan Addendum, if required by Ecology – within 60 days of Ecology’s determination
- 
- Agency review draft remedial investigation report - 90 days after all validated data is received.
  - Public review draft remedial investigation report – 45 days after receiving Ecology’s comments





# Questions





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**Thank you**