

**Defense Environmental Restoration Program
for
Formerly Used Defense Sites**

CERCLA Preliminary Assessment

For

**Camp O’Ryan
(Wethersfield Training Area)
Wethersfield, NY**

Property Number C02NY1132

November 2011

FINAL

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Prepared For

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Executive Summary

This report is a Preliminary Assessment (PA) of the former Camp O’Ryan/Wethersfield Training Area. It presents an historical records search and property inspection for the presence of Munitions and Explosives of Concern (MEC), Munitions Constituents (MC), Hazardous and Toxic Waste (HTW), Recovered Chemical Warfare Material (RCWM), Containerized Hazardous and Toxic Waste (CON/HTW) and Building Demolition/Debris Removal (BD/DR). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS). The investigation concluded there are PRP, MEC, MC, HTW, and BD/DR concerns on this property.

For a property to be considered eligible for inclusion into the FUDS program, both control over the property by the Secretary of Defense and the presence of an interest in the property by the United States must be demonstrated. However, since a recently conducted (September 2011) title search indicated that the properties which formed part of the Camp O’Ryan/Wethersfield Training Area were never owned by the U. S. Government, and the absence of documented evidence indicating control of the site by DOD, Camp O’Ryan cannot be recommended for inclusion into the Formerly Used Defense Sites (FUDS) program by the U. S. Army Corps of Engineers. Consequently, no further DOD action under the FUDS program is recommended.

The former Camp O’Ryan is located in the rural Town of Wethersfield in Wyoming County, New York, about 40 miles east of Buffalo. It is represented by District 26 Congressman Chris Lee and is in EPA region 2. The 370-acre site is mostly forest, though a 5-acre parcel including the former motor pool is used by a fireplace company.

Military use of the site began in 1949 when the New York Army National Guard (NY ARNG) enacted a lease for a “Target Range, Maneuver Area, Camp Site, and other Government purposes.” Known users of the site included the Army and Air National Guard, Army Reserves, Naval Militia, Reserve Officers Training Program (ROTC) Cadets, Federal Bureau of Investigation (FBI), NY State Police, and local police agencies. Confirmed munitions used included live and blank small arms, tear gas, slap flares, and practice bazooka rockets. Military training ended in 1994. The only MEC reported on the site since site closure was a belt of unfired linked blank small arms found by personnel from the New York State Department of Environmental Conservation (DEC). Reported MC includes an expended practice bazooka rocket found by a local citizen as well as similar rockets, expended small arms, and an expended slap flare found by the Rock Island District (CEMVR) Site Inspection (SI) team.

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**Defense Environmental Restoration Program
for Formerly Used Defense Sites**

CERCLA Preliminary Assessment for

**Camp O’Ryan
(Wethersfield Training Area)**

Property Number C02NY1132

1. Introduction:

Under the authority of the Defense Environmental Restoration Program (10 USC §§ 2701 et seq.), and its policies and procedures relating to Formerly Used Defense Sites (DERP-FUDS), including DoD Management Guidance for the DERP dated September 28, 2001, and Engineering Regulation (ER) 200-3-1, Environmental Quality, Formerly Used Defense Sites (FUDS) Program Policy, the US Army Corps of Engineers, Rock Island District (CEMVR) conducted a Preliminary Assessment (PA) at the former Camp O’Ryan in Wyoming County, NY.

The investigation focused on 370 acres in the rural Town of Wethersfield.

2. Previous Investigations:

2.1 1987 Real Estate Planning Report

2.1.1 In May of 1987, CENAN prepared a real estate planning and appraisal report on Camp O’Ryan, which had been inactive since 1974 (see Appendix G-26 for excerpts). The site was under consideration for reactivation as a local training area, and the report led to the facility being reused by the NY ARNG beginning in 1989. While technically not an investigation, this report provided useful background information as well as a map of the site depicting both small arms ranges (see Appendix I-3).

2.2 2008 Preliminary Assessment of Eligibility (PAE)

2.2.1 The US Army Corps of Engineers, New York District (CENAN) prepared a 22 December 2008 Findings and Determination of Eligibility (FDE) that qualified the property as FUDS eligible (see Appendix G-1). The FDE recommended a Hazardous and Toxic Waste (HTW) project based on the presence of lead in the firing butts.

2.2.2 The official FUDS name is Camp O’Ryan (Wethersfield Training Area) but historical documents reflect that it has also been called the Wethersfield Range, Wethersfield Target Range, Wethersfield Target Range and Maneuver Area, National Guard Training Facility, Wethersfield, and the North Java Range.

2.3 2009 NY State DEC Site Investigation Report

The New York State Department of Environmental Conservation (DEC) conducted a site visit in November of 2008 to sample the known-distance range for lead. Of the 14 samples taken at the backstop, all had high Total Lead values, and 11 had high Toxicity Characteristic Leaching Procedure (TCLP) values (see Appendix G-29 for excerpts from this 137-page report). At the time, DEC was unaware of the separate pistol range and did not sample there.

2.4 Other Miscellaneous Reports

2.4.1 DEC staff also provided a hydrogeologic investigation report on the Wyoming County Fire Training Area on Wethersfield Road about one mile east of Camp O’Ryan (end note B-66). While this report did not provide specific details on Camp O’Ryan, it was useful for area groundwater and geology information. Also shared by DEC was an August 2003 report on area flood mitigation plans (end note B-67).

2.5 March 2011 Site Investigation Report

2.5.1 The Woods Hole Group was contracted by the U. S. Army Corps of Engineers, New England District, to conduct surface and shallow groundwater sampling at Camp O’Ryan in October 2010 (see report, Appendix S). Sampling was conducted at a total of three surface water and 15 shallow groundwater sites. The samples were analyzed for chemical parameters by: EPA SW846 Method 8260B for the NYSDEC ASP Target Compound List (TCL) Volatile Organic Compounds (VOCs); EPA SW846 Method 8270C for the NYSDEC TCL Semivolatile Organic Compounds (SVOCs); EPA Method 332 for Perchlorate; EPA SW846 Method 6010B for Lead; and EPA Method 8330A for 14 Explosive Compounds. The field samples were non-detect for all chemical analyses with only a single detection of lead in one field duplicate sample. However, it should be noted that measurement quality objectives (MQOs) for sensitivity were not met for a number of the analytes discussed in this report. Some of the reporting limit/quantitation limits were orders of magnitude greater than preliminary screening levels (i.e., the thresholds used to determine whether contamination that may warrant further investigation is present in the aqueous samples that were collected). For example, the NYS Technical and Operational Guidance Series (TOGS) limit for aqueous 1,2-dibromomethane was 0.0006 micrograms per liter ($\mu\text{g/L}$) but the laboratory’s reporting limit (RL) for non-detects was 2 $\mu\text{g/L}$; the NYS TOGS limit for benzo(a)anthracene was 0.002 $\mu\text{g/L}$ but the RL was 5 $\mu\text{g/L}$; the NYS TOGS for surface water was 0.07 $\mu\text{g/L}$ for 2,6-DNT but the RL was 0.2 – 0.3 $\mu\text{g/L}$. As MQOs for sensitivity were not met, these analytical results *per se* do not defensibly demonstrate contamination was present at concentrations less than preliminary screening levels.

2.6 September 2011 Title Search

The CENAN Real Estate Division contracted with Esquire Title Services, L.L.C. for an 80 year Abstract of Title with judgments and liens (title search) on the properties which

comprised the former Camp O’Ryan (see Appendix G-30). In a 6 October 2011 Memorandum, Realty Specialist Erica Labeste notes (see Appendix G-31):

In reviewing the claims, at no point does the United States of America, the United States Department of the Army, the United States Department of Defense, or any other similar agency of the United States of America appear in title.

A FUDS is defined as real property that was under the jurisdiction of the Secretary of Defense and owned by, leased by, or otherwise possessed by the United States (including governmental entities that are the legal predecessors of the Department of Defense (DOD) or its components), and those real properties where accountability rested with DOD but where activities at the property were conducted by contractors, that were transferred from DOD control prior to 17 October 1986 (ER 200-3-1, para. 3-1.5.1.1 (May 2004)). Thus, FUDS property eligibility requires a showing of both control over the property by the Secretary of Defense and the presence of an interest in the property by the United States. As it appears, based on information readily available to date, that the United States never acquired an interest in the property, the properties which comprised the former Camp O’Ryan/Wethersfield Training Area cannot be recommended for inclusion into the FUDS program.

3. Property Description, Acreage, and Land Use:

3.1 Location

The site is located in rural Wyoming County about 40 miles east of Buffalo, NY. The property is in the town of Wethersfield, and the county seat is Warsaw. The approximate center of the property is located at UTM Zone 17,722,850 meters East and 4,728,859 meters North, North American Datum (NAD) of 1983 (NAD83). This is equivalent to the geographical coordinates of 42° 40' 47" North latitude and 78° 16' 48" West longitude. The site has two owners: The King Brothers (5 acres) and the Edward George estate (365 acres) (see plate 1 for a general location map).

3.2 Property

The property boundary is shown on all report plates, and the total area is 370 acres. Both leases (see Appendices G-2 and G-3) read 375 acres, but this figure appears to be incorrect.

3.3 Land Use and Ownership History

3.3.1 The land was leased from a private owner (Edward George) from 26 May 1949 until 30 June 1974 (see Appendix G-2). Camp O’Ryan was then inactive for about 15 years. A second lease (renewable up to 11 years) was signed on 1 December 1989 (see Appendix G-3). The Army National Guard (ARNG) terminated this second lease in August of 1994 (see Appendix G-4). Area law enforcement agencies used the known-distance range before site closure and possibly afterwards.

3.3.2 The 370 acre parcel now has two owners. The estate of Edward George owns 365 acres, while the King Brothers own five acres. The five acre parcel includes the former parking lot and motor pool, both of which are used for the King Brothers fireplace business. A tiny part of the King Brothers property extends on to the known-distance range, but not to the target butts. The 365 acres are unused forest with a few tall grass fields. Appendix I-5 depicts the land use types, Plate 5 shows specific parcels by owner, and Table 3.1 below summarizes site ownership.

