

Site Property created from Arcadis CAD drawings received December 2015.
 United States Geological Survey topographic maps accessed via ArcGIS Online
 and provided by National Geographic Society and i-cubed on 27 December 2017.
 Morristown (1982) and Chatham (1982) quadrangles are shown.

2,000 1,000 0 2,000 Feet



Legend

-  Edge of landfilled wastes (dashed where approximate)
-  Waste and debris observed on ground surface but not observed or anticipated below ground surface

Site Location

ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

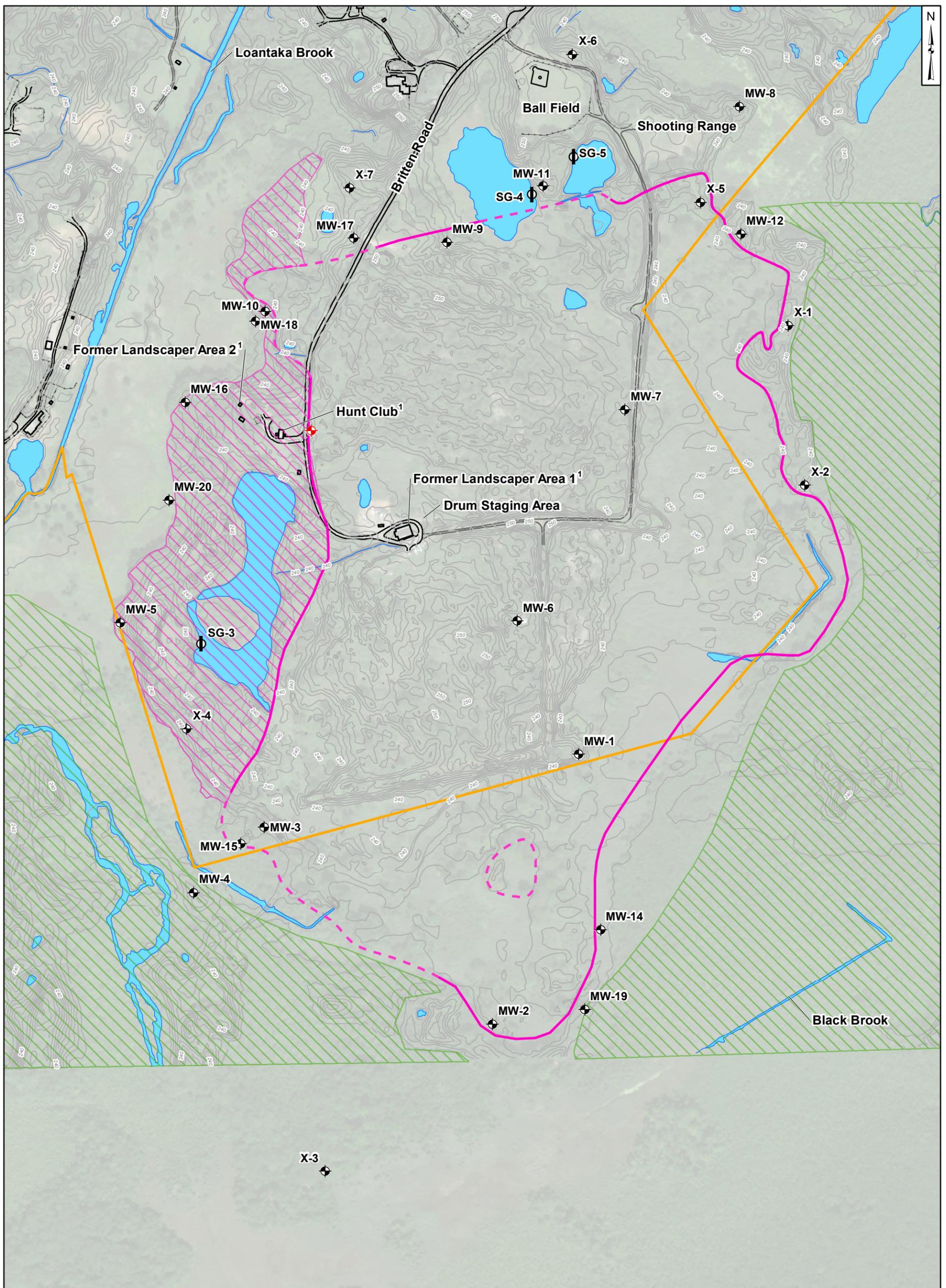
Geosyntec
 consultants

Figure

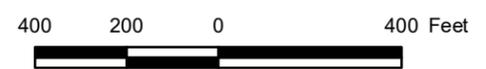
1-1

Princeton, NJ

May 2018



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.
 Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 12 March 2018.
 Image is dated 31 July 2015.



