

**FINAL ENVIRONMENTAL ASSESSMENT
And
FINDING OF NO SIGNIFICANT IMPACT (FONSI)**

**Audi Land Acquisition
520 Smith Clove Road
Highland Mills, New York 10930**



JANUARY 2021

Prepared for:

**West Point Army Garrison
West Point, Orange County, New York**

Prepared by:

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FINAL ENVIRONMENTAL ASSESSMENT

FINDING OF NO SIGNIFICANT IMPACT

**Audi Land Purchase
520 Smith Clove Road
Highland Mills, New York**

Executive Summary

The United States Army Garrison (USAG) West Point proposes to purchase vacant, unoccupied land located to the adjacent west of USAG West Point, in Highland Mills, Orange County, New York (herein "Property"). The Property's address is 520 Smith Clove Road, Highland Mills, New York, in the Town of Woodbury, and consists of 87.2 acres of a 116.30-acre parcel that is currently owned by Audi Hills, Inc. The Property has a zoning designation of Rural Residential and is predominately bound to the north, east, and south by the USAG West Point and bound to the west by the remaining portion of the 116.30-acre parcel. A small segment of residential private property is located to the immediate adjacent north of the Property, along Smith Clove Road. The Property is vacant, unoccupied land containing no developments, buildings or structures. Site features of the Property consist primarily of wooded vegetation with a steep topographic gradient running through the central-east portion of the Property from north-to-south.

The purpose of the EA is to evaluate impacts associated with an acquisition action, of which does not include implementation of any construction or introduce new operation activities. Therefore, the EA will assess two alternatives: the Proposed Action (Property acquisition) and the No-Action Alternative (refrain from Property acquisition). No other alternatives were assessed as part of the acquisition EA.

Proposed Action Alternative

Under the Proposed Action, the Property would be purchased by USAG West Point to be primarily utilized as a buffer area between the active training and operations conducted at USAG West Point and the general public and to protect from urban encroachment, in accordance with the USAG West Point Master Plan. The Property would remain vacant, unoccupied land. No construction or new operations will be implemented under the Proposed Action. Continued operations include general Property maintenance upkeep and USAG West Point personnel will continue to traverse through the Property by foot and via the vehicle access road located on the eastern portion of the Property.

No Action Alternative

Under the No Action Alternative, the Property would not be acquired by USAG West Point, which in turn would not fulfill the USAG West Point objective to acquire vacant, unoccupied land to be utilized as a buffer zone between the active training and operations

conducted at USAG West Point and the general public and protect from urban encroachment, in accordance with the West Point Master Plan.

Summary of Findings

The Proposed Action Alternative is determined to have no impacts as the Property would be acquired and subsequently remain vacant, unoccupied land. The No Action Alternative is also determined to have no impacts as the Property would not be acquired by USAG West Point. No significant adverse impacts were identified during the preparation of the EA; therefore, no mitigation actions are needed to implement the Proposed Action. A summary of the affected environment (existing environmental conditions) of the Property and associated environmental consequences (potential impacts) of the Proposed Action are provided on the following Summary Table and additionally provided in the EA Report as Table 2:

Summary Table - Affected Environment and Environmental Consequences of the Proposed Action

| Resource | Affected Environment | Environmental Consequences | Section No. |
|-----------------|--|-----------------------------------|--------------------|
| Topography | 1,200 ft AMSL (east) sloping downward to 580 ft AMSL (west). | No impact identified | 4.1 |
| Geology | Moderately steep and very stony Swartzwood and Mardin soils, very steep or with 15 to 35% slopes rock outcrop of the Hollis Complex, Mardin gravelly silt loam with 3 to 8% slopes, 8 to 15% slopes, and 15 to 25% slopes. | No impact identified | 4.2 |
| Climate | Warm summers, cold winters, mild spring and fall. | No impact identified | 4.3 |
| Air Quality | Nonattainment zone. | No impact identified | 4.4 |
| Hydrogeology | Precambrian age metamorphic rocks (mostly gneiss), underlying thick glacial till deposits. Groundwater is expected to follow topographic gradients and flow from east to west. | No impact identified | 4.5 |
| Surface Water | None identified on the Property | No impact identified | 4.6 |

**Summary Table - Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| Resource | Affected Environment | Environmental Consequences | Section No. |
|--|--|-----------------------------------|--------------------|
| Wetlands | None identified on the Property. | No impact identified | 4.7 |
| Floodplains | Flood Zone X | No impact identified | 4.8 |
| Terrestrial Habitat | Property is covered with wooded vegetation, with the following significant natural communities known to exist on or in the vicinity of the Property: Chestnut Oak Forest, Acidic Talus Slope Woodland, and Hemlock-Hardwood Swamp. | No impact identified | 4.9 |
| Wildlife | Wildlife anticipated to be present, as the Property is vacant, unoccupied land. | No impact identified | 4.10 |
| Threatened and Endangered Species | Indiana Bat (E), Northern Long-eared Bat (T, ST), Bog Turtle (T), Small Whorled Pogonia (T), Timber Rattlesnake (ST), and Eastern Small-footed Myotis (SSS) known to be present in the vicinity of the Property. | No impact identified | 4.11 |
| Migratory Birds | Eight (8) migratory birds, including the Bald Eagle, are known to be present in the vicinity of the Property. | No impact identified | 4.12 |
| Historic and Archaeological Resources | High potential for Historic resources and Precontact resources. | No impact identified | 4.13 |
| Hazardous, Toxic and Radioactive Waste Materials | None identified on the Property, or adjacent properties with the potential to cause adverse impacts to the Property. | No impact identified | 4.14 |

**Summary Table - Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| Resource | Affected Environment | Environmental Consequences | Section No. |
|---|--|---|-------------|
| Land Use, Zoning and Visual Resources | Rural Residential Zoning. Vacant, unoccupied land. | Zoning designation change to Military. No impact identified. Local tax revenue will decrease; however, this is expected to have minimal to negligible impact since the revenue lost is less than 0.00003% of the total revenue generated by Orange County. The remaining acreage, including the house, will continue to generate tax revenue. | 4.15 |
| Prime and Unique Farmland | The soils located on the westernmost portion of the Property, identified as the Mardin soils with 3 to 8% and 8 to 15% slopes, are considered Farmland of State Significance. | No impact identified | 4.16 |
| Socioeconomic Resources and Environmental Justice | No environmental justice community is located on or adjacent to the Property. | No impact identified | 4.17 |
| Traffic | Property does not contain a driveway or designated parking area. Access to Property is primarily by foot, or via vehicle from an USAG West Point access road on the easternmost portion of Property. | No impact identified | 4.18 |

**Summary Table - Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| | | | |
|--------------------------|---|----------------------|------|
| Noise | Ambient noise in the vicinity of the Property is expected to fall below 65 dB. | No impact identified | 4.19 |
| Utilities | No utilities present on the Property or expected to be present under the Proposed Action. | No impact identified | 4.20 |
| Public Health and Safety | No public health and safety concerns are present on the Property or expected under the Proposed Action. | No impact identified | 4.21 |
| Protection of Children | No daycares or elementary schools are located on or adjacent to the Property. | No impact identified | 4.22 |

Note: There are no mitigation implementation recommendations because the Proposed Action will not result in significant adverse impacts.

T – Threatened, USFWS

E – Endangered, USFWS

ST – Threatened, State Listed

SSS – Special Status Species, State Listed

Public Involvement

The Draft EA and Finding of No Significant Impact (FONSI) was made available for a 30-day public review from 9 November 2020 to 9 December 2020 posted on the internet at the following: <https://www.nan.usace.army.mil/Missions/Environmental/Environmental-Assessment/Audi-Land-Acquisition-EA/>. Public notice and Notice of Availability (NOA) with instructions on accessing the Draft EA/FONSI and providing comments was posted online and in the local newspapers, listed in Appendix E, between 9 November 2020 and 15 November 2020.

Hard and/or electronic copies of the EA and FONSI were also sent to Federal, State and local agencies and interested parties listed in Appendix E.

Agency Consultation

Federal, state, and local agencies with jurisdiction that could be affected by the project were consulted and/or provided opportunity to review and comment on environmental impacts. The following agencies were consulted in the preparation of this EA:

- United States Fish and Wildlife Service
- Environmental Protection Agency

- New York State Department of Environmental Conservation, Natural Heritage Program
- New York State Office of Parks, Recreation and Historic Preservation, State Historic Preservation Office
- Stockbridge-Munsee Mohican Tribal Historic Preservation Office
- Delaware Nation Historic Preservation Office
- Delaware Tribe Historic Preservation Office

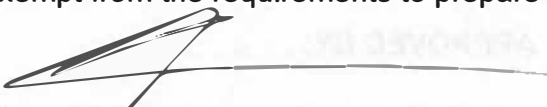
Agency correspondence letters and responses received are provided in Appendix F.

Conclusion

This EA was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969 as amended (42 United States Code (USC) 4321-4347), the Council on Environmental Quality (CEQ) *Regulations for Implementing the Procedural Provisions of the NEPA* (40 Code of Federal Regulations (CFR), Parts 1500-1508); Army Regulation (AR) 200-1 *Environmental Protection and Enhancement*, and AR 200-2 *Environmental Analysis of Army Actions* (32 CFR Part 651).

The EA identifies, analyzes and documents any potential direct, indirect and cumulative impacts associated with the acquisition of the Property, under the Proposed Action. Resources with the potential to be affected were assessed in comparison to the components of the Proposed Action, listed on the above Summary Table and discussed in more detail in the EA.

As a result of the evaluation of the Proposed Action's affected environment and associated environmental effects, the Proposed Action is determined to not be a major federal action significantly affecting the quality of the human environment, documented by this Finding of No Significant Impact (FONSI). Therefore, this acquisition action is exempt from the requirements to prepare an Environmental Impact Statement (EIS).



COL EVANGELINE G. ROSEL
Commander
U.S. Army Garrison West Point, New York

22 JAN 2021

DATE

ENVIRONMENTAL ASSESSMENT APPROVAL SHEET

AUDI LAND AQUISITION

UNITED STATES ARMY GARRISON WEST POINT

WEST POINT, ORANGE COUNTY, NEW YORK

January 2021

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- Appendix C NRCS Prime or Other Important Farmlands
- Appendix D EJSCREEN Report
- Appendix E EA and FONSI Distribution List
- Appendix F Agency Correspondence

Acronyms List

| | |
|--------|---|
| ACM | Asbestos Containing Material |
| ACS | American Community Survey |
| AMSL | Above Mean Sea Level |
| APE | Area of Potential Effect |
| AR | Army Regulation |
| CAA | Clean Air Act |
| CEQ | Council on Environmental Quality |
| CFR | Code of Federal Regulations |
| CWA | Clean Water Act |
| dB | Decibels |
| DoD | Department of Defense |
| EA | Environmental Assessment |
| EJ | Environmental Justice |
| EO | Executive Order |
| EPA | Environmental Protection Agency |
| ESA | Endangered Species Act |
| F | Fahrenheit |
| FEMA | Federal Emergency Management Agency |
| FIRM | Flood Insurance Rate Map |
| FPPA | Farmland Protection Policy Act |
| HUD | Housing and Urban Development |
| IONMP | Installation Operational Noise Management Plan |
| IPaC | Information for Planning and Consultation |
| LBP | Lead-based Paint |
| MBTA | Migratory Bird Treaty Act |
| NAAQS | National Ambient Air Quality Standards |
| NEPA | National Environmental Policy Act |
| NRCS | National Resources Conservation Service |
| NWI | National Wetlands Inventory |
| NMFS | National Marine Fisheries Service |
| NYS | New York State |
| NYSDEC | New York State Department of Environmental Conservation |
| PCB | Polychlorinated Biphenyl |
| SHPO | State Historic Preservation Officer |
| US | United States |
| USACE | United States Army Corps of Engineers |
| USAG | United States Army Garrison |
| USDA | United States Department of Agriculture |

1.0 Introduction

1.2 Purpose and Need

The United States Army Garrison (USAG) West Point proposes to purchase vacant, unoccupied land located to the adjacent west of USAG West Point, in Highland Mills, Orange County, New York. Currently, the USAG West Point boundary extends to Smith Clove Road for much of the extent of USAG West Point's western boundary, with the exception of three tax parcels, of which USAG West Point currently surrounds from the north, east, and south of the collective tax parcel boundaries.

The objective is for USAG West Point to continue to meet the requirements established in the USAG West Point Master Plan, which designates the implementation of a buffer zone of vacant land between the training and operations that take place on the installation and the general public and to protect from urban encroachment. To achieve this objective, USAG West Point intends to acquire additional land acreage along the westernmost border of USAG West Point. The land identified for purchase consists of 87.2 acres of a 116.30-acre parcel located between USAG West Point and Smith Clove Road (herein "Property"). Historically, USAG West Point personnel are occasionally granted access to traverse through the Property in order to reach surrounding portions of USAG West Point property not readily accessible by other routes. The Property proposed for purchase is to remain vacant, unoccupied land and be utilized as an additional buffer area between the active training and operations conducted at USAG West Point and the general public (herein "Proposed Action").

1.1 Scope of Analysis

This Environmental Assessment (EA) has been prepared to summarize the potential environmental impacts that could result from the implementation of alternatives, including any mitigation needed to reduce or eliminate any identified associated impacts. The purpose of an EA is to determine if a project would result in significant impacts to the environment. This EA documents the potential environmental impacts associated with the Proposed Action and the No-Action Alternative.

This EA was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969 as amended (42 United States Code (USC) 4321-4347), the Council on Environmental Quality (CEQ) *Regulations for Implementing the Procedural Provisions of the NEPA* (40 Code of Federal Regulations (CFR), Parts 1500-1508); Army Regulation (AR) 200-1 *Environmental Protection and Enhancement*, and AR 200-2 *Environmental Analysis of Army Actions* (32 CFR Part 651).

Under the CEQ regulations NEPA significance is assessed by context, as defined by 40 CFR 1508.27(a), and by intensity, as defined by 40 CFR 1508.27(b). Context refers to the analysis of the society as a whole (human, national), the affected region, the affected interests, and the affected locality. Significance varies with the setting of the Proposed Action, where in the case of a site-specific action, the significance would likely depend on the effects in the locality and not on society as a whole. Intensity refers to the severity of

the impact, determined by the evaluation of resources and associated impacts in consideration of the following factors:

- Public health or safety;
- Unique characteristics;
- Controversy;
- Uncertain impacts;
- Unique or unknown risks;
- Precedent for future actions;
- Cumulative effects;
- Historic resources;
- Threatened and endangered species; and
- Potential violation of a federal, state, or local law.

This EA has been prepared to assess the acquisition of a property. No construction or new operations are included under the Proposed Action and therefore, this acquisition EA will assess two alternatives: the Proposed Action (Property acquisition) and the No-Action Alternative (refrain from Property acquisition). No other alternatives were assessed as part of the acquisition EA.

The size and scale of the Proposed Action is one of localized significance, therefore, the context described in this EA is that of a local scale as opposed to a regional or nationwide scale. A review of intensity factors reveal that the Proposed Action will not result in a significant impact, neither beneficial nor detrimental, to the human environment, as summarized in Table 1 and discussed in more detail in this EA:

Table 1 – Summary of Intensity Factors of the Proposed Action

| Intensity Factor | Assessment |
|------------------------------------|--|
| Impacts on public health or safety | The Proposed Action is not anticipated to affect public health and safety since the Proposed Action is the acquisition of the Property and no other actions. |
| Unique characteristics | The Proposed Action is not anticipated to impact wild and scenic rivers, prime farmlands, cultural and historic resources or waters of the United States. |
| Controversy | The Proposed Action is not anticipated to be controversial. |
| Uncertain impacts | The impacts of the Proposed Action are not uncertain. |

Table 1 – Summary of Intensity Factors of the Proposed Action (Continued)

| Intensity Factor | Assessment |
|---|---|
| Unique or unknown risks | There are no identified unique or unknown risks associated with the Proposed Action. |
| Precedent for future actions | This EA was prepared pursuant to applicable laws and regulations, and therefore, a precedent for future actions is not anticipated. |
| Cumulative effects | The Proposed Action is not anticipated to have cumulative impacts. |
| Historic resources | The Proposed Action is not anticipated to adversely impact cultural or historic resources. |
| Threatened and endangered species | The Proposed Action is not anticipated to adversely impact threatened or endangered species. |
| Potential violation of a federal, state, or local law | The Proposed Action is not in violation of a federal, state, or local law. |

2.0 Property Description

2.1 Location and Site History

The Property’s address is 520 Smith Clove Road, Highland Mills, New York, in the Town of Woodbury, and consists of 87.2 acres of a 116.30-acre parcel that is currently owned by Audi Hills, Inc. (Figure 1 and 2). The Property has a zoning designation of Rural Residential and is predominately bound to the north, east, and south by the USAG West Point and bound to the west by the remaining portion of the 116.30-acre parcel. A small segment of residential private property is located to the immediate adjacent north of the Property, along Smith Clove Road. The boundary of the 116.30-acre parcel is presented on the Town of Woodbury Tax Map, under Parcel Identification Number 232-3-2 (Figure 3). The boundary of the parcel, including the Property proposed for purchase and portion of the parcel excluded from purchase, is additionally shown on Figure 1, 2 and 3.

The portion of the parcel excluded from the proposed acquisition located to the adjacent west contains two structures including a residential vacation home and detached garage surrounded by a yard and a portion of the stone fence. The parcel extends beyond Smith Clove Road to the west with additional vacant land located across the street.

The Property is vacant, unoccupied land containing no developments, buildings or structures. Site features of the Property consist primarily of wooded vegetation with a steep topographic gradient running through the central-east portion of the Property from north-to-south. A stone fence is located along the westernmost boundary of the Property, running parallel to the likeness of Smith Clove Road (Figure 2). The southernmost portions of the stone fence represent the intended divide for purchase of the Property from the adjacent portion of the parcel not proposed for purchase. The northernmost portion of the stone fence is intended for purchase, where the Property extends further northwest to Smith Clove Road. The stone fence has been present on the 116.30-acre parcel since at least 1940, as observed on the earliest obtained aerial photograph.

Historically the Property, from approximately 1938 to present day has been utilized as a summer and weekend vacation residence for the Audi family. The Audi family has been vacationing at the Property since at least 1938, and subsequently purchased the 116.30-acre parcel from the Martin family, friends of the Audi family, in approximately 1951. Since that time, the Property has been in the ownership and care of the Audi family. In the late 1960's the Audi family placed the ownership of the parcel under Audi Hills Inc.

According to the parcel owner, the Property may have been utilized, prior to its use as a residential home, for agriculture purposes and farming predating the early 1900s. A review of the earliest obtained aerial photographs indicates that the adjacent properties to the north, west, and south were utilized for farming purposes, suggested by the combed nature of the topography, while the Property is observed to remain vacant with naturally occurring topography and largely covered by wooded vegetation.

3.0 Alternatives Considered

3.1 No Action Alternative

The No Action Alternative serves as a baseline against which the Proposed Action can be evaluated and is required by the CEQ regulations for implementing the NEPA. Under the No Action Alternative, the Property would not be acquired by USAG West Point.

3.2 Proposed Action Alternative

The Proposed Action includes the acquisition of the Property to be primarily utilized as a buffer area between the active training and operations conducted at USAG West Point and the general public and to protect from urban encroachment, in compliance with USAG West Points Master Plan. Following acquisition, the Property would remain vacant, undeveloped land. Currently, USAG West Point personnel receive permission from the parcel owner to traverse through the Property. Under the Proposed Action USAG West Point personnel would continue to traverse through the Property by foot and via the vehicle access road located on the eastern portion of the Property in order to more readily access surrounding portions of USAG West Point property. No construction, development, or new operations are proposed under the Proposed Action. Additional continued operations will include general Property maintenance and upkeep.

No other alternatives were considered in the preparation of this acquisition EA.

4.0 Affected Environment and Environmental Consequences

The following sections provide an assessment of any potential impacts present in the vicinity of the Property for the Proposed Action, discussed by each corresponding resource. It should be noted that this EA was prepared to assess, and document impacts associated with an acquisition and not for any construction or operations activities, which are not proposed under the Proposed Action. No significant adverse impacts were identified and therefore, no mitigation actions are necessary. The No Action Alternative is also determined to have no impacts as, under the No Action Alternative, the Property would not be acquired by USAG West Point. A summary of the affected environment (existing environmental conditions) of the Property and the environmental consequences (impacts) of the Proposed Action are discussed in more detail below. A summary comparison of the affected environment and environmental consequences for each resource is presented on Table 2.

Table 2 – Affected Environment and Environmental Consequences of the Proposed Action

| Resource | Affected Environment | Environmental Consequences | Section No. |
|-----------------|--|-----------------------------------|--------------------|
| Topography | 1,200 ft AMSL (east) sloping downward to 580 ft AMSL (west). | No impact identified | 4.1 |
| Geology | Moderately steep and very stony Swartzwood and Mardin soils, very steep or with 15 to 35% slopes rock outcrop of the Hollis Complex, Mardin gravelly silt loam with 3 to 8% slopes, 8 to 15% slopes, and 15 to 25% slopes. | No impact identified | 4.2 |
| Climate | Warm summers, cold winters, mild spring and fall. | No impact identified | 4.3 |
| Air Quality | Nonattainment zone. | No impact identified | 4.4 |
| Hydrogeology | Precambrian age metamorphic rocks (mostly gneiss), underlying thick glacial till deposits. Groundwater is expected to follow topographic gradients and flow from east to west. | No impact identified | 4.5 |

**Table 2 – Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| Resource | Affected Environment | Environmental Consequences | Section No. |
|--|--|-----------------------------------|--------------------|
| Surface Water | None identified on the Property | No impact identified | 4.6 |
| Wetlands | None identified on the Property. | No impact identified | 4.7 |
| Floodplains | Flood Zone X | No impact identified | 4.8 |
| Terrestrial Habitat | Property is covered with wooded vegetation, with the following significant natural communities known to exist on or in the vicinity of the Property: Chestnut Oak Forest, Acidic Talus Slope Woodland, and Hemlock-Hardwood Swamp. | No impact identified | 4.9 |
| Wildlife | Wildlife anticipated to be present, as the Property is vacant, unoccupied land. | No impact identified | 4.10 |
| Threatened and Endangered Species | Indiana Bat (E), Northern Long-eared Bat (T,ST), Bog Turtle (T), Small Whorled Pogonia (T), Timber Rattlesnake (ST), and Eastern Small-footed Myotis (SSS) known to be present in the vicinity of the Property. | No impact identified | 4.11 |
| Migratory Birds | Eight (8) migratory birds, including the Bald Eagle, are known to be present in the vicinity of the Property. | No impact identified | 4.12 |
| Historic and Archaeological Resources | High potential for Historic resources and Precontact resources. | No impact identified | 4.13 |
| Hazardous, Toxic and Radioactive Waste Materials | None identified on the Property, or adjacent properties with the potential to cause adverse impacts to the Property. | No impact identified | 4.14 |

**Table 2 – Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| Resource | Affected Environment | Environmental Consequences | Section No. |
|---|--|---|--------------------|
| Land Use, Zoning and Visual Resources | Rural Residential Zoning. Vacant, unoccupied land. | Zoning designation change to Military. No impact identified. Local tax revenue will decrease: however this is expected to have minimal to negligible impact since the revenue lost is less than 0.00003% of the total revenue generated by Orange County. The remaining acreage, including the house, will continue to generate tax revenue | 4.15 |
| Prime and Unique Farmland | The soils located on the westernmost portion of the Property, identified as the Mardin soils with 3 to 8% and 8 to 15% slopes, are considered Farmland of State Significance. | No impact identified | 4.16 |
| Socioeconomic Resources and Environmental Justice | No environmental justice community is located on or adjacent to the Property. | No impact identified | 4.17 |
| Traffic | Property does not contain a driveway or designated parking area. Access to Property is primarily by foot, or via vehicle from an USAG West Point access road on the easternmost portion of Property. | No impact identified | 4.18 |

**Table 2 – Affected Environment and Environmental Consequences
of the Proposed Action (continued)**

| Resource | Affected Environment | Environmental Consequences | Section No. |
|--------------------------|---|-----------------------------------|--------------------|
| Noise | Ambient noise in the vicinity of the Property is expected to fall below 65 dB. | No impact identified | 4.19 |
| Utilities | No utilities present on the Property or expected to be present under the Proposed Action. | No impact identified | 4.20 |
| Public Health and Safety | No public health and safety concerns are present on the Property or expected under the Proposed Action. | No impact identified | 4.21 |
| Protection of Children | No daycares or elementary schools are located on or adjacent to the Property. | No impact identified | 4.22 |

Note: There are no mitigation implementation recommendations because the Proposed Action will not result in significant adverse impacts.

T – Threatened, USFWS

E – Endangered, USFWS

ST – Threatened, State Listed

SSS – Special Status Species, State Listed

4.1 Topography

4.1.1 Affected Environment

The topography, as depicted on topographic maps of the Property and surrounding area, slopes downward from east to west with an elevation of 1,300 feet (ft) above mean sea level (AMSL) at its easternmost boundary and 580 ft AMSL at its westernmost boundary. The Property elevation reduces significantly (approximately 200 ft) at a steep topographic gradient that runs north-to-south along the approximate central-east portion of the Property (Figure 1).

4.1.2 Environmental Consequences

The Proposed Action will have no impact to the topography, as the Property will remain vacant, unoccupied land.

4.2 Geology

4.2.1 Affected Environment

The Property consists predominately of moderately steep and very stony Swartzwood and Mardin soils throughout the central portions with rock outcrop of the Hollis Complex,

existing as both very steep or with 15 to 35 percent (%) slopes along the easternmost portions of the Property (USDA 2020). Mardin gravelly silt loam, including 3 to 8% slopes, 8 to 15% slopes and 15 to 25% slopes are located throughout the westernmost portions of the Property (Figure 4).

4.2.2 Environmental Consequences

The Proposed Action will have no impact to geology or soils, as the Property will remain vacant, unoccupied land.

4.3 Climate

4.3.1 Affected Environment

The regional climate in the vicinity of the Property consists generally of cold winters and warm summers. Winter climate averages from December to March range from a high of 47 degrees (°) Fahrenheit (F) to a low of 17°F. January is the coldest month with an average high of 34°F and a low of 17°F. Summer climate averages from June to September range from an average high of 82°F to a low of 52°F. July is the warmest and most humid month with an average high of 82°F and a low of 61°F (USA 2020).

4.3.2 Environmental Consequences

The Proposed Action will have no impact to climate, as the Property will remain vacant, unoccupied land.

4.4 Air Quality

4.4.1 Affected Environment

The Clean Air Act (CAA) is a federal law that regulates air emissions from stationary and mobile sources. This law authorizes EPA to establish National Ambient Air Quality Standards (NAAQS) to protect public health and public welfare and to regulate emissions of hazardous pollutants (USEPA 2020). Stationary sources include coal-fired power plants, glass manufacturing plants, cement manufacturing plants, and petroleum refineries. Mobile sources include new vehicles and vehicle emissions, generators, mowers, ocean vessels and large ships.

Based on a review of available information, the Property does not appear to have operational air quality hazards present, due to the Property being vacant, unoccupied land. It should be noted, however, that the Property falls within a nonattainment area.

4.4.2 Environmental Consequences

The Proposed Action will have no impact to air quality, as the Property will remain vacant, unoccupied land. Furthermore, the Proposed Action and intended future use of the Property is not anticipated to be adversely affected by the nonattainment area designation.

4.5 Hydrogeology

4.5.1 Affected Environment

The general bedrock geology in the vicinity of the Property consists of Precambrian age metamorphic rocks (mostly gneiss) of the Hudson Highlands underlying thick deposits of glacial till (greater than 50 ft thick) in the lower lying areas to the west between the Property and Highland Mills and throughout the Town of Central Valley. Groundwater is the primary water supply in the area, drawn from both sand and gravel (glacial) and fractured-bedrock aquifers. Groundwater circulation occurs through both fractured bedrock and stratified-drift aquifers, recharged by the infiltration of precipitation at the land surface (USGS 2014).

Topographic gradients typically dictate the surficial and shallow groundwater flow, whereby hydrogeology gradients generally follow. The hydrogeology at the Property is expected to flow from east to west, sloping downward towards Woodbury Creek and the Town of Central Valley.

4.5.2 Environmental Consequences

The Proposed Action will have no significant impact to the hydrogeology, as the Property will remain vacant, unoccupied land.