Table 3.1 Current Land Owners And Usage				
FORMER USAGE	CURRENT OWNERS	CURRENT USAGE	ACRES	COMMENTS
Pistol range	Edward George Estate	Grass and scrub	4	See plate 5
Known- distance range	Edward George Estate	Grass	9.8	See plate 5
All other land	Edward George Estate (351.2 ac) and King Brothers (5 ac)	Grass, scrub, forest and commercial (5 ac)	356.2	See plate 5
		TOTAL	370	

3.3.3 Camp O’Ryan is in the 36-square mile Town of Wethersfield, with a 2000 population of 891. There are 16 towns in Wyoming County, which had a 2008 population of 41,652, a 4.1% loss from the 2000 figure of 43,824. County population density is 73.2 persons per square mile, and there are 14,906 households with an average of 2.62 persons per household. Seventy-five percent of adults over age 25 are high-school graduates, and 11% have a bachelor’s degree or higher. While agriculture dominates the county, the largest single employer is Attica State Prison (end note B-69).

3.4 Physical Property Characteristics

3.4.1 Wyoming County is underlain by bedrock of the Devonian age. Formations of the Upper Devonian age are at the higher elevations such as Camp O’Ryan, which ranges from 1800 to 1850 feet above sea level. The stratum of bedrock is almost horizontal but has a slight dip to the south of approximately 60 feet per mile. The bedrock below Camp O’Ryan consists of shales and siltstones of the Machias Formation of the Canadaway Group (end note B-58).

3.4.2 During the Wisconsin glacial stage of the Pleistocene epoch, Wyoming County was completely covered by ice. The Valley Heads and Binghamton drift sheets consist of glacial till, and the most common soil is Williamson channery silt loam, with some smaller areas of Volusia channery silt loam and Erie channery silt loam. The Williamson channery silt loam parent material is Glaciolacustrine or eolian deposits with a high content of silt and very fine sand. The silt loams are moderate well-drained, with a slope of three to 15%. The typical profile is Channery silt loam down to 17 inches, silt loam

down to 41 inches, and then stratified silt loam to very fine sand to clay down to 60 inches (end note B-58).

3.4.3 The 370-acre site is a mixture of grass, scrub, and forest. The area of the known-distance range is mostly flat and grassy with sparse, low scrub. Just south of the range is a forested ravine and creek bed that changes to overgrowth and scrub in the area of the pistol range. South and west of the pistol range is a former open area now covered with grass and scrub. The remainder of the site is mostly forest land.

3.4.4 The site is essentially level at the locations of the known-distance and pistol ranges, but there are gentle hills elsewhere. Most of the land drains into a small unnamed creek that flows from southeast to northwest through the property between both ranges. Just north of Wethersfield Road, this creek flows into Engine Creek, which in turn flows into the North Fork of Tonawanda Creek. This creek flows northward through Attica and then to Batavia. From Batavia, Tonawanda Creek continues a westerly path and eventually discharges into the Niagara River - and later into Lake Ontario - at the twin communities of Towns of Tonawanda and North Tonawanda. Tonawanda Creek forms the county boundary of Erie and Niagara Counties in this area and is part of the old Erie Canal.

3.4.5 There is some surface water on the site. An unnamed intermittent creek runs westward and separates the known-distance range from the pistol range, and there are at least two other similar creeks in the southern portion. There are a few small ponds on the southern part of the property.

3.4.6 Homes in the area get their drinking water from private, unregistered wells. There are about a dozen dwellings on the perimeter of the site, but none of those wells are registered. The nearest *registered* well, #WO868, is across Wethersfield Road about ¼ mile from the northern boundary and slightly further from the known-distance range.

Well depth is 275 feet, with rock depth at 238 feet. Groundwater depth is 50 feet, and yield is 10 gallons per minute (end note B-70). Based on the initial measured groundwater levels from registered wells north and south of the site, the general direction of groundwater flow is toward the northwest (see Appendix I-6). Registered wells within a four-mile radius are shown on plate 4.

Wyoming County public water supply is predominated by small water systems that rely on surface water impoundments both natural and manmade for water supplies. Several communities were indicated in the 1987 DEC water supply report to rely on springs that had a history of marginally adequate supply with significant fluctuations in output. One community in the county indicated that a potential source of coarse sands and gravels had been located that could be used in the future for water supply. This supply data indicated that the primary water source were local with the occasional more continuous glacial or fluvial aquifers of geographically limited extent.

An examination of the surface geologic mapping of the Wyoming County vicinity indicated that the Camp O’Ryan location is underlain by loamy till sourced in a ground

moraine. Ground moraine materials are typically poorly sorted deposits of clay to cobble size material with occasional locally developed but discontinuous aquifers. This hydro geologic information is consistent with the soils information and observed water supply resource data for the county. The hydrologic connection between the underlying Devonian and these surface sediments is interpreted to vary greatly but is typically poorly connected due to fines in the overlying ground moraine material (see Appendix I-4).

3.4.7 The region has a humid-continental climate. The short summers are moderately warm, and the average temperature during the warmest month (July) is less than 70 degrees. Winters are cold and cloudy with extended periods of stormy, unsettled weather, and winter precipitation is affected by Lake Erie 40 miles to the west. Temperatures below zero are likely on 10 to 20 days between December and March, and typical extreme cold ranges from -10 to -20 degrees. Annual precipitation is about 40 inches, and rainfall in the growing season (May through September) averages 15 to 18 inches. Snowfall is heavy, with a seasonal average of about 90 inches and frequent heavy lake-effect snow. A snow cover is generally present from mid-December to mid-March (end note B-58).

3.4.8 No wetland determinations are known to have been made at this property. The US Fish and Wildlife Service shows the Bald Eagle as delisted but still protected, and the NY DEC lists over 150 species of concern present in Wyoming County (see Appendices G-27 and G-28). No threatened or endangered species are known to be on the site.

3.4.9 There are no known cultural or historical properties within the 370-acre site boundary. However, a complete survey is recommended prior to any intrusive work.

4. Historical Property Summary:

4.1 Chronological Property Summary

On 26 May 1949, CENAN executed a lease with Edward George for the NY ANG to use his 375.72 acre farm for “Target Range, Maneuver Area, Camp Site, and other Government Purposes” (see appendix G-2). This lease ended June 30, 1974, and the site was apparently inactive for about 15 years. CENAN executed a second lease in 1989, and this was terminated in 1994 (see appendices G-3 and G-4). Records indicate that Army National Guard use ended on 1 November 1994 when the second lease was terminated, but no documents were found on closure procedures. Table 4-1 on the following page provides a summary of the chronological history.

Table 4.1 Summary of Chronological History		
Date	Action	Reference
26 May 1949	Owner signs 25 year lease with CENAN	Appendix G-2
1949-1974	Site used by NY ARNG, other military branches, and area police agencies	Appendices G-5 through G-25
7 June 1952	Site officially named Camp O’Ryan	Appendix G-9
30 June 1974	First lease ends	Appendix G-2
15 May 1987	CENAN-RE provides appraisal report for potential reactivation	Appendix G-26
1 Dec 1989	Owner signs second lease with CENAN for up to 11 years	Appendix G-3
19 Aug 1994	ARNG terminates 2 nd lease effective 1 Nov 1994	Appendix G-4

4.2 Military Operations

A 30 March 1949 memo to the Chief of Engineers described the planned facility for what would later become Camp O’Ryan (end note B-11):

It is requested that a directive be issued to the District Engineer to perform all engineering services necessary for the construction of a permanent 50 position, known-distance target range, 100 and 200 yard firing points, target house, double steel target carriers, latrine facilities at pits and line, mess hall, communications system, and tank and troop maneuver area...

Several 1949 memos indicated there were plans to construct a grass-surfaced landing strip for small Piper-Cub type airplanes operated by National Guard personnel (end notes B-8, B-15, and B-17). A May 1949 layout shows the proposed runway east of and downrange from the known-distance range (see Appendix I-2). There is no physical or visual evidence this runway was built, though a former National Guard soldier recalled small planes landing on steel matting (see Appendix J-1).

A September 1950 ARNG outdoor target range survey describes the known-distance range with 50 targets at 100 and 200 yards. The survey adds that “Range is operated as part of an entire installation, to include Camp Site, Maneuver Area, and Tank Training Course.” It also lists the NY ARNG units using the range (see Appendix G-13).

A 1951 budget document listed \$22,000 for a “tank training and driving course” at the site (end note B-23). This course is mentioned in a range survey and a newspaper article and shows in a contemporary photo (see Appendices G-7, G-9, and H-4). The course

supported the ARNG’s 27th Armored Division, based in Buffalo, but was no longer necessary when the unit converted to infantry in the early 1960s.

An 11 July 1950 newspaper article stated that others could use the range, including all armed forces in Western New York, the FBI, and State Police (see appendix G-6). A 14 September 1955 article confirmed that a Niagara Falls Air National Guard (ANG) unit also used the range (see Appendix G-12). A November 1956 memo included a list of Army units that trained at Camp O’Ryan (see appendix G-13). This list should not be considered thorough, as other units likely used the facility before and after 1956. A 10 November 1968 article added that users are “...units of the National Guard, Army Reserves, Naval Militia, Air Force, and New York State Police.” (see Appendix G-24).

A May 1953 funding memo listed an award of \$1,985 for the construction of two 8-inch thick concrete security rooms in the vehicle storage building (end notes B-24 and B-29). These rooms were most likely used to prevent the theft of small vehicle items such as radios, tools, or spare gas cans.

A November 1956 memo provided a cost estimate of \$130,000 for acquisition of an additional 1,000 acres to convert the site into a Trainfire Range with 16 firing points (end note B-32). However, there is no evidence this action ever took place.