Legend

- Non-Potable Supply Well
- Monitoring Well Location
- Staff Gauge Location
- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- Areas where surface water flow does not exhibit typical bed and bank morphology
- Waste and debris observed on ground surface but not observed or anticipated below ground surface
- Open water

Site Plan

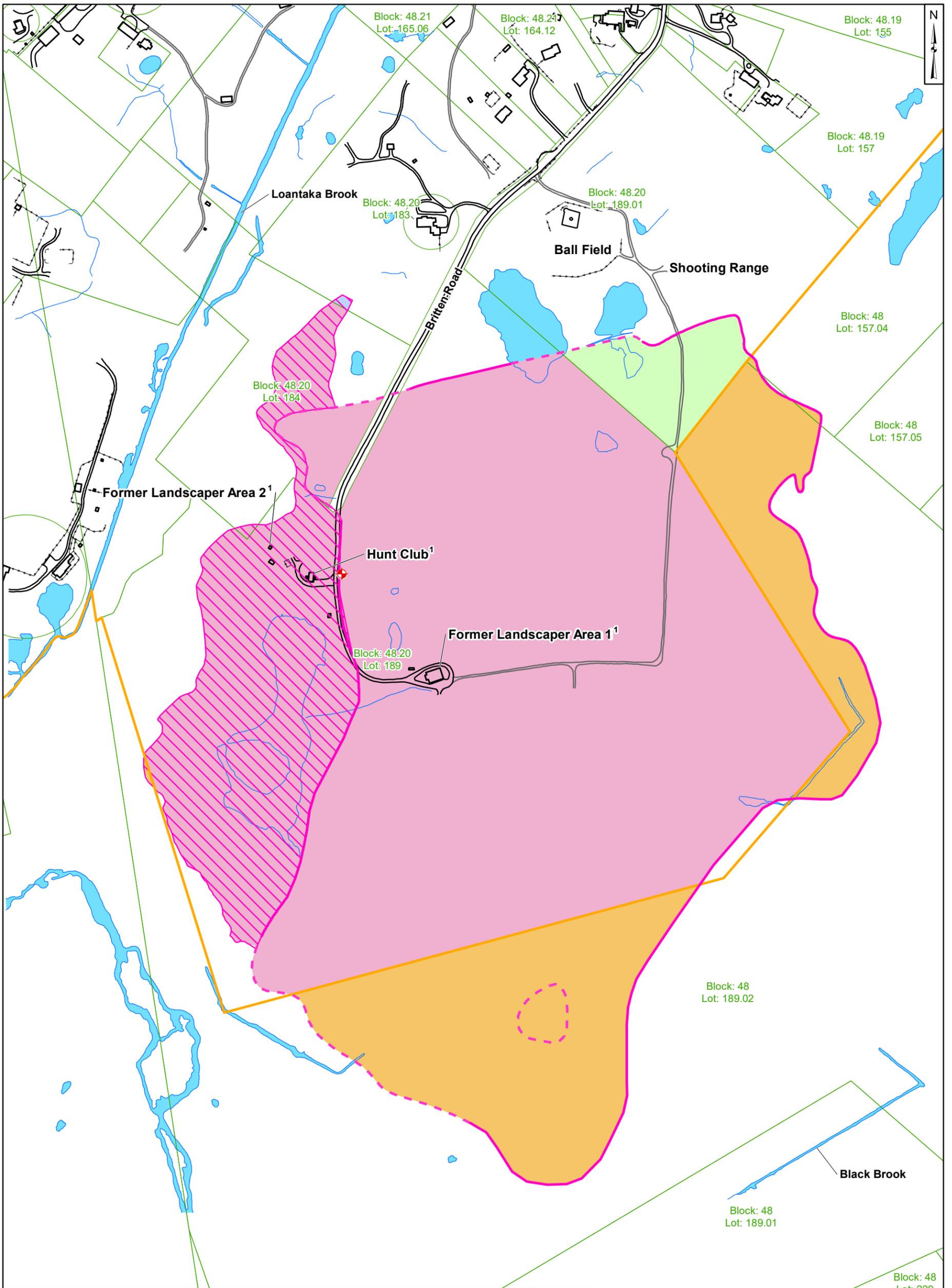
ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

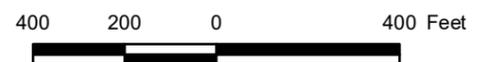
Princeton, NJ

May 2018

Figure
1-2



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Parcel data provided by Morris County, GIS. 2 August 2016. Site Plan created from Arcadis CAD drawings received December 2015.



Legend

- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- Waste and debris observed on ground surface but not observed or anticipated below ground surface
- Open water
- Property Parcel
- Block 48.20, Lot 183 (Owned by David M. Bakunas [Trustee])
- Block 48.20, Lots 184 and 189 (Owned by Robert J. Miele [Trustee])
- Block 48.20, Lot 189.01 (Owned by Green Village Fire Department)
- Great Swamp National Wildlife Refuge (Owned by the United States Fish and Wildlife Service)