4.6 Surface Water

4.6.1 Affected Environment

While there are no surface water bodies located on the Property, surface waters are located in the vicinity of the Property, including Lake Georgina and Lake Frederick to the south, Bull Pond to the southeast, and Lake Popolopen to the east. The nearest surface water body is located approximately 800 ft northwest and downgradient from the Property, identified as a freshwater pond, that is bisected by Woodbury Creek. Woodbury Creek flows from north to south towards the Town of Central Valley (Figure 5).

4.6.2 Environmental Consequences

The Proposed Action will have no impact to surface waters in the vicinity of the Property, as the Property will remain vacant, unoccupied land.

4.7 Wetlands

4.7.1 Affected Environment

United States Fish and Wildlife Service (USFWS) maintains records for known wetlands located throughout the U.S. via an online National Wetlands Inventory (NWI) Mapper database. The Clean Water Act (CWA), as amended, provides additional wetlands protection measures, particularly to prevent the discharge of dredged or fill material. USACE and the EPA enforce Section 404 provisions.

Based on a review of available information of the NWI Mapper and the New York State Environmental Resource Mapper (NYS 2020a), there are no recorded wetlands located on the Property. The nearest USFWS listed wetland is located approximately 800 ft northwest from the Property boundary, identified as a 2.56-acre freshwater pond (USFWS 2020c). The nearest State listed wetland is located 1,500 ft northeast from the Property boundary, identified as an approximate 20-acre freshwater forested/shrub wetland that is located on the USAG West Point property (NYS 2020a). This State listed wetland is also identifiable on the NWI Mapper (USFWS 2020c) (Figure 6).

4.7.2 Environmental Consequences

The Proposed Action will have no impact to wetlands located in the vicinity of the Property, as the Property will remain vacant, unoccupied land.

4.8 Floodplains

4.8.1 Affected Environment

The Federal Emergency Management Agency (FEMA) provides an online public source for flood hazard information. FEMA maintains and updates data through the Flood Insurance Rate Map (FIRM) and risk assessments, utilizing data statistics for river flow, storm tides, hydrologic/hydraulic analyses, rainfall and topographic surveys (FEMA 2020).

Based on a review of the FEMA FIRM for the Property, identified on Panel Number 36071C0502E, the Property lies within a Zone X designation, defined as an area outside the 0.2% annual chance floodplain (Figure 7).

4.8.2 Environmental Consequences

The Proposed Action will have no impact to floodplains located in the vicinity of the Property, as the Property will remain vacant, unoccupied land.

4.9 Terrestrial Habitat

4.9.1 Affected Environment

The Property is predominantly covered with wooded vegetation and has been since at least 1940 as viewed on the earliest obtained aerial photograph. Significant natural communities known to exist on or in the near vicinity of the Property include: Chestnut Oak Forest, Acidic Talus Slope Woodland and Hemlock-Hardwood Swamp (NYS 2020a). The easternmost portion of the Property contains Chestnut Oak Forest, while areas of Acidic Talus Slope Woodland and Hemlock-Hardwood Swamp are located to the east of the Property, within the USAG West Point boundary. A fourth significant natural community, identified as Rocky Summit Grassland is identified further to the north of the Property, also located within the USAG West Point boundary (Figure 8).

4.9.2 Environmental Consequences

The Proposed Action will have no impact to terrestrial habitat or significant natural communities, as the Property will remain vacant, unoccupied land.

4.10 Wildlife

4.10.1 Affected Environment

The Property is located in the Hudson Valley Region of New York State. Forests, fields, and wetlands in this region provide habitats for a large variety of wildlife. While many additional species may likely be present on and surrounding the Property, the following is a general list of the most common wildlife likely to be present in the vicinity:

Mammals

- White-tailed Deer
- Woodchuck
- Striped Skunk
- White-footed Mouse
- Coyote
- Black Bear
- Fisher
- Eastern Cottontail
- Eastern Chipmunk
- Red Fox
- Bobcat
- Gray Squirrel
- Raccoon
- Shorttail Weasel
- Little Brown Bat

Source: NYS 2020c

Birds

- Wood Thrush
- Louisiana Waterthrush
- Yellow-throated Vireo
- Black-and-white Warbler
- Scarlet Tanager
- Acadian Flycatcher
- Purple Finch
- Black-capped Chickadees
- Yellow Warbler
- Cerulean Warbler
- Eastern Wood-Pewee
- Red-eyed Vireo
- American Redstart
- Rose-breasted Grosbeak
- Blue-headed Vireo
- Woodpeckers
- Tufted Titmice
- Chestnut-sided Warbler
- Worm-eating Warbler
- Great Crested Flycatcher
- Veery
- Ovenbird
- Baltimore Oriole
- Magnolia and Black-throated Green Warbler
- Wild Turkey
- White-breasted Nuthatches
- Common Yellowthroat

- Blue-winged Warbler
- Field Sparrow
- White-throated Sparrows
- Golden-winged Warbler
- American Goldfinch
- Dark-eyed Juncos
- Prairie Warbler
- American Tree Sparrows
- Bobolinks

Source: USMA 2020

Refer to the New York State Department of Environmental Conservation (NYSDEC) animals, plants, and aquatic life website (NYS 2020c) and *West Point's Birds and Their Habitats* website for a list of additional species that may be present on or in the vicinity of the Property (USMA 2020).

It is highly likely the Property attracts a variety of wildlife since the Property is vacant, unoccupied land that has never been developed. The Property is not located in a State designated Wildlife Management Area (NYS 2020a).

4.10.2 Environmental Consequences

The Proposed Action will have no impact to wildlife, as the Property will remain vacant, unoccupied land.

4.11 Threatened and Endangered Species

4.11.1 Affected Environment

The Endangered Species Act (ESA) of 1973 was passed to protect and recover imperiled species and the ecosystems upon which they depend. The ESA is administered by the USFWS and the National Marine Fisheries Service (NMFS). Under the ESA, species may be listed as either endangered or threatened, whereby species are either in danger of extinction through all, or a significant portion, of its range (endangered) or are species that are likely to become endangered within the foreseeable future (threatened).

The USFWS Information for Planning and Consultation (iPaC) database was utilized to determine the potential presence of federal threatened and endangered species on the Property (USFWS 2020b). Additionally, the New York State Department of Environmental Conservation Environmental Resource Mapper (NYS 2020a) and Natural Heritage Program Database (NYS 2020b) was utilized to determine the potential presence of State listed species.

Federal threatened and endangered plant and animal species with the potential to be present in the vicinity of the Property include the Indiana Bat (*Myotis sodalist*), Northern Long-eared Bat (*Myotis septentrionalis*), Bog Turtle (*Clemmys muhlenbergii*), and the Small Whorled Pogonia (*Isotria medeoloides*). The Indiana Bat is listed as an endangered species, while the Northern Long-eared Bat, Bog Turtle, and Small Whorled Pogonia are listed as threatened as shown on Table 3 (USFWS 2020b).

The Property is located in the vicinity of State listed endangered or threatened species and species of special concern. State listed threatened, endangered or species of special concern with the potential to be present in the vicinity of the Property include the Northern Long-eared Bat (*Myotis septentrionalis*), Timber Rattlesnake (*Crotalus horridus*) and Eastern Small-footed Myotis. The Northern Long-eared Bat and Timber Rattlesnake are listed as threatened while the Eastern Small-footed Myotis is listed as a special status species as shown on Table 3 (NYS 2020b).

No other federally listed or state-listed threatened and endangered, or special status species are known to be potentially present in the vicinity of the Property.

Table 3 - Threatened, Endangered and Special Status Species Located in the Vicinity of the Property

| Common Name | Scientific Name | Status | |
|--|-------------------------------|-------------------------|------------|
| | | Threatened | Endangered |
| Indiana Bat ¹ | <i>Myotis sodalis</i> | | X |
| Northern Long-eared Bat ^{1,2} | <i>Myotis septentrionalis</i> | X | |
| Bog Turtle ¹ | <i>Clemmys muhlenbergii</i> | X | |
| Small Whorled Pogonia ¹ | <i>Isotria medeoloides</i> | X | |
| Timber Rattlesnake ² | <i>Crotalus horridus</i> | X | |
| Eastern Small-footed Myotis ² | <i>Myotis leibii</i> | *Special status species | |

Notes:

1 - Federally Listed

2 - State Listed

* - State special status species, not otherwise listed as threatened or endangered

Although a threatened and endangered species survey has not been conducted for the Property, it is assumed that the Property may contain suitable habitat for the Indiana Bat, Northern Long-eared Bat, Small Whorled Pogonia, Timber Rattlesnake, and Eastern Small-footed Myotis, based on the undeveloped wooded vegetative characteristics of the Property. It is not anticipated that the Property has suitable habitat for the bog turtle, due to the lack of surface water habitat on the Property. The USFWS Information for Planning and Consultation (IPaC) Report is included in Appendix A.

4.11.2 Environmental Consequences

The Proposed Action would have no impact to threatened, endangered or special status species, as the Property would remain vacant, unoccupied land.

4.12 Migratory Birds

4.12.1 Affected Environment

The Migratory Bird Treaty Act (MBTA) of 1918, as amended, was implemented for the protection and conservation of migratory birds. The MBTA prohibits, unless permitted by regulations, actions that could cause detrimental effects to migratory birds. Under the

MBTA, it is illegal to possess, import, export, transport, sell, purchase, barter or offer for sale migratory birds, including their parts, feathers, nests and eggs. The law additionally makes it illegal to engage in a “take”, or to “pursue, hunt, shoot, wound, kill, trap, capture or collect, or any attempt to carry out these activities” of migratory birds including their parts, feathers, nests and eggs (USFWS 2020a).

The Bald and Golden Eagle Protection Act of 1940 prohibits, unless under permit issued by the Secretary of the Interior, actions that could disturb or cause detrimental effects to bald and golden eagles. Under this Act, and similar to the MBTA, it is illegal to possess, import, export, transport, sell, purchase, barter or offer for sale migratory birds, including their parts, feathers, nests and eggs. The law additionally makes it illegal to engage in a “take”, or to “pursue, hunt, shoot, wound, kill, trap, capture or collect, or any attempt to carry out these activities” of bald and golden eagles, including their parts, feathers, nests and eggs (USFWS 2020a).

USAG West Point has documented 249 migratory bird species on or near West Point property (INRMP 2018). Of the 249 species, the USFWS iPAC database identified eight migratory bird species of particular concern with the potential to be present in the vicinity of the Property, including the Bald Eagle (*Haliaeetus leucocephalus*), Black-billed Cuckoo (*Coccyzus erythrophthalmus*), Black-capped Chickadee (*Poecile atricapillus praticus*), Bobolink (*Dolichonyx oryzivorus*), Cerulean Warbler (*Dendroica cerulean*), Prairie Warbler (*Dendroica discolor*), Wood Thrush (*Hylocichla mustelina*), and the Yellow-bellied Sapsucker (*Spyrapicus varius*) (USFWS 2020b). The USFWS IPaC database report is included in Appendix A.

4.12.2 Environmental Consequences

The Proposed Action would have no impact to migratory birds, or bald and golden eagles, as the Property would remain vacant, unoccupied land.

4.13 Historic and Archaeological Resources

4.13.1 Affected Environment

In April 2020 the District conducted a Phase IA cultural resources survey of the Proposed Action’s Area of Potential Effect (APE). The survey consisted of background research, an interview with the current owner of the house at 520 Smith Clove Road, and a visual inspection of the APE. The resulting report is included in Appendix B of this report. The Phase IA survey found that there are no known above-ground historic properties or archaeological resources within APE, but that the APE has a high likelihood of containing both historic and prehistoric archaeological resources (USACE 2020c).

The Audi house (which is not being purchased by USAG West Point) was built in 1840, so it is likely that there are historic features associated with the house that are within the APE. The current owner, whose family has occupied the Property on a seasonal basis for nearly a century, reported no evidence of Precontact sites or former structures on the Property however they noted the presence of a depressed area within the APE that the owner believes may have once served as a historic cattle watering trough or swimming

pool. The feature was not observed by the USACE archaeologist during the visit to the site in February 2020, however, they did note fieldstone walls within the APE indicating that the land was likely utilized for farming in the historic period.

There is also a high potential for Precontact archaeological resources within the APE due to the large number of previously recorded archaeological sites with a Precontact component within one mile of the APE. There are 19 archaeological sites within one mile of the APE, 16 of which have a Precontact component. A review of the Precontact archaeological sites reveals that they have generally been located in close proximity to a stream. There are no streams within the APE, but two streams run in close proximity to the APE, one on the east and the other on the west side of the APE. Fifteen of the Precontact sites are lithic scatters and one is a rock shelter. The APE contains both gently sloped areas with the potential to contain lithic scatters and steeply sloped areas that could contain rock shelters.

4.13.2 Environmental Consequences

The Proposed Action will have no effect on cultural resources. There are no above-ground historic resources within the APE for the Proposed Action and the Proposed Action does not involve ground disturbance that has the potential to effect buried cultural resources. The acquisition of the Property as a buffer around USAG West Point will not change how the property is currently used. If in the future, USAG West Point decides to carry out an undertaking that includes ground disturbance on this property, a Phase IB field survey will need to be carried out to assess if that undertaking has the potential affect National Register-eligible cultural resources.

4.14 Hazardous, Toxic and Radioactive Waste

4.14.1 Affected Environment

The District reviewed the present day and past history of the Property through available records, including any historical, cultural, and environmental conditions resulting in a conclusion regarding the advisability of the transaction. The assessment included an in-depth review of any past use, storage, disposal and release of hazardous materials and petroleum products at the Property, and additionally at adjacent properties which may potentially impact the Property.

Based on an interview with the parcel owner and available Property records, there are no known or identified past use, storage, disposal, or release of hazardous materials or petroleum products on the Property with the exception of the historical usage of conventional yard maintenance activities that would require the use of petroleum products, such as mowing/weeding activities conducted for general upkeep throughout the parcel, particularly concentrated on the portions of the parcel excluded from the proposed acquisition. Conventional petroleum products would include lawnmower and maintenance equipment gasoline in de minimis quantities that do not generally pose a threat to cause adverse effects.

Additionally, the Property does not consist of any structures, and therefore, is not anticipated to contain any asbestos containing material (ACM), lead-based paint (LBP), or polychlorinated biphenyls (PCBs).

4.14.2 Environmental Consequences

The Proposed Action would have no impact associated with hazardous, toxic or radioactive waste, as the Property would remain vacant, unoccupied land.

4.15 Land Use, Zoning and Visual Resources

4.15.1 Affected Environment

Land use is characterized by classifications based on natural and human activities conducted at, or planned to be conducted at, a land area. Natural land uses include undeveloped areas such as open grassland, forest and open water. Developed land uses typically fall under zoning designations including residential, commercial, industrial and agricultural zoning and operations. These designations dictate the appropriate operations and usage under each particular zoning type. The Property is zoned as Rural Residential by the Town of Woodbury and consists of 87.2 acres of a 116.30-acre parcel that extends across Smith Clove Road. The Property primarily consists of wooded vegetation. There are no developments or structures on the Property. Visually, there would be no changes to the Property under the Proposed Action.

In 2019 the 116.30-acre parcel generated approximately \$26,255.26 in real estate tax revenue (USACE 2020d), which is approximately .00003% of the annual tax revenue collected by the Orange County, combined. The portion of the Property proposed for purchase by USAG West Point would ultimately reduce the amount of tax revenue generated by the entire parcel, as the government does not pay local real estate tax. However, the remaining acreage not purchased by USAG West Point would continue to generate tax revenue, including the portion of the parcel that contains the house and portion of land that extends across Smith Clove Road. The Proposed Action would not increase demand on municipal resources, would not increase the student body of the surrounding school districts nor would it increase the population of Highland Mills, Central Valley or Woodbury. The Property would not likely otherwise be developed into a tax generating operation, as the Property is currently zoned Rural Residential and consists of a steep cliff and wooded vegetation. The Woodbury zoning ordinance Section 310-7 describes this zoning designation's purpose is to:

“...protect the environmentally sensitive steep or wet areas and aquifer recharge areas of the Village and to preserve open and rural character while providing a suitable low-density environment for single-family residences and limited nonresidential uses...”

Based on the current zoning ordinance for the Property and the steep topographic gradient of the Property, the likelihood of others purchasing the Property for the purpose of advancing major development, and therefore generating increased tax revenue, is low and would not be consistent with the surrounding area.

4.15.2 Environmental Consequences

While the Property's zoning designation under the Proposed Action will change from Rural Residential to Military zoning, there will be no impact, as the Property will remain vacant, unoccupied land. The Property will not be altered from its existing state and usages, posing no other changes to land use or visual resources. The Proposed Action is anticipated to have minor to negligible impact for the reduction in tax revenue for the 87.2 acres purchased by USAG West Point, because the tax generating revenue of \$26,255.26 annually is only 0.00003% of the overall tax collected by Orange County. However, the remaining portions of the parcel including the house and portion of the parcel that extends across Smith Clove Road would continue to generate tax revenue, therefore, the Proposed Action would be less than 0.00003% reduction in tax revenue. Furthermore, the Proposed Action will not result in an increase demand on the municipal resources, as the Property would be owned and maintained by USAG West Point. The Proposed Action is consistent with the Village's current zoning ordinance designated to protect environmentally sensitive areas and to preserve rural character and is proposed to remain consistent with the surrounding area and current zoning ordinance.

4.16 Prime and Unique Farmland

4.16.1 Affected Environment

The Farmland Protection Policy Act (FPPA) of 1981 was enacted to minimize the extent to which federal programs contribute to the irreversible conversion of farmland to nonagricultural uses. The FPPA applies to farmland with soil types classified as prime, unique, or of statewide or local importance. The majority of the Property is not located in an area classified as prime, unique or of statewide or local importance farmland, with the exception of a small area located on the westernmost portion of the Property (Figure 4). The Mardin gravelly silt loam with 3 to 8% slopes and with 8 to 15% slopes are identified as farmland of statewide importance (NRCS 2020). These two soil types collectively cover less than 10% of the total acreage of the Property. Farmland of statewide importance includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods for the production of food, feed, fiber, forage and oilseed crops. The NRCS Prime or other Important Farmlands table is included in Appendix C.

4.16.2 Environmental Consequences

The Proposed Action would have no impact to the farmland designation, as the Property would remain vacant, unoccupied land. The portion of the Property that contains farmland of statewide importance covers less than 10% of the Property. This area is located on the westernmost portion of the Property in two segments that are not contiguously connected. One segment is adjacent to Smith Clove Road while the other is located to the adjacent east of the portion of the parcel not proposed for purchase. The portion of the parcel not proposed for purchase is entirely underlain by farmland of statewide importance, however, this area is developed with a house, detached garage and yard, surrounded by a stone fence. It is not likely, based on the surrounding characteristics

and development of this portion of the parcel, that the farmland of statewide importance areas would be conducive to substantial farming practices on the Property.

4.17 Environmental Justice

4.17.1 Affected Environment

In 1994, the *Federal Actions to Address Environmental Justice in Minority and Low-Income Populations* Executive Order (EO) (EO 12898) was introduced to focus federal attention on the environmental and human health effects of federal actions on minority and low-income populations with the goal of achieving environmental protection for all communities and to identify alternatives that could mitigate associated impacts. The Department of Defense (DoD) implements the environmental justice strategy under NEPA to evaluate the potential effects of DoD actions. The NYSDEC's guidance for Environmental Justice (EJ) analyses stipulates that a community would be considered an EJ community if the minority population is 33.8% or higher in rural areas, or if 23.59% or more of the population is considered low-income (NYS 2003).

The USEPA's EJ Screening Tool (EJSCREEN) includes the US Census Bureau's American Community Survey (ACS) for 2013 to 2017, and estimates the population within a 1-mile vicinity of the Property is 1,185 persons, with a minority population of 21%, lower than the statewide minority population of 44% and lower than the NYSDEC EJ community criteria of 33.8%. The per capita income for the area is reported at approximately \$35,810 with a low-income population of 6%, lower than the statewide low-income average of 31% and lower than the NYSDEC EJ community criteria of 23.59%. The USEPA EJSCREEN and US Census Bureau's ACS reports are included in Appendix D.

There are no environmental justice communities identified on or adjacent to the Property (Figure 9A and 9B).

4.17.2 Environmental Consequences

The Proposed Action would have no impact to socioeconomic resources or environmental justice communities, as the Property would remain vacant, unoccupied land and there are no environmental justice communities on or adjacent to the Property.

4.18 Traffic

4.18.1 Affected Environment

The Property does not contain any driveways or designated parking areas accessible from Smith Clove Road. Access to the Property is attainable by foot from the north, west and south and by vehicle from the east, via an access road located on the easternmost portion of the Property, under the exclusive use of USAG West Point (Figure 10).

4.18.2 Environmental Consequences

The Proposed Action would not impact current traffic volume as the Property would remain vacant, unoccupied land.

4.19 Noise

4.19.1 Affected Environment

The Noise Control Act and Quiet Communities Act were introduced in 1972 and 1978, respectively, to direct federal agencies to comply with applicable federal, state, and local noise control regulations. The EPA, the Housing and Urban Development Agency (HUD) and DoD have designated noise levels to protect public health and welfare with an adequate margin of safety. These levels are considered acceptable guidelines for assessing noise conditions. In an environmental setting, noise levels below 65 decibels (dB) are considered to be acceptable.

The USAG West Point operates under the *Installation Operational Noise Management Plan* (IONMP) of which provides a strategy for noise management in accordance with the Noise Control Act and Quiet Communities Act to ensure noise disturbances are properly managed on USAG West Point projects and property (IONMP 2013). USAG West Point Zone designations include Zone I, Zone II and Zone III. Zone I is typically suitable for all types of land use, while Zone II and Zone III are not normally recommended for noise-sensitive land uses (IONMP 2013).

The Property is located in an area of Highland Mills that is underdeveloped, whereby the majority of the surrounding land is unoccupied with the exception of the two private residential properties located to the adjacent north and a residential community development located to the west and southwest across Smith Clove Road. Vacant land areas are identified as the USAG West Point to the south, east, and north, and additional vacant land to the northwest, across Smith Clove Road, between the Property and the Town of Woodbury. Ambient noise levels in the vicinity of the Property are consistent with underdeveloped rural areas and are expected to fall below 65 dB. The Property would be managed under the IONMP as a Zone I designation.

4.19.2 Environmental Consequences

The Proposed Action would not impact noise, as the Property would remain vacant, unoccupied land. Under the Proposed Action, the Property would come under the ownership of USAG West Point and be subject to compliance with the IONMP.

4.20 Utilities

4.20.1 Affected Environment

The area surrounding the Property, and in particular the portion of the parcel that is excluded from the proposed acquisition, is serviced by Orange and Rockland (electricity), Frontier Communication (telephone), Suburban Propane (heating), and the Village of Westbury (refuse).

4.20.2 Environmental Consequences

The Proposed Action would not impact utilities, as the Property would remain vacant, unoccupied land and not require the installation of new utility services.

4.21 Public Health and Safety

4.21.1 Affected Environment

The Property consists of vacant, unoccupied land with no developments or structures present. No risks to public health and safety have been identified.

4.21.2 Environmental Consequences

The purpose of the Proposed Action is to acquire the Property to be primarily utilized as a buffer area between the active training and operations conducted at USAG West Point and the general public and to protect from urban encroachment, in compliance with USAG West Points Master Plan. Following acquisition, the Property would remain vacant, undeveloped land. No construction, development, or new operations are proposed under the Proposed Action. Therefore, the Proposed Action would not have impacts public health and safety.

4.22 Protection of Children

4.22.1 Affected Environment

In 1997, the Protection of Children from Environmental Health Risks and Safety Risks (EO 13045) was introduced to prioritize the identification and assessment of environmental health and safety risks that may affect children, and ensure that federal agencies address environmental and safety risk to children, particularly:

“...risks to health or to safety that are attributable to products or substances that the child is likely to come in contact with or ingest.”

Multiple daycares and public schools are present in the Town of Woodbury and Central Valley (Figure 11). The nearest daycare is located approximately 0.6 mile west from the Property, at 63 Elmwood Drive identified as Sue’s Play & Learning Center. The nearest school is located approximately 2.3 miles southwest from the Property, at 21 Smith Clove Road identified as the Central Valley Elementary School.

4.22.2 Environmental Consequences

Under the Proposed Action, the Property would remain vacant, unoccupied land; therefore, no risks are identified that would pose health or safety risks to children.

4.23 Cumulative Impacts

NEPA regulation requires the assessment of cumulative impacts of alternatives in relation to time and proximity. The CEQ regulations define cumulative impacts under 40 CFR 1508.7 as an “impact on the environment which results from the incremental impacts of the action when added to other past, present and reasonably foreseeable future actions, regardless of what federal agency or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time”.

This EA has been prepared to assess the acquisition action of the Property. The USAG West Point will either purchase the Property, or refrain from purchasing the Property. Under the USAG West Point ownership, the Property zoning designation will change from rural residential to Military, however, the Property will remain vacant, unoccupied land. The acquisition of the Property should not affect the current surrounding residential and rural areas, as the Property is predominately bound by USAG West Point, therefore, the Property zoning designation would be more like the surrounding area following acquisition.

No cumulative impacts for the Proposed Action have been identified in relation to past, present and reasonably foreseeable future actions. In the future, should USAG West Point intend to construct or develop the land, NEPA regulations would be required to further assess the nature and consequences of that action.

5.0 Agency Coordination and Public Involvement

The Draft EA and FONSI was made available for a 30-day public review from 9 November 2020 to 9 December 2020 posted on the internet at the following: <https://www.nan.usace.army.mil/Missions/Environmental/Environmental-Assessment/Audi-Land-Acquisition-EA/>. Public notice and Notice of Availability (NOA) with instructions on accessing the Draft EA/FONSI and providing comments was posted online and in the local newspapers, listed in Appendix E, between 9 November 2020 and 15 November 2020.

Hard and/or electronic copies of the EA and FONSI were also sent to Federal, State and local agencies and interested parties listed in Appendix E.

Agency Consultation:

Federal, state, and local agencies with jurisdiction that could be affected by the project were consulted and/or provided opportunity to review and comment on environmental impacts. The following agencies were consulted in the preparation of this EA:

- United States Fish and Wildlife Service
- Environmental Protection Agency
- New York State Department of Environmental Conservation, Natural Heritage Program
- New York State Office of Parks, Recreation and Historic Preservation, State Historic Preservation Office
- Stockbridge-Munsee Mohican Tribal Historic Preservation Office
- Delaware Nation Historic Preservation Office
- Delaware Tribe Historic Preservation Office

Agency correspondence letters and responses received are provided in Appendix F.

6.0 References

6.1 Sources and Citations

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USGS 2014. Heisig, Paul M., United States Geological Survey and New York Department of Environmental Conservation, *Hydrogeology of the Ramapo River-Woodbury Creek Valley-Fill Aquifer System and Adjacent Areas in Eastern Orange County, New York*. Scientific Investigations Report. 2014.

USMA 2020. United States Military Academy, Birds of the West Point Military Reservation Website, <https://www.mbr-pwrc.usgs.gov/Infocenter/Westpoint/westpoint.htm>. Accessed: June 2020.

6.2 Resources

Army Regulation 200-1, *Environmental Protection and Enhancement*, Section 15-5, *Real Property Acquisition, Leases, Outgrants and Disposal Transactions*, 2007.

Army Regulation 200-2, *Environmental Analysis of Army Actions*, 32 CFR Part 651.