4.2.1 Operations Involving Military Munitions

The firing of small arms at the known-distance range has been well-documented since training began at the site. Military rifles known to have been used at this range were the .30 caliber M1 carbine, the 30 caliber M1 Garand, the 7.62mm M14, and the 5.56mm M16 (see Appendices G-10, G-11, G-14, G-15, G-20, G-22, and H-8). This range is shown on two maps (see Appendices I-2 and I-3).

Less well-known is the pistol and machine gun range located across the ravine south of the known-distance range and shown on a 1987 map (see Appendix I-3). A project memorandum dated 23 April 1953 noted soil problems at the “machine gun range,” but did not state if the range was already in use (end note B-26). It is possible the author of memorandum confused the two ranges, as the known-distance range had severe drainage problems when it first opened:

Machine gun range: Grading, drainage, and erosion control. The erosion condition at this range is rapidly increasing and prompt action is required. Bids are now being solicited to accomplish this necessary work. Estimate: \$850.

The pistol range appears on aerial photos starting in 1954 (see Appendices H-3c, H-7c, and H-9C) and was located by the SI team (see Appendix M-7). Unlike the known-distance range with concrete walls supporting the movable target frames and 100 and 200-yard firing berms, the pistol range was a simple earthen berm with fixed targets nailed to poles stuck into the ground. The pistol range target berm and its surrounding safety berms were apparently constructed and improved by National Guard engineers on weekend training (see Appendix J-1).

The original lease stated one of the site uses would be a “maneuver area,” and a 1950 range survey also lists that use (see Appendices G-2 and G-7). A 5 July 1959 article (see Appendix G-15) elaborates by stating

The yearly training project enables guardsmen to tackle infantry problems on a vast tract, interspersed with small wooded areas. The operation includes expert instruction in....offensive and defensive tactics against an imaginary enemy foe.

Although not specified in any Camp O’Ryan documents, soldiers in training and maneuver areas often used munitions such as blank small arms, smoke grenades, simulators, and pyrotechnics. DEC found a belt of unfired blank small arms on the known-distance range, and the assessment team observed an expended slap flare south east of the pistol range (see Appendix M-10). A July 1959 photo shows troops on patrol (see Appendix H-6).

A 27 March 1968 article provided a clue to demolition training at Camp O’Ryan (see Appendix G-21). While trying to obtain a 40-acre training site on Grand Island, a Special Forces major stated that “We have our own area for demolition and firing range work at Camp O’Ryan in Wyoming County.” Common items for demolition training are blasting caps (electric and non-electric), safety fuse, fuze igniters, detonation cord, and small high-explosive demolition charges. The location of training on Camp O’Ryan was not provided. One former National Guardsman thought demolition training took place, while two others did not remember such training (see Appendices J-1, J-2, and J-5). Two additional articles identified the Special Forces unit as Company E, 18th Special Forces Group, NY ARNG, based in Niagara County (end notes B-48 and B-54).

Tear gas was also used on the site on at least two occasions. A September 1960 article described FBI and Niagara County Sheriff’s Department training with tear gas, and an August 1963 article described NY ARNG riot control training (see Appendices G-16, G-18, and G-19). The location of the training was not provided.

A 17 June 1952 article stated that “Camp O’Ryan will be used by the Western New York ARNG units for individual and crew-served weapons training....” (see Appendix G-9). Typical crew-served weapons of that era included heavy machine guns, mortars, and bazookas (rocket launchers). One retired National Guardsman vaguely remembered bazooka training and a practice hand grenade range (see Appendix J-1). Historical documents and newspaper articles did not provide specific information on crew-served weapons training, though the assessment team observed expended practice bazooka rounds at two different locations (see Appendices M-9, M-28, and M-29).

There is no evidence to support the storage or use of chemical warfare material (CWM) and no records were found of a clearance when military operations ended. However, a local resident stated that after site closure an individual removed much of the lead from the known-distance range target backstop (see appendix J-3).

4.2.2 Operations Involving HTW

A NY ARNG 1951 budgeting document included a table “Installation of Gasoline Tanks and Pumps” that listed eight facilities (end note B-23). Camp O’Ryan was not included, but it was on a list budgeting \$39,340 under “Motor Vehicle Storage Building.” That structure is still standing and is beneficially used by the current owner. There is no indication underground storage tanks (USTs) are present.

There was a tank driving course at the west end of the site, and the vehicles were stored in the still-present motor pool next to the known-distance range. It is possible that maintenance was performed on these vehicles.

4.2.3 Operations Involving CON/HTW

There is a possible cylinder burial site southwest of the pistol range. About the time of the Cuban Missile Crisis (Oct 1962), an individual observed multiple Army trucks each carrying three cylinders that were buried in the southwest part of Camp O’Ryan. He described the cylinders as about one foot in diameter and about five feet long, close to the size of a welding tank, and covered with tar. He was used to seeing soldiers at the Camp and sometimes saw guards posted, but he did not recall seeing any guards with the trucks. The eyewitness knew Ed Don George, the former owner, and recalled Mr. George telling him “What the Army buried they later dug up.”

The assessment team, consisting of personnel from the U. S. Army Corps of Engineers Rock Island District (CEMVR), New York District (CENAN) and North Atlantic Division (CENAD), visited the approximate burial location, along with DEC personnel, but was unable to confirm the burials. Within the general area is a small site with minimal vegetation (see Appendices H-7c, H-9c, H-10c, H-11c, and M-33), but the magnetometer did not detect any large metal objects.

4.3 Map Analysis

4.3.1 The earliest map found of the site was a 1925 topo that shows one structure which is most likely a farm house. There is no evidence of military use (see Appendix I-1).

4.3.2 A May 1949 site layout shows the known-distance range and a proposed landing strip that was apparently never built. The map does show a mess hall but no other structure (see Appendix I-2). It does not show the tank training course or the pistol range.

4.3.3 A circa 1987 site layout shows the known-distance range as a “rifle range” and structures near this range. It also shows the unimproved roads and a physical training (PT) area near Wethersfield Road east of the motor pool. The pistol range is depicted, and the site of the tank training course is labeled “tng area” (see Appendix I-3).

4.4 Aerial Photographic Interpretation

4.4.1 A 1939 aerial shows only farmland (see Appendix H-1). Some of the later aerials are of poor quality, but even the good-quality photos are unable to confirm rocket (bazooka) firing, demolition training, or cylinder burials.

4.4.2 A 1954 aerial posted on the internet depicts “possible cylinders...awaiting burial” on the eastern side of the known-distance range (see Appendix H-2a). However, other photos and the site visit verified these were actually furrows from the impact of thousand of bullets (see Appendices H-3b, H-8a, and M-25). This same 1954 aerial also shows “burial site A” just southwest of the known-distance range (see Appendix H-2a). Other aerials, interviews, a map, and the site visit determined this was the pistol range (see Appendices H-3c, H-7c, H-9c, H-10c, H-11c, H-12b, J-1, J-2, J-5, I-3, and M-7). Also, the 1954 aerial shows a “possible burn pit area” south of the known-distance range (see Appendix H-2a). The assessment team was unable to positively identify this feature (see Appendix M-8), though it may have been the site of demolition training mentioned in a 1968 article (see Appendix G-21). Also, it could have been the firing point for 3.5” rocket launchers (bazookas), as expended rockets were found east and north east of the feature. Another 1954 aerial shows a “motor pool and disassembly area” on the western edge of the site, but a circa 1955 surface photo identifies this as the tank training course (see Appendices H-2b, H-3a, H-4, M-21, and M-22).

4.4.3 A high-resolution 1954 aerial clearly shows the known-distance range, the pistol range with three berms, and the tank training course. East of the pistol range is a circular feature that could be a demolition pit (see Appendices H-3a, 3b, and 3c).

4.4.4 A 1963 aerial shows the known-distance range, the pistol range, and the tank training course. Only one north-south berm is visible at the pistol range, and to the east is a large disturbed area. There is a small disturbed area southwest of the pistol range at the approximate site of the possible cylinder burial (see Appendices H-7a, 7b, and 7c).

4.4.5 A 1974 aerial shows the known-distance range, the pistol range, and the tank training course. The one berm at the pistol range now runs east-west, and to the east are two circular features that could be demolition pits. A small disturbed area remains southwest of the pistol range at the site of possible cylinder burial. Unlike the 1954 and 1963 aerials, there is now a road/trail heading south toward the possible cylinder burial area (see Appendices H-9a, 9b, and 9c).

4.4.6 A poor-quality 1985 aerial shows the known-distance range, the pistol range, and traces of the tank training course. The pistol range again has three berms, and to the east no obvious features remain. A small disturbed area is still present southwest of the pistol range at the site of the possible cylinder burial (see Appendices H-10a, 10b, and 10c.)

4.4.7 A poor-quality 2005 aerial shows the known-distance range, but all other military features are now covered by vegetation. The tank course, pistol range, and possible demolition pits are not visible. Still visible is the small disturbed area southwest of the

pistol range at the site of the possible cylinder burial area (see Appendices H-11a, 11b, and 11c).

4.4.8 A circa 2007 color birds-eye view of the known-distance range shows all the features that were observed during the November 2009 site visit (see Appendix H-12a). A circa 2007 color birds-eye view of the pistol range shows how vegetation has covered the target berms (see Appendix H-12b).

5. Evaluation of Presence of Military Munitions and Technical Data:

5.1 General Evaluation of Conventional MEC Presence:

The property was evaluated to determine confirmed, potential, or no munitions or explosives of concern (MEC) presence.

Confirmed presence is based on physical or historical evidence of MEC. Verifiable historical record evidence is based on MEC items present on the property and authenticated by historical records, public safety agencies, bomb squads, newspaper articles, photographs, or maps. Physical evidence is based on direct witness observation. Additional field data are not needed to identify a confirmed site.