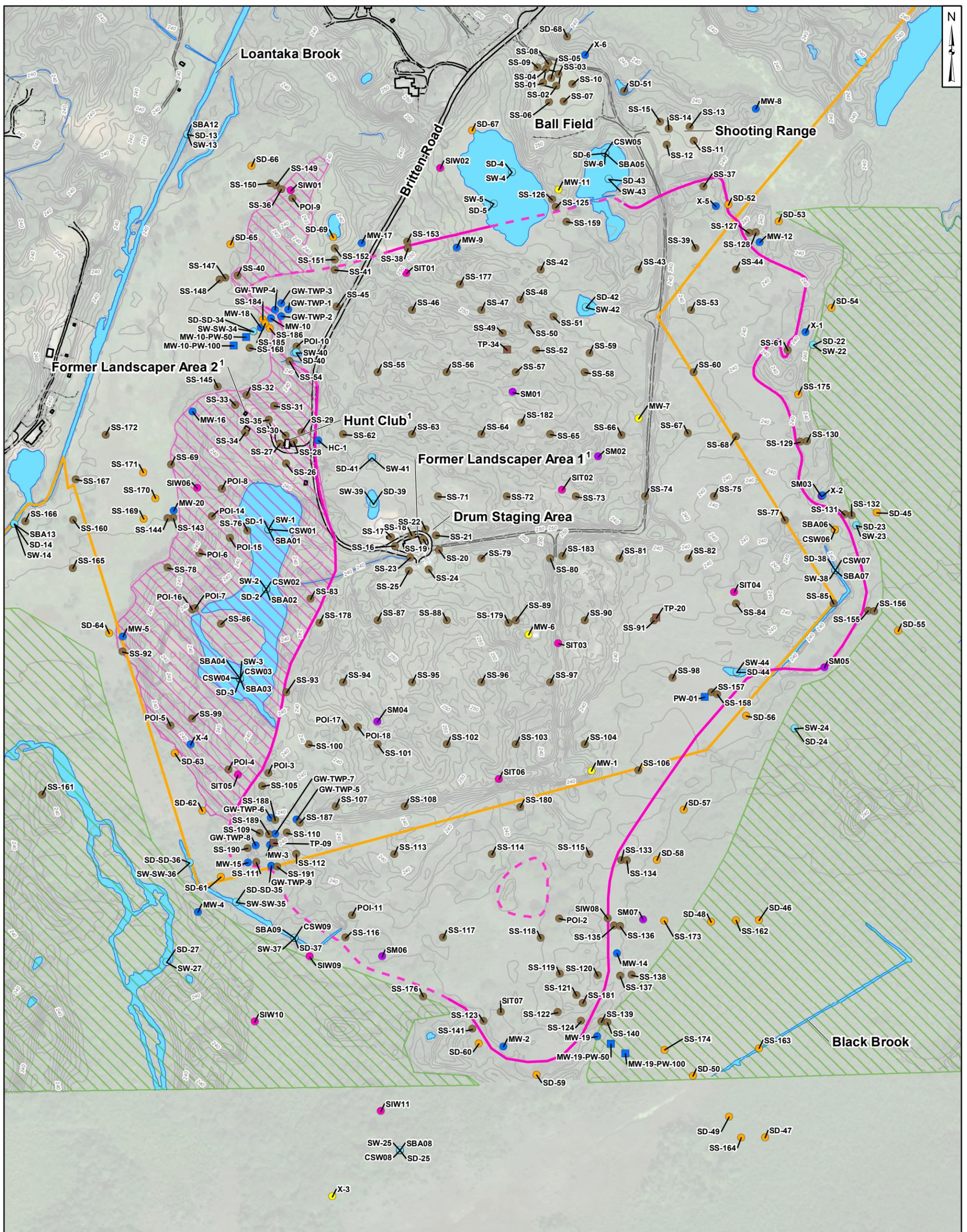
Property Ownership
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

Princeton, NJ

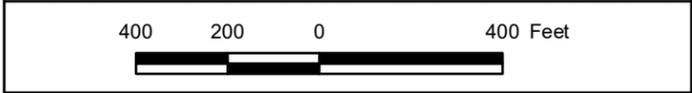
May 2018

Figure
2-1



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.
 Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 27 December 2017. Image is dated 31 July 2015.

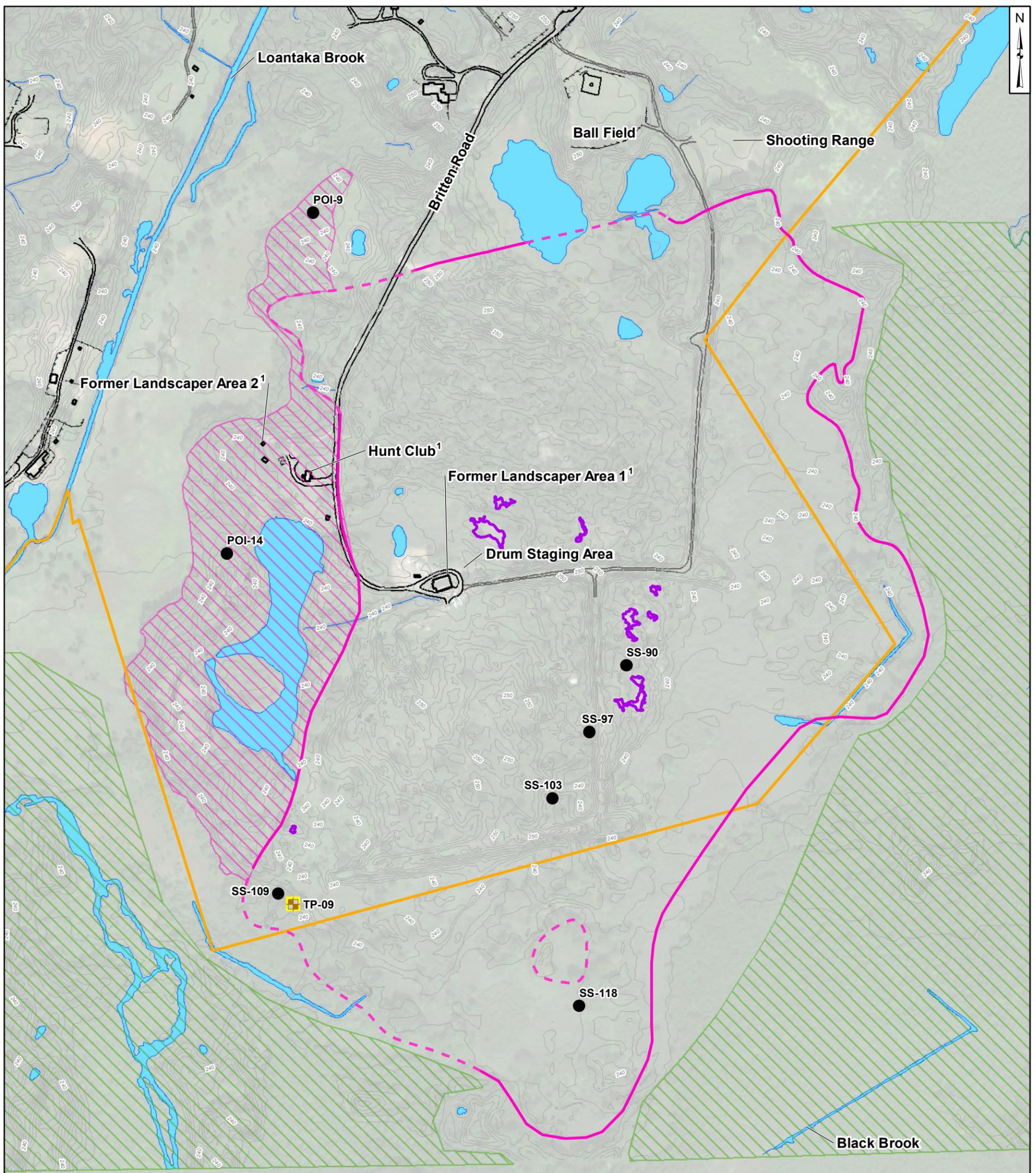
Legend	
● Groundwater Sample Location	 Edge of landfilled wastes (dashed where approximate)
● Groundwater and Soil Sample Location	 Great Swamp National Wildlife Refuge property boundary
● Sediment Sample Location	 Areas where surface water flow does not exhibit typical bed and bank morphology
● Soil Sample Location	 Waste and debris observed on ground surface but not observed or anticipated below ground surface
● Soil and Tissue Sample Location	 Open water
● Surface Water Sample Location	
■ Test Pit Sample Location	
● Tissue Sample Location	
■ Porewater Sample Location	