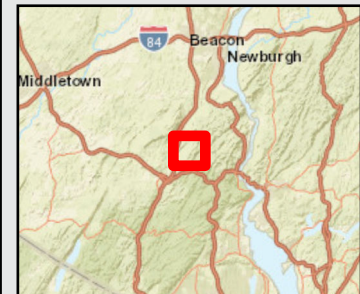
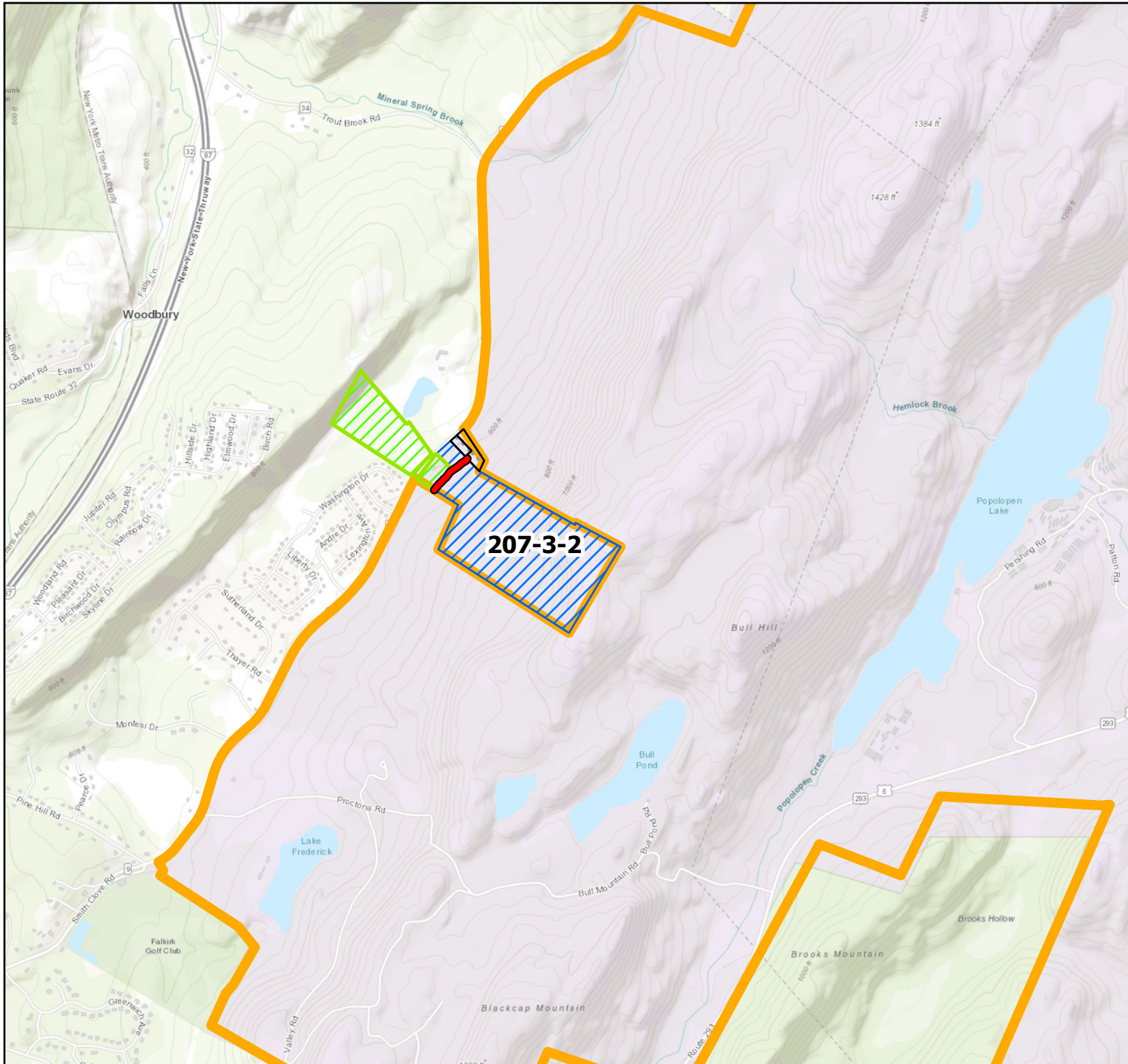
Council on Environmental Quality, *Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act*, 40 CFR Parts 1500-1508. 1992.

National Environmental Policy Act, as amended, 42 USC 4321-4347. 1969.






7.0 Environmental Professionals

Cheryl R. Alkemeyer, PMP, ENV SP, Physical Scientist for the United States Army Corps of Engineers, New York District.

Anna Jansson, MA, RPA, Archaeologist for the United States Army Corps of Engineers, New York District.



LEGEND

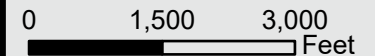
-  Audi Sub-division Retention
-  West Point Acquisition (From Tax ID: 207-3-2)
-  Private Property
-  Stone Wall
-  West Point Property

Sources:

Background Map:
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Reference Map:
 Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Coordinate System:
 NAD 1983 StatePlane New York East FIPS 3101 Feet



West Point Audi Land Environmental Assessment

Figure 1: Site Location Map






Date: 8/24/2020



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 NEW YORK DISTRICT



LEGEND

-  Audi Sub-division Retention
-  West Point Acquisition (From Tax ID: 207-3-2)
-  Private Property
-  Stone Wall
-  West Point Property

Sources:

Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet



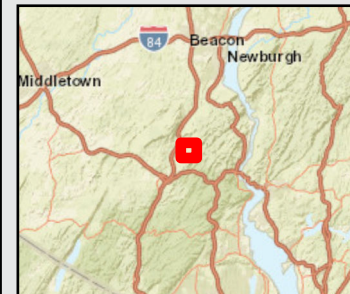
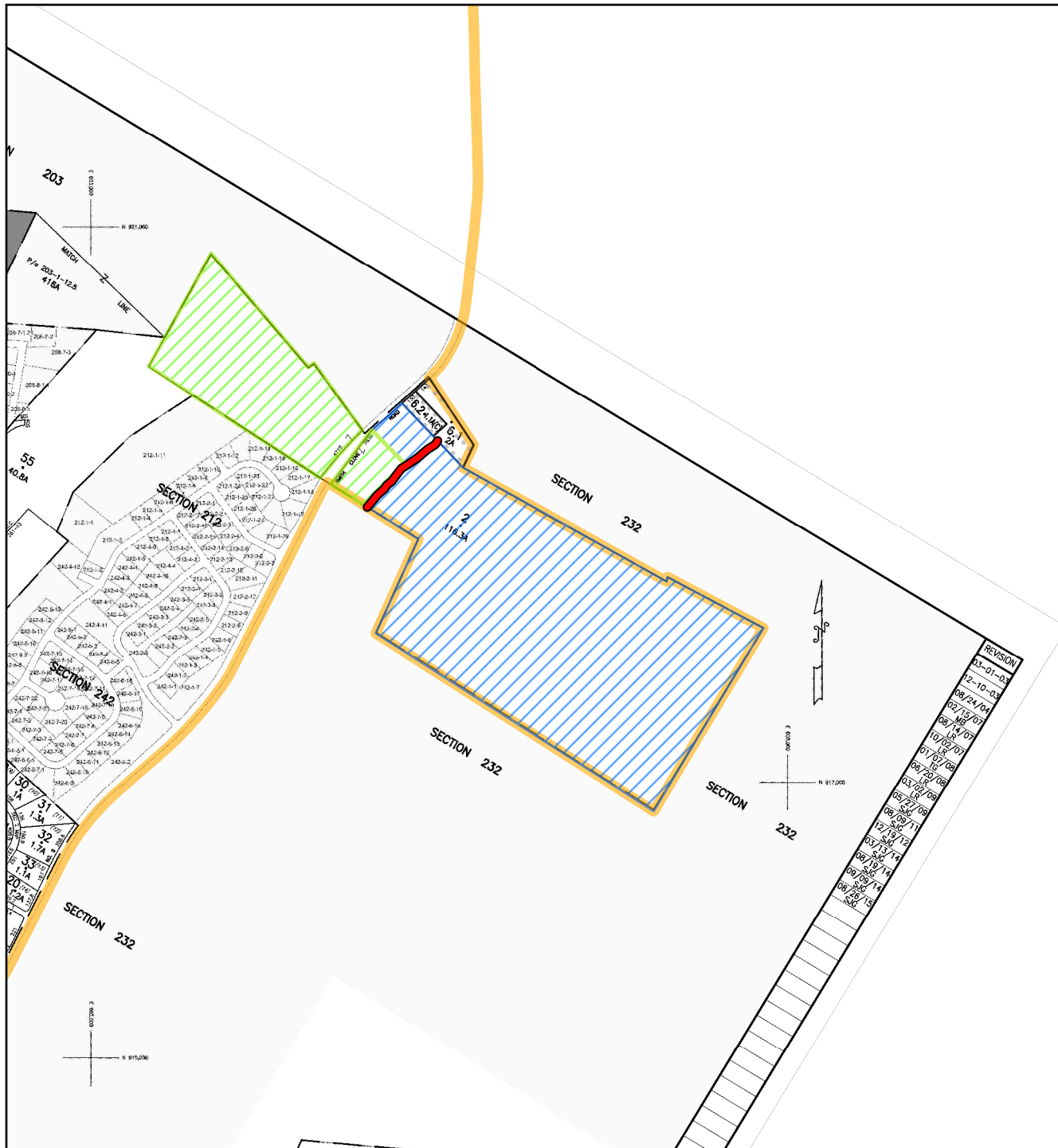
**West Point
Audi Land
Environmental Assessment**

**Figure 2:
Site Plan**

Date: 8/24/2020



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NEW YORK DISTRICT



LEGEND

- Audi Sub-division Retention
- West Point Acquisition (From Tax ID: 207-3-2)
- Private Property
- Stone Wall
- West Point Property

Tax Map (From Orange County Assessor)

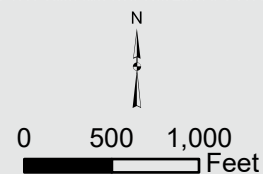


Sources:

Reference Map:
 Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

Tax Map:
 Acquired from Orange County Tax Assessor

Coordinate System:
 NAD 1983 StatePlane New York East FIPS 3101 Feet



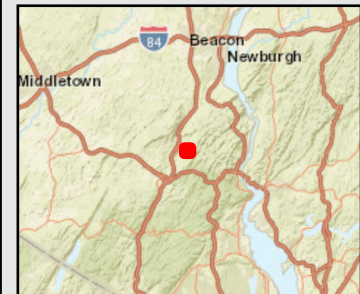
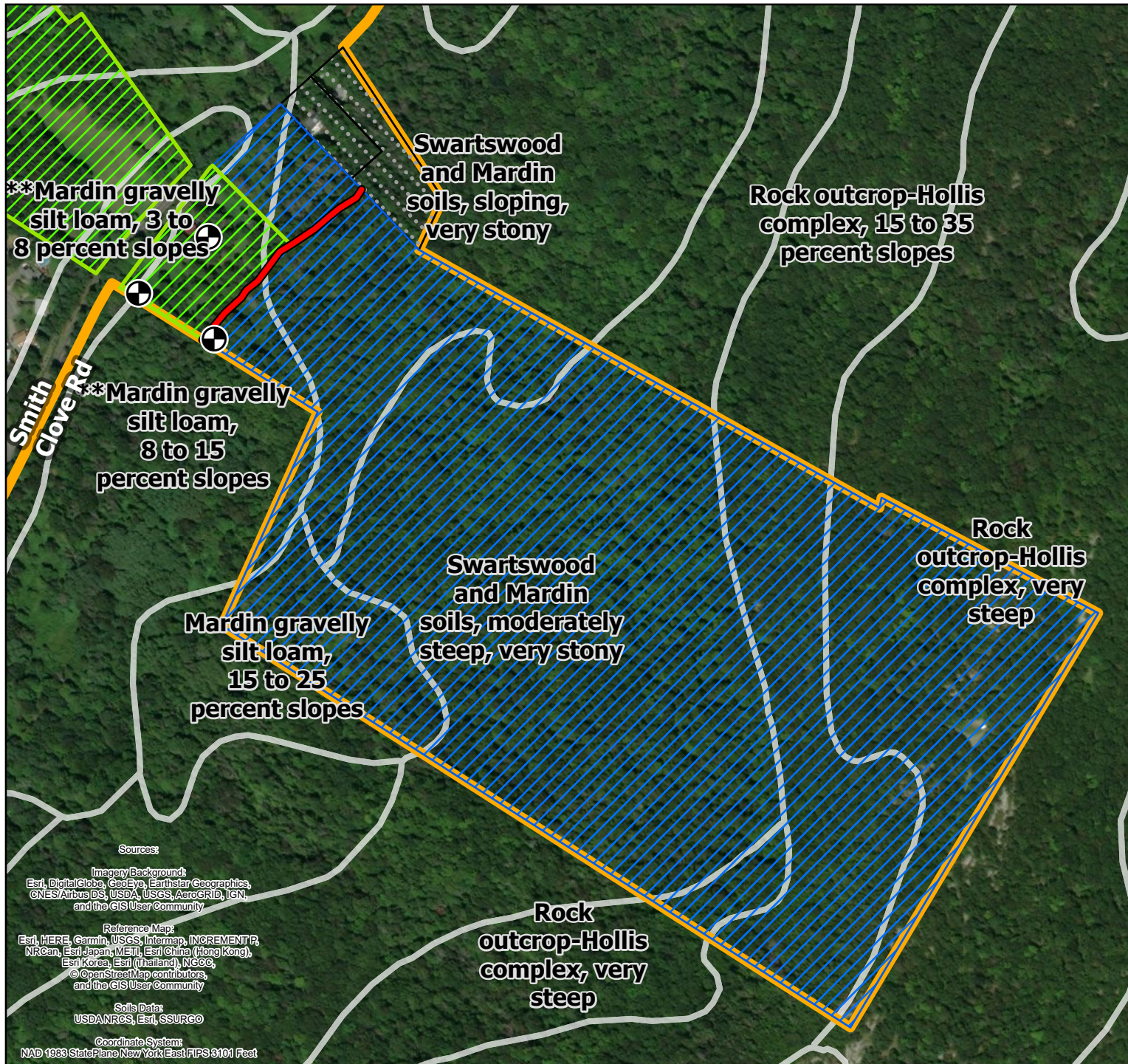
West Point Audi Land Environmental Assessment

Figure 3: Tax Map

Date: 8/24/2020



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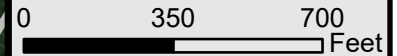
LEGEND

- Audi Sub-division Retention
- West Point Acquisition (From Tax ID: 207-3-2)
- Private Property
- Stone Wall
- Gravity Wells / Drinking Water Wells

USA Soils Map Units (20200604)

- USDA Soil Survey
- West Point Property

****Farmland of State Significance - Mardin soils with 3 to 8%, and 8 to 15% slopes**



West Point Audi Land Environmental Assessment

Figure 4: Soil Survey Map

Date: 8/24/2020



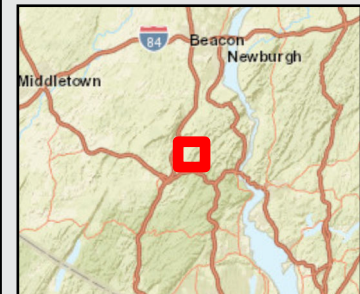
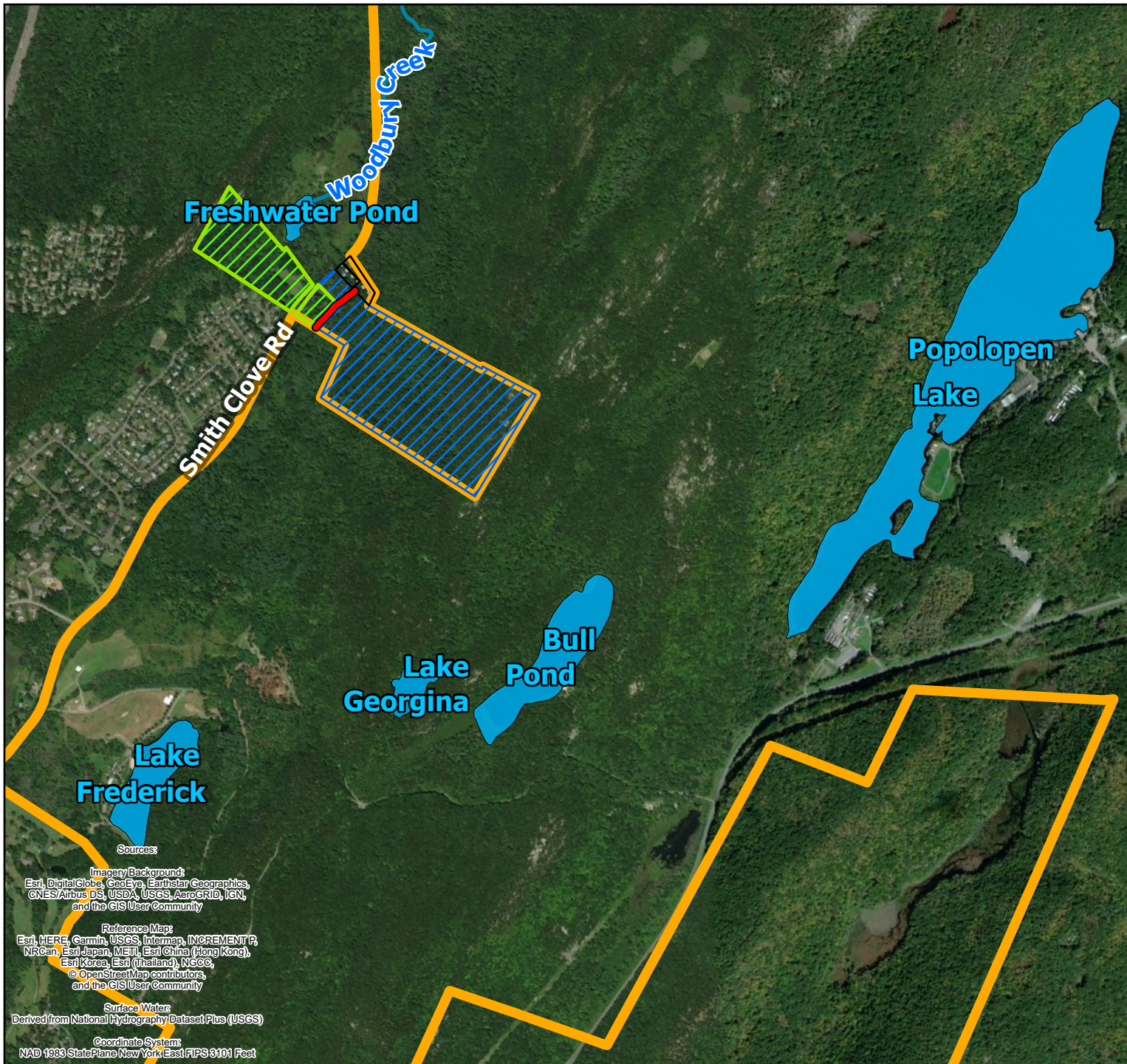
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NEW YORK DISTRICT

Sources:
 Imagery Background:
 Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community








Reference Map:
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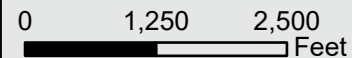
Soils Data:
 USDANRCS, Esri, SSURGO

Coordinate System:
 NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

-  Audi Sub-division Retention
-  West Point Acquisition (From Tax ID: 207-3-2)
-  Private Property
-  Stone Wall
-  Surface Water Boundary
-  Woodbury Creek
-  West Point Property



West Point Audi Land Environmental Assessment

**Figure 5:
Surface Water Location Map**
Date: 8/24/2020



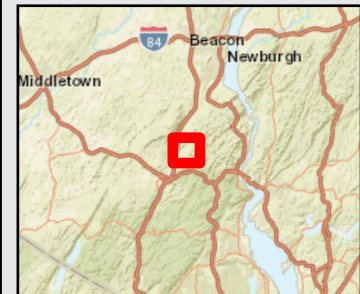
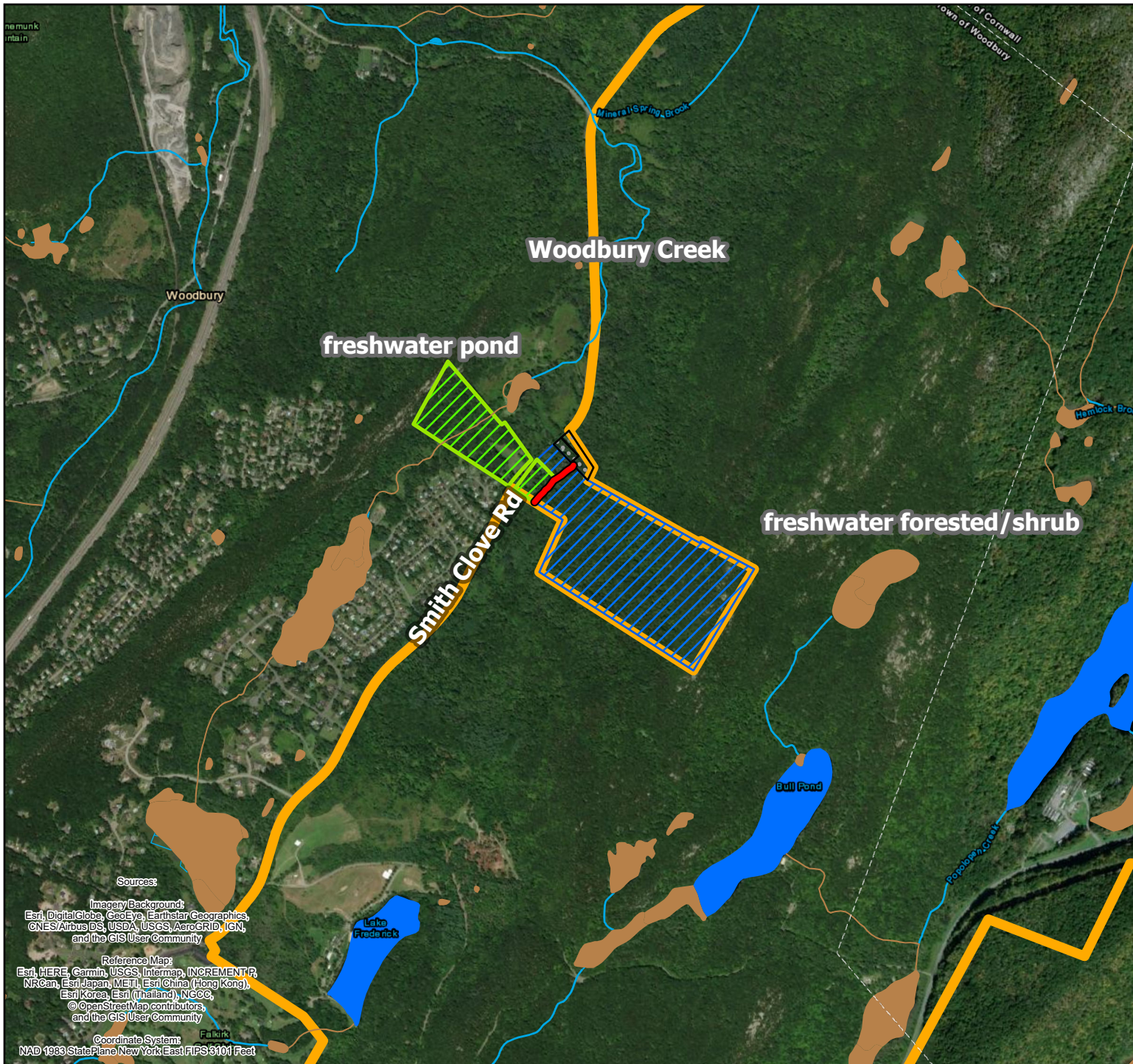
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NEW YORK DISTRICT

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AeroGRID, IGN,
and the GIS User Community

Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P,
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Esri Korea, Esri (Thailand), NGCC,
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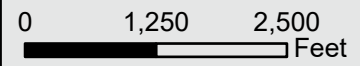
Surface Water:
Derived from National Hydrography Dataset Plus (USGS)

Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

- Audi Sub-division Retention
- West Point Acquisition (From Tax ID: 207-3-2)
- Private Property
- Stone Wall
- West Point Property
- USA Wetlands**
- Palustrine
- Riverine
- Lacustrine



West Point Audi Land Environmental Assessment

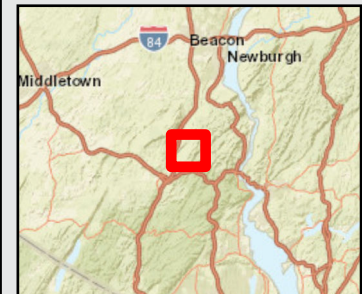
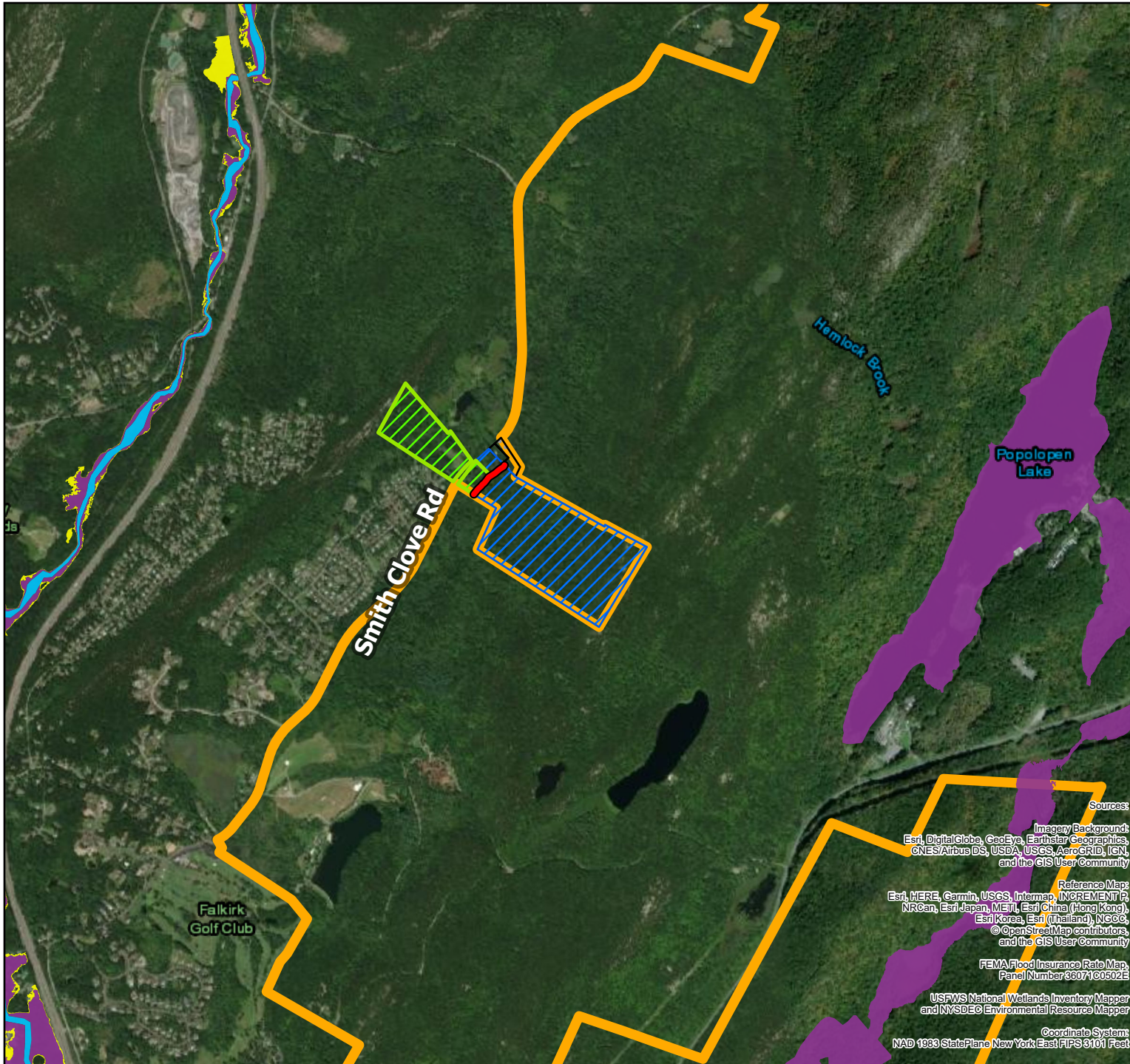
Figure 6: Wetlands Location Map

Date: 8/24/2020



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, ©OpenStreetMap contributors, and the GIS User Community
Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

- Audi Sub-division Retention
 - West Point Acquisition (From Tax ID: 207-3-2)
 - Private Property
 - West Point Property
 - Stone Wall
- USA Flood Hazard Areas**
- 1% Annual Chance Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - Regulatory Floodway
 - Zone X - an area outside the 0.2% annual chance floodplain



0 1,500 3,000 Feet

Sources:

Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AeroGRID, IGN,
and the GIS User Community

Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P,
NRCan, Esri Japan, METI, Esri China (Hong Kong),
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FEMA Flood Insurance Rate Map,
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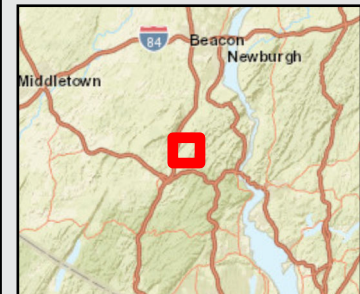
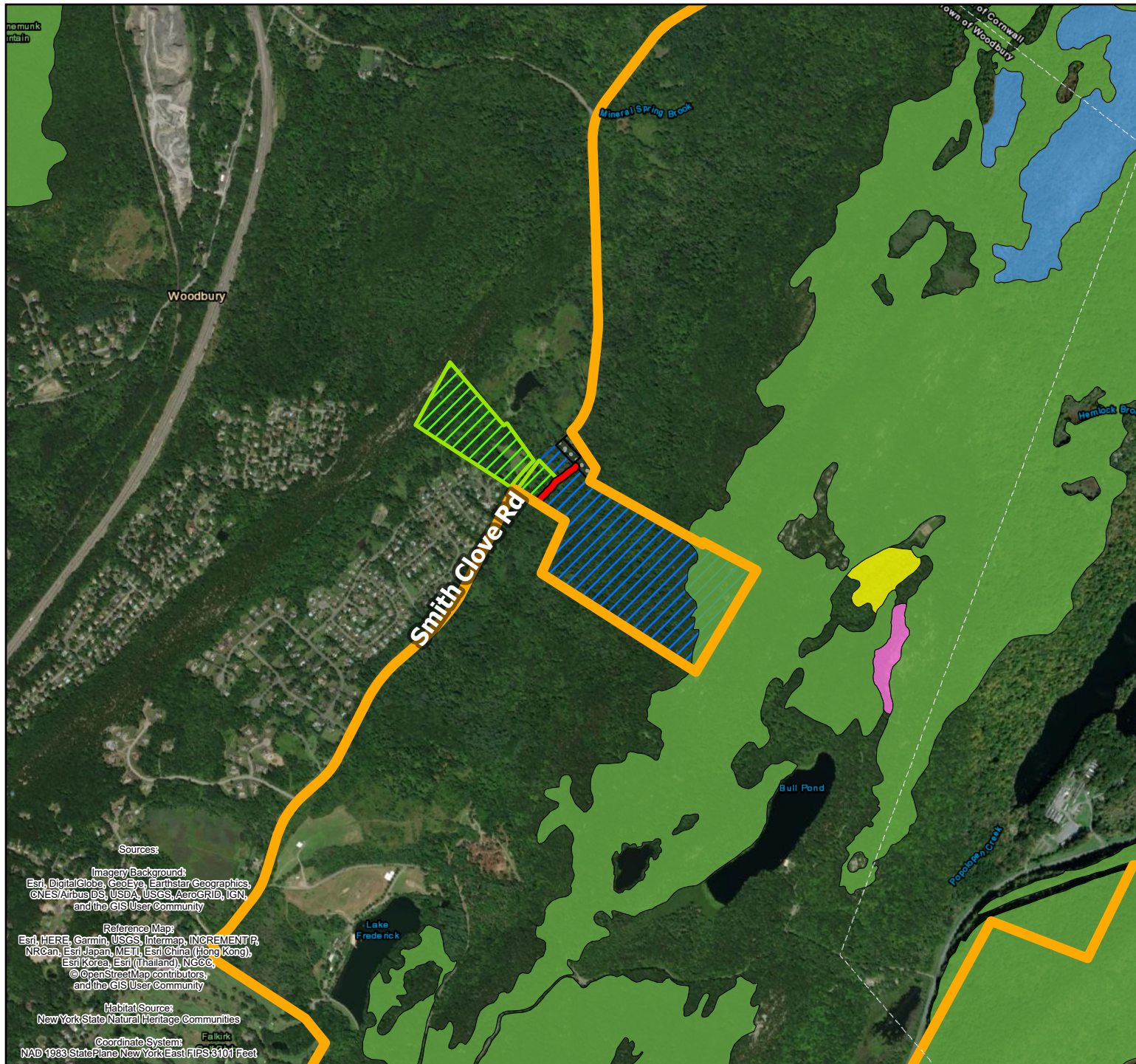
USFWS National Wetlands Inventory Mapper
and NYSDOE Environmental Resource Mapper

Coordinate System:
NAD 1983 StatePlane New York East FIPS 8101 Feet

**West Point
Audi Land
Environmental Assessment**

**Figure 7:
FEMA Flood Insurance
Rate Map**
Date: 8/24/2020

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NEW YORK DISTRICT

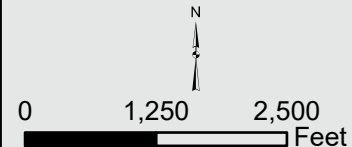


LEGEND

- Audi Sub-division Retention
- West Point Acquisition (From Tax ID: 207-3-2)
- Private Property
- West Point Property
- Stone Wall

NYS Natural Heritage Communities (2019) - Significant Natural Communities

- Acidic talus slope woodland
- Chestnut oak forest
- Hemlock-hardwood swamp
- Rocky summit grassland



West Point Audi Land Environmental Assessment

**Figure 8:
Terrestrial Habitats & Significant Communities Map**

Date: 8/24/2020



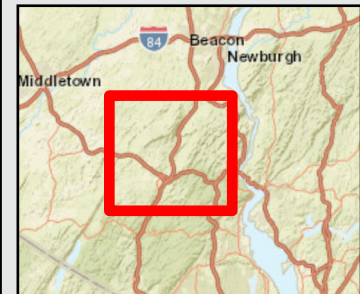
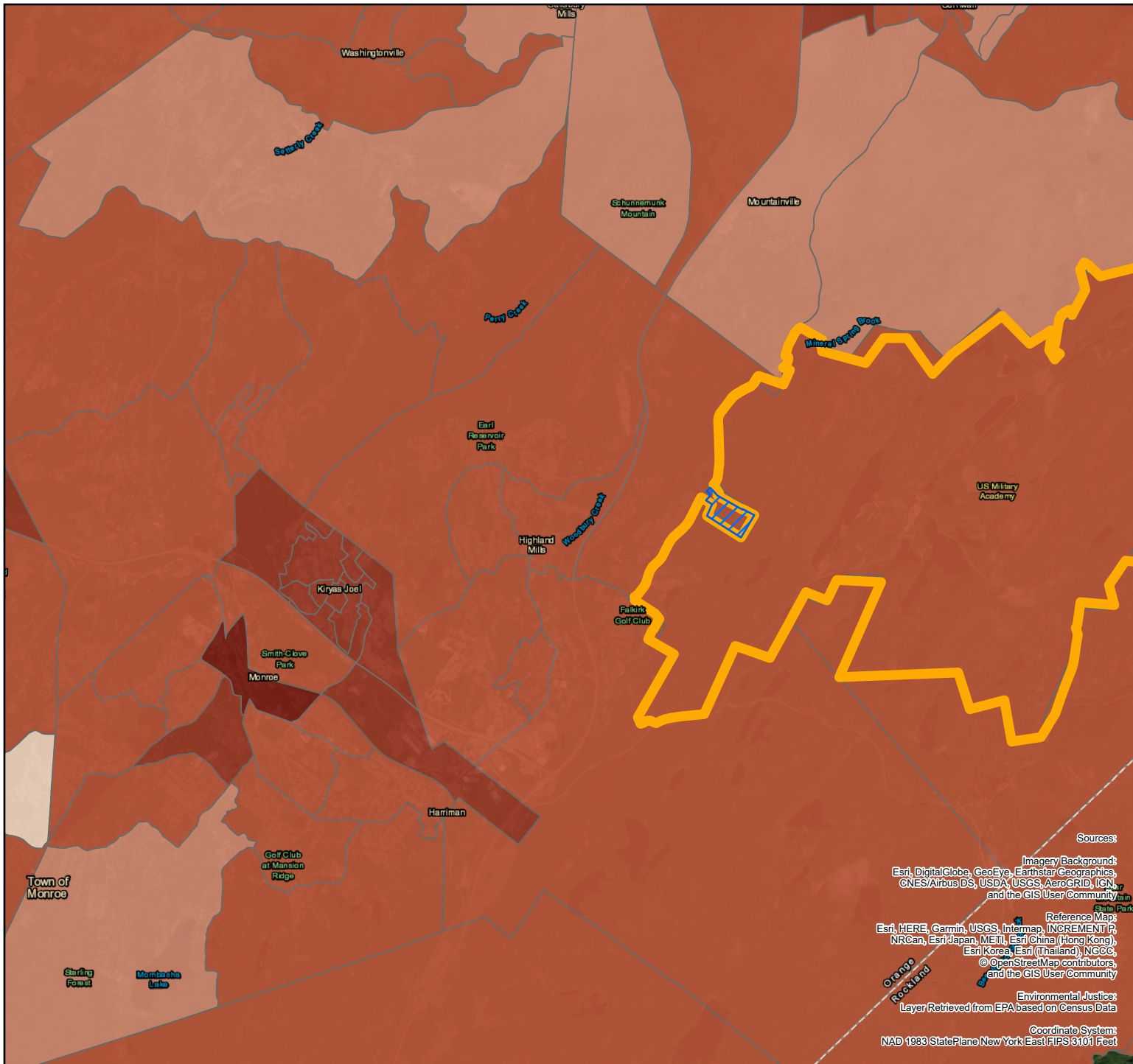
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NEW YORK DISTRICT

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AeroGRID, IGN,
and the GIS User Community









Reference Maps:
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Esri Korea, Esri (Thailand), NGCC,
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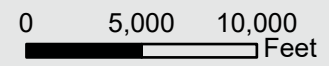
Habitat Source:
New York State Natural Heritage Communities

Coordinate System:
Falkirk
NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

-  West Point Acquisition (From Tax ID: 207-3-2)
- Percent of Minorities**
-  ≤ 5%
-  ≤ 10%
-  ≤ 20%
-  ≤ 33%
-  ≤ 50%
-  ≤ 84%
-  West Point Property



West Point Audi Land Environmental Assessment

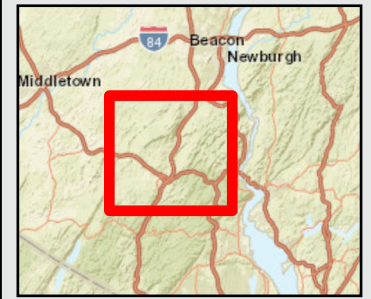
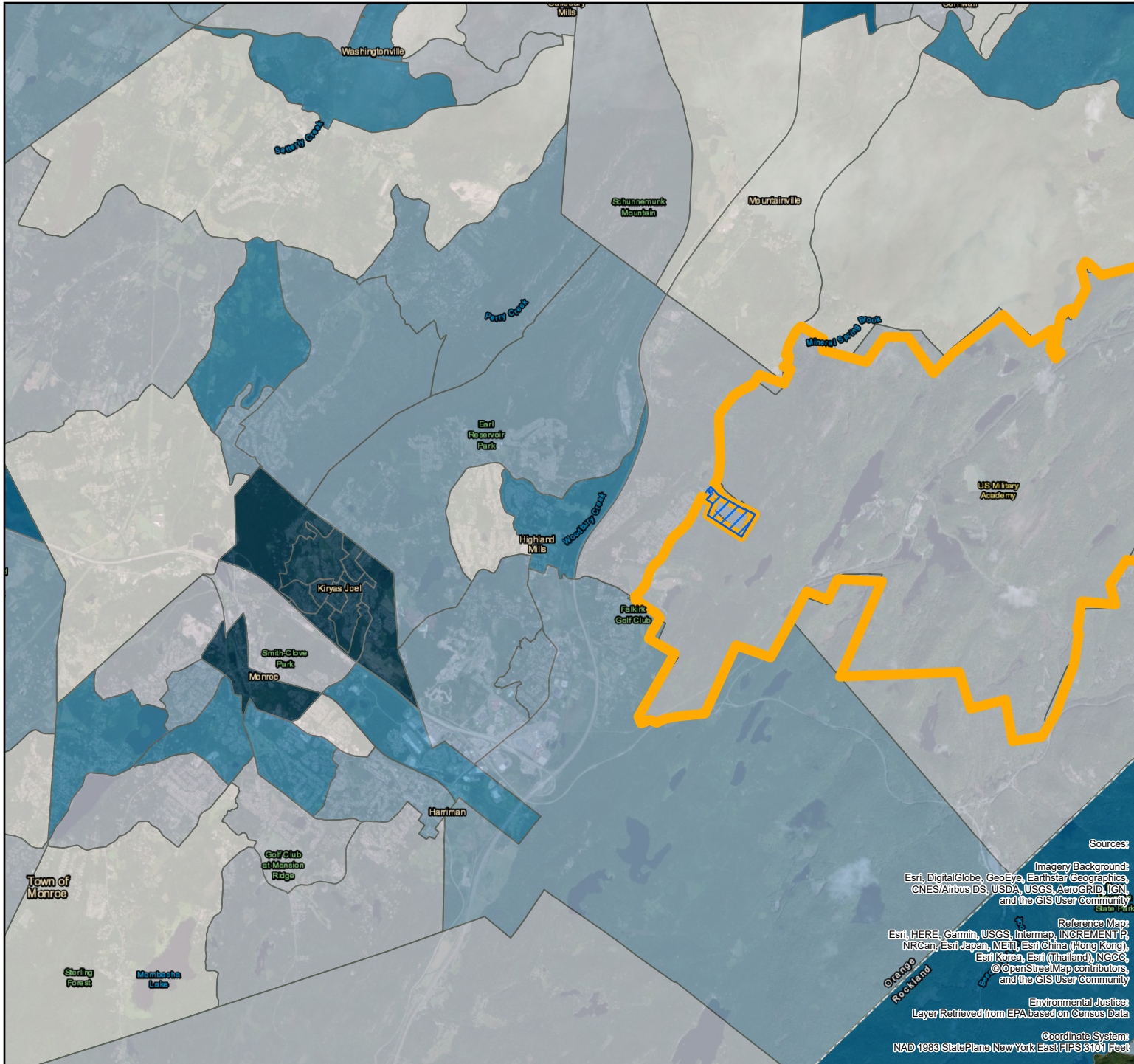
**Figure 9A:
Environmental Justice
Minority Populations Map**
Date: 8/24/2020

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community









Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

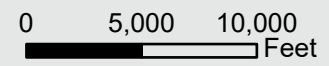
Environmental Justice:
Layer Retrieved from EPA based on Census Data

Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

-  West Point Acquisition (From Tax ID: 207-3-2)
-  West Point Property
- Percent of Low-Income**
-  ≤ 5%
-  ≤ 10%
-  ≤ 20%
-  ≤ 33%
-  ≤ 50%
-  ≤ 87%



West Point Audi Land Environmental Assessment

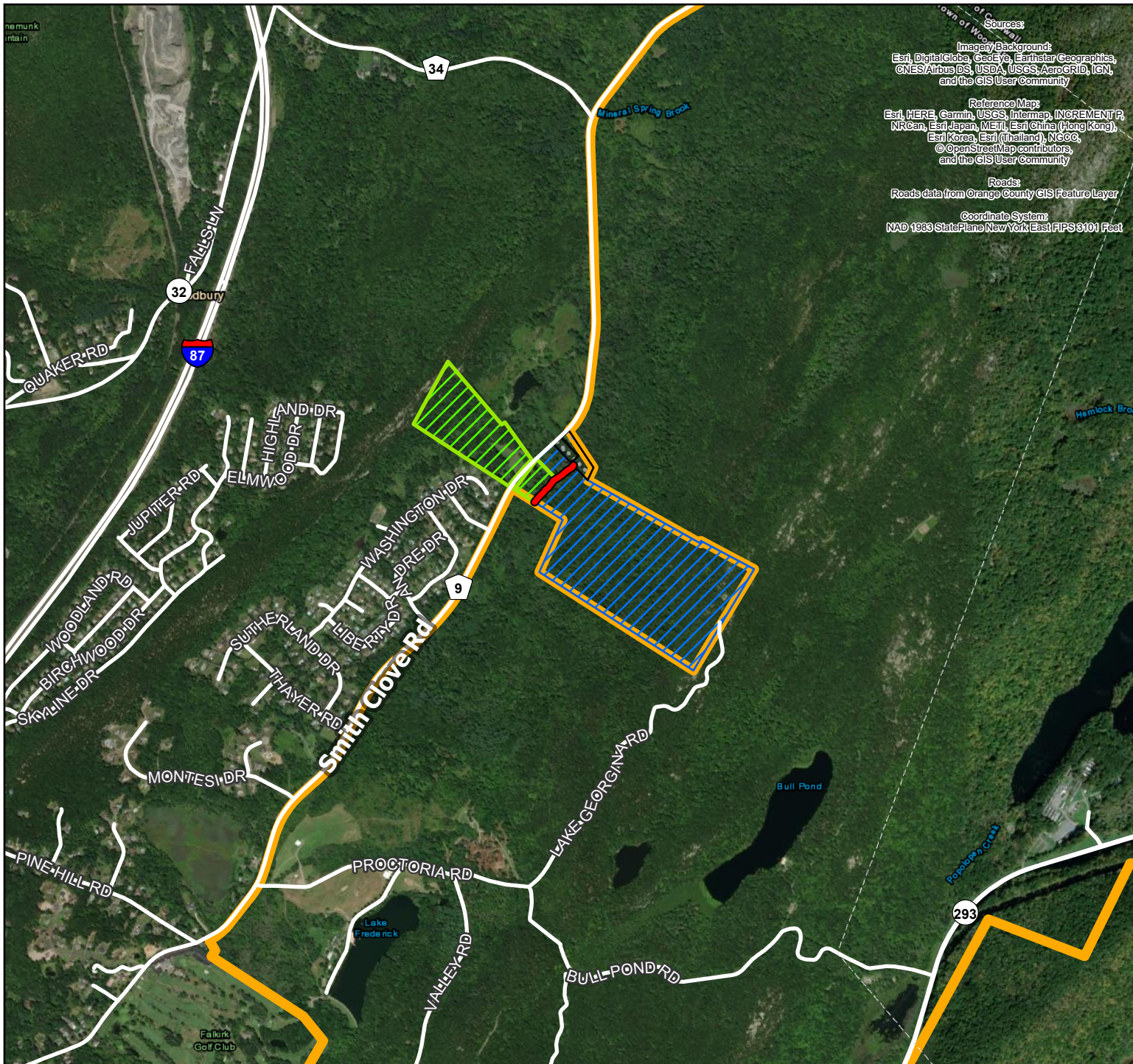
Figure 9B: Environmental Justice Low-Income Populations Map

Date: 8/24/2020



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, ©OpenStreetMap contributors, and the GIS User Community
Environmental Justice:
Layer Retrieved from EPA based on Census Data
Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet

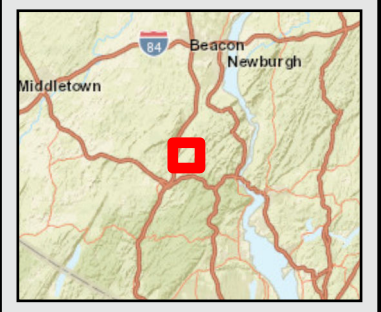


Sources:
 Imagery Background:
 Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
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 and the GIS User Community



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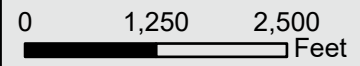
Roads:
 Roads data from Orange County GIS Feature Layer

Coordinate System:
 NAD 1983 StatePlane New York East FIPS 3101 Feet



LEGEND

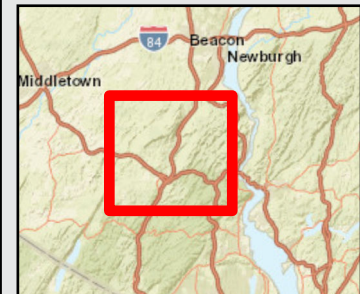
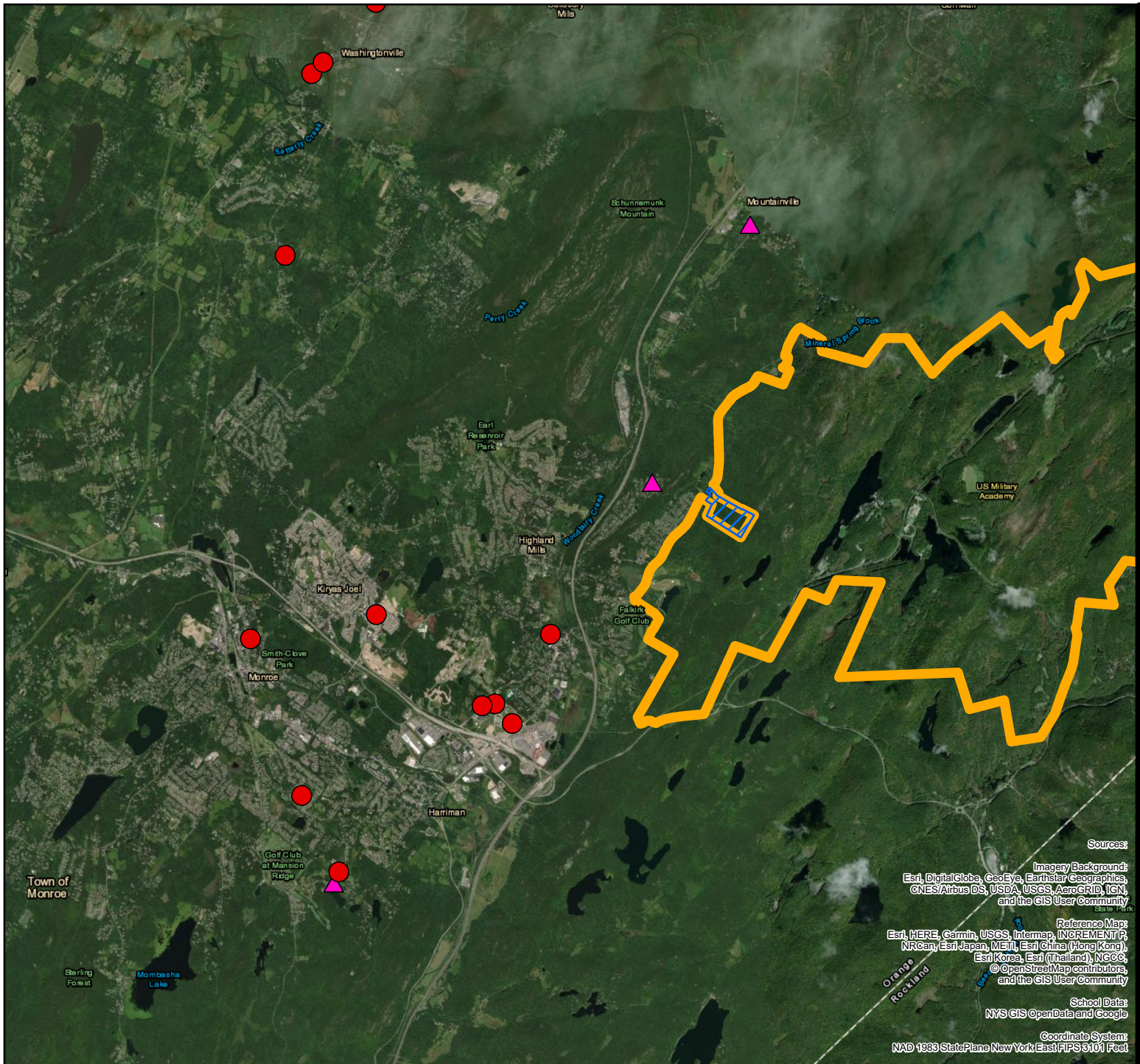
-  Audi Sub-division Retention
-  West Point Acquisition (From Tax ID: 207-3-2)
-  Private Property
-  Stone Wall
-  Roads
-  West Point Property







**West Point
 Audi Land
 Environmental Assessment**

**Figure 10:
 Road Location Map**

Date: 8/24/2020



LEGEND

-  Acquisition (From Tax ID: 207-3-2)
-  West Point Property
-  Public Schools (K-12)
-  Nearby Daycare Locations



**West Point
Audi Land
Environmental Assessment**

**Figure 11:
School and Daycare
Locations Map**

Date: 8/24/2020



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

Sources:
Imagery Background:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AeroGRID, IGN,
and the GIS User Community
Reference Map:
Esri, HERE, Garmin, USGS, Intermap, INCREMENT P,
NRCan, Esri Japan, MEIT, Esri China (Hong Kong),
Esri Korea, Esri (Thailand), NGCC,
© OpenStreetMap contributors,
and the GIS User Community
School Data:
NYS GIS OpenData and Google
Coordinate System:
NAD 1983 StatePlane New York East FIPS 3101 Feet

APPENDIX A
USFWS IPaC Report

IPaC Information for Planning and Consultation U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Orange County, New York



Local office

New York Ecological Services Field Office

☎ (607) 753-9334

📅 (607) 753-9699

3817 Luker Road

Cortland, NY 13045-9385

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species

¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

| NAME | STATUS |
|---|------------|
| Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/5949 | Endangered |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045 | Threatened |

Reptiles

| NAME | STATUS |
|--|------------|
| Bog Turtle <i>Clemmys muhlenbergii</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6962 | Threatened |

Flowering Plants

| NAME | STATUS |
|--|------------|
| Small Whorled Pogonia <i>Isotria medeoloides</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1890 | Threatened |

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act

¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle *Haliaeetus leucocephalus*

Breeds Sep 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

| | |
|--|-------------------------|
| Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399 | Breeds May 15 to Oct 10 |
| Black-capped Chickadee <i>Poecile atricapillus praticus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA | Breeds Apr 10 to Jul 31 |
| Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 20 to Jul 31 |
| Cerulean Warbler <i>Dendroica cerulea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974 | Breeds Apr 27 to Jul 20 |
| Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 1 to Jul 31 |
| Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. | Breeds May 10 to Aug 31 |
| Yellow-bellied Sapsucker <i>sphyrapicus varius</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8792 | Breeds May 10 to Jul 15 |

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

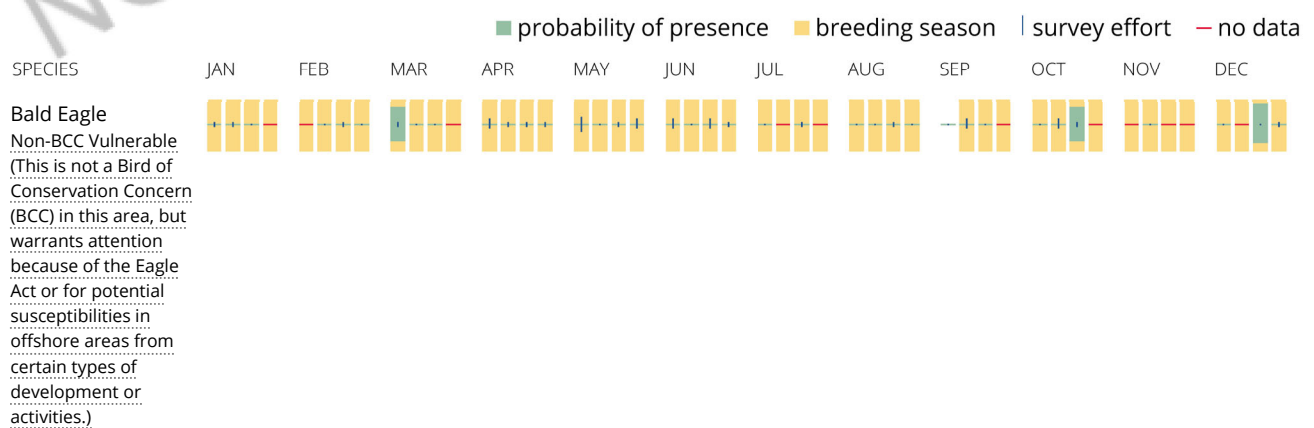
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