Potential MEC presence is based on a lack of confirmed MEC presence. Potential MEC presence is inferred from records, present day features, or non verifiable direct witness. Presence of munitions debris, i.e. MPPEH, that has not been certified as free of explosives is considered to be potential MEC presence.

No MEC presence is based on a lack of confirmed or potential ordnance presence. Additional field data are not needed to assess no ordnance presence sites.

Typical munitions items that may have been fired on the property are presented in Table 5.1 on the following page. Inclusion in this list does not necessarily indicate a current presence.

Table 5.1 Ammunition Used and Explosive/Chemical Fillers				
Item	Type and Model Number	Filler and Weight	Fuze	See Appendix
Cartridge, .30 caliber	Ball, M2	Projectile: Lead/97.5 gr. Propellant: Single Base or Double Base/50 gr. CMR-100 Single Base/45 gr. Primer: Lead styphnate/5.43 gr	None	F-1
Cartridge, caliber .45	Ball, M1911	Projectile: Lead/230 gr. Propellant: Single or Double Base/5 gr. Primer: Lead styphnate/.8 gr	None	F-1
Cartridge, 7.62mm	Ball, M2	Projectile: 150 gr, steel core, gilding metal jacket, lead/antimony filler Propellant: Double base, 46 gr Primer: Lead styphnate, 5 gr	None	F-1
Rocket 3.5”	Practice, M29	Motor: 12 gr M7 powder	M405 dummy	F-3
Igniter, fuze	M60	Primer mixture: .4 gr	None	F-7
Demolition block	M112	Composition C4, 1.5 lbs	None	F-7
Signal, illumination	M125A1	Motor: 39 gr black powder Pyrotechnic charge: Illuminant composition :	None	F-2
Smoke grenade	M18	Smoke composition: 19 oz	M201	F-5
Simulator, ground burst	M115A2	Photoflash powder, 2 oz	M3A1	F-6

5.2 General Evaluation of MC Presence:

The property was evaluated to determine confirmed, potential, or no munitions constituent (MC) presence.

Confirmed presence is based on physical or historical evidence of MC. Verifiable historical record evidence is based on MC items present on the property and authenticated by historical records, public safety agencies, bomb squads, newspaper articles, photographs, or maps. Physical evidence is based on direct witness observation. Additional field data are not needed to identify a confirmed site.

Potential MC presence is based on a lack of confirmed MC presence. Potential MC presence is inferred from records, present day features, or non verifiable direct witness.

Presence of munitions debris, i.e. MPPEH, that has not been certified as free of explosives is considered to be potential MC presence.

No MC presence is based on a lack of confirmed or potential ordnance presence. Additional field data are not needed to assess no ordnance presence sites.

Table 5.2 on the following page has been developed from Table 5.1 to describe the various MC. Inclusion in the table does not indicate a current presence.

Table 5.2 Munitions Constituents			
Explosive	Constituent	Chemical Formula	CASRN
Double Base Propellant (typical)	Nitrocellulose	$[C_6H_7O_2(NO_2)_m]_n$ $m=\{0,1,2,3\}$ $n>1500$	9004-70-0
	Nitroglycerin	$C_3H_5(NO_3)_3$	55-63-0
	Ethyl centralite	$CO(NC_2H_5C_6H_5)_2$	85-98-3
	Barium nitrate	$Ba(NO_2)_2$	10022-31-8
	Potassium nitrate	KNO_3	7757-79-1
	Carbon	C	7782-42-5
EC Blank Powder	Nitrocellulose	$[C_6H_7O_2(NO_2)_m]_n$ $m=\{0,1,2,3\}$ $n>1500$	9004-70-0
	Diphenylamine	$NH(C_6H_5)_2$	122-39-4
	Barium nitrate	$Ba(NO_2)_2$	10022-31-8
	Potassium nitrate	KNO_3	
Black Powder	Sodium Nitrate Black powder		
	73% Sodium Nitrate	$NaNO_3$	7631-99-4
	11% Sulfur		
	16% Charcoal	S	7704-34-9
		-	7440-44-0
	Lead	Pb	7439-92-1
	Antimony	Sb	7440-36-0
	Carbon	C	7440-44-0
	Copper	Cu	7440-50-8
	Iron	Fe	7439-89-6
	Manganese	Mn	7439-96-5
	Phosphorous	P	7723-14-0
	Silicon	Si	7440-21-3
	Sulphur	S	7704-34-9
Composition C-4	91% RDX 9% non-explosive plasticizers	$C_3H_6N_6O_6$	121-82-4
CS tear gas	Ortho-chlorobenzylidene malon-nitrile	$C_{10}H_5ClN_2$	2698-41-1

5.3 General Evaluation of Recoverable Chemical Warfare Material (RCWM) Presence

The property was evaluated to determine confirmed, potential, or no RCWM presence.

Confirmed RCWM presence is based on verifiable historical record evidence or direct witness of RCWM items with explosive components since site closure. Additional field data are not needed to identify a confirmed site. Verifiable historical record evidence is based on RCWM items actually seen on the property since site closure and authenticated by: historical records (archive records, Site Investigation Reports), local fire departments and law enforcement agencies, bombs squads, military Explosive Ordnance Disposal (EOD) Units, newspaper articles, photographs, or maps. Direct witness of RCWM items consists of the inspection team members and other credible witnesses as determined by the team leader (landowners, workers on site, soldiers who served there, etc.) verifying that they have seen munitions present on the surface or subsurface since site closure.

Potential RCWM presence is based on a lack of confirmed RCWM presence. Potential RCWM presence is inferred from records, present day features, non-verifiable direct witness, or indirect witness. Additional field data are needed to confirm potential RCWM sites. Inference from historical records is based on no RCWM items actually seen on the site since closure and would include documentation (records, aerial photographs, maps) indicating possible RCWM presence derived from standard procedures in production, storage, use, or disposal at that time and from records indicating known RCWM usage. Inference from present day features would be the indication of possible RCWM presence from such obvious features as target circles, depressions, mounds/backstops, open burning/open detonation (OB/OD) areas/pits, etc. Indirect witness would be people who have stated that they have heard of RCWM presence on the property (hearsay evidence).

No RCWM presence is based on a lack of confirmed or potential RCWM presence. Additional field data are not needed to assess uncontaminated sub-sites.

5.4 Property-Specific Locations

5.4.1 The four-acre parcel that was the former pistol and machine gun range. It has confirmed MC, potential MEC, and no RCWM. The confirmed MC presence is in the form of lead bullets fired into the target berms. Potential MEC is munitions hidden by the under growth.

5.4.2 The 10-acre site that was the known-distance range has confirmed MC, confirmed MEC and no RCWM. The MC presence is in the form of lead bullets fired into the target berms. The only confirmed MEC presence is here where DEC found an unfired belt of blank small arms ammunition.

5.4.3 All other land consists of 356 acres with confirmed MC, expended 3.5” practice bazooka rounds as munitions debris (MD), and no RCWM. Because of the lack of documentation and the use of Camp O’Ryan as a maneuver and training area, it is possible that MEC is present. The assessment team observed expended 3.5” practice

bazooka rounds in two separate locations as well as an expended slap flare, both MD. The assessment team was unable to determine the location(s) of the rocket range(s), and they may have been fired at other locations(s). The two physically separate sites where the expended rockets were found suggest two - and possibly more - areas where the bazookas were fired. Also, the lack of documentation and the use of Camp O’Ryan as a maneuver and training area lead to the possibility that MD, MC, and MEC are present at other locations. The possible demolition pits east of the pistol range may contain constituents from high-explosive demolition charges.

Table 5.3 summarizes the MC, MEC, and RCWM presence.

Table 5.3 MEC, MC and RCWM Presence				
FORMER USAGE	MEC	MC	RCWM	
Pistol range	None	Confirmed	None	-
Known distance range	Confirmed	Confirmed	None	-
All other land	Potential	Confirmed	None	-

6. Evaluation of HTW Presence and Areas:

6.1 General Evaluation of HTW Presence:

Confirmed HTW presence is limited to sites that have laboratory results of confirmed contamination or clearly visible evidence such as a sheen or leaking containers.

Potential HTW is a result of processes that may have contaminated the water or soil. Also, containers that might have leaked in the past or in the future are considered to be potential contamination.

6.2. Property-Specific Locations:

6.2.1 The 356 acres of all other land has potential HTW. The motor pool may have been the site of vehicle maintenance, and similar maintenance may have been performed at the tank training course. A petroleum, oil, and lubricants (POL) point was located in the southern part of this property, and the assessment team observed an empty oil drum nearby (see Appendices M-11 and M-12).

7. Evaluation of CON/HTW and BD/DR Presence;

7.1 Evaluation of CON/HTW Presence and Areas

7.1.1 All other land has two locations with a potential presence of containerized hazardous and toxic waste (CON/HTW). A POL point was observed in the southern part, and the assessment team observed an empty oil drum nearby (see Appendices M-11 and M-12). Also, there is a potential cylinder burial site southwest of the pistol range. The assessment team consisting of personnel from the U. S. Army Corps of Engineers Rock Island District (CEMVR), New York District (CENAN) and North Atlantic Division (CENAD) visited the approximate cylinder burial location, along with DEC personnel, but was unable to confirm the burials.

7.2 Evaluation of BD/DR

All other land has the sole potential of building demolition and debris removal (BD/DR) concern, which is a possible open septic tank in north of the known-distance range latrine as reported by a local farmer (see Appendix J-3). A 1987 USACE report noted the poor condition of this latrine (see Appendix G-26), suggesting it had not been beneficially used by the current owner. The assessment team visited the area of this latrine (see Appendix M-24) but did not observe the septic tank and could not determine if a hazard to the public is present.