Sample Location Map
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

		Figure 2-2
Princeton, NJ	May 2018	

F:\GIS\Rolling Knolls\Report_NFS\Figure 2-2_Site Plan and Sampling Locations.mxd



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.
 Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 2 May 2018.
 Image is dated 31 July 2015.

Legend	
● Areas of Particular Concern (to be capped or excavated) (7)	— Edge of landfilled wastes (dashed where approximate)
■ Potential Source Area to be Removed (1)	— Great Swamp National Wildlife Refuge property boundary
— Areas Determined to be Mostly Non-Vegetated During Field Inspection	— Areas where surface water flow does not exhibit typical bed and bank morphology
— Waste and debris observed on ground surface but not observed or anticipated below ground surface	— Open water

400 200 0 400 Feet



Location of APCs and Mostly Non-Vegetated Areas
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

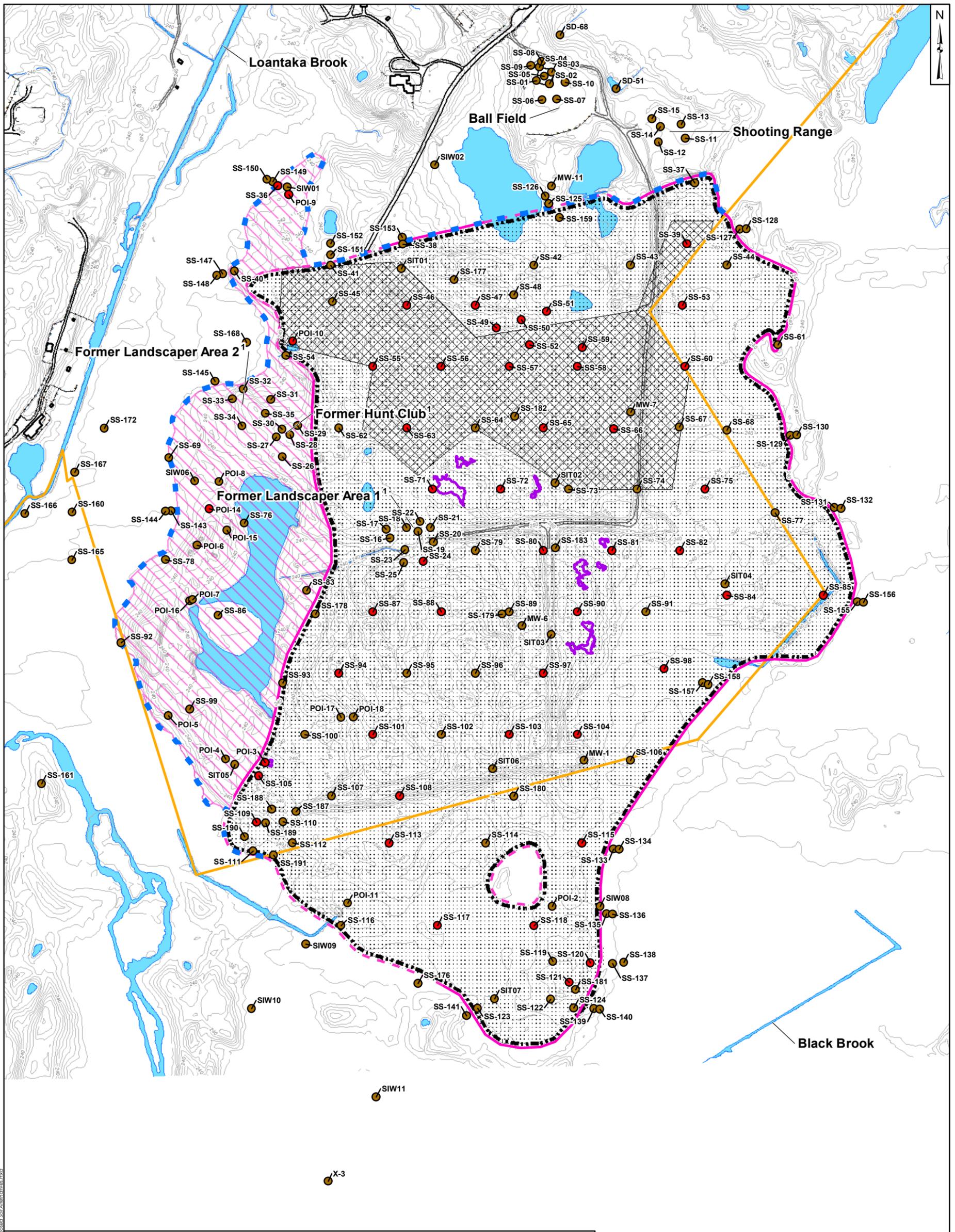
Geosyntec
 consultants

Princeton, NJ

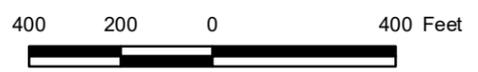
May 2018

Figure
5-1

C:\GIS\Rolling Knolls\Report\NVR\Figure 5-1 Location of APCs and Non-Vegetated Areas.mxd