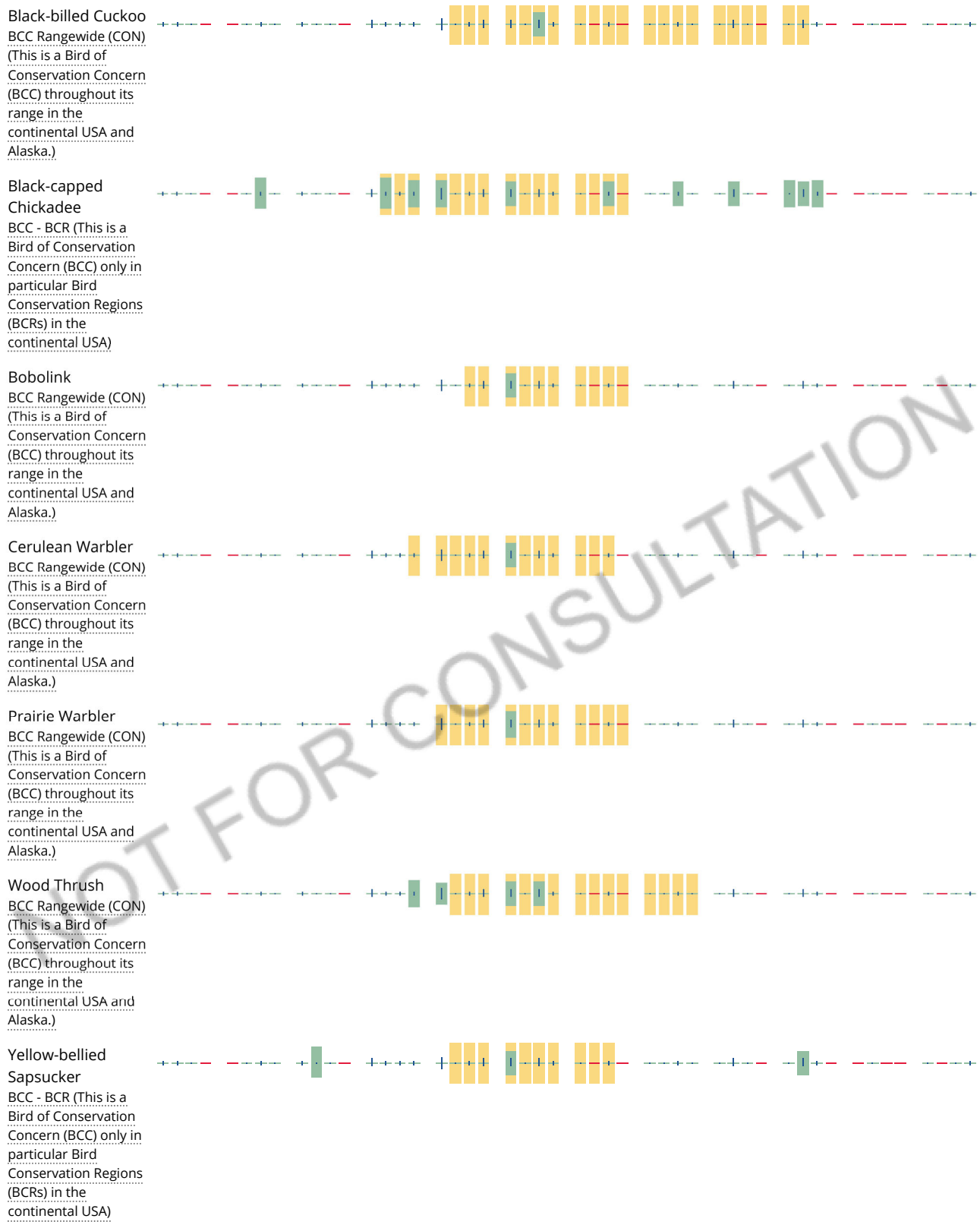
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding

their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

APPENDIX B

Audi Phase IA Cultural Resources Report

Phase IA Cultural Resources Survey of the Audi Parcel for United States
Military Academy, West Point, Orange County, New York

MIPR Number 11407152

Prepared By: Anna Jansson M.A., Project Archaeologist

United States Army Corps of Engineers
New York District
26 Federal Plaza, 17th Floor
New York, NY 10278

Prepared for:
Directorate of Public Works
United States Military Academy
Building 667A Ruger Road
West Point, New York 10996

April 2020

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Management Summary

This report presents the results of a Phase IA cultural resources literature review and sensitivity study of an 87.2 acre parcel of private property in Woodbury, NY that the United States Military Academy (USMA) wishes to purchase as a buffer from development near the military reservation. Historic documentation and maps research, a site reconnaissance, and a review of information available on the New York State Historic Preservation Office (SHPO) Cultural Resources Information System (CRIS) suggests that the area of potential effect (APE) has a high sensitivity for both Precontact and Historic resources. No structures were observed within the 87.2 acres during the site reconnaissance. Since no ground disturbing activities are proposed as part of the acquisition of the parcel, the undertaking is not expected to adversely affect cultural resources and no further work is recommended at this time. If in the future USMA plans to carry out ground disturbing activities on this parcel a Phase IB survey is recommended.

1.0 Introduction

This report presents a Phase IA-level survey that was prepared to gather information concerning the environmental and cultural setting for the area of the proposed undertaking by the United States Military Academy (USMA) and to evaluate the effect of the proposed undertaking on cultural resources. The undertaking is defined as the purchase of 87.2 acres of private land by the US Military Academy (Figure 1). The property to be purchased is located in Woodbury, NY and is owned by Robert Audi. This tract of land is referred to as the “Audi Property.” The original property subject to this transaction is 90.9 acres and contains a house and one outbuilding. USMA is planning to purchase only 87.2 acres of the parcel, not the 3.7 acres that contain the house and its immediate surroundings. The Area of Potential Effect (APE) is defined as the entire 87.2 acres to be purchased. The acquired property will be used as a buffer to the US Military Academy, and no ground disturbing activity is planned to occur at this time. Because of this, only a Phase IA level survey is required to address this Federal undertaking. The U.S. Army Corps of Engineers, New York District is preparing an Environmental Assessment on behalf of the US Military Academy in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et. seq.). This survey was conducted in compliance with NEPA, Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 300101 *et seq.*), Archaeological and Historic Preservation Act (54 U.S.C. 312501-213508: Preservation of Historical and Archeological Data); the Advisory Council on Historic Preservation Guidelines for the Protection of Cultural and Historic Properties (36 CFR Part 800); as well as Army Regulation (AR) 200-1: “Environmental Protection and Enhancement,” Chapter 6, “Cultural Resources.” This report presents the Project Overview, Environmental Context, Precontact and Historic Contexts, Historic Map Search, NY State Historic Preservation Office Data, and Recommendations for the proposed undertaking.

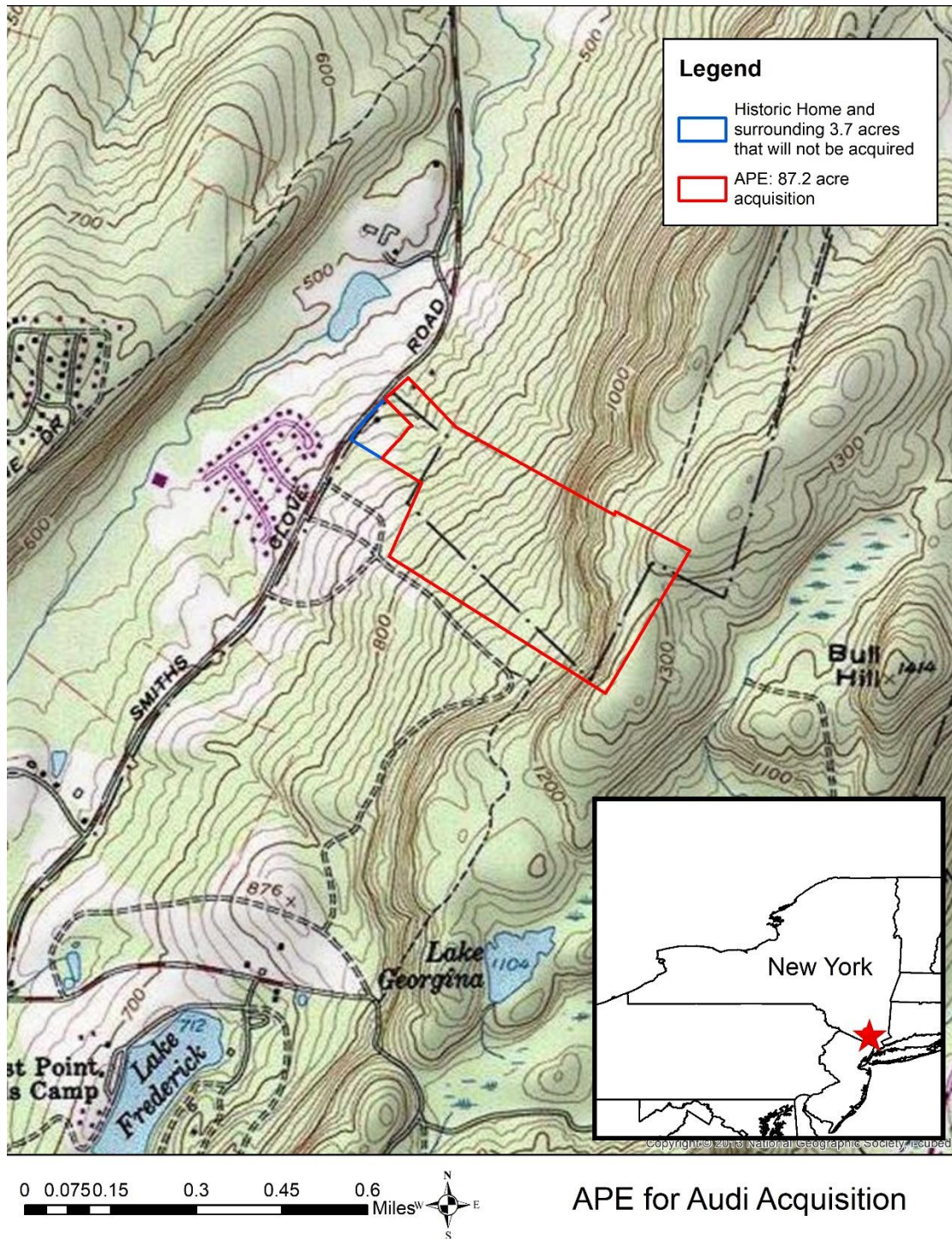


Figure 1. APE of Audi Property Acquisition.

3.0 Environmental Context

The U.S. Environmental Protection Agency (EPA) has developed a system to classify ecosystems within the United States called the USEPA Ecoregions. There are four levels of classification in this system, with Level I being the broadest, most general level, and Level IV

being the smallest scale, most site-specific level of classification. The USEPA Ecoregion Level III classification for the APE is the Northeastern Highlands. The EPA describes this area as:

“The Northeastern Highlands ecoregion covers much of the mountainous portions of the New England and New York. It is characterized by hills and mountains, extensive forest cover, nutrient-poor frigid and cryic soils (mostly spodosols), numerous glacial lakes, wetlands, bogs, and high-gradient coldwater streams. Forest vegetation is somewhat transitional between the boreal regions to the north in Canada and the broadleaf deciduous forests to the south. Typical forests types include northern hardwoods (maple-beech-birch), northern hardwood/spruce, and northeastern spruce-fir forests. The region is sparsely populated compared to adjacent regions; farm-to-forest conversion began in the mid-19th century and continues today. In spite of this trend, alluvial valleys, glacial lake basins, and areas of limestone-derived soils are still farmed for dairy products, forage crops, fruits, and vegetables. The timber industry, recreational homes, and associated logging and services sustain the forested regions economically, but they also create development pressure that threatens to change the character of the region. Many of the lakes and streams in the region are sensitive to acid deposition originating from industrial sources in the west and southwest.” (Bryce et al. 2010).

The Level IV classification is the Glaciated Reading Prong/Hudson Highlands, which the EPA describes as:

“The Glaciated Reading Prong/Hudson Highlands ecoregion forms a low portion of the Appalachian Mountains connecting the mid-Appalachians with the Berkshires and Green Mountains in New England. The Hudson Highlands are at the northern end of the Reading Prong, an extension of the Precambrian gneiss and schist that underlies New England. Resistant bedrock is often exposed, as it is where the Hudson River cuts through highland bedrock creating cliff faces on both sides of the river. Soils in this ecoregion are shallow, rocky, and highly acidic. As a result, the region is mostly forested with transition hardwoods, that is, Appalachian oak-hickory on drier sites and northern hardwoods and hemlock on north slopes and moist sites. Naturally acidic runoff plus acid deposition from upwind industrial sources put Highlands lakes at risk for future harm to aquatic life from acidification. The forested highlands provide a natural buffer zone and an outer boundary for the New York City megalopolis.” (Bryce et al. 2010).

3.1 Soils

A search for soil data on the United States Department of Agriculture Web Soil Survey Website was conducted on April 14, 2020 (Figure 2). The soil characteristics are presented in Table 1. In summary, the eastern side of the APE is very rocky with bedrock usually occurring 11 to 16 inches below the surface. The central portion of the APE belongs to the Swartswood and Mardin soil complexes which either contain an E horizon (which is an area of leaching that is usually white or light in color) or are composed of H horizons (which are horizons dominated by organic material that were saturated with water for a prolonged period of time, or were saturated but now are artificially drained). The western portion of the APE belongs to the Mardin soil complex, which also contains an E horizon.



Figure 2. Web Soil Survey search results for APE.

Table 1. USDA Web Soil Survey Data for APE.

| Percent of APE | Map Unit Symbol | Map Unit Name | Typical Soil Profile |
|----------------|-----------------|--|--|
| 0.1 % | MdB | Mardin gravelly silt loam, 3 to 8 percent slopes | Ap – 0-8 inches: gravelly silt loam Bw – 8-15 inches: gravelly silt loam E – 15-20 inches: gravelly silt loam Bx – 20-72 inches: gravelly silt loam |
| 3.4 % | MdC | Mardin gravelly silt loam, 8 to 15 percent slopes | Ap – 0-8 inches: gravelly silt loam Bw – 8-15 inches: gravelly silt loam E – 15-20 inches: gravelly silt loam Bx – 20-72 inches: gravelly silt loam |
| 6.0 % | MdD | Mardin gravelly silt loam, 15 to 25 percent slopes | Ap – 0-8 inches: gravelly silt loam Bw – 8-15 inches: gravelly silt loam E – 15-20 inches: gravelly silt loam Bx – 20-72 inches: gravelly silt loam |

| Percent of APE | Map Unit Symbol | Map Unit Name | Typical Soil Profile |
|-----------------------|------------------------|---|--|
| 15.1 % | ROD | Rock outcrop-Hollis Complex, 15 to 35 percent slopes | Oi – 0-2 inches: Slightly decomposed plant material A – 2-7 inches: gravelly fine sandy loam Bw – 7-16 inches: gravelly fine sandy loam 2R – 16-26 inches: bedrock |
| 18.3 % | ROF | Rock outcrop-Hollis Complex, very steep | Oa – 0-3 inches: highly decomposed plant material H1 – 3-8 inches: gravelly loam H2 – 8-11 inches: gravelly loam H3 – 11-22 inches: unweathered bedrock |
| 13.1 % | SXC | Swartswood and Mardin soils, sloping, very stony | Swartswood, very stony H1 – 0-3 inches: gravelly loam H2 – 3-31 inches: gravelly fine sandy loam H3 – 31-60 inches: gravelly fine sandy loam Mardin very stony: A – 0-4 inches: gravelly silt loam Bw – 4-15 inches: gravelly silt loam E – 15-20 inches: gravelly silt loam Bx – 20-72 inches: gravelly silt loam |
| 43.9 % | SXD | Swartswood and Mardin soils, moderately steep, very stony | Mardin very stony: A – 0-4 inches: gravelly silt loam Bw – 4-15 inches: gravelly silt loam E – 15-20 inches: gravelly silt loam Bx – 20-72 inches: gravelly silt loam Swartswood, very stony H1 – 0-2 inches: gravelly loam H2 – 2-28 inches: gravelly fine sandy loam H3 – 28-60 inches: gravelly fine sandy loam |

4.0 Precontact and Historic Contexts

4.1 Precontact Context

Archaeological investigations of the northeastern United States and southern Ontario, Canada, have found evidence of human occupation of the region beginning around 11,000 BP (Before Present). This timespan begins with small, highly mobile groups of Native Americans who entered the region near the end of the Wisconsin glaciation and ends with native populations living in large, permanent villages and practicing large-scale maize agriculture at the time of European contact. The time from the entrance of the first Native American groups into the

Northeast to contact with Europeans is broken into three periods: Paleoindian, Archaic, and Woodland.

4.1.1 Paleoindian

The Paleoindian period, as stated above, covers the first inhabitants of the Northeast who likely came from southern Ohio and Pennsylvania, which were inhabitable before New York and New England were ice free (Alexander Archaeological Consultants 2010a). No Paleoindian sites are located within USMA (Ibid.).

4.1.2 Archaic

The onset of the early Holocene climate epoch brought on cultural changes that lead to the Archaic Period. The Archaic Period in New York is defined as a culture that had not yet developed ceramic technology and was dependent on hunting, gathering and fishing (Ibid.). The Archaic is divided into four subperiods: Early, Middle, Late, and Terminal. Early Archaic sites are rare and poorly understood in the Hudson Valley. The Middle Archaic is characterized by a change in subsistence strategies, showing an increased reliance on fish, waterfowl, small mammals, and reptiles, as well as moose and white-tailed deer. More woodworking, milling, and ground stone tools than the preceding periods indicates a reliance on a wider range of resources and a technological change in stone tools. The Late Archaic brought heavy grinding implements like mortars and pestles which brought new ways of preparing seeds, nuts, dried berries, and meat. Some plants were cultivated during this time. The Terminal Archaic is a transitional subperiod that is identified by Susquehanna Broadspire projectile points, steatite (soapstone) bowls or pots, Marcey Creek and Ware Plain ceramics with steatite temper.

4.1.3 Woodland

The Woodland Period is divided into three subperiods: Early, Middle, and Late. In general, the Woodland Period is defined by pottery manufacture, deliberate cultivation of native plants, and burial of deceased people under funerary mounds.

The Early Woodland Period begins with the use of Vinette 1 pottery with crushed rock temper, and cord marked exterior and interior surfaces. The Middle Woodland is marked by the introduction of classic rocker or dentate stamped or impressed pottery styles (Vinette 2). Middle Woodland sites are generally larger than earlier sites with substantial middens and indications of structures. In the Northeast, the Middle Woodland blends into the Late Woodland, and an arbitrary date of 1000 AD separates the two subperiods. During the Late Woodland, large villages formed, which towards the end of this period were surrounded by palisades, indicating hostility between groups.

4.2 Historic Context

The proto-historic period (~1500 to 1609 AD) is marked by the initial contact between Native American groups and Europeans and the absence of written records. At the time of contact, the Native American groups who lived in the Hudson Valley were the Lenape (or Delaware) people. There are two groups of Lenape, the Munsee and the Unami. The Munsee settled in the area that is now northern New Jersey and southern New York. The Dutch traded with Lenape, but violence broke out between them over land issues. A peace treaty was signed in 1645, but by the

early 1700s, several Lenape groups moved west to Pennsylvania and eastern Ohio to escape depredations by the Dutch and other Native American groups (Ibid.). There are no definite proto-historic sites on USMA (Ibid.).

The historic period in New York State begins in 1609 with Henry Hudson's trip up the Hudson River while he was seeking a short cut to the Spice Island and India. Trading vessels frequented the Hudson River from 1610 to 1624 seeking furs and tobacco, at which time the first Dutch settlers arrived in New York. In 1685 the colonial governor Thomas Dongan purchased the land encompassing West Point from the local Native Americans (Budke 1975:62-65). The land was subdivided between 1702 and 1775, but was eventually sold back to the United States government in 1790 (Alexander Archaeological Consultants 2010a).

West Point was noted as having great strategic advantage during the Revolutionary War. The sharp S-curve at the point is the most difficult navigational task on the river. Defenses started being constructed in 1775 and continued throughout the war years (ibid.). In 1783 West Point was identified by Congress as a location for a Military Academy. In 1802 the Military Academy was established.

4.3 Historic Map Search

Tax records show that the house at 520 Smith Clove Road was built in 1840. The house is visible in many historic maps of the area. Figure 3 shows the project area in 1829 in David H. Burr's Map of the Counties of Orange and Rockland. This map was created before the house was built, and no other developments are shown within its vicinity. There is a land patent to T. Smith to the N/NE of the APE. A church is shown to the NW of the APE and the town (then called Monroe) to the SW.

David Burr made an update to his map in 1840, the year the house was built (Figure 4). The map must have been drawn before the house was built though, because the house is not shown on this map. In this map, a furnace is marked in Highland Mills. Rural residents of Orange County were usually self-sufficient farmers living on homesteads. Dairy farming was particularly common in Orange County. Milk was mostly sold in the local market (until 1847 with the construction of the Erie Railroad), and the surplus was turned into butter and cheese that could be exported easier (Alexander Archaeological Consultants 2010a). The introduction of the railroad changed the milk industry and allowed Orange County milk to be sold in New York City.

In addition to the dairy industry, tourism also flourished in Orange County in the early 1800s. As early as 1830 New York City residents were vacationing in Orange County. Fatal disease epidemics were common in New York City during this time, and doctors were recommending vacationing in the Hudson Highlands to breathe fresh air that was not available in the city (Alexander Archaeological Consultants 2010a). Boarding houses, hotels, resorts, and

campgrounds were built to accommodate the tourists, but it was also common for private residences to open their doors to visitors.

James C. Sidney's 1851 Map of Orange County New York: From Actual Surveys shows the house, but does not indicate the owners name, as it does for several of the other houses in the area (Figure 5). This map also shows the addition of a new road in front of the house.

The Beers Atlas Orange County 1875 shows the project area, but is too large scale to show the house (Figure 6). In 1946 the USGS Popolopen Lake Quadrangle topographic map shows two buildings near each other where the house is located and a short road that lead from Smith Clove Road, in between the two buildings, and then back to Smith Clove Road (Figure 7). The two buildings and the road appear again in the 1947 USGS Popolopen Lake Quad as well. The second building and the road disappear in all subsequent topo maps 1957, 1957 (2nd version), and 1994. It is hard to tell at this scale, but it appears that the second building was located in front of the house, essentially touching Smith Clove Road. The author's hypothesis is that this building may have been a garage. For the house itself, the most likely explanations are that it was a farm house, or it was a hotel/boarding house for vacationers from New York City, or it was a private vacation home owned by a New York City resident. The house is most likely the second or third option, since no other ancillary farming buildings/structures (barns, silos, etc.) are shown on any of the maps.



Figure 3. Map of the counties of Orange and Rockland. By David H. Burr, 1829. APE shown as yellow polygon.

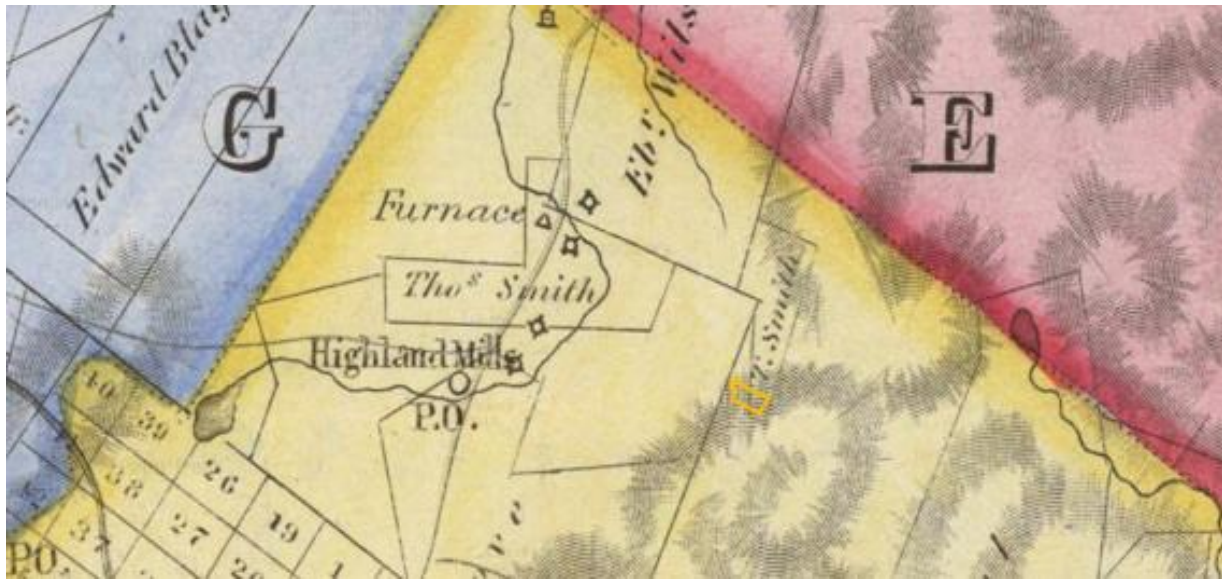


Figure 4. Map of the counties of Orange and Rockland. By David H. Burr, 1840. APE shown as yellow polygon.

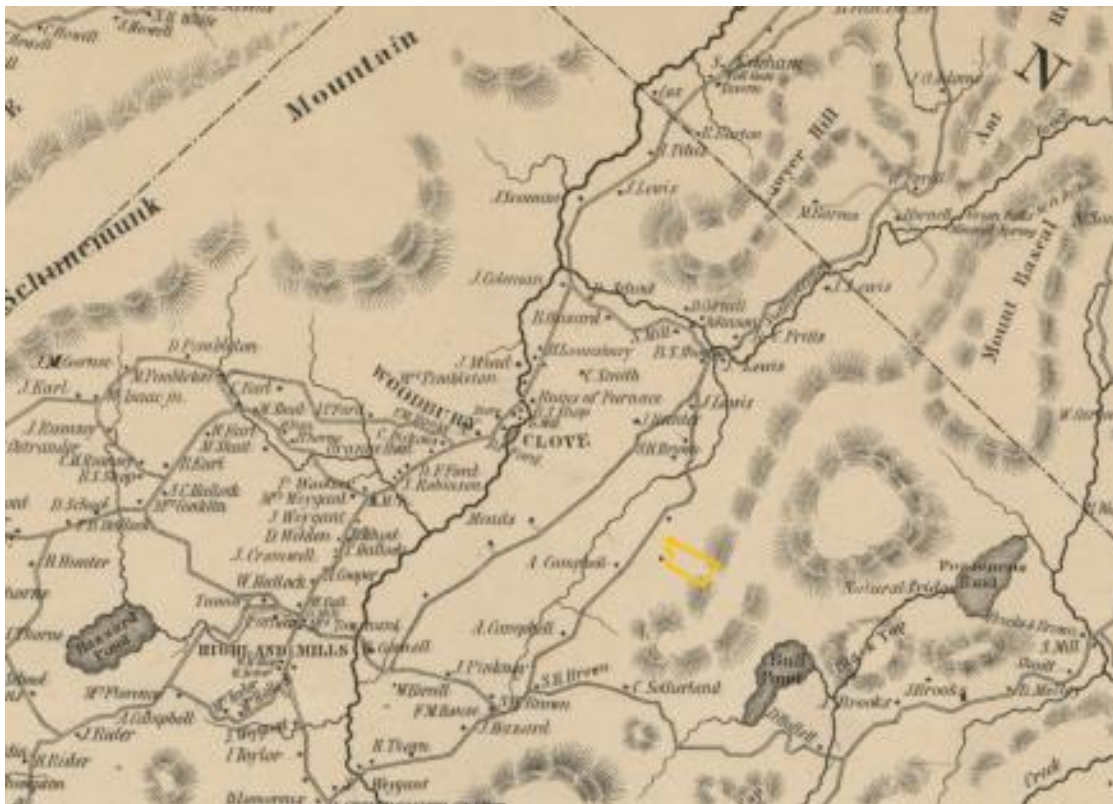


Figure 5. Map of Orange County New York: from actual surveys by James C. Sidney 1851.

