

ATTACHMENT 8

February 22, 2023

APT Project No.: CT524100

Prepared For: MCM Holdings, LLC
40 Woodland Street
Hartford, Connecticut 06105-2327
Attn: Virginia King

Site Name: BSA Redding

Site Address: John Sherman Hoyt Scout Camp
3 Marchant Road, Redding, Connecticut

Date of Investigation: 12/20/2022

Field Conditions: **Weather:** sunny, low 40's
Soil Moisture: dry to moist

Wetland/Watercourse Delineation Methodology¹:

- Connecticut Inland Wetlands and Watercourses
 U.S. Army Corps of Engineers

Municipal Upland Review Area:

Wetlands: 100 feet
Watercourses: 150 feet

The wetlands inspection was performed by²:



Matthew Gustafson, Registered Soil Scientist

Enclosures: Wetland Delineation Field Forms & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.³ If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

¹ Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

² All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

³ APT has relied upon the accuracy of information provided by MCM Holdings, LLC and its contractors regarding proposed lease area and access road/utility easement locations for identifying wetlands and watercourses within the study area.

Attachments

- Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

Wetland I.D.:	Wetland 1	
Flag #'s:	WF 1-01 to 1-15	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Northern extents of Wetland 1 consist of a broad seasonally saturated system that narrows to a singular seasonal and anthropogenic intermittent watercourse channel that convey flows under an existing crossing consisting of four 12-inch corrugated metal culverts.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Red maple, white oak and green ash dominate the overstory with shagbark hickory codominant within transitional areas.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: Unnamed		
Comments: Interior braided seasonal flow paths converge in the northern extents of the delineated wetland to a singular channel within a well confined bank/channel resource. This watercourse is characterized by ±5-foot wide channel and a sandy/cobble bottom.		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type :	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	White Oak (<i>Quercus alba</i>)
Shagbark Hickory (<i>Carya ovata</i>)	Tussock Sedge (<i>Carex stricta</i>)
Cinnamon Fern (<i>Osmunda cinnamomea</i>)	Highbush Blueberry (<i>Vaccinium corymbosum</i>)
Spicebush (<i>Lindera benzoin</i>)	Japanese Barberry* (<i>Berberis thunbergii</i>)
Winged Euonymus* (<i>Euonymus alata</i>)	Green Ash (<i>Fraxinus pennsylvanica</i>)

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

APT understands that MCM proposes to construct a wireless telecommunications facility on the north-central portion of the Boy Scouts of America John Sherman Hoyt Scout Camp. The proposed MCM facility would be located just southeast of the southeast corner of a gravel parking lot in an upland forested area. A nearby wetland, identified as Wetland 1, was delineated within ±48 feet west of the proposed facility.

Wetland 1 is a headwater hillside seep system located in the central portion of the camp. Southern extents of the resource are characterized by a broader forested system dominated by red maple (*Acer rubrum*), white oak (*Quercus alba*) and green ash (*Fraxinus pennsylvanica*). As the wetland drains north it narrows into a braided seasonal intermittent watercourse that eventually converges to a singular anthropogenic channel. This stream is approximately 5 feet wide with a sandy cobble bottom that travels through four 12-inch corrugated metal culverts and continues north away from the project area.

Wetland Delineation Field Form

Wetland I.D.:	Wetland 2	
Flag #'s:	WF 2-01 to 2-10	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Sempermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated – seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments: Wetland 2 is seasonally saturated depressional resource located within a topographic ravine within the southern extents of the system that transitions to an area of seasonal flooding at the base of slope.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Dominant forest cover of red maple and yellow birch throughout the complex with a sparse understory.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name:		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type : 'Classic'	
Comments: A vernal pool survey in 2017 conducted by APT confirmed breeding of wood frogs (<i>Rana sylvatica</i>), an obligate vernal pool species. APT will be conducting a vernal pool inspection during the spring 2023 season to update this data.	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If no, describe field identified soils		

DOMINANT PLANTS:

Tussock Sedge (<i>Carex stricta</i>)	Highbush Blueberry (<i>Vaccinium corymbosum</i>)
Yellow Birch (<i>Betula alleghaniensis</i>)	Red Maple (<i>Acer rubrum</i>)
Spicebush (<i>Lindera benzoin</i>)	Silky Dogwood (<i>Cornus amomum</i>)
Sphagnum moss (<i>Sphagnum</i> spp.)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

<p>APT understands that MCM proposes to construct a wireless telecommunications facility on the north-central portion of the Boy Scouts of America John Sherman Hoyt Scout Camp. The proposed MCM facility would be located just southeast of the southeast corner of a gravel parking lot in an upland forested area. A distant wetland, identified as Wetland 2, was delineated within ±443 feet east of the proposed facility.</p> <p>Wetland 2 begins as a narrow, channel-like seasonally saturated hillside seep that parallels a historic stone wall along the western boundary. As the complex drains north downslope, the system broadens to an area of seasonal flooding with approximately 6-inches of inundation present during the inspection; this inundation area supports vernal pool habitat. Tussock sedge (<i>Carex stricta</i>), highbush blueberry (<i>Vaccinium corymbosum</i>), and spicebush (<i>Lindera benzoin</i>) occur on hummocks that have formed throughout the complex as a result of the seasonal flooding. Red maple (<i>Acer rubrum</i>) and yellow birch (<i>Betula alleghaniensis</i>) were the dominant tree species interspersed throughout the complex. A previous vernal pool survey conducted during the 2017 spring breeding season confirmed the pools' ability to support breeding of obligate species. This survey data will be updated with a spring 2023 vernal pool survey.</p>



Proposed 12' Wide Gravel Access Drive

WF 1-01

Wetland 1

WF 1-15

WF 2-10

Wetland 2

WF 2-01

+/- 44.3'

Proposed Irregularly Shaped Fenced Compound (+/- 4,880 SF) within Proposed Irregularly Shaped Lease Area (+/- 6,800 SF)

Proposed Monopole

Wetland 1 is +/- 48' From Proposed Compound

Legend

- Subject Property
- Proposed Monopole
- Proposed Site Layout
- Existing Culvert (By Others)
- Wetland Flag
- 100' Upland Review Area
- Delineated Wetland Boundary
- Approximate Wetland Area

Wetland Inspection Map

Proposed Wireless Telecommunications Facility
Camp Hoyt Redding
3 Marchant Road
Redding, Connecticut

Map Notes:
Base Map Source: 2019 Aerial Photograph (CTECO)
Map Scale: 1 inch = 200 feet
Map Date: February 2023