8. Pathway and Environmental Hazard Assessment;

8.1 Ground water pathway

8.1.1 Hydrogeologic setting

According to the State of New York, a “Primary Aquifer” is a highly productive aquifer that is presently being utilized as source of water supply by major municipal water supply systems. Generally, primary aquifers are the permeable valley fill materials within a primary aquifer zone, as seen in paper maps or geographic information system (GIS) datasets. Confined aquifers that are predominantly recharged in land areas that are outside the aquifer area are not primary or principal aquifers. On the other hand, “Principal Aquifer” aquifers are known to be highly productive or whose geology suggests an abundant and high quality potential water supply, but which are not intensively used as sources of water supply by major municipal systems at the present time.

There are no primary aquifers in Wyoming County, and the principal aquifer is not used as a source of water supply. The nearest registered well to Camp O’Ryan is across Wethersfield Road about ¼ mile from the northern boundary and slightly further from the known-distance range. Depth to groundwater is 50 feet. The next closest well is on Sodom Road about ½ mile east of the boundary, and depth to ground water is 73 feet. All registered wells within four miles are shown on plate 4.

8.1.2 Ground water targets

Homes in the area get their drinking water from private, unregistered wells. There are about a dozen dwellings on the perimeter of the site, but none of those wells are registered. The nearest *registered* well, #WO868, is across Wethersfield Road about ¼ mile from the northern boundary and slightly further from the known-distance range. Well depth is 275 feet, with rock depth at 238 feet. Groundwater depth is 50 feet, and yield is 10 gallons per minute (end note B-71). The 13 registered wells with four miles are shown on plate 4, and groundwater flow is on Appendix I-6. It is estimated that 600 people live inside this four-mile radius in about 240 households.

8.1.3 Ground water conclusions

The potential exists that lead from the two small arms ranges may affect the groundwater.

8.2 Surface water pathway

8.2.1 Hydrologic setting

8.2.1.1 Most of the land drains into a small unnamed creek that flows from southeast to northwest through the property in between both ranges. Just north of Wethersfield Road, this creek flows into Engine Creek, which in turn flows into the North Fork of Tonawanda Creek. This creek flows northward through Attica and then to Batavia. From Batavia, Tonawanda Creek continues a westerly path and eventually discharges into the Niagara River (and then Lake Ontario) at the twin communities of Towns of Tonawanda and of North Tonawanda. Tonawanda Creek forms the county boundary of Erie and Niagara Counties in this area and is part of the old Erie Canal.

8.2.1.2 There is some surface water on the site. An unnamed intermittent creek runs westward and separates the known-distance range from the pistol range, and these are at least two other similar creeks in the southern portion. There are a few small ponds on the southern part of the property.

8.2.2 Surface water targets

There are no surface water withdrawals for drinking water purposes to 15 miles downstream of the Camp O’Ryan site. The Village of Attica, located downstream of the 15 mile extent, gets its water from reservoirs on Crow Creek, not Tonawanda Creek. There are no impoundments or reservoirs known to exist in this portion of Tonawanda Creek. The stream discharging from the site and Tonawanda Creek to 15 miles of the Camp O’Ryan site are classified as Class A by the State, indicating that the creek is designated safe as a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing.

8.2.3 Surface water conclusions

These are no surface water issues.

8.3 Soil exposure and air pathways

8.3.1 Physical conditions.

8.3.1.2 The Valley Heads and Binghamton drift sheets consist of glacial till, and the most common soil is Williamson channery silt loam, with some smaller areas of Volusia channery silt loam and Erie channery silt loam. The Williamson channery silt loam parent material is Glaciolacustrine or eolian deposits with a high content of silt and very fine sand. The silt loams are moderate well-drained, with a slope of three to 15%. The typical profile is Channery silt loam down to 17 inches, silt loam down to 41 inches, and then stratified silt loam to very fine sand to clay down to 60 inches (end note B-58).

8.3.1.3 The 370-acre site is a mixture of grass, scrub, and forest. The area of the known-distance range is mostly flat and grassy with sparse, low scrub. Just south of the range is a forested ravine and creek bed that changes to overgrowth and scrub in the area of the pistol range. South and west of the pistol range is a former open area now covered with grass and scrub. The remainder of the site is mostly forest land.

8.3.1.4 Lead at both small arms ranges is in the soil of the earthen berms. MD observed by the assessment team (a slap flare and several expended 3.5” rocket rounds) were on the surface partially obscured by leaves.

8.2.3 Soil and air targets

About five people work in the fireplace company that occupies the former motor pool. The transient population is typically hunters or all-terrain vehicle riders. Within 200 feet of the boundary are three dwellings with about 10 residents total.

8.3.3 Soil exposure and air pathway conclusions

On site human receptors are generally limited to the area of the former motor pool, which is now occupied by a fireplace company. Also, there are no known schools or daycare centers located within 200 feet of the Camp O’Ryan site. Potential receptors within a four mile radius are typical of a rural area and include farmland, residences and businesses associated with relatively small town centers and outlying areas, and recreational lands.

9. Summary and Conclusions;

9.1 Areas That May Warrant No Further Action by DOD

FUDS property eligibility requires a showing of both control over the property by the Secretary of Defense and the presence of an interest in the property by the United States. As it appears, based on information readily available to date, that the United States never acquired an interest in the property, the properties which comprised the former Camp O’Ryan/Wethersfield Training Area cannot be recommended for inclusion into the FUDS program. In addition, there is an absence of verifiable documented evidence of site control by DOD, so the site cannot be recommended for inclusion in the FUDS program. Consequently, no further DOD action under the FUDS program is recommended.

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix A

Reference Sources and Records Reviewed

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**Section I: Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
FEDERAL AGENCIES			
Department of Defense			
Secure STINET 8725 John J. Kingman Road Suite 0944 Fort Belvoir, VA 22060-6218	Computer Search (STINET and DTIC)	(703) 767-8228 (703) 427-8274	No site-specific information
Dept of Defense Explosives Safety Board (DDESB) 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search	(703) 325-1369	No site-specific information
Army HQ, USACE-Office of History Attn: CEHO-ZA 7701 Telegraph Rd Alexandria, VA 22310	Staff	(703) 428-6554	See section II
JMC Historical Office Attn: AMSJM-PA Bldg. 390 Rock Island, IL 61299	George Eaton	(309) 782-1450	No site-specific information
U.S. Army Military History Institute Reference Library 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	Louise Friend	(717) 245-3103 DSN 242-3103	No site-specific information
U.S. Army Military History Institute Archives 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	David Keough	(717) 245-3189 DSN 242-3189	No site-specific information
Rock Island Arsenal Museum ATTN: SIORI-CFS-M Building 60 Rock Island, IL 61299	Chris Leinicke	(309) 782-3518	No site-specific information

**Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
Army (continued)			
U.S. Army Military History Institute Photo Archives 22 Ashburn Drive Carlisle, PA 17013-5008	Mike Winey	(717) 245-3434 DSN 242-3434	No site-specific information
U.S. Army Ordnance Museum Bldg. 2601 Aberdeen PG, MD 21005	Dr. Atwater	(410) 278-3602	No site-specific information
U.S. Army SBCCOM Attn: AMSSB-SCI-H 5232 Fleming Rd Aberdeen PG, MD 21010	Kathleen Ciolfi	(410) 436-4430 DSN 584-4430	No evidence of past CWM usage or storage.
U.S. Army Center of Military History 103 Third Avenue Fort McNair Washington, DC 20319	Staff	(202) 685-2733 DSN 325-2733	See section II
North Atlantic Division ATTN: CENAD-PD-IIS-P 301 General Lee Ave Brooklyn, NY 11252	Alan Koppel, Env Services Program Manager	(718) 765-7113	NY ArNG maps and reports, site visit assistance.
New York District ATTN: CENAN-PP-E 26 Federal Plaza New York, NY 10278	Greg Goepfert, FUDS PM	(917) 790-8235	PAE, ROI, and reports, site visit assistance.
725 th Ord Co (EOD) 637 6 th St West Ft Drum, NY 13602	Lt O’Hara	(315) 772-5909	No record of EOD responses to this site
Air Force			
Air Force Historical Research Agency (AFHRA) Research Division 600 Chennault Circle Bldg 1405 Maxwell AFB, AL 36112	Joe Caver	(334) 953-5834 DSN 493-5834	No information, site was not used by USAF.

**Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
Navy			
Marine Corps Historical Center Washington Navy Yard 901 M St., SE Washington, DC 20374-5040	Staff	(202) 433-3447 DSN 288-3447	No information, site was not used by USMC.
Naval Construction Battalion Center (NCBC) Attn: Code 72 1100 23 rd Ave Port Hueneme, CA 93043	Brian Thompson	(805) 982-1124 DSN 551-1124	No information, site was not used by USN.
Naval Historical Center Washington Navy Yard Operational Archives 901 M St., SE Washington, DC 20374	Staff	(202) 433-2833 DSN 288-2833	No information, site was not used by USN.
U.S. Naval War College Archives 686 Cushing Rd Newport, RI 02841-1207	Dr. Evelyn Cherpack	(401) 841-2435	No information, site was not used by USN.

National Archives and Records Administration

NARA-Archives II (Cartographic & Architectural Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7040	See Appendix B, Section II, Parts A & B
NARA-Archives I (Old Military and Civil Textual Division) Pennsylvania Ave. & 7 th St., NW Washington, DC 20408	Staff	(202) 208-1903 (202) 208-0370 (202) 219-6273	See Appendix B, Section II, Parts A & B
NARA-Archives II (Motion Picture, Sound, and Video Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7060	See Appendix B, Section II, Parts A & B

**Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
National Archives and Records Administration			
NARA-Archives II (Still Picture Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-6660	See Appendix B, Section II, Parts A & B
NARA-Archives II (Textual Reference Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A & B
Washington National Records Center 4205 Suitland Rd Suitland, MD 20746-8001	Staff	(301) 457-7190	See Appendix B, Section II, Parts A & B
NARA-Northeast Region 201 Varick St New York, NY 10014	Richard Gelbke	(206) 526-6501	See Appendix B, Section II, Parts A & B
National Personnel Records Center (Mil Personnel Records) 9700 Page Ave. St. Louis, MO 63132-5100	Wilson Sullivan	(314) 538-9174	See Appendix B, Section II, Parts A & B
United States Congress			
Library of Congress Prints and Photographs Division Washington, DC 20536	Staff	(202) 707-6394	See Appendix B, Section II, Parts A & B
Library of Congress Geography And Map Division Washington, DC 20536	Staff	(202) 707-5522	See Appendix B, Section II, Parts A & B
Department of Agriculture			
NRCS 31 Duncan St Warsaw, NY 14569	Bethany Klein	(585) 786-5070	Soil survey and aerial photos

**Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
State and local government agencies			
NY State Historic Preservation Office PO Box 189 Waterford, NY 12188	Ruth Pierpont	(518) 237-8643 ext 3269	Prior to any intrusive remedial activities on this site, contact with the State Historical Preservation Officer (SHPO) is required to obtain information regarding all locations of archaeological, historical, and cultural resources.
NYS Dept of Environmental Conservation 270 Michigan Ave Buffalo, NY 14203	Martin Doster, Gene Melnyk	(716) 851-7220	Environmental reports, referrals, site visit assistance
NYS Dept of Military and Naval Affairs (DMNA) 61 Lake Ave Saratoga Springs, NY 12866	Larry Bishop, Michael Friess, Michael Aikey, Peter Jensen	(518) 581-5100	Interview, referrals, and historical documents
NYS Dept of Military and Naval Affairs (DMNA) Buffalo St Armory 184 Connecticut St Buffalo, NY 14213	LtCol Ed Walther	(716) 888-5700	Referrals
NYS Dept of Military and Naval Affairs (DMNA) Buffalo St Armory 184 Connecticut St Buffalo, NY 14213	SFC (ret) Peter Pilc	(716) 888-5797	Interview (J-2), referrals
Wyoming County Sheriff 151 North Main St Warsaw, NY 14569	Capt Linder	(585) 786-8989	Interview, referrals
Wyoming County Health Dept 5362 Mungers Mill Rd Silver Springs, NY 14550	Andy Meyer	(585) 786-8894	Groundwater info, referrals
Wyoming County Real Property Tax Services 143 North Main St Warsaw, NY 14569	Richard Dean	(585) 786-8828	Parcel ownership maps

**Reference Sources
(Government)**

Organizations	Name	Telephone	Nature of Support
State and local government agencies			
Wyoming County Historian 26 Linwood Ave Warsaw, NY 14569	Doris Bannister	(585) 786-8818	Newspaper articles, referrals
Wethersfield Town Supervisor 4362 Rt 78 Gainesville, NY 14066	John Copeland	(585) 332-0118	Referrals
Wethersfield Town Highway Superintendent 4362 Rt 78 Gainesville, NY 14066	William Parmarter	(585) 535-7547	Referrals
Perry Public Library 70 North Main St Perry, NY 14530	Penny Parker	(585) 237-2243	Referrals
Warsaw Library 130 North Main St Warsaw, NY 14569	Mary	(585) 786-5650	Newspaper articles and referrals
U of Rochester Library Special Collections 252 Elmwood Ave Rochester, NY 14627	Mary Huth	(585) 275-9338	DMNA annual reports

Reference Sources
Non-Government

Organization	Name	Telephone	Nature of Support
Concerned area citizen	Jonathan Vogelmann	(716) 824-0024	Interview (J-4), referrals, site visit assistance
Local resident	Wilson Parmerter	(585) 535-7547	Interview (J-3)
Retired National Guardsman	Don Barnes	(716) 677-0630	Interview (J-1)
Retired National Guardsman	John Williams	(716) 826-8670	Interview (J-5)

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SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

Camp O'Ryan/Wethersfield Training Area, NY

Also Researched Under: Wethersfield Rifle Range, NY; NY National Guard; Former New York United States National Guard Training Area; North Java, NY; Town of Wethersfield, NY; County of Wyoming, NY; Buffalo, NY: Wethersfield Training Area, NY; Naval Militia; Army Reserves; US AF; and 27th Infantry Division

NARA - ARCHIVES II - TEXTUAL BRANCH
COLLEGE PARK, MD

RG 77 (Records of the Office of the Chief of Engineers)

Entry 435: Accession 77 - 53A - 0325
Box 72

Correspondence Relative to Design and Construction, Grass Surfaced Aircraft Landing Strip at Wethersfield National Guard Target Range, New York, 17 - 27 June 1949

Entry 435: Accession 77 - 53A - 0325
Box 72

Correspondence Relative to Disposition of Inspection Reports, Wethersfield National Guard Target Range, 15 - 23 March 1950

Entry 435: Accession 77 - 53A - 0325
Box 72

Correspondence Relative to Kitchen Facility Construction, Wethersfield National Guard Target Range Near Buffalo, New York, 4 - 23 May 1949

Entry 435: Accession 77 - 53A - 0325
Box 72

Correspondence Relative to Request for Facility Design and Construction Authorization, Proposed Wethersfield National Guard Outdoor Target Range, New York, Including Range and Maneuver Area, 30 January - 30 March 1949

Entry 435: Accession 77 - 53A - 0325

Box 72

Correspondence Relative to Site Survey Obstacle, Proposed
Wethersfield National Guard Outdoor Target Range, Wyoming
County, New York, 22 - 27 April 1949

Entry 435: Accession 77 - 53A - 0325

Box 72

Design and Construction Directive, Wethersfield National
Guard Outdoor Target Range, New York, 19 April 1949

Entry 435: Accession 77 - 53A - 0325

Box 72

Disposition Form Relative to Contract Drawings and
Specifications, Wethersfield National Guard Target Range,
New York, 1 March 1950

Entry 435: Accession 77 - 53A - 0325

Box 72

Memoranda Relative to Construction of a Known - Distance
Target Range and Design of a Grass - Surfaced Landing
Strip, Wethersfield National Guard Target Range, New York,
14 - 20 March 1950

Entry 435: Accession 77 - 53A - 0325

Box 72

Memoranda Relative to Estimated Government Cost,
Wethersfield National Guard Outdoor Target Range, New York,
12 April 1949

Entry 435: Accession 77 - 53A - 0325

Box 72

Memoranda Relative to Grass Surfaced Aircraft Landing
Strip, Wethersfield National Guard Target Range, New York,
14 September 1949

Entry 435: Accession 77 - 53A - 0325

Box 72

Memorandum Relative to Effects of Severe Snow Storm at
Wethersfield National Guard Target Range, New York, 20
March 1950

Entry 435: Accession 77 - 53A - 0325

Box 72

Report of Inspection, Wethersfield National Guard Target
Range, New York, 18 May 1950

Entry 435: Accession 77 - 53A - 0325
Box 72
Report Relative to Facility and Landscaping Design and
Construction Deficiencies, Wethersfield National Guard
Target Range, New York, 8 May 1950

Entry 435: Accession 77 - 53A - 0325
Box 72
Telegram Relative to Intended Completion Date, Wethersfield
National Guard Outdoor Target Range, New York, 2 April 1949

Entry 435: Accession 77 - 53A - 0325
Box 72
Letter Relative to Design and Construction Contract Issues,
Wethersfield National Guard Target Range Near Buffalo, New
York, 7 March 1950

RG 168 (Records of the National Guard Bureau)

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1377
Table Relative to New York State National Guard Armory and
Non - Armory Training Requirements, Including Wethersfield
Target Range and Maneuver Area

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1483
Departments of the Army and the Air Force, National Guard
Bureau, Acting U.S. Property and Disbursing Officer for New
York, New York State Arsenal, Brooklyn, New York, Report on
Status of Construction Program, Project 1520 Funds,
Including Wethersfield Target Range and Maneuver Area, 1
May 1953

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1483
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1 April 1953

Entry 344: Army - NGB State Decimal File, 1946 - 1964
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Letter Relative to Additional Projects Proposed Under P1520 Funds, Including Wethersfield New York National Guard Target Range Machine Gun Range, 23 April 1953

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1483

Memorandum Relative to Non - Armory Construction Camp O'Ryan National Guard Target Range and Maneuver Area, New York, 30 June 1953

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Box 1483

New York State National Guard Long Range Non - Armory Project Data, Including Camp O'Ryan, Wethersfield, New York, 6 February 1953

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Box 1483

Table Relative to New York State National Guard Annual Construction Report, Project 1520 Funds, Fiscal Year 1953, Including Wethersfield Target Range and Maneuver Area, New York

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1484

Letter and Table Relative to FY 1957 Army National Guard Repairs and Utilities Program, Including Wethersfield National Guard Target Range and Maneuver Area, New York, 3 April 1956

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1484

Letter and Tables Relative to Projected Requirements for Non-Armory Construction (Training), Including Wethersfield National Guard Target Range and Maneuver Area, 20 November 1956

Entry 344: Army - NGB State Decimal File, 1946 - 1964
Box 1484

Letter Relative to Construction Contract Funding, Camp O'Ryan, New York Bath - Latrine and Utilities, 29 December 1953

RG 330 (Records of the Office of the Secretary of Defense)

Entry 11: Inventories of Military Real Property, 1954
- 1957 Box 80
Inventory of Military Real Property - Installation Summary,
National Guard Training Facility, Wethersfield,
Wethersfield, New York

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SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

Camp O’Ryan/Wethersfield Training Area, NY

Also Researched Under: Wethersfield Rifle Range, NY; NY National Guard; Former New York United States National Guard Training Area; North Java, NY; Town of Wethersfield, NY; County of Wyoming, NY; Buffalo, NY: Wethersfield Training Area, NY; Naval Militia; Army Reserves; US AF; and 27th Infantry Division