- 1) Note 1: These features to be removed from landfill area prior to completion of soil remedy.
- 2) The area to be capped (Alternative 3) or excavated (Alternative 4) was determined based on a risk-based concentration developed as discussed in Appendix B of this Feasibility Study Report.
- 3) PRGs - Preliminary Remediation Goal
- 4) Site Plan created from Arcadis CAD drawings received December 2015.



Legend	
●	Soil Sample Location Exceeding PRG
●	Soil Sample Locations Not Exceeding PRG
—	Areas Determined to be Mostly Non-Vegetated During Field Inspection
- - -	Edge of landfilled wastes (dashed where approximate)
—	Great Swamp National Wildlife Refuge property boundary
—	Access Control Fence (Alternative 2)
	Area to be Capped (under Alternative 3) or Excavated (under Alternative 4)
	Area to be Excavated (Alternative 5)
	Waste and debris observed on ground surface but not observed or anticipated below ground surface
	Open water

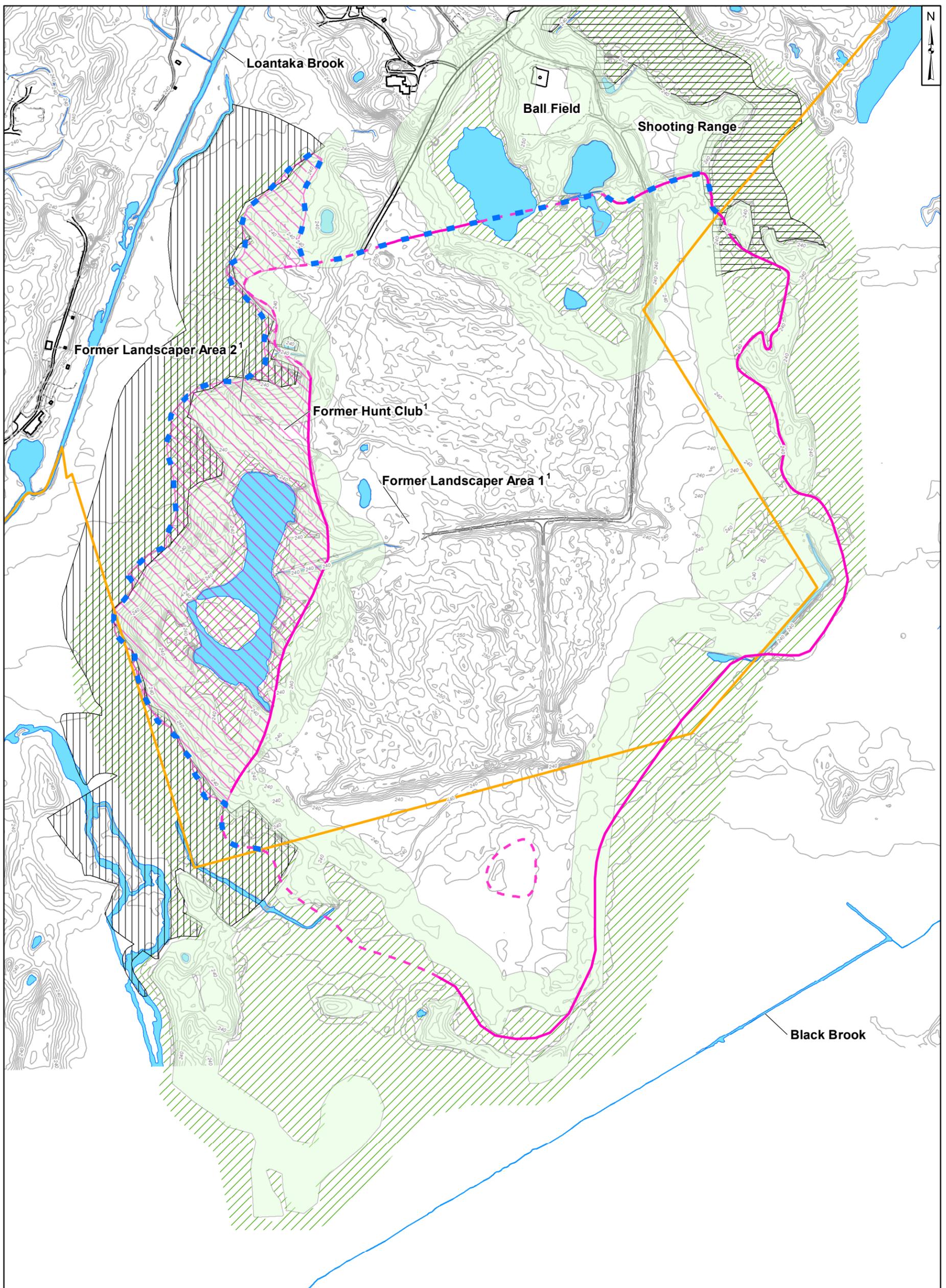
Soil Samples Exceeding the Preliminary Remediation Goals and Proposed Soil Alternatives
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

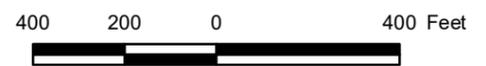
Princeton, NJ May 2018

Figure
5-2

X:\GIS\Rolling Knolls\Mapport\NVR\Figure 5-2_Soil Samples Exceeding the Preliminary Remediation Goals and Proposed Soil Alternatives.mxd



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.



Legend	
Access Control Fence	Potential Bog Turtle Habitat Area
Edge of landfilled wastes (dashed where approximate)	Potential Bog Turtle Habitat Area
Great Swamp National Wildlife Refuge property boundary	Waste and debris observed on ground surface but not observed or anticipated below ground surface
NHDFlowline	Wetland
	150-foot Wetland Transition Area
	Open water

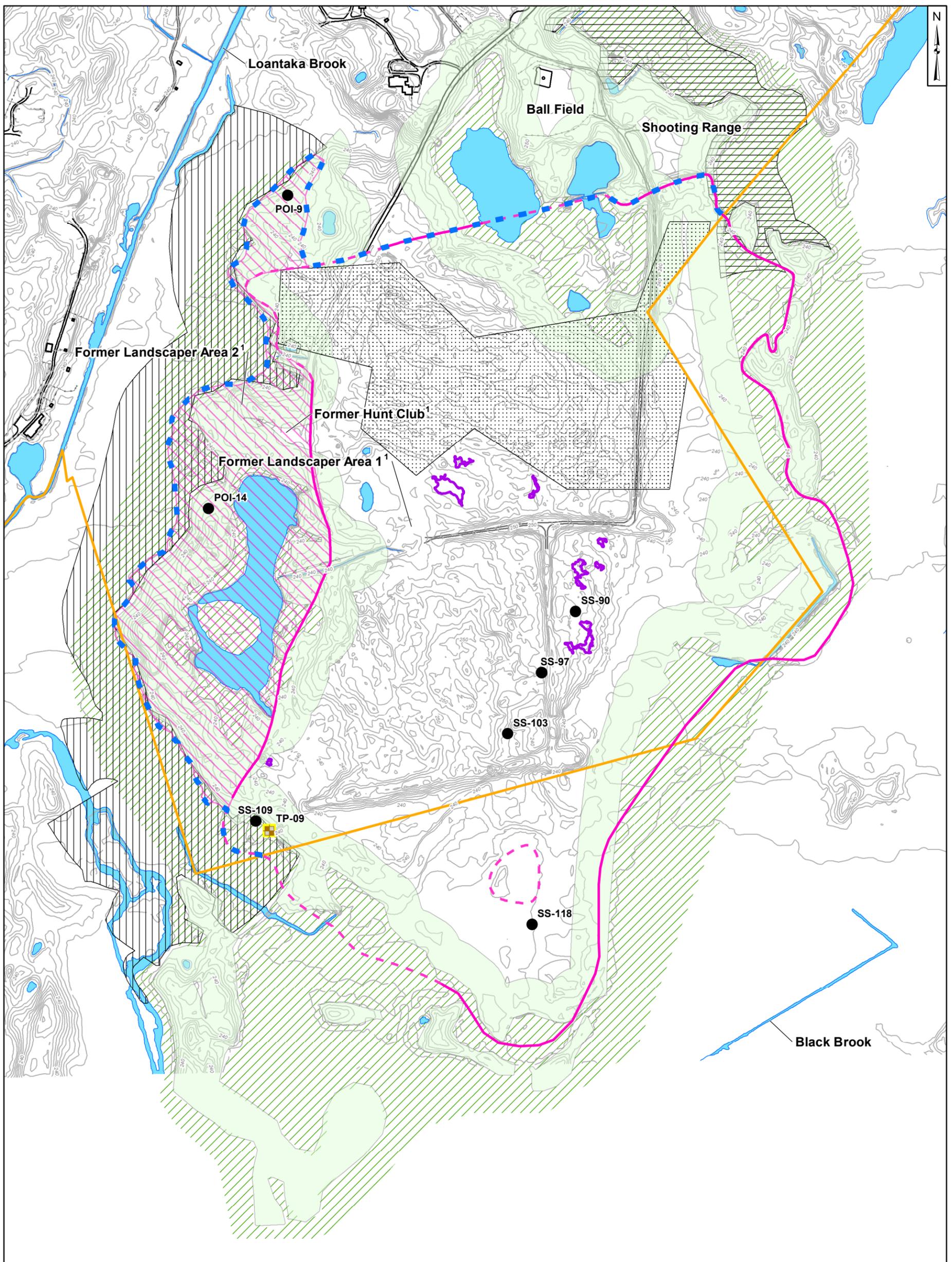
Conceptual Plan of Soil Alternative 2
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

Princeton, NJ

May 2018

Figure
6-1



Note 1: These features to be removed from landfill area prior to completion of soil remedy. The area to be capped (Alternative 3) or excavated (Alternative 4) was determined based on a risk-based concentration developed as discussed in Appendix B of this Feasibility Study Report. Site Plan created from Arcadis CAD drawings received December 2015.

Legend		
● Areas of Particular Concern (to be capped or excavated)	— Edge of landfilled wastes (dashed where approximate)	▨ Potential Bog Turtle Habitat Area
■ Potential Source Area to be Removed	— Great Swamp National Wildlife Refuge property boundary	▨ Potential Bog Turtle Habitat Area Waste and debris observed on ground surface but not observed or anticipated below ground surface
— Areas Determined to be Mostly Non-Vegetated During Field Inspection	▨ Area to be Capped (under Alternative 3) or Excavated (under Alternative 4)	▨ Wetland
■ Access Control Fence	▨ 150-foot Wetland Transition	▨ Open water

400 200 0 400 Feet



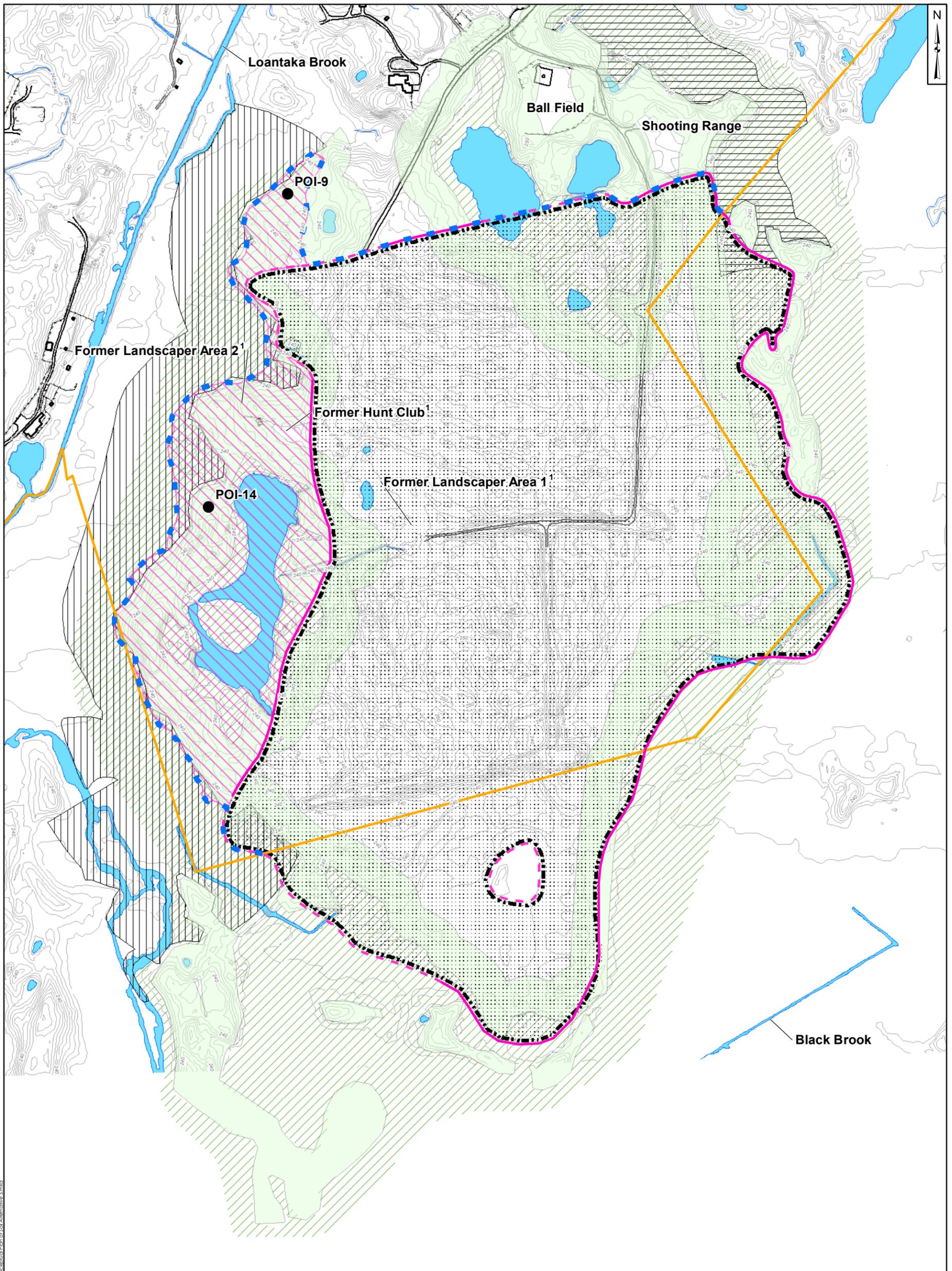
Conceptual Plan of Soil Alternatives 3 and 4
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

Geosyntec
consultants

Princeton, NJ

May 2018

Figure
6-2



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.

Legend

- | | |
|--|--|
| ● Areas of Particular Concern (to be excavated) | ▨ Potential Bog Turtle Habitat Area |
| ■ Access Control Fence | ▨ Potential Bog Turtle Habitat Area |
| — Edge of landfilled wastes (dashed where approximate) | ▨ Waste and debris observed on ground surface but not observed or anticipated below ground surface |
| — Great Swamp National Wildlife Refuge property boundary | ▨ Wetland |
| ▨ Limit of Proposed Cap | ▨ 150-foot Wetland Transition Area |
| | ▨ Open water |

400 200 0 400 Feet



Conceptual Plan of Soil Alternative 5

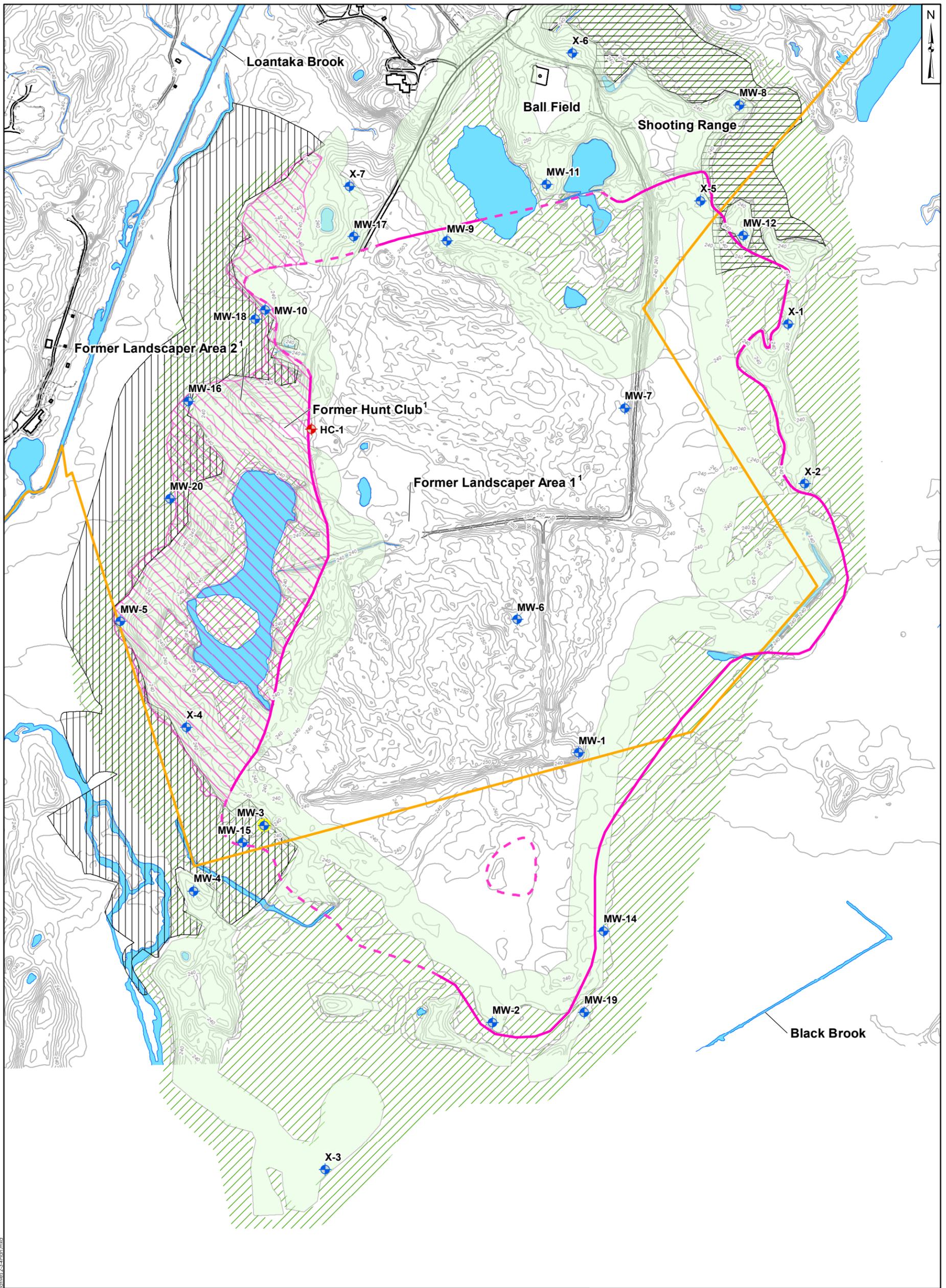
ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

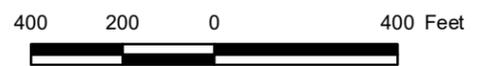
Princeton, NJ

May 2018

Figure
6-3



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
 Site Plan created from Arcadis CAD drawings received December 2015.



Legend

- Monitoring Well Potentially Requiring Treatment
- Non-Potable Supply Well
- Monitoring Well
- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- Potential Bog Turtle Habitat Area A
- Potential Bog Turtle Habitat Area B
- Waste and debris observed on ground surface but not observed or anticipated below ground surface
- Wetland
- 150-foot Wetland Transition Area
- Open water

Conceptual Plan of Groundwater Alternatives 2 and 3
 ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

Geosyntec
 consultants

Princeton, NJ

May 2018

Figure
7-1