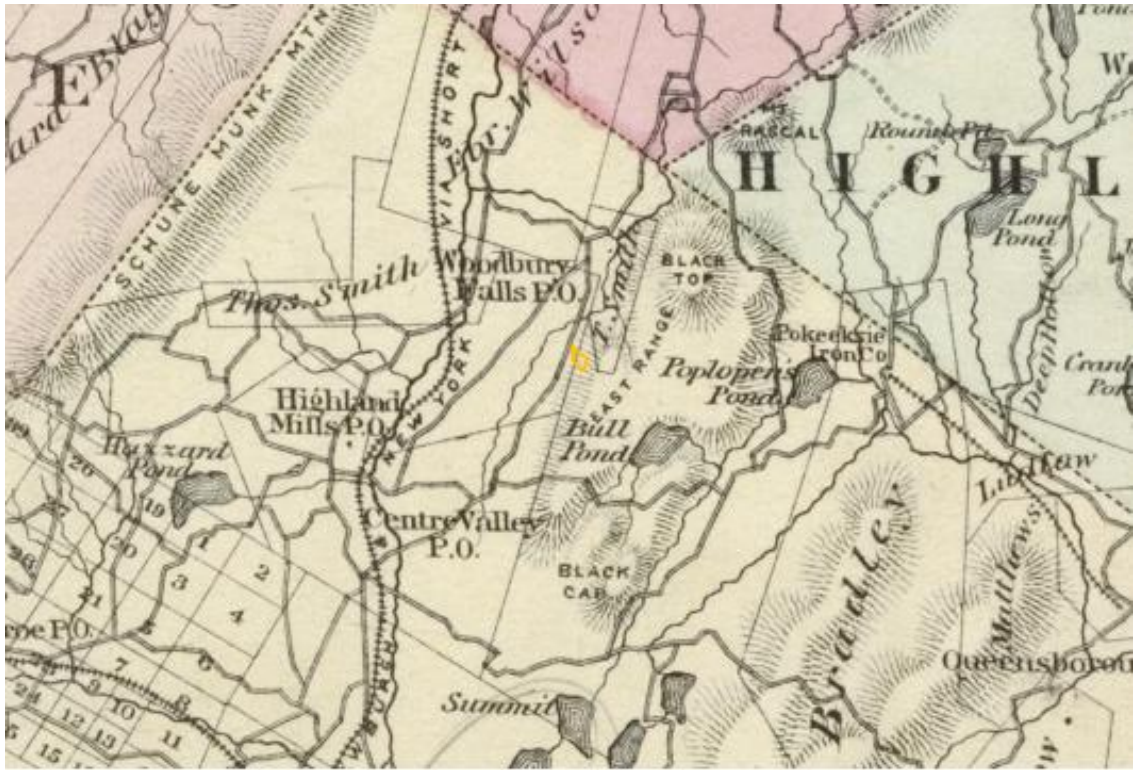


Figure 6. Beers Atlas Orange County 1875. "County Atlas of Orange, New York".

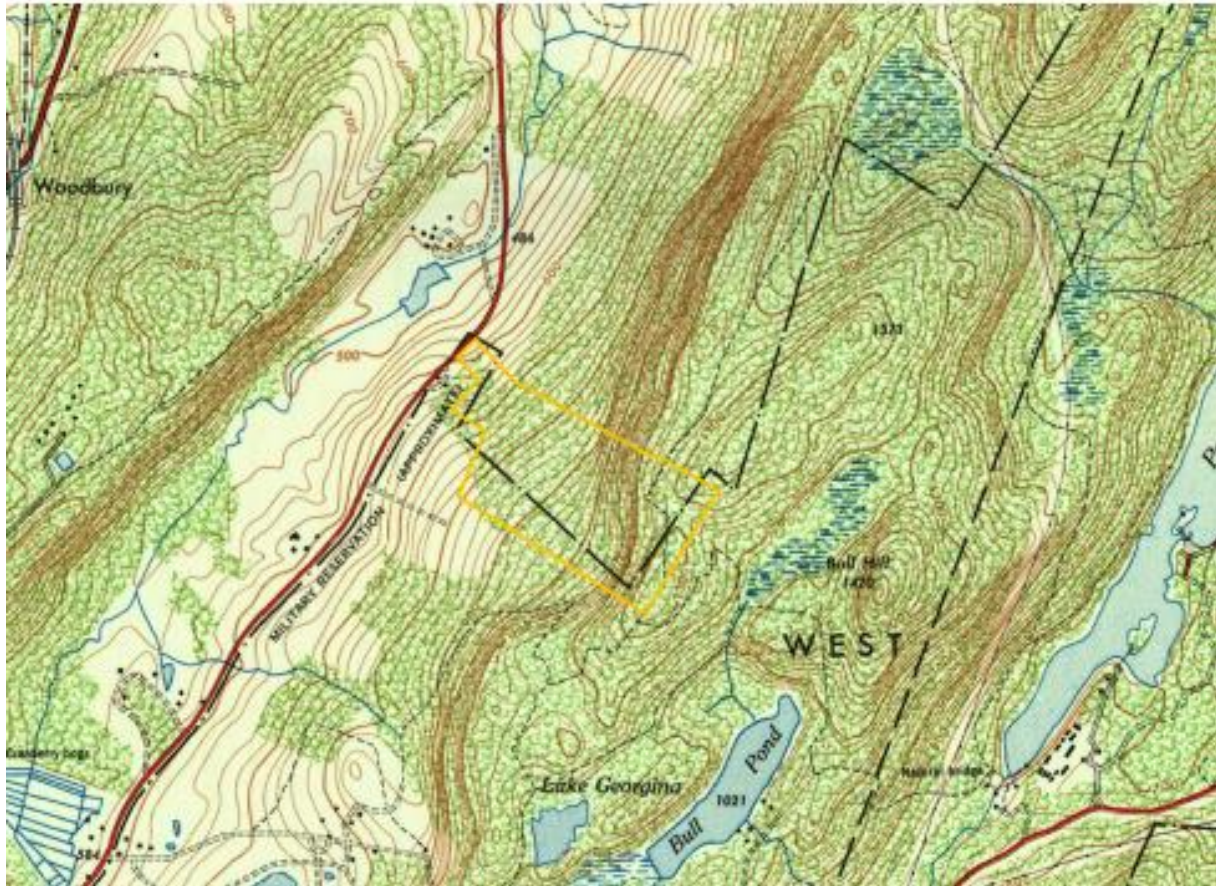


Figure 7. 1946 USGS Popolopen Lake Quad.

5.0 New York State Historic Preservation Office Data

A review of the online New York State Cultural Resources Information System (CRIS) was carried out on March 31, 2020. Within one mile of the APE there are 23 archaeological USNs (representing 19 archaeological sites), four historic buildings, 15 archaeological surveys, one building survey, and one building district. These results are outlined below.

5.1 Archaeological Sites

Of the 23 archaeological USNs within one mile of the APE (Table 2) only 19 archaeological sites are original because four of the USNs are duplicates of existing sites. Two sites have been evaluated for the National Register of Historic Places (NRHP) and one (Woodbury Falls Furnace Ruins [USN# 7120.000209]), was found to be eligible, and the other one was found to be not eligible (2007 ACC TAL Field Site J Precontact and Historic Site [USN 7120.000283]). The other 17 archaeological sites have not been evaluated for the NRHP. Of the 19 archaeological sites within one mile of the APE, seven are multicomponent sites that contain both a Precontact and a Historic component, nine are Precontact sites, and three are Historic sites.

5.1.1 National Register Eligible Site

There is one NR eligible site within one mile of the APE, USN 7120.000209: Woodbury Falls Furnace Ruins (historic). This site consists of the remains of one of the three furnaces that made

pig iron for West Point. The Woodbury Furnace was built in 1832 and was in operation from 1833 to the early 1840s. This furnace was the smallest and shortest lived of the three. The Woodbury Furnace was determined to be eligible to the NRHP under criteria A and D in 2014 by the NYSHPO.

5.1.2 Not Eligible to the NR Site

The one site that has been evaluated as not eligible for the NRHP is USN 7120.000283: 2007 ACC TAL Field Site J Precontact and Historic Site. 11 shovel test pits were dug inside this site and seven artifacts were found: 6 Historic era artifacts including: one undecorated yellowware fragment, one fragment of aqua glass, and four fragments of colorless mold-blown glass; and one Precontact artifact: a secondary flake.

5.1.3 Sites Unevaluated for the NR within One Mile of the APE

Within one mile of the APE there are 17 sites (21 archaeological USNs) that are unevaluated for the NR. A brief overview of each one is provided below and in Table 2.

- USN 7120.000241: HISTORIC SITE 99-32901-17L-01 (Historic). This site consists of a rock wall and a historic bottle dump with artifact scatter. The bottle dump/artifact scatter contained 34 artifacts, primarily glass vessel fragments, but also a few ceramic fragments and a jar lid liner. This site was recorded by Gray and Pape as part of their investigations for their 2000 “Report on Cultural Resources Analysis of Proposed Regeneration Station 17L, Woodbury, Orange County, New York.”
- USN 7120.000242: PCI-RR 22 HISTORIC SITE 1 (Historic and Precontact). 43 shovel tests were dug within this site. The site consists of two features that were both earthen, rectangular depressions that were partially-lined with unmortared field stones. The historic era artifacts consisted of a metal object (possible spike), two whiteware fragments, and a metal fragment. The Precontact artifacts consists of one secondary reduction flake, one tertiary reduction flake, eight flake fragments, one shatter, and one piece of charcoal. This site was recorded by Panamerican Consultants as part of their 2002 “Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York.”
- USN 7120.000243: PCI-RR 22 HISTORIC SITE 2 (Historic). 27 shovel tests were dug within this site. The site consists of two features, both earthen, rectangular depressions that were partially-lined with field stones, and historic artifacts including: 2 whiteware fragments and, 2 pearlware fragments. This site was recorded by Panamerican Consultants as part of their 2002 “Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York.”
- USN 7120.000244: PCI-RR 22 HISTORIC SITE 3 (Historic and Precontact). 26 shovel tests were dug in this site. This site consisted of three non-contiguous stone walls consisting of large, unmortared field stones. The artifacts consisted of 32 fragments of plain and transfer-printed whiteware, 5 fragments of earthenware, seven fragments of pearlware, 3 fragments of stoneware, five brick fragments, one clay pipe fragment, 12

clear glass fragments, two olive curved glass fragments, four flat glass fragments, and one green glass fragment, 6 pieces of oyster shell, 2 bullet shells, one small spike, and two metal fragments. There was one Precontact artifact, which was a biface made of mottled dark brown and pale brown chert. This site was recorded by Panamerican Consultants as part of their 2002 “Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York.”

- USN 7120.000245: PCI-RR 22 PREHISTORIC LITHIC SCATTER (Precontact). 11 shovel tests were dug in this site. Four chert flakes and one chert core fragment. This site was recorded by Panamerican Consultants as part of their 2002 “Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York.”
- USN 7120.000252: Range Road 22 Historic Foundations (Historic and Precontact). This is the same as USN 7120.000242: PCI-RR 22 HISTORIC SITE 1.
- USN 7120.000253: Range Road 22 rock shelter (Precontact). This USN is a rock overhang that may have been used by people in the past. No artifacts were identified around the feature, and no shovel tests were dug in its immediate vicinity. This site was recorded by Panamerican Consultants as part of their 2002 “Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York.”
- USN 7120.000254: Range Road 22 Historic Foundation. Same as USN 7120.000243: PCI-RR 22 HISTORIC SITE 2.
- 7120.000255: Range Road Foundations. Same as USN 7120.000244: PCI-RR 22 HISTORIC SITE 3 (Historic and Precontact).
- 7120.000256: Range Road 22 lithic scatter. Same as USN 7120.000245: PCI-RR 22 PREHISTORIC LITHIC SCATTER (Precontact).
- 7120.000257: AAC-WP-P3 Site (Precontact). Two shovel test pits were dug in this site. The site consists of 43 lithic flakes (six primary flakes, 33 biface thinning flakes, and 4 pieces of shatter) associated with a rock shelter. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2004 “Phase I Cultural Resources Survey of Four Parcels at the United States Military Academy, West Point, Orange County, New York.”
- 7120.000282: 2007 ACC TAL Field Site I Precontact and Historic Site (Historic and Precontact). 34 shovel tests were dug in this site. This site contains two historic artifacts (one fragment of creamware and one fragment of earthenware), and 15 Precontact artifacts (1 primary flake, 5 secondary flakes, 6 tertiary flakes, and 3 pieces of shatter). This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000284: 2007 ACC TAL Field Site O Precontact and Historic Site (Historic and Precontact). Forty-six shovel tests were dug in this site. This site contains a historic stone house foundation and 261 artifacts (259 of which are historic and 2 are Precontact). The historic artifacts consisted of 1 fragment of creamware, 3 fragments of pearlware, 58

fragments of decorated and undecorated whiteware, 1 fragment of porcelain, 1 fragment of Rockinghamware, 1 fragment of yellowware, 2 fragments of hotelware, 97 fragments of glass (colorless machine-made, green machine-made, olive green, aqua and amethyst), fragment of press-molded tableware, lamp glass, fence staple, horseshoe, brick fragments, window glass, wrought nail, cut nails, wire nails, rebar fragment, three porcelain buttons, two clay pipe bowl fragments, and unidentified faunal bones and shells. The Precontact artifacts consisted of one tertiary flake and one shatter. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”

- 7120.000285: 2007 ACC TAL Field Site P Precontact Site (Precontact). Fourteen shovel test pits were dug in this site. This site contains six lithic flakes (two secondary flakes and four tertiary flakes). This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000286: 2007 ACC TAL Field Site Q Precontact and Historic Site (Precontact and historic). Forty-one shovel tests were dug in this site. There are 18 artifacts; 6 of which are historic. These historic artifacts are one fragment of salt glazed stoneware and five unidentifiable iron pieces. The Precontact artifacts include six secondary flakes, four tertiary flakes, one piece of shatter, and one utilized flake. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000287: 2007 ACC TAL Field Site R Precontact Site (Precontact). Twelve shovel test pits were dug in this site. This site has four artifacts: one secondary flake and three pieces of shatter. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000288: 2007 AAC TAL Field Site S Precontact Site (Precontact). Nineteen shovel test pits were dug within this site. There are five artifacts in this site, one primary flake, three secondary flakes, and one tertiary flake. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000289: 2007 AAC TAL Field Site T/U/V/X Precontact Site (Precontact). Sixty-five shovel tests were dug in this site. This site has 13 artifacts: three secondary flakes, four tertiary flakes, five pieces of shatter, and one biface fragment. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000290: 2007 AAC TAL Field Site Z Precontact Site (Precontact). Nine shovel test pits were dug in this site. The only artifact recovered was one uniface chopper. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2010 “Phase

I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”

- 7120.000293: USMA-42, Brookside Farm, Mineral Springs, Field Site B, Historic and Precontact Site. This site was first recorded in 2005 by Alexander Archaeological Consultants, which they then updated and expanded in 2010. At the initial recording in 2005, 100 shovel test pits were dug in this site. This site is a historic farmhouse complex with a stone farmhouse foundation, rockwalls, a potential silo, and has both a large Historic artifact scatter and a smaller Precontact artifact scatter. The historic artifact scatter has 336 artifacts including ceramics, glass, and machine cut and wire nails. The Precontact artifact scatter contains 19 pieces of lithic debitage, one biface fragment, and four pieces of fire cracked rock. In 2010 there were two updates to this site. They were initially recorded as “Field Site L” and “Field Site M” and then added as updates to the Brookside Farm Site. At “Field Site L”, 20 additional shovel test pits were dug, and an additional 35 artifacts recorded. These artifacts were whiteware, hotelware, bottle glass, a metal bolt, fragments of a porcelain fixture, window glass, machine cut nails, an unidentified bivalve fragment, and one tertiary flake. At “Field Site M” 107 shovel tests were dug. 159 artifacts were recorded, 54 of which were historic (predominantly window glass) and 105 were Precontact (mostly flakes with two cores, one utilized flake, 1 chopper, and three preforms). This site was recorded by Alexander Archaeological Consultants, Inc. first as part of their 2005 “Phase I Cultural Resources Survey for Five Tasks, The United States Military Academy, West Point, Orange County, New York” and then updated for their 2010 “Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York.”
- 7120.000294: USMA ACC Field Site D Precontact Site (Precontact). Thirty-six shovel test pits were dug in this site. This site contains four biface thinning flakes and two pieces of debitage. This site was recorded by Alexander Archaeological Consultants, Inc. as part of their 2005 “Phase I Cultural Resources Survey for Five Tasks, The United States Military Academy, West Point, Orange County, New York.”

Table 2. Archaeology USNs within one mile of the APE.

| Archaeological USN | Site Name | Report Reference | NR Eligibility | Notes | Description |
|--------------------|-------------------------------|--------------------|----------------|-------|--|
| 7120.000209 | Woodbury Falls Furnace Ruins | No report | Eligible | | Structural remains of pig iron furnace |
| 7120.000241 | HISTORIC SITE 99-32901-17L-01 | Gray and Pape 2000 | Unevaluated | | Historic rock wall, bottle dump, and artifact scatter (N=34) |

| Archaeological USN | Site Name | Report Reference | NR Eligibility | Notes | Description |
|---------------------------|--------------------------------------|------------------------------|-----------------------|-------------------------------|---|
| 7120.000242 | PCI-RR 22 HISTORIC SITE 1 | Panamerican Consultants 2002 | Unevaluated | | Two historic depressions and historic (N=4) and Precontact (N=11) artifact scatter |
| 7120.000243 | PCI-RR 22 HISTORIC SITE 2 | Panamerican Consultants 2002 | Unevaluated | | Two historic depressions with historic artifact scatter (N=4) |
| 7120.000244 | PCI-RR 22 HISTORIC SITE 3 | Panamerican Consultants 2002 | Unevaluated | | Historic rock walls, historic artifact scatter (N=83) and one Precontact artifact (N=1) |
| 7120.000245 | PCI-RR 22 PREHISTORIC LITHIC SCATTER | Panamerican Consultants 2002 | Unevaluated | | Precontact lithic scatter (n=5) |
| 7120.000252 | Range Road 22 Historic Foundations | Panamerican Consultants 2002 | Unevaluated | Duplicate of USN 7120.000 242 | |
| 7120.000253 | Range Road 22 rock shelter | Panamerican Consultants 2002 | Unevaluated | | Rock shelter potentially used in Precontact times, No artifacts |
| 7120.000254 | Range Road 22 Historic Foundation | Panamerican Consultants 2002 | Unevaluated | Duplicate of USN 7120.000 243 | |
| 7120.000255 | Range Road Foundations | Panamerican Consultants 2002 | Unevaluated | Duplicate of USN 7120.000 244 | |
| 7120.000256 | Range Road 22 lithic scatter | Panamerican Consultants 2002 | Unevaluated | Duplicate of USN 7120.000 245 | |

| Archaeological USN | Site Name | Report Reference | NR Eligibility | Notes | Description |
|---------------------------|--|---|-----------------------|--------------|---|
| 7120.000257 | AAC-WP-P3 Site (Precontact) | Alexander Archaeological Consultants 2004 | Unevaluated | | Rock shelter with Precontact lithic scatter (N=43) |
| 7120.000282 | 2007 ACC TAL Field Site I Precontact and Historic Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact (N=15) and Historic (N=2) Artifact scatter |
| 7120.000283 | 2007 ACC TAL Field Site J Precontact and Historic Site | Alexander Archaeological Consultants 2010 | Not Eligible | | Precontact (N=1) and Historic (N=6) artifact scatter |
| 7120.000284 | 2007 ACC TAL Field Site O Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Historic stone house foundation, historic artifact scatter (N=259), and Precontact artifact scatter (N=2) |
| 7120.000285 | 2007 ACC TAL Field Site P Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact lithic scatter (N=6) |
| 7120.000286 | 2007 ACC TAL Field Site Q Precontact and Historic Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Historic (N=6) and Precontact (N=12) artifact scatter |
| 7120.000287 | 2007 ACC TAL Field Site R Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact lithic scatter (N=4) |
| 7120.000288 | 2007 AAC TAL Field Site S Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact lithic scatter (N=5) |

| Archaeological USN | Site Name | Report Reference | NR Eligibility | Notes | Description |
|--------------------|--|--|----------------|-------|--|
| 7120.000289 | 2007 AAC TAL Field Site T/U/V/X Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact lithic scatter (N=13) |
| 7120.000290 | 2007 AAC TAL Field Site Z Precontact Site | Alexander Archaeological Consultants 2010 | Unevaluated | | Precontact lithic scatter (N=1) |
| 7120.000293 | USMA-42, Brookside Farm, Mineral Springs, Field Site B, Historic and Precontact Site | Alexander Archaeological Consultants 2006 and 2010 | Unevaluated | | Historic stone house foundation, potential silo feature, historic artifact scatter (N=424) and Precontact artifact scatter (N=125) |
| 7120.000294 | USMA ACC Field Site D Precontact Site | Alexander Archaeological Consultants 2006 | Unevaluated | | Precontact artifact scatter (N=6) |

5.2 Historic Buildings

There are four building USNs within one mile of the APE, and all have been evaluated for the National Register as Not Eligible (Table 3). All four buildings are associated with the West Point Superintendent's Retreat Complex which is located on the east side of Bull Pond at West Point. This tract of land was acquired by West Point in 1942 as a donation from David B. Brown and Henry A. Ferguson. The NY SHPO's determination of eligibility is that "While the Superintendent's Cottage retains a high degree of integrity, the other buildings in the recreational complex have been altered and have lost historic fabric. As a whole, the complex is not eligible" for the National Register.

- 7120.000176: BLDG #1808 REFRIGERATOR BUILDING - BULL POND. This building was built sometime after 1944, likely as a replacement for several older outbuildings that were removed. It is a one room brick building on a poured concrete foundation. It has been evaluated as not eligible.
- 7120.000175: BLDG #1806 CARETAKER'S QUARTERS. This building is the Caretaker's cottage at Bull Pond. It has been evaluated as not eligible.

- 7120.000171: BLDG #1800 SUPERINTENDENT'S COTTAGE. This building was built in 1936 with some alterations that occurred after 1944. The building was constructed as a one-story, field-stone cottage with a large, wood-frame screened-in front porch and exterior field-stone chimney. Both the original cottage and the addition lie on a poured concrete foundation. Following its acquisition by the USMA, the Superintendent's Retreat was utilized as a fishing camp for the USMA Superintendent, senior officers, other staff, and cadets. Currently, the Superintendent's Cottage is utilized as a recreational facility. It has been evaluated as not eligible.
- 7120.000174: BLDG #1804 BOAT HOUSE - BULL POND. This building was constructed sometime between 1906 and 1929. The boat house has a concrete foundation and horizontal clapboard siding. It has been evaluated as not eligible.

Table 3. Building USNs within one mile of the APE.

| Building USN | Name | NR Eligibility |
|--------------|--|----------------|
| 7120.000176 | BLDG #1808 REFRIGERATOR BUILDING - BULL POND | Not Eligible |
| 7120.000175 | BLDG #1806 CARETAKER'S QUARTERS | Not Eligible |
| 7120.000171 | BLDG #1800 SUPERINTENDENT'S CO | Not Eligible |
| 7120.000174 | BLDG #1804 BOAT HOUSE - BULL POND | Not Eligible |

5.3 Archaeological Surveys

Thirteen archaeological surveys have occurred within one mile of the APE (Table 4).

- 02SR52444: Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York (Panamerican Consultants 2002a). This survey was a 192 acre shovel testing survey for the West Point Range Road 22 Timber Harvest. 2,908 shovel tests were dug to complete this survey, which recorded nine archaeological USNs (all of which are within one mile of the APE and included in section 5.1).
- 02SR53628: Phase I Cultural Resources Investigation for the Proposed Bull Hill Road Extension at the U.S. Military Academy, West Point, Orange County, New York (Panamerican Consultants 2002b). This survey was conducted in 2002 for a 1,000 foot by 25 feet expansion of an access road at West Point. Ten shovel tests and pedestrian survey were conducted to test the APE and recovered no cultural materials.
- 03SR54150 (same as USN 08SR58380): Stage IA Archaeological Assessment, Proposed Catskill Aqueduct Connection, Village of Kiryas Joel, Orange County, New York (Historical Perspectives 2003). This report was conducted in 2003 to assess three different pathways for an aqueduct, and the location of a new water treatment plant for the Village of Kiryas Joel. They found that the route that went by the major highway was the route that would affect the fewest number of historic resources and that the site for the water treatment plant had a potential for Precontact archaeology. Recommendations were made for future work once a route was selected.

- 03SR54166: Phase I Cultural Resource Investigation for the Proposed Mine Lake Timber Harvest, U.S. Military Academy, West Point, Orange County, New York (Panamerican Consultants 2003). This report recorded 11 archaeology USNs, none of which are within one mile of the APE. 200 acres were investigated for this work including 715 shovel test pits and pedestrian survey. Of the sites recorded, eight are Precontact and three are Historic. None have been evaluated for the NRHP.
- 05SR55183: Final Report, Cultural Resources Survey of the Range Road 21 Timber Sale, The United States Military Academy, West Point, New York (Alexander Archaeological Consultants 2005). One archaeological USN was recorded from this survey, the Carroll Place Farmstead, which is more than one mile away from the APE and is unevaluated for the NRHP. The project area was 294 acres. 368 shovel test pits were dug and the rest of the project area pedestrian surveyed.
- 06SR56194: Phase I Cultural Resource Survey for Five Tasks, the United States Military Academy, West Point, Orange County, New York (Alexander Archaeological Consultants 2006). This survey recorded 18 archaeological USNs, one of which is listed on the NRHP, and the other 17 are unevaluated. Two of these sites are within one mile of the APE (Brookside Farm and USMA ACC Field Site D Precontact Site). 1,222 shovel test pits were dug over the 663.1 acre survey area.
- 09SR59215: Phase 1 Cultural Resources Survey of Approximately 1200 Acres at the United States Military Academy, West Point, Orange County, New York (Geo-Marine 2009a). Nine archaeological USNs were recorded during this survey, none of which are within one mile of the APE. 1,100 shovel tests and pedestrian survey was conducted over 1,200 acres. The SHPO did not concur with the methods or results of this survey, and so it was revised in the following USN.
- 09SR59638: Revised - Phase 1 Cultural Resources Survey of Approximately 1200 Acres at the United States Military Academy, West Point, Orange County, New York (Geo-Marine 2009b). This is the revised version of 09SR59215. This report covered seven non-contiguous areas totaling 1,355.6 acres. One Precontact site and four new historic sites were recorded, one historic site was updated and three previously recorded historic sites inventoried.
- 10SR59884: Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York (Alexander Archaeological Consultants 2010a). 14 archaeology USNs were recorded from this survey, ten of which are within one mile of the APE. The survey area was 584 acres, and 1,717 shovel test pits were dug.
- 10SR60607: Archaeological Monitoring of the DESC Camp Natural Bridge Refueling Station, the United States Military Academy, West Point, Orange County, New York (Alexander Archaeological Consultants 2010b). This project monitored construction work on 0.11 acres to install two fuel tanks and utilities at Camp Natural Bridge on USMA land. No Significant cultural materials recovered.
- 12SR61306: Phase IB Archaeological Investigation, Catskill Aqueduct Connection, Phase I Transmission Line, Towns of Cornwall, Woodbury, and Village of Kiryas Joel, Orange County, New York (Historical Perspectives 2010). One archaeology USN was

recorded from this project, the Seven Springs Farmstead. 227 shovel test pits were dug. Only select locations of the 34,800 foot long pipeline were investigated by this project.

- 17SR00661: Addendum to Stage 1A Archaeological Assessment Proposed Catskill Aqueduct Connection Village of Kiryas Joel, Orange County, New York (Historical Perspectives 2004). This addendum adds research on a historic cemetery to Report # 03SR54150.
- 19SR00013: Phase IA Archaeological Sensitivity Assessment for the Highland Quarry Mine Permit Modification, North Quarry Orange County, New York (Johnson, Mirmiran & Thompson, Inc. 2019). This is a literature search for a 20 acre area where the Highland Quarry Mine proposes to expand onto. No cultural resources were identified in the literature search and due to previous disturbance, no further work was recommended.

Table 4. Archaeological surveys within one Mile of APE.

| Report USN | Report Title | Report Reference | Survey Area Acreage | Findings |
|-------------------------------------|--|-------------------------------|--|--|
| 02SR52444 | Phase I Cultural Resources Investigation for the Proposed Range Road 22 Timber Harvest at the U.S. Military Academy, West Point, Orange County, New York | Panamerican Consultants 2002a | 192 acres | 9 archaeology USNs, all within one mile of APE |
| 02SR53628 | Phase I Cultural Resources Investigation for the Proposed Bull Hill Road Extension at the U.S. Military Academy, West Point, Orange County, New York | Panamerican Consultants 2002b | 1,000 foot by 25 feet | No cultural materials |
| 03SR54150 and 08SR58380 (duplicate) | Stage IA Archaeological Assessment, Proposed Catskill Aqueduct Connection, Village of Kiryas Joel, Orange County, New York | Historical Perspectives 2003 | Literature search of three potential pathways for aqueduct | Literature search only, no sites recorded |
| 03SR54166 | Phase I Cultural Resource Investigation for the Proposed Mine Lake Timber Harvest, U.S. Military Academy, West Point, Orange County, New York | Panamerican Consultants 2003 | 200 acres | 11 archaeology USNs |

| Report USN | Report Title | Report Reference | Survey Area Acreage | Findings |
|-------------------|--|--|---|---|
| 05SR55183 | Final Report, Cultural Resources Survey of the Range Road 21 Timber Sale, The United States Military Academy, West Point, New York | Alexander Archaeological Consultants 2005 | 294 acres | 1 archaeology USN |
| 06SR56194 | Phase I Cultural Resource Survey for Five Tasks, the United States Military Academy, West Point, Orange County, New York | Alexander Archaeological Consultants 2006 | 663 acres | 18 archaeology USNs, two within one mile of APE |
| 09SR59215 | Phase 1 Cultural Resources Survey of Approximately 1200 Acres at the United States Military Academy, West Point, Orange County, New York | Geo-Marine 2009a | 1200 acres | 9 archaeology USNs |
| 09SR59638 | Revised - Phase 1 Cultural Resources Survey of Approximately 1200 Acres at the United States Military Academy, West Point, Orange County, New York | Geo-Marine 2009b | 1,355.6 acres | 9 archaeology USNs |
| 10SR59884 | Phase I Archaeological Reconnaissance Survey of Training Area L, United States Military Academy, West Point, Orange County, New York | Alexander Archaeological Consultants 2010a | 584 acres | 14 archaeology USNs, 10 of which are within one mile of the APE |
| 10SR60607 | Archaeological Monitoring of the DESC Camp Natural Bridge Refueling Station, the United States Military Academy, West Point, Orange County, New York | Alexander Archaeological Consultants 2010b | 0.11 acres | No significant cultural materials |
| 12SR61306 | Phase IB Archaeological Investigation, Catskill Aqueduct Connection, Phase I Transmission Line, Towns of Cornwall, Woodbury, and Village of Kiryas Joel, Orange County, New York | Historical Perspectives 2010 | Sections of the 34,800 foot long pipeline | 1 archaeology USN |

| Report USN | Report Title | Report Reference | Survey Area Acreage | Findings |
|------------|---|---|---------------------|---|
| 17SR00661 | Addendum to Stage 1A Archaeological Assessment Proposed Catskill Aqueduct Connection Village of Kiryas Joel, Orange County, New York | Historical Perspectives 2004 | Unspecified | Research on historic cemetery |
| 19SR00013 | Phase IA Archaeological Sensitivity Assessment for the Highland Quarry Mine Permit Modification, North Quarry Orange County, New York | Johnson, Mirmiran & Thompson, Inc. 2019 | 20 acres | No cultural resources identified in literature search |

5.4 Building surveys

There is one building survey within one mile of the APE.

- 14SD00768: Harriman State Park. The survey report is not available on CRIS, but the NRHP determination is. The determination of eligibility states that Harriman State Park is eligible for the NRHP under criteria A and C in the areas of conservation, recreation, landscape architecture, social history and architecture as one of New York’s earliest and most influential state parks, for its association with precedent-setting recreational and social welfare programs, for its enormous naturalist designed landscape, and for its outstanding collection of rustic park architecture. There are 504 building USNs under this building survey.

5.5 Building District

There is one building district within one mile of the APE.

- 7109.001181: Harriman State Park. There are 77 building USNs in this building district.

6.0 Recommendations

Based on the historic map search and CRIS literature search, this APE has high potential for both Historic and Precontact archaeological resources.

There is a high potential for Historic resources because it is known that the house on the property was built in 1840. Though the house and its immediate surroundings are not being purchased by US Military Academy, there are likely to be associated features to the historic house just into the woods within the land being purchased. During a site visit to the property, USACE archaeologists saw that there is a stone wall that divides the manicured grass lawn of the house with the wooded area behind it. The stone wall also reached further back into the woods as well. It is likely that there are other historic features in the wooded area associated with the historic stone walls, and it is also likely that there may be an artifact scatter associated with the stone walls buried beneath the leaf litter. This was the case for USN 7120.000244, which is located

within one mile of the APE and is a multicomponent Historic and Precontact site that consists of rock walls and a large associated artifact scatter of Historic and Precontact artifacts. The areas closest to the house have the highest potential for Historic resources, but the entire property is considered to have high probability for Historic resources.

There is a high potential for Precontact resources because of the large number of Precontact sites nearby the APE. Nineteen archaeological sites that are within one mile of the APE, 16 of which contain a Precontact component (seven are multicomponent sites with both a Precontact and a Historic component, and nine are single component Precontact sites). These 16 Precontact sites are highly associated with being in close proximity to streams. The nearest stream to the APE is an un-named stream that joins with Mineral Springs Brook to flow into Woodbury Creek. The western edge of the APE is the closest to this un-named stream, with a minimum distance of about 220 meters. On the eastern side of the APE there is another un-named stream that drains from a wetland into Bull Pond. The APE is 330 meters from this stream at the shortest distance. Both the far western and eastern edges of the Audi Property have the highest potential for Precontact remains because these are the locations that are the closest to streams. The center of the property is less likely to hold Precontact remains since this location is the furthest from flowing water, but nonetheless, there is still potential here.

Slope has some association with the location of Precontact archaeological sites as well. Habitation sites are often located on areas with low slope, whereas rock shelters and rock art sites are often located in areas with high slope. Due to this association, habitation/camp sites are most likely to be located in the western and far eastern portion of the property where the slopes are the gentlest, and rock shelters and rock art are most likely to be located towards the eastern/center of the property where the slopes are the greatest (Figure 8). Based on the data from the recorded Precontact sites within one mile of the APE, the most probable type of Precontact site to encounter on this property would be a lithic scatter. There is one rock shelter within one mile of the APE, so this site type could potentially be located on the APE as well. Due to these factors, the entire property should be treated as having a high potential for Precontact resources. Some slope in the APE are as steep as 73 % slope. If in the future fieldwork is carried out here, a testing strategy will need to be developed because some slopes are so steep that they cannot be safely traversed by fieldworkers. The area should be surveyed, but it may not be possible for it to receive the same survey coverage the gentler sloped areas will receive.

Since this undertaking is to acquire this property as a buffer to USMA, there will be no ground disturbing activities involved with this undertaking. Because no ground disturbing work is planned to be carried out at this time it has been determined that the undertaking will not impact cultural resources. No further work is recommended. If USMA decides in the future to conduct any ground disturbing work on this property, a Phase IB survey will need to be coordinated with the New York State Historic Preservation Office and carried out for that APE, since the Audi property has been determined by this report to have a high probability for both Historic and Precontact resources.

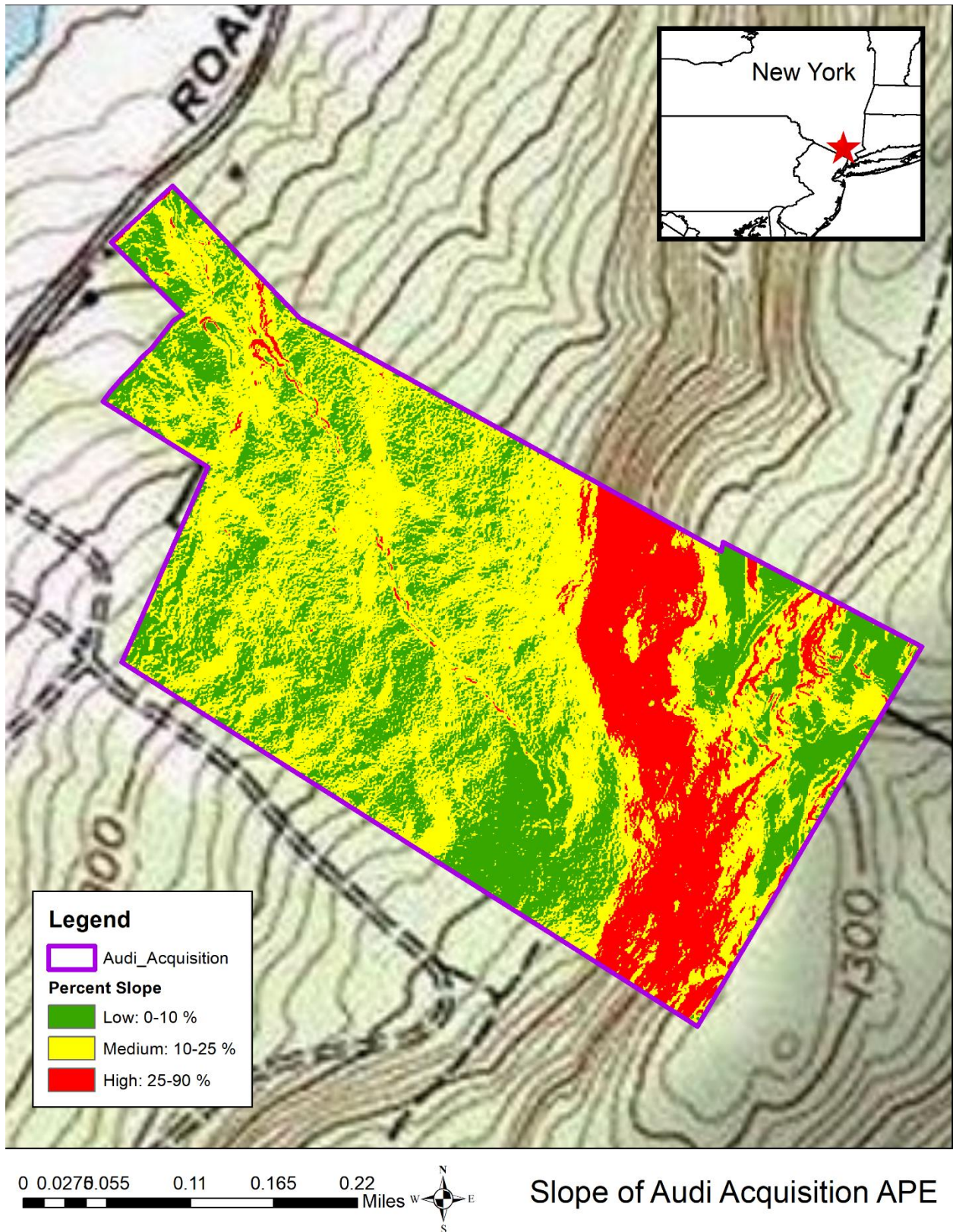


Figure 8. Slope map of APE.

7.0 References Cited

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2012 Phase IB Archaeological Investigation Catskill Aqueduct Connection Phase I Transmission Line Towns of Cornwall, Woodbury, and Village of Kiryas Joel, Orange County, New York. Prepared for CDM, Woodbury, NY.

Johnson. Mirmiran & Thompson, Inc.

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Panamerican Consultants, Inc.

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2002b Phase I Cultural Resources Investigation for the Proposed Bull Hill Road Extension at the U.S. Military Academy, West Point, Orange County, New York. Prepared for Barry Vittor & Associates, Inc., Mobile AL. Under contract to U.S. Army Corps of Engineers, New York.

2003 Phase I Cultural Resources Investigation for the Proposed Mine Lake Timber Harvest U.S. Military Academy, West Point, Orange County, New York. Prepared for Northern Ecological Associated, Inc., Portland ME. Prepared for U.S. Army Corps of Engineers, New York.

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1851 Map of Orange County New York: from Actual Surveys.

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1946 Popolopen Lake 7.5" Quadrangle Map.

1947 Popolopen Lake 7.5" Quadrangle Map.

1957a Popolopen Lake 7.5" Quadrangle Map.

1957b Popolopen Lake 7.5" Quadrangle Map.

1994 Popolopen Lake 7.5" Quadrangle Map.

APPENDIX C

NRCS Prime or Other Important Farmlands

Soil Data Access (SDA) Prime and other Important Farmlands

An SDA-populated select list is used to pick a state and SSA which enables creation of a "Prime and other Important Farmlands" based upon those selections. The data is not static; it hits Soil Data Access Live. To reset the table hit F5 on the keyboard. Once a survey is selected and table appears, if a new survey is selected it will append to the table at the bottom. [For more information about the table.](#)

New York ▼

selected stateId = NY

Orange County, New York ▼

selected SSA areasympol = NY071

| State_Sym | Area_Symbol | Area_Name | mukey | Mapunit_SYM | Mapunit_Name | Farm_Class |
|-----------|-------------|-------------------------|---------|-------------|---|------------------------------|
| NY | NY071 | Orange County, New York | 293892 | AC | Alden extremely stony soils | Not prime farmland |
| NY | NY071 | Orange County, New York | 293895 | ANC | Arnot-Lordstown complex, sloping | Not prime farmland |
| NY | NY071 | Orange County, New York | 293896 | AND | Arnot-Lordstown complex, moderately steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 293897 | ANF | Arnot-Lordstown complex, very steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 1384984 | Aa | Ackerman muck | Not prime farmland |
| NY | NY071 | Orange County, New York | 293891 | Ab | Alden silt loam | Not prime farmland |
| NY | NY071 | Orange County, New York | 293893 | AdA | Allard silt loam, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293894 | AdB | Allard silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293898 | Ba | Barbour fine sandy loam | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293899 | Be | Basher fine sandy loam | All areas are prime farmland |

| | | | | | | |
|----|-------|-------------------------|---------|-----|--|----------------------------------|
| NY | NY071 | Orange County, New York | 293900 | BnB | Bath-Nassau channery silt loams, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293901 | BnC | Bath-Nassau channery silt loams, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293910 | CLC | Charlton-Paxton complex, 8 to 15 percent slopes, very rocky | Not prime farmland |
| NY | NY071 | Orange County, New York | 293911 | CLD | Charlton-Paxton complex, 15 to 35 percent slopes, very rocky | Not prime farmland |
| NY | NY071 | Orange County, New York | 293902 | Ca | Canandaigua silt loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 1384996 | Cb | Canadaigua mucky silt loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293903 | Cd | Catden muck, drained, 0 to 2 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293905 | Cf | Catden, Muskego, and Pinnebog soils, 0 to 2 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293906 | CgA | Castile gravelly silt loam, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293907 | CgB | Castile gravelly silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293908 | ChB | Charlton fine sandy loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293909 | ChC | Charlton fine sandy loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293912 | CnA | Chenango gravelly silt loam, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293913 | CnB | Chenango gravelly silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293914 | CnC | Chenango gravelly silt loam, 8 to 15 percent slopes | Farmland of statewide importance |

| | | | | | | |
|----|-------|-------------------------|--------|-----|---|----------------------------------|
| NY | NY071 | Orange County, New York | 293915 | CoB | Collamer silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293916 | CoC | Collamer silt loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293917 | CoD | Collamer silt loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293918 | Du | Dumps | Not prime farmland |
| NY | NY071 | Orange County, New York | 293921 | ESB | Erie extremely stony soils, gently sloping | Not prime farmland |
| NY | NY071 | Orange County, New York | 293919 | ErA | Erie gravelly silt loam, 0 to 3 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293920 | ErB | Erie gravelly silt loam, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293922 | FAC | Farmington silt loam, sloping | Not prime farmland |
| NY | NY071 | Orange County, New York | 293923 | Fd | Fredon loam | Prime farmland if drained |
| NY | NY071 | Orange County, New York | 293925 | HH | Histic Humaquepts, ponded | Not prime farmland |
| NY | NY071 | Orange County, New York | 293926 | HLC | Hollis soils, sloping | Not prime farmland |
| NY | NY071 | Orange County, New York | 293927 | HLD | Hollis soils, moderately steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 293924 | Ha | Halsey silt loam | Not prime farmland |
| NY | NY071 | Orange County, New York | 293928 | HoA | Hoosic gravelly sandy loam, 0 to 3 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293929 | HoB | Hoosic gravelly sandy loam, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | | 293930 | HoC | | |

| | | | | | | |
|----|-------|-------------------------|---------|-----|--|----------------------------------|
| | | Orange County, New York | | | Hoosic gravelly sandy loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293931 | HoD | Hoosic gravelly sandy loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293932 | LdB | Lordstown channery silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293933 | LdC | Lordstown channery silt loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293938 | MNE | Mardin soils, steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 293934 | Ma | Madalin silt loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 1384997 | Mb | Madalin mucky silt loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293935 | MdB | Mardin gravelly silt loam, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293936 | MdC | Mardin gravelly silt loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293937 | MdD | Mardin gravelly silt loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 1385007 | Ms | Muskego muck | Not prime farmland |
| NY | NY071 | Orange County, New York | 293939 | My | Middlebury silt loam | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293940 | NaD | Nassau channery silt loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293947 | NcA | Natchaug muck, drained, 0 to 2 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293948 | NgA | Natchaug and Wawayanda soils, 0 to 2 percent slopes | Not prime farmland |
| NY | NY071 | | 293946 | OVE | Otisville and Hoosic soils, steep | Not prime farmland |

| | | | | | | |
|----|-------|-------------------------------|---------|-----|--|--|
| | | Orange County, New York | | | | |
| NY | NY071 | Orange County, New York | 293941 | OkA | Oakville loamy fine sand, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293942 | OkB | Oakville loamy fine sand, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 1385003 | On | Olentangy muck | Not prime farmland |
| NY | NY071 | Orange County, New York | 293943 | OtB | Otisville gravelly sandy loam, 0 to 8 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293944 | OtC | Otisville gravelly sandy loam, 8 to 15 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293945 | OtD | Otisville gravelly sandy loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293949 | Pg | Pits, gravel | Not prime farmland |
| NY | NY071 | Orange County, New York | 1385013 | Pn | Pinnebog muck | Not prime farmland |
| NY | NY071 | Orange County, New York | 293950 | PtB | Pittsfield gravelly loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293951 | PtC | Pittsfield gravelly loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293952 | PtD | Pittsfield gravelly loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293953 | Qu | Quarries | Not prime farmland |
| NY | NY071 | Orange County, New York | 293961 | RKC | Rock outcrop-Arnot complex, 3 to 15 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293962 | RKD | Rock outcrop-Arnot complex, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | | 293963 | RKF | | Not prime farmland |

| | | | | | | |
|----|-------|-------------------------|--------|-----|--|----------------------------------|
| | | Orange County, New York | | | Rock outcrop-Arnot complex, 25 to 70 percent slopes | |
| NY | NY071 | Orange County, New York | 293964 | RMC | Rock outcrop-Farmington complex, rolling | Not prime farmland |
| NY | NY071 | Orange County, New York | 293965 | RMD | Rock outcrop-Farmington complex, hilly | Not prime farmland |
| NY | NY071 | Orange County, New York | 293966 | ROC | Rock outcrop-Hollis complex, sloping | Not prime farmland |
| NY | NY071 | Orange County, New York | 293967 | ROD | Rock outcrop-Hollis complex, 15 to 35 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293968 | ROF | Rock outcrop-Hollis complex, very steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 293969 | RSB | Rock outcrop-Nassau complex, undulating | Not prime farmland |
| NY | NY071 | Orange County, New York | 293970 | RSD | Rock outcrop-Nassau complex, hilly | Not prime farmland |
| NY | NY071 | Orange County, New York | 293971 | RSF | Rock outcrop-Nassau complex, very steep | Not prime farmland |
| NY | NY071 | Orange County, New York | 293954 | Ra | Raynham silt loam | Prime farmland if drained |
| NY | NY071 | Orange County, New York | 293955 | RbA | Rhinebeck silt loam, 0 to 3 percent slopes | Prime farmland if drained |
| NY | NY071 | Orange County, New York | 293956 | RbB | Rhinebeck silt loam, 3 to 8 percent slopes | Prime farmland if drained |
| NY | NY071 | Orange County, New York | 293957 | RhA | Riverhead sandy loam, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293958 | RhB | Riverhead sandy loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293959 | RhC | Riverhead sandy loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | | 293960 | RhD | | Not prime farmland |

| | | | | | | |
|----|-------|-------------------------|--------|-----|---|----------------------------------|
| | | Orange County, New York | | | Riverhead sandy loam, 15 to 25 percent slopes | |
| NY | NY071 | Orange County, New York | 293979 | SXC | Swartswood and Mardin soils, sloping, very stony | Not prime farmland |
| NY | NY071 | Orange County, New York | 293980 | SXD | Swartswood and Mardin soils, moderately steep, very stony | Not prime farmland |
| NY | NY071 | Orange County, New York | 293981 | SXF | Swartswood and Mardin soils, very steep, very stony | Not prime farmland |
| NY | NY071 | Orange County, New York | 293972 | Sb | Scarboro mucky fine sandy loam, 0 to 3 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293973 | ScA | Scio silt loam, 0 to 3 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293974 | ScB | Scio silt loam, 3 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293975 | Su | Suncook sandy loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293976 | SwB | Swartswood gravelly loam, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293977 | SwC | Swartswood gravelly loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293978 | SwD | Swartswood gravelly loam, 15 to 25 percent slopes | Not prime farmland |
| NY | NY071 | Orange County, New York | 293982 | Tg | Tioga silt loam | All areas are prime farmland |
| NY | NY071 | Orange County, New York | 293983 | UF | Udifluents-Fluvaquents complex, frequently flooded | Not prime farmland |
| NY | NY071 | Orange County, New York | 293984 | UH | Udorthents, smoothed | Not prime farmland |
| NY | NY071 | Orange County, New York | 293985 | UnB | Unadilla silt loam, 0 to 8 percent slopes | All areas are prime farmland |
| NY | NY071 | | 293986 | UnC | | |

| | | | | | | |
|----|-------|-------------------------|---------|-----|---|----------------------------------|
| | | Orange County, New York | | | Unadilla silt loam, 8 to 15 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293987 | Ur | Urban land | Not prime farmland |
| NY | NY071 | Orange County, New York | 293988 | W | Water | Not prime farmland |
| NY | NY071 | Orange County, New York | 293989 | Wa | Wallkill silt loam | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293990 | Wd | Wayland soils complex, non-calcareous substratum, 0 to 3 percent slopes, frequently flooded | Not prime farmland |
| NY | NY071 | Orange County, New York | 1385008 | Wn | Wawayanda muck | Not prime farmland |
| NY | NY071 | Orange County, New York | 293991 | WuB | Wurtsboro gravelly loam, 3 to 8 percent slopes | Farmland of statewide importance |
| NY | NY071 | Orange County, New York | 293992 | WuC | Wurtsboro gravelly loam, 8 to 15 percent slopes | Farmland of statewide importance |

Report Metadata: [Back to top](#)

- **Area_Symbol:** A symbol that uniquely identifies a single occurrence of a particular type of area (e.g. Dane Co., Wisconsin is WI025).
- **Area_Name:** The name given to the specified geographic area.
- **mukey:** A non-connotative string of characters used to uniquely identify a record in the Mapunit table.
- **Mapunit_SYM:** The symbol used to uniquely identify the soil mapunit in the soil survey.
- **Mapunit_Name:** Correlated name of the mapunit (recommended name or field name for surveys in progress).
- **Prime and other Important Farmlands:** Identification of map units as prime farmland, farmland of statewide importance, or farmland of local importance.

Prime and other Important Farmlands Description:

This table lists the map units in the survey area that are considered important farmlands. Important farmlands consist of prime farmland, unique farmland, and farmland of statewide or local importance. This list does not constitute a recommendation for a particular land use.

In an effort to identify the extent and location of important farmlands, the Natural Resources Conservation Service, in cooperation with other interested Federal, State, and local government organizations, has inventoried land that can be used for the production of the Nation's food supply.

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation's prime farmland

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil quality, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. Prime farmland is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

For some of the soils identified in the table as prime farmland, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures.

A recent trend in land use in some areas has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

Unique farmland is land other than prime farmland that is used for the production of specific high-value food and fiber crops, such as citrus, tree nuts, olives, cranberries, and other fruits and vegetables. It has the special combination of soil quality, growing season, moisture supply, temperature, humidity, air drainage, elevation, and aspect needed for the soil to economically produce sustainable high yields of these crops when properly managed. The water supply is dependable and of adequate quality. Nearness to markets is an additional consideration. Unique farmland is not based on national criteria. It commonly is in areas where there is a special microclimate, such as the wine country in California.

In some areas, land that does not meet the criteria for prime or unique farmland is considered to be *farmland of statewide importance* for the production of food, feed, fiber, forage, and oilseed crops. The criteria for defining and delineating farmland of statewide importance are determined by the appropriate State agencies. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Some areas may produce as high a yield as prime farmland if conditions are favorable. Farmland of statewide importance may include tracts of land that have been designated for agriculture by State law.

In some areas that are not identified as having national or statewide importance, land is considered to be farmland of local importance for the production of food, feed, fiber, forage, and oilseed crops. This farmland is identified by the appropriate local agencies. Farmland of local importance may include tracts of land that have been designated for agriculture by local ordinance.

APPENDIX D
EJSCREEN ACS Report

Location: User-specified point center at 41.356559, -74.089199

Ring (buffer): 1-miles radius

Description:

| Summary of ACS Estimates | | 2013 - 2017 |
|--------------------------------------|--|-------------|
| Population | | 1,185 |
| Population Density (per sq. mile) | | 344 |
| Minority Population | | 246 |
| % Minority | | 21% |
| Households | | 350 |
| Housing Units | | 369 |
| Housing Units Built Before 1950 | | 29 |
| Per Capita Income | | 35,810 |
| Land Area (sq. miles) (Source: SF1) | | 3.44 |
| % Land Area | | 96% |
| Water Area (sq. miles) (Source: SF1) | | 0.14 |
| % Water Area | | 4% |

| | 2013 - 2017 ACS Estimates | Percent | MOE (±) |
|--|------------------------------|---------|---------|
| Population by Race | | | |
| Total | 1,185 | 100% | 516 |
| Population Reporting One Race | 1,172 | 99% | 1,164 |
| White | 1,037 | 88% | 519 |
| Black | 54 | 5% | 216 |
| American Indian | 0 | 0% | 32 |
| Asian | 7 | 1% | 126 |
| Pacific Islander | 0 | 0% | 16 |
| Some Other Race | 75 | 6% | 255 |
| Population Reporting Two or More Races | 13 | 1% | 114 |
| Total Hispanic Population | 167 | 14% | 328 |
| Total Non-Hispanic Population | 1,018 | | |
| White Alone | 939 | 79% | 418 |
| Black Alone | 47 | 4% | 216 |
| American Indian Alone | 0 | 0% | 25 |
| Non-Hispanic Asian Alone | 7 | 1% | 126 |
| Pacific Islander Alone | 0 | 0% | 16 |
| Other Race Alone | 25 | 2% | 93 |
| Two or More Races Alone | 0 | 0% | 100 |
| Population by Sex | | | |
| Male | 577 | 49% | 379 |
| Female | 608 | 51% | 259 |
| Population by Age | | | |
| Age 0-4 | 61 | 5% | 178 |
| Age 0-17 | 285 | 24% | 251 |
| Age 18+ | 900 | 76% | 519 |
| Age 65+ | 115 | 10% | 170 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race.

N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2013 - 2017

Location: User-specified point center at 41.356559, -74.089199

Ring (buffer): 1-miles radius

Description:

| | 2013 - 2017 ACS Estimates | Percent | MOE (±) |
|--|------------------------------|---------|---------|
| Population 25+ by Educational Attainment | | | |
| Total | 752 | 100% | 314 |
| Less than 9th Grade | 10 | 1% | 87 |
| 9th - 12th Grade, No Diploma | 0 | 0% | 57 |
| High School Graduate | 143 | 19% | 133 |
| Some College, No Degree | 271 | 36% | 187 |
| Associate Degree | 146 | 19% | 125 |
| Bachelor's Degree or more | 329 | 44% | 216 |
| Population Age 5+ Years by Ability to Speak English | | | |
| Total | 1,124 | 100% | 492 |
| Speak only English | 1,036 | 92% | 436 |
| Non-English at Home ¹⁺²⁺³⁺⁴ | 87 | 8% | 277 |
| ¹ Speak English "very well" | 69 | 6% | 229 |
| ² Speak English "well" | 13 | 1% | 87 |
| ³ Speak English "not well" | 0 | 0% | 78 |
| ⁴ Speak English "not at all" | 5 | 0% | 43 |
| ³⁺⁴ Speak English "less than well" | 5 | 0% | 88 |
| ²⁺³⁺⁴ Speak English "less than very well" | 19 | 2% | 119 |
| Linguistically Isolated Households* | | | |
| Total | 0 | 100% | 34 |
| Speak Spanish | 0 | 0% | 11 |
| Speak Other Indo-European Languages | 0 | 100% | 22 |
| Speak Asian-Pacific Island Languages | 0 | 0% | 24 |
| Speak Other Languages | 0 | 0% | 11 |
| Households by Household Income | | | |
| Household Income Base | 350 | 100% | 164 |
| < \$15,000 | 7 | 2% | 23 |
| \$15,000 - \$25,000 | 9 | 3% | 80 |
| \$25,000 - \$50,000 | 10 | 3% | 92 |
| \$50,000 - \$75,000 | 39 | 11% | 70 |
| \$75,000 + | 285 | 81% | 214 |
| Occupied Housing Units by Tenure | | | |
| Total | 350 | 100% | 164 |
| Owner Occupied | 349 | 100% | 142 |
| Renter Occupied | 1 | 0% | 115 |
| Employed Population Age 16+ Years | | | |
| Total | 939 | 100% | 348 |
| In Labor Force | 672 | 72% | 346 |
| Civilian Unemployed in Labor Force | 15 | 2% | 86 |
| Not In Labor Force | 267 | 28% | 196 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of anyrace.

N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS)

*Households in which no one 14 and over speaks English "very well" or speaks English only.

Location: User-specified point center at 41.356559, -74.089199

Ring (buffer): 1-miles radius

Description:

| | 2013 - 2017 ACS Estimates | Percent | MOE (±) |
|---|------------------------------|---------|---------|
| Population by Language Spoken at Home* | | | |
| Total (persons age 5 and above) | 1,742 | 100% | 252 |
| English | 1,445 | 83% | 303 |
| Spanish | 223 | 13% | 189 |
| French | 0 | 0% | 57 |
| French Creole | N/A | N/A | N/A |
| Italian | N/A | N/A | N/A |
| Portuguese | N/A | N/A | N/A |
| German | 15 | 1% | 34 |
| Yiddish | N/A | N/A | N/A |
| Other West Germanic | N/A | N/A | N/A |
| Scandinavian | N/A | N/A | N/A |
| Greek | N/A | N/A | N/A |
| Russian | N/A | N/A | N/A |
| Polish | N/A | N/A | N/A |
| Serbo-Croatian | N/A | N/A | N/A |
| Other Slavic | N/A | N/A | N/A |
| Armenian | N/A | N/A | N/A |
| Persian | N/A | N/A | N/A |
| Gujarathi | N/A | N/A | N/A |
| Hindi | N/A | N/A | N/A |
| Urdu | N/A | N/A | N/A |
| Other Indic | N/A | N/A | N/A |
| Other Indo-European | 33 | 2% | 71 |
| Chinese | 0 | 0% | 11 |
| Japanese | N/A | N/A | N/A |
| Korean | 0 | 0% | 11 |
| Mon-Khmer, Cambodian | N/A | N/A | N/A |
| Hmong | N/A | N/A | N/A |
| Thai | N/A | N/A | N/A |
| Laotian | N/A | N/A | N/A |
| Vietnamese | 0 | 0% | 11 |
| Other Asian | 0 | 0% | 11 |
| Tagalog | 4 | 0% | 17 |
| Other Pacific Island | N/A | N/A | N/A |
| Navajo | N/A | N/A | N/A |
| Other Native American | N/A | N/A | N/A |
| Hungarian | N/A | N/A | N/A |
| Arabic | 5 | 0% | 22 |
| Hebrew | N/A | N/A | N/A |
| African | N/A | N/A | N/A |
| Other and non-specified | 0 | 0% | 11 |
| Total Non-English | 297 | 17% | 394 |

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race.

N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2013 - 2017.

*Population by Language Spoken at Home is available at the census tract summary level and up.

APPENDIX E

EA and FONSI Distribution List

Distribution List for NEPA Documents

A list of agencies and persons who will receive copies of the Environmental Assessment

| State and County Agencies | |
|---|---|
| <p>Mr. Steven M. Neuhaus Orange County Executive 40 Matthews St. Suite 104 Goshen, NY 10924 ceoffice@orangecountygov.com 845-291-2700</p> | <p>John Bonafide Office of Parks, Recreation and Historic Preservation New York State Office of Historic Preservation Field Services Bureau Peebles Island P.O. Box 189 Waterford, NY 12188-0189 (518) 237-8643</p> |
| <p>Ms. Lisa Masi, Wildlife Biologist NYS DEC- Region 3 Bureau of Wildlife 21 South Putt Corners Road New Paltz, NY 12561 Immasi@gw.dec.state.ny.us 845-256-2257</p> | <p>Ms. Kelly Turturro, Regional Director NYS DEC-Region 3 21 South Putt Corners Road New Paltz, NY 12561 kturturro@gw.dec.state.ny.us 845-256-3033</p> |

| Federal Agencies | |
|--|---|
| <p>Ms. Grace Musumeci, Chief Environmental Review Section USEPA-Region II 290 Broadway New York, NY 10007-1866 musumeci.grace@epa.gov 212-637-3738</p> | <p>Ms. Sandra Doran, Fish and Wildlife Biologist US Fish and Wildlife Service New York Field Office 3817 Luker Rd. Cortland, NY 13045 sandra_doran@fws.gov 607-753-9334 x0586</p> |

| Tribal | |
|---|---|
| <p>Nathan Allison Tribal Historic Preservation Officer Stockbridge Munsee Band of Mohican Indians 65 1st Street Troy, NY 12180 Nathan.allison@mohican-nsn.gov</p> | <p>Erin Thompson-Paden Delaware Nation Historic Preservation Director 31064 SH 281 P.O. Box 825 Anadarko, OK 73005 Office: 405-247-2448 ex. 1403 Cell: 480-275-9009 epad@delawarenation-nsn.gov</p> |
| <p>Susan Bachor Delaware Tribe of Indians Historic Preservation Representative P.O. Box 64 or 100 Church Street Pocono Lake, PA 18347 sbachor@delawaretribe.org</p> | <p><i>*This cell intentionally left blank.</i></p> |

| Interested Parties | |
|--|--|
| Mr. Jeff Anzevino, Director of Land Use Advocacy Scenic Hudson Inc. 1 Civic Center Plaza, #200 Poughkeepsie, NY 12601 janzevino@scenichudson.org | Ms. Michelle Smith, Executive Director Hudson Highlands Land Trust PO Box 226 Garrison, NY 10524 Michelle.smith@hhlt.org |
| Ms. Erin Doran, Staff Attorney Hudson River Keeper E-House 78 North Broadway White Plains, NY 10603 | Mr. Scott Keller, Executive Director Hudson River Valley Greenway Communities Council 625 Broadway, 4 th Floor Albany, NY 12207-2995 Scott.keller@hudsongreenway.ny.gov |
| Ms. Diane Gocha, Business Manager Bascobel Restoration Inc. 1601 Route 9D Garrison, NY 10524 dgocha@boscobel.org | Mrs. Stella Bailey, Historian Town of Highland Historical Society 303 Main Street Highland Falls, NY 10928 |
| Mr. Michael Armstrong, President Chapel of Our Lady Restoration Inc. Box 43 Cold Spring-on-Hudson, NY 10524 | Woodbury Historical Society 543 Route 32 PO BOX 30 Highland Mills, NY 10930 |

| Public Venues | |
|--|---|
| Ms. Rebecca Shuler, Town Clerk Town of Highlands 254 Main Street Highland Falls, NY 10928 | Ms. Regina Taylor, Village Clerk Village of Highland Falls 303 Main Street Highland Falls, NY 10928 |
| Highland Falls Public Library 298 Main Street Highland Falls, NY 10928 | Ms. Desiree Potvin, Town Clerk Town of Woodbury 511 Route 32 P.O. Box 1004 Highland Mills, NY 10930 |
| Woodbury Public Library 16 County Route 105 Highland Mills, NY 10930 | Woodbury Public Library Ida Cornell Branch 23 Smith Clove Road Central Valley, NY 10917 |
| Renata McGee, Town Clerk Town of Cornwall 183 Main Street Cornwall, NY 12518 | The Cornwall Public Library 395 Hudson Street Cornwall, NY 12518 |
| Cornwall Historical Society 183 Main Street, 1 st Floor Cornwall, NY 12518 | <i>*This cell intentionally left blank.</i> |

| Newspapers Publishing the Notice of Availability | |
|--|--|
| Times Herald Record PO Box 2046 Middletown, NY 10940 legals@th-record.com 845-346-3059 | PointerView c/o Times Herald Record PO Box 2046 Middletown, NY 10940 legals@th-record.com 845-346-3059 |
| Cornwall Local PO Box 518 Cornwall NY 12518 admin@thecornwalllocal.com 845-534-7771 | The News of the Highlands PO Box 45 Highland Falls, NY 10928 admin@thecornwalllocal.com 845-534-7771 |

APPENDIX F

Agency Correspondence



DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON WEST POINT
681 HARDEE PLACE
WEST POINT, NEW YORK 10996-1514

26 October 2020

Ms. Sandra Doran, Fish and Wildlife Biologist
US Fish and Wildlife Service
New York Field Office
3817 Luker Rd.
Cortland, NY 13045

SUBJECT: Draft Environmental Assessment and Finding of No Significant Impact
Audi Land Acquisition
Highland Mills, New York
United States Army Garrison
West Point, New York

Please find attached a CD containing an Environmental Assessment (EA) for the Audi Land Acquisition proposed for purchase by the U.S. Army Garrison (USAG) at West Point. The EA assesses the environmental impacts associated with the purchase of approximately 87.2 acres of vacant land from a 116.3-acre plot. The land is proposed to remain vacant and be primarily utilized as a buffer zone between the training and operations of USAG West Point and the general public, in accordance with West Point's Master Plan. Pursuant to Title 32 of the Code of Federal Regulation, Subpart E, Sections 651.35 and 651.36 (32 CFR § 651.35 and 651.36), the USAG West Point shall distribute the Draft Environmental Assessment and Finding of No Significant Impact to interested or affected agencies, organizations, and individuals, and review comments and questions submitted by these parties pertaining to the proposed action.

A copy of the public Notice of Availability is attached. This Notice provides a brief overview of the project and identifies the public venues where members of the project area community are able to review the document.

The comment period for this EA begins on November 9, 2020 and ends on December 9, 2020. Please send all comments and/or requests for copies of the Draft EA to:

Mr. Christopher Pray
U.S. Army Garrison West Point, NEPA Coordinator
IMML-PWE-N, Building 667, Ruger Road, West Point, NY 10996

Phone: (845) 938-7122
Email: christopher.c.pray.civ@mail.mil

NOTICE OF AVAILABILITY
Draft Environmental Assessment and Finding of No Significant Impact

Audi Land Acquisition
Highland Mills, New York

United States Army Garrison
West Point, New York

The United States Army Garrison (USAG) at West Point proposes to purchase approximately 87.2 acres of a 116.30-acre parcel located along West Point's western border in Highland Mills, New York, between USAG West Point and Smith Clove Road (Proposed Action). The land is to be primarily utilized as a buffer area between the USAG West Point training and operations and the general public, in accordance with USAG West Point's Master Plan. Following acquisition, the Property would remain vacant, undeveloped land. Currently, USAG West Point personnel receive permission from the parcel owner to traverse through the Property. Under the Proposed Action USAG West Point personnel would continue to traverse through the property by foot and via the vehicle access road located on the eastern portion of the Property in order to more readily access surrounding portions of USAG West Point property. No construction, development, or new operations are proposed.

The Draft EA and this Finding of No Significant Impact are available for public review online at <https://www.nan.usace.army.mil/Missions/Environmental/Environmental-Assessment/Audi-Land-Acquisition-EA/> and at the following locations:

Town of Highlands
254 Main Street
Highland Falls, NY 10928

Village of Highland Falls
303 Main Street
Highland Falls, NY 10928

Highland Falls Public Library
298 Main Street
Highland Falls, NY 10928

Town of Woodbury
511 Route 32
P.O. Box 1004
Highland Mills, NY 10930

Woodbury Public Library
16 County Route 105
Highland Mills, NY 10930

Woodbury Public Library
Ida Cornell Branch
23 Smith Clove Road
Central Valley, NY 10917

Town of Cornwall
183 Main Street
Cornwall, NY 12518

The Cornwall Public Library
395 Hudson Street
Cornwall, NY 12518

Cornwall Historical Society
183 Main Street, 1st Floor
Cornwall, NY 12518

The deadline for public comments on the Proposed Action is December 9, 2020.

Comments received on the Proposed Action, including agency responses to comments received during the comment period will be included in the Final EA. Please send all comments and/or requests for copies of the Draft EA to:

Mr. Christopher Pray
U.S. Army Garrison West Point, NEPA Coordinator
IMML-PWE-N, Building 667, Ruger Road, West Point, NY 10996

Phone: (845) 938-7122
Email: christopher.c.pray.civ@mail.mil



DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON WEST POINT
681 HARDEE PLACE
WEST POINT, NEW YORK 10996-1514

26 October 2020

Ms. Grace Musumeci, Chief
Environmental Review Section
USEPA-Region II
290 Broadway
New York, NY 10007-1866

SUBJECT: Draft Environmental Assessment and Finding of No Significant Impact
Audi Land Acquisition
Highland Mills, New York
United States Army Garrison
West Point, New York

Please find attached a CD containing an Environmental Assessment (EA) for the Audi Land Acquisition proposed for purchase by the U.S. Army Garrison (USAG) at West Point. The EA assesses the environmental impacts associated with the purchase of approximately 87.2 acres of vacant land from a 116.3-acre plot. The land is proposed to remain vacant and be primarily utilized as a buffer zone between the training and operations of USAG West Point and the general public, in accordance with West Point's Master Plan. Pursuant to Title 32 of the Code of Federal Regulation, Subpart E, Sections 651.35 and 651.36 (32 CFR § 651.35 and 651.36), the USAG West Point shall distribute the Draft Environmental Assessment and Finding of No Significant Impact to interested or affected agencies, organizations, and individuals, and review comments and questions submitted by these parties pertaining to the proposed action.

A copy of the public Notice of Availability is attached. This Notice provides a brief overview of the project and identifies the public venues where members of the project area community are able to review the document.

The comment period for this EA begins on November 9, 2020 and ends on December 9, 2020. Please send all comments and/or requests for copies of the Draft EA to:

Mr. Christopher Pray
U.S. Army Garrison West Point, NEPA Coordinator
IMML-PWE-N, Building 667, Ruger Road, West Point, NY 10996

Phone: (845) 938-7122
Email: christopher.c.pray.civ@mail.mil

NOTICE OF AVAILABILITY
Draft Environmental Assessment and Finding of No Significant Impact

Audi Land Acquisition
Highland Mills, New York

United States Army Garrison
West Point, New York

The United States Army Garrison (USAG) at West Point proposes to purchase approximately 87.2 acres of a 116.30-acre parcel located along West Point's western border in Highland Mills, New York, between USAG West Point and Smith Clove Road (Proposed Action). The land is to be primarily utilized as a buffer area between the USAG West Point training and operations and the general public, in accordance with USAG West Point's Master Plan. Following acquisition, the Property would remain vacant, undeveloped land. Currently, USAG West Point personnel receive permission from the parcel owner to traverse through the Property. Under the Proposed Action USAG West Point personnel would continue to traverse through the property by foot and via the vehicle access road located on the eastern portion of the Property in order to more readily access surrounding portions of USAG West Point property. No construction, development, or new operations are proposed.

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DEPARTMENT OF THE ARMY
U.S. ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON WEST POINT
681 HARDEE PLACE
WEST POINT, NEW YORK 10996-1514

26 October 2020

Ms. Kelly Turturro, Regional Director
NYS DEC-Region 3
21 South Putt Corners Road
New Paltz, NY 12561

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Highland Mills, New York
United States Army Garrison
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26 October 2020

Ms. Lisa Masi, Wildlife Biologist
NYS DEC- Region 3
Bureau of Wildlife
21 South Putt Corners Road
New Paltz, NY 12561

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26 October 2020

Mr. John Bonafide
Office of Parks, Recreation and Historic Preservation
New York State Office of Historic Preservation
Field Services Bureau
Peebles Island
P.O. Box 189
Waterford, NY 12188-0189
(518) 237-8643

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26 October 2020

Mr. Nathan Allison
Tribal Historic Preservation Officer
Stockbridge Munsee Band of Mohican Indians
65 1st Street
Troy, NY 12180
Nathan.allison@mohican-nsn.gov

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26 October 2020

Ms. Erin Thompson-Paden
Delaware Nation Historic Preservation Director
31064 SH 281
P.O. Box 825
Anadarko, OK 73005
Office: 405-247-2448 ex. 1403
Cell: 480-275-9009
epaden@delawarenation-nsn.gov

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26 October 2020

Ms. Susan Bachor
Delaware Tribe of Indians
Historic Preservation Representative
P.O. Box 64 or 100 Church Street
Pocono Lake, PA 18347
sbachor@delawaretribe.org

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26 October 2020

Mr. Steven M. Neuhaus
Orange County Executive
40 Matthews St. Suite 104
Goshen, NY 10924

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Highland Mills, New York

United States Army Garrison
West Point, New York

The United States Army Garrison (USAG) at West Point proposes to purchase approximately 87.2 acres of a 116.30-acre parcel located along West Point's western border in Highland Mills, New York, between USAG West Point and Smith Clove Road (Proposed Action). The land is to be primarily utilized as a buffer area between the USAG West Point training and operations and the general public, in accordance with USAG West Point's Master Plan. Following acquisition, the Property would remain vacant, undeveloped land. Currently, USAG West Point personnel receive permission from the parcel owner to traverse through the Property. Under the Proposed Action USAG West Point personnel would continue to traverse through the property by foot and via the vehicle access road located on the eastern portion of the Property in order to more readily access surrounding portions of USAG West Point property. No construction, development, or new operations are proposed.

The Draft EA and this Finding of No Significant Impact are available for public review online at <https://www.nan.usace.army.mil/Missions/Environmental/Environmental-Assessment/Audi-Land-Acquisition-EA/> and at the following locations:

Town of Highlands
254 Main Street
Highland Falls, NY 10928

Village of Highland Falls
303 Main Street
Highland Falls, NY 10928

Highland Falls Public Library
298 Main Street
Highland Falls, NY 10928

Town of Woodbury
511 Route 32
P.O. Box 1004
Highland Mills, NY 10930

Woodbury Public Library
16 County Route 105
Highland Mills, NY 10930

Woodbury Public Library
Ida Cornell Branch
23 Smith Clove Road
Central Valley, NY 10917

Town of Cornwall
183 Main Street
Cornwall, NY 12518

The Cornwall Public Library
395 Hudson Street
Cornwall, NY 12518

Cornwall Historical Society
183 Main Street, 1st Floor
Cornwall, NY 12518

The deadline for public comments on the Proposed Action is December 9, 2020.

Comments received on the Proposed Action, including agency responses to comments received during the comment period will be included in the Final EA. Please send all comments and/or requests for copies of the Draft EA to:

Mr. Christopher Pray
U.S. Army Garrison West Point, NEPA Coordinator
IMML-PWE-N, Building 667, Ruger Road, West Point, NY 10996

Phone: (845) 938-7122
Email: christopher.c.pray.civ@mail.mil



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK NEW YORK 10278-0090

October 7, 2020

Mr. Daniel Mackay,
Deputy Commissioner
New York State Division for Historic Preservation
Peebles Island State Park
P.O. Box 189
Waterford, NY 12188-0189

Ref: New Consultation, USACE: West Point Audi Property Acquisition

Dear Mr. Mackay,

The United States Army Corps of Engineers, New York District (District) is preparing an Environmental Assessment on behalf of the United States Military Academy (USMA) at West Point for the acquisition of an 87.2 acre piece of private property that lies adjacent to the USMA at West Point. In accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations, 36 CFR 800, and the National Environmental Policy Act (NEPA) the District carried out a Phase 1A level cultural resources survey to identify cultural resources and historic properties eligible for, or listed on, the National Register of Historic Places (NRHP) within the Area of Potential Effect (APE) (Enclosure).

The District has defined the APE as the 87.2 acre parcel of land. The proposed undertaking consists of the acquisition of the parcel to act as a buffer from future development in the area. No development is proposed for the parcel that might include ground disturbing activities and there are no extant structures located within the parcel. The cultural resources survey found that the APE is sensitive for both Historic and Precontact archaeological resources. The enclosed report makes the recommendation that the acquisition of the Audi parcel will not adversely affect cultural resources or historic properties listed or eligible for listing on the NRHP, however, should the USMA decide at a future date to carry out ground disturbing activities within this parcel, a Phase 1B archaeological investigation will be required due to the area's high potential for archaeological remains.

Please review the enclosed report and provide comments to Carissa Scarpa, Project Archaeologist (carissa.a.scarpa@usace.army.mil or 917-790-8612).

Sincerely,

WEPLER.PETER.M.1228 Digitally signed by
WEPLER.PETER.M.1228647353
647353 Date: 2020.10.07 10:47:57 -04'00'

Peter Wepler
Chief, Environmental Analysis Branch

Enclosure



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK NEW YORK 10278-0090

October 7, 2020

Ms. Erin Thompson-Paden
Delaware Nation Historic Preservation Director
31064 SH 281
P.O. Box 825
Anadarko, OK 73005

Ref: New Consultation, USACE: West Point Audi Property Acquisition

Dear Ms. Thompson-Paden:

The United States Army Corps of Engineers, New York District (District) is preparing an Environmental Assessment on behalf of the United States Military Academy (USMA) at West Point for the acquisition of an 87.2 acre piece of private property that lies adjacent to the USMA at West Point. In accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations, 36 CFR 800, and the National Environmental Policy Act (NEPA) the District carried out a Phase 1A level cultural resources survey to identify cultural resources and historic properties eligible for, or listed on, the National Register of Historic Places (NRHP) within the Area of Potential Effect (APE) (Enclosure).

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Please review the enclosed report and provide comments to Carissa Scarpa, Project Archaeologist (carissa.a.scarpa@usace.army.mil or 917-790-8612).

Sincerely,

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Peter Wepler
Chief, Environmental Analysis Branch

Enclosure



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK NEW YORK 10278-0090

October 7, 2020

Ms. Susan Bachor
Historic Preservation Representative
Delaware Tribe of Indians
P.O. Box 64
Pocono Lake, PA 18347

Ref: New Consultation, USACE: West Point Audi Property Acquisition

Dear Ms. Bachor:

The United States Army Corps of Engineers, New York District (District) is preparing an Environmental Assessment on behalf of the United States Military Academy (USMA) at West Point for the acquisition of an 87.2 acre piece of private property that lies adjacent to the USMA at West Point. In accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations, 36 CFR 800, and the National Environmental Policy Act (NEPA) the District carried out a Phase 1A level cultural resources survey to identify cultural resources and historic properties eligible for, or listed on, the National Register of Historic Places (NRHP) within the Area of Potential Effect (APE) (Enclosure).

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Please review the enclosed report and provide comments to Carissa Scarpa, Project Archaeologist (carissa.a.scarpa@usace.army.mil or 917-790-8612).

Sincerely,

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Date: 2020.10.07 10:46:24 -04'00'

Peter Wepler
Chief, Environmental Analysis Branch

Enclosure



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK NEW YORK 10278-0090

October 7, 2020

Mr. Nathan Allison
Tribal Historic Preservation Officer
Stockbridge-Munsee Mohican
Tribal Historic Preservation Extension Office
65 1st Street
Troy, NY 12180

Ref: New Consultation, USACE: West Point Audi Property Acquisition

Dear Mr. Allison:

The United States Army Corps of Engineers, New York District (District) is preparing an Environmental Assessment on behalf of the United States Military Academy (USMA) at West Point for the acquisition of an 87.2 acre piece of private property that lies adjacent to the USMA at West Point. In accordance with Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations, 36 CFR 800, and the National Environmental Policy Act (NEPA) the District carried out a Phase 1A level cultural resources survey to identify cultural resources and historic properties eligible for, or listed on, the National Register of Historic Places (NRHP) within the Area of Potential Effect (APE) (Enclosure).

The District has defined the APE as the 87.2 acre parcel of land. The proposed undertaking consists of the acquisition of the parcel to act as a buffer from future development in the area. No development is proposed for the parcel that might include ground disturbing activities and there are no extant structures located within the parcel. The cultural resources survey found that the APE is sensitive for both Historic and Precontact archaeological resources. The enclosed report makes the recommendation that the acquisition of the Audi parcel will not adversely affect cultural resources or historic properties listed or eligible for listing on the NRHP, however, should the USMA decide at a future date to carry out ground disturbing activities within this parcel, a Phase 1B archaeological investigation will be required due to the area's high potential for archaeological remains.

Please review the enclosed report and provide comments to Carissa Scarpa, Project Archaeologist (carissa.a.scarpa@usace.army.mil or 917-790-8612).

Sincerely,

WEPPLER.PETER.
M.1228647353

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Date: 2020.10.07 10:49:08 -04'00'

Peter Wepler
Chief, Environmental Analysis Branch

Enclosure



The Delaware Nation
Historic Preservation Department
31064 State Highway 281
Anadarko, OK 73005
Phone (405)247-2448

November 12, 2020

To Whom It May Concern:

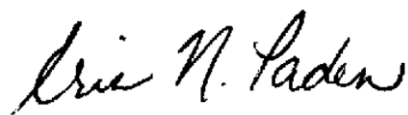
The Delaware Nation Historic Preservation Department received correspondence regarding the following referenced project(s).

Project(s): West Point Audi Property Acquisition

Our office is committed to protecting tribal heritage, culture and religion with particular concern for archaeological sites potentially containing burials and associated funerary objects.

The Lenape people occupied the area indicated in your letter prior to European contact until their eventual removal to our present locations. According to our files, the location of the proposed project does not endanger cultural, or religious sites of interest to the Delaware Nation. **Please continue with the project as planned** keeping in mind during construction should an archaeological site or artifacts inadvertently be uncovered, all construction and ground disturbing activities should immediately be halted until the appropriate state agencies, as well as this office, are notified (within 24 hours), and a proper archaeological assessment can be made.

Please note the Delaware Nation, the Delaware Tribe of Indians, and the Stockbridge Munsee Band of Mohican Indians are the only Federally Recognized Delaware/Lenape entities in the United States and consultation must be made only with designated staff of these three tribes. We appreciate your cooperation in contacting the Delaware Nation Historic Preservation Office to conduct proper Section 106 consultation. Should you have any questions, feel free to contact our offices at 405-247-2448 ext. 1403.



Erin Paden
Director of Historic Preservation
Delaware Nation
31064 State Highway 281
Anadarko, OK 73005
Ph. 405-247-2448 ext. 1403
epaden@delawarenation-nsn.gov

TM



**Parks, Recreation,
and Historic Preservation**

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

October 21, 2020

Carissa Scarpa
Project Archaeologist
U.S. Army Corps of Engineers
26 Federal Plaza
Planning Division (Room 17-421) c/o PSC Mail Center
New York, NY 10278

Re: USACE
Audi Property Acquisition - USAG West Point
520 Smith Clove Rd, Highland Mills, NY 10930
20PR06259

Dear Carissa Scarpa:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

SHPO has reviewed *Phase IA Cultural Resources Survey of the Audi Parcel for United States Military Academy, West Point, Orange County, New York* (USACE, April 2020) [20SR00535].

Based upon this review, the New York SHPO concurs that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking. This pertains only to the property acquisition. Should any development of the property be proposed in the future, we recommend further consultation with this office.

If you have any questions, please don't hesitate to contact me.

Sincerely,

Philip A. Perazio, Historic Preservation Program Analyst - Archaeology Unit
Phone: 518-268-2175
e-mail: philip.perazio@parks.ny.gov

via e-mail only

cc: Paul Hudson and Patrick Raley, USAG West Point

Division for Historic Preservation

P.O. Box 189, Waterford, New York 12188-0189 • (518) 237-8643 • parks.ny.gov