*CENTER OF MILITARY HISTORY – HISTORICAL RESEARCH
BRANCH
WASHINGTON, DC*

Historical Data Cards
Posts, Camps, and Stations File

*LIBRARY OF CONGRESS – GEOGRAPHY AND MAP DIVISION
WASHINGTON, DC*

Sanborn Map Collection

*LIBRARY OF CONGRESS – PRINTS AND PHOTOGRAPHS
DIVISION
WASHINGTON, DC*

Subject Catalogues
Videodisk Collection

*NARA – ARCHIVES I
WASHINGTON, DC*

RG 153 (Records of the Office of the Judge Advocate General)

Entry: Reservation File, 1800-1950

*NARA - ARCHIVES II - TEXTUAL BRANCH
COLLEGE PARK, MD*

RG 16 (Records of the Department of Agriculture)

Entry 17: General Correspondence of the Office of the
Secretary of Agriculture, 1906 - 1965

RG 30 (Bureau of Public Roads)

Entry 54A: Correspondence and Memoranda Relating to
National Defense Highway Construction
Entry 63: Records Relating to National Highway and
Defense Highway Programs, 1940--1955

RG 48 (Records of the Department of the Interior)

Entry 349B: Central Classified Files, 1937 - 1953

RG 49 (Records of the Bureau of Land Management)

Entry: Land Entry Papers

RG 57 (Records of the United States Geological Survey)

Entry 27: Correspondence and Related Records, 1906 -
1945

RG 71 (Records of the Bureau of Yards and Docks)

Entry 1001: Naval Property Case Files 1943 - 1958

RG 77 (Records of the Office of the Chief of Engineers)

Entry 19: Accession 82-0007
Entry 26: Accession 82 - 0004
Entry 41: Accession 72 - 4033
Entry 43: Accession 70 - 0395
Entry 51: Accession 77 - 0052
Entry 109: Accession 62 - 1472
Entry 136: Accession 73 - 0043
Entry 202: Accession 65 - 3184
Entry 214: Accession 63 - 1540
Entry 221: Accession 63 - 1555
Entry 242: Accession 63 - 1401
Entry 250: Accession 53 - 0309
Entry 255: Accession 53 - 0350

Entry 276: Accession 57 - 0374
Entry 280: Accession 57 - 0374
Entry 300: Accession 66 - 3182
Entry 423: Accession 72 - 3434
Entry 433: Accession A52-259
Entry 436: Accession 55-0325
Entry 437: Accession 56-0398
Entry 438: Accession 51 - 0059
Entry 444: Accession 55 - 0323
Entry 1011: Security Classified Subject Files, 1940-1945

RG 92 (Records of the Office of the Quartermaster General)

Entry 1892C: General Correspondence, Geographic File, 1949+1950
Entry 1892D: General Correspondence, Geographic File, 1951-1952
Entry 1892E: General Correspondence, Geographic File, 1953-1954

RG 95 (Records of the Forest Service)

Entry 48: General Correspondence, 1927 - 1951
Entry 79: Exchange, Purchase, and Donation Cases, 1946 - 1951

RG 111 (Records of the Office of the Chief Signal Officer)

Entry 1036B: Historical Files, 1908 - 1962

RG 156 (Records of the Office of the Chief of Ordnance)

Entry 1023A: Histories of Ordnance Installations and Activities, 1946-1954
Entry 1023B: Histories of Ordnance Installations and Activities, 1946-1954
Entry 1049: Unclassified General Correspondence, 1949 - 1954
Entry 1053: Unclassified General Correspondence, 1955 - 1961
Entry 1056: Secret General Correspondence, 1949 - 1954
Entry 1120: Military Construction, Army Project Files, 1955 - 1957

RG 159 (Records of the Office of the Inspector General)

Entry 29D: General Correspondence, 1939-1947
Entry 26E: Formerly Confidential General Correspondence,
1936-1947

RG 168 (Records of the National Guard)

Entry 348: State Guard State Files, 1941-1949

RG 175 (Records of the Chemical Warfare Service)

Entry 1A: Records of The Office of the Chief Chemical
Officer, 1946 - 1954
Entry 7: Records of the Office of the Chief Chemical
Officer, 1948 - 1960

RG 218 (Records of the Joint Chiefs of Staff)

Entry: Series 1942 - 1959 (Geographic File)

RG 269 (General Records of the General Services
Administration)

Entry 62: Real Property Disposal Case Files, 1945-
1953

RG 291 (Records of the Federal Property Resources
Service)

Entry 5: Real Property Disposal Case Files, 1962

RG 334 (Records of Interservice Agencies)

Entry 15: Armed forces Explosives Safety Board

RG 335 Records of the Office of the Secretary of the Army

Entry 60: Assistant Secretary of the Army
(Installations and Logistics), General Correspondence,
1963 - 1964

RG 336 (Records of the Office of the Chief of
Transportation)

Entry: Historical Program Files, 1940 - 1950

RG 337 (Records of Headquarters Army Ground Forces)

Entry 1: Army Field Forces. Headquarters, Chief of Staff, Combat Arms Advisory Group, Inspection Reports, 1948-1964

Entry 1A: Inspection Reports, 1951

RG 341 Records of Headquarters U.S. Air Force

Entry 494: Office of the Assistant Chief of Staff, Installations, Administrative Services Branch, Correspondence Re: Air Force Real Estate Facilities, 1948 - 1955

Entry 495: Office of the Assistant Chief of Staff, Installations, Office of the Director of Construction, Records Re: Policy on Construction Matters, 1950 - 1951

RG 407 (Records of the Adjutant General's Office)

Entry 360: 1903 - 1955 Army - AG Project Decimal File, Formerly Classified

Entry: 1940 - 1952 Army - AG Project Decimal File, Unclassified

RG 429 (Records of the Organizations in the Executive Office of the President)

Entry 12: Central Real Property Surveys

Entry 17: Records of the Federal Property Council Relating to Property and Installation Surveys, 1978 - 1984

*NARA - ARCHIVES II - CARTOGRAPHIC BRANCH
COLLEGE PARK, MD*

RG 18 (Records of the Army Air Corps)

RG 30 (Records of the Bureau of Public Roads)

RG 71 (Records of the Bureau of Yards and Docks)

RG 77 (Records of the Office of the Chief of Engineers)

RG 92 (Records of the Office of the Quartermaster General)

RG 145 (Records of the Agricultural Stabilization and Conservation Service)

RG 370 (Records of the National Oceanic and Atmospheric Administration)

RG 373 (Records of the Defense Intelligence Agency)

*NARA - ARCHIVES II - MOTION PICTURE, SOUND, AND
VIDEO BRANCH
COLLEGE PARK, MD*

RG 69 (Records of the Work Projects Administration)
RG 111 (Records of the Office of the Chief Signal Officer)
RG 200 (National Archives Gift Collection)
RG 335 (Records of the Office of the Secretary of the Army)

*NARA - ARCHIVES II - STILL PICTURES BRANCH
COLLEGE PARK, MD*

RG 18 (Records of the Army Air Force)
RG 30 (Records of the Bureau of Public Roads)
RG 77 (Records of the Office of the Chief of Engineers)
RG 92 (Records of the Office of the Quartermaster General)
RG 111 (Records of the Office of the Chief Signal Officer)
RG 165 (Records of the War Department General and Special
Staffs)

*WNRC - SUITLAND
SUITLAND, MD*

RG 77 (Records of the Office of the Chief of Engineers)

Accession 52 - 0434

*U.S. ARMY CORPS OF ENGINEERS - OFFICE OF HISTORY
ALEXANDRIA, VA*

Image Collections
Installation Books
Map Collection
Military Collection
Real Estate Records

SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

Camp O’Ryan (Wethersfield Training Area)

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SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

Camp O’Ryan (Wethersfield Training Area)

NARA, NORTHEAST REGION
NEW YORK, NY

RG 30, Records of the Bureau of Public Roads
All Entries
Nothing Found

RG 77, Records of the Office of the Chief of Engineers
All Entries
Nothing Found

RG 103, Records of the Farm Credit Administration
All Entries
Nothing Found

RG 121, Records of the Public Buildings Service
All Entries
Nothing Found

RG 156, Records of the Office of the Chief of Ordnance
All Entries
Nothing Found

RG 175, Records of the Chemical Warfare Service
All Entries
Nothing Found

RG 269, General Records of the General Services
Administration
All Entries
Nothing Found

RG 270, Records of the War Assets Administration
All Entries
Nothing Found

RG 291, Records of the Federal property resources Service
All Entries
Nothing Found

RG 336, Records of the Office of the Chief of
Transportation
All Entries
Nothing Found

RG 338, Records of U.S. Army Commands
All Entries
Nothing Found

*NARA, NATIONAL PERSONNEL RECORDS CENTER
ST. LOUIS, MO*

RG 338, Records of U.S. Army Commands
All Entries
Nothing Found

RG 342, Records of U.S. Air Force Commands, Activities, and
Organizations
All Entries
Nothing Found

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix B

End Notes

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

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Appendix B

End Notes

B-1. DERP-FUDS Findings and Determination of Eligibility (FDE) and Project Summary Sheet for Camp O’Ryan, CENAN, 17 February 2009 (G-1 and G-2).

B-2. Army Regulation 200-1, Environmental Quality, Environmental Protection and Enhancement, Department of the Army, Washington D.C., 23 April 1990.

B-3. ER 200-3-1, Environmental Quality - Formerly Used Defense Sites (FUDS) Program Policy, Hqs USACE, Washington, DC, 10 May 2004.

B-4. Guidance for Performing Preliminary Assessments Under CERCLA, Hazardous Site Evaluation Division, Office of Emergency and Remedial Response, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington D.C., EPA/540/G-91/013, Publication 9345.0-01A, September 1991.

B-5. Guidance for Performing Preliminary Assessments Under FUDS, Hqs USACE, 12 September 2005.

B-6. U.S. Army Corps of Engineers, Rock Island District, Main Site Safety Plan, CENCR-ED-DN, Rock Island, Illinois, 25 June 1992.

B-7. Abbreviated Site-Specific Safety and Health Plan (ASSHP) for Camp O’Ryan, Wethersfield, NY, Site No. C02NY1132, USACE Rock Island, 20 October 2009 (Appendix K).

Note: Documents B-8 through B-33 were obtained from National Archives and Records Administration (NARA) College Park, Archives II.

B-8. Series of memos, NY District Engineer to North Atlantic Division Engineer to Chief of Engineers, 17 thru 27 June 1949, subject: Authorization, After-the-Fact, Wethersfield Range - Engineering Services - Modification and Adjustment of Funds Job No. NOB-91, RG 77, Entry 435, Accession 77, Box 72.

B-9. Series of memos, National Guard Bureau to Chief of Engineers, 20 thru 25 March 1950, subject: Report of Inspection, Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-10. Series of memos, NY District Engineer to North Atlantic Division Engineer to Chief of Engineers, 4 thru 23 May 1949, subject: Central Procurement, Construction of Range Facilities - Wethersfield Range, Warsaw, New York, RG 77, Entry 435, Accession 77, Box 72.

B-11. Memo, US Army Special Staff to Chief of Engineers, 30 March 1949, subject: Proposed Outdoor Target Range and Maneuver Area, Western New York, RG 77, Entry 435, Accession 77, Box 72.

B-12. Message, NY Division Engineer to Chief of Engineers, 22 April 1949, subject: Rights of Entry for Site survey, RG 77, Entry 435, Accession 77, Box 72.

B-13. Memo, Chief of Engineers to NY Division Engineer, 19 April 1949, subject: Authorization - Wethersfield Range, New York - FY 1949 Funds for Job No. NGB-91, RG 77, Entry 435, Accession 77, Box 72.

B-14. Disposition Form, Chief of Engineers to National Guard Bureau, 1 March 1950, subject: Report of Rifle Range Inspection, Wethersfield, RG 77, Entry 435, Accession 77, Box 72.

B-15. Series of memos, NY District Engineer to North Atlantic Division Engineer to Chief of Engineers, 14 thru 27 March 1950, subject: Authorization - Wethersfield Range, New York, - Adjustment of Funds for Job No. NGB-91, Construction of a Known-Distance Target Range and Design of a Grass-Surfaced Landing Strip, RG 77, Entry 435, Accession 77, Box 72.

B-16. Series of memos, NY District Engineer to Chief of Engineers, 12 thru 14 April 1949, subject: Government Cost - Wethersfield Range, NY, RG 77, Entry 435, Accession 77, Box 72.

B-17. Series of memos, NY District Engineer to Division Engineer, 14 thru 21 September 1949, subject: Construction of Grass-Surfaced Airplane Landing Strip at Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-18. Memo, NY District Engineer to Division Engineer, 20 March 1950, subject: Report of Inspection, Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-19. Series of memos, NY District Engineer to North Atlantic Division Engineer to National Guard Bureau, 8 thru 24 May 1950, subject: Report of Inspection, Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-20. Memo, NY District Engineer to Chief of Engineers, 8 May 1950, subject: Report of Inspection, Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-21. Message, NY District Engineer to Division Engineer, 5 April 1949, subject: Wethersfield Range, NY, NGB-91, RG 77, Entry 435, Accession 77, Box 72.

B-22. Memo, NY District Engineer to Division Engineer, 7 March 1950, subject: Report of Inspection, Wethersfield Range, New York, RG 77, Entry 435, Accession 77, Box 72.

B-23. Listing, NY Army National Guard Construction FY1951 Project Funding, RG 168, Entry 344, Box 1377.

B-24. Memo, NY National Guard to National Guard Bureau, 1 May 1953, subject: Report on Status of Construction Program, Project 1520 Funds, RG 168, Entry 344, Box 1483.

B-25. Memo, NY National Guard to National Guard Bureau, 1 April 1953, subject: Report on Status of Construction Program, Project 1520 Funds, RG 168, Entry 344, Box 1483.

B-26. Memo, unknown to National Guard Bureau, 23 April 1953, subject: Additional Projects Proposed Under P1520 Funds Program, RG 168, Entry 344, Box 1483.

B-27. Memo, National Guard Bureau to NY National Guard, 30 June 1953, subject: Non-Armory Construction, RG 168, Entry 344, Box 1483.

B-28. Memo, NY National Guard to National Guard Bureau to, 30 June 1953, subject: Long Range Non-Armory Project Data, RG 168, Entry 344, Box 1483.

B-29. Listing, NY Army National Guard Construction FY1953, RG 168, Entry 344, Box 1483.

B-30. Memo, National Guard Bureau to NY National Guard, 29 December 1953, subject: P1120 Funds – Construction Contract, RG 168, Entry 344, Box 1484.

B-31. Memo, NY National Guard to National Guard Bureau, 3 April 1956, subject: Tentative R&U Program – FY57, RG 168, Entry 344, Box 1483.

B-32. Memo, NY National Guard to National Guard Bureau, 20 November 1956, subject: Projected Requirements for Non-Armory Construction (Training) Reports Control Symbol CSNGB CT-106, RG 168, Entry 344, Box 1483 (G-13).

B-33. Inventory of Military Real Property - Installation Summary, circa 1960, showing 376 acres under lease at an annual rate of \$1,400, RG 330, Entry 11, Box 18.

B-34. Karl F. Hausauer, Major General, N.Y. National Guard, Chief of Staff to the Governor. "State of New York Annual Report of the Chief of Staff to the Governor for the Division of Military and Naval Affairs." Excerpts from the years 1949, 1951, 1953, and 1954. Provided by the NYS DMNA Historian.

B-34a. Site maps and range information obtained from NYS DMNA archives by Alan Koppel, CENAD-PD-IIS-P, (G-3, G-4, G-7, I-2, and I-3).

B-35. "National Guard Has Rifle Range in Wethersfield," *Wyoming County Times*, 19 May 1949 (G-5).

B-36. Ross, Ernie. "Guardsmen Sharpen Their Aims at Range in Wyoming Hills," *Buffalo Evening News*, 11 July 1950 (G-6).

B-37. "Guard to Dedicate Camp O’Ryan," *New York Times*, 28 May 1952.

B-38. Dedication Planned for Camp O’Ryan," *Syracuse Post-Standard*, 28 May 1952 (G-8).

B-39. Wacker, Bud. “Gen O’Ryan Honored As Wethersfield Camp of Guard is Dedicated,” Buffalo *Evening News*, 17 June 1952 (G-9).

B-40. “Guard Rifleman Get High Scores in Firing Arms,” Niagara Falls *Gazette*, 18 May 1954 (G-10).

B-41. “85 Militiamen Fired Rifles for Records,” Dunkirk *Evening Observer*, 22 August 1955 (G-11).

B-42. “Falls Resident Promoted to Staff Sergeant Rank,” Niagara Falls *Gazette*, 14 September 1955 (G-12).

B-43. “Deputies Learn About Tear Gas,” Niagara Falls *Gazette*, 1 September 1960 (G-16).

B-44. “Naval Reservists Fire for Record at Rifle Range,” Dunkirk *Evening Observer*, 23 July 1958 (G-14).

B-45. “Wartime in Wyoming County,” Buffalo *Courier Express*, 5 July 1959 (G-15 and H-6).

B-46. “Company B Leaves for Camp O’Ryan,” Dunkirk *Evening Observer*, 9 August 1963 (G-17).

B-47. “Guardsmen Will Study Riot Control,” Niagara Falls *Gazette*, 14 August 1963 (G-18).

B-48. “(line missing)....in Riot Control,” Niagara Falls *Gazette*, 24 August 1963 (G-19).

B-48a. “Two Units to Take Part in Airborne Operation,” Niagara Falls *Gazette*, 3 November 1964 (mentions that Co E, 16th Special Forces Group, NY , attends weekend drills at Camp O’Ryan).

B-49. “Regimental Units to Qualify With New M14 Rifle,” Niagara Falls *Gazette*, 1 October 1965 (G-20).

B-50. “Major Hits Protests on State Park Use,” Niagara Falls *Gazette*, 27 March 1968 (G-21).

B-51. “800 Guards at Camp for Weapons Tests,” Buffalo *Courier Express*, 30 June 1968 (G-22, H-8a, and H-8b).

B-52. “Out of Camp O’Ryan near....”Syracuse *Herald-Journal*, 21 July 1968 (G-23) (awaiting article through inter-library loan).

B-53. “Camp O’Ryan,” Buffalo *Courier Express*, 10 November 1968 (G-24).

B-54. “NU Cadets to Train in Field,” Niagara Falls *Gazette*, 16 November 1968 (G-25).

B-54a. “Beret Unit Drills in Icy Cold,” Niagara Falls *Gazette*, 28 February 1972 (tells of a Det 1, Co E, 18th SFG helicopter assault at Camp O’Ryan).

B-55. 27th Armored Division history book, circa 1956 (H-5).

B-56. Circa 1955 ground photo of tank training course, from Jonathan Vogelmann via NYS DEC (H-4).

B-57. 1954 aerial photos with captions from http://en.wikipedia.org/wiki/Camp_O’Ryan (H-2a and H-2b).

B-58. US Department of Agriculture, Soil Survey of Wyoming County, New York, Soil Conservation Service, 1974.

B-59. 1954, 1963, 1974, 1980, and 2005 aerial photographs from Natural Resources Conservation Service, Warsaw, NY (H-7abc, H-9abc, H-10abc, and H-11abc).

B-60. High resolution November 1938 and November 1954 aerial photographs from Cartographic Section, NARA College Park, RG 145 (H-1 and H-3abc)

B-61. 2008 aerial photographs from <http://www.bing.com/maps/> (H-12a and H-12b).

B-62. Circa 2006 color aerial from www.Googleearth.com .

B-63. NY State Department of Environmental Conservation, List of Endangered, Threatened and Special Concern Fish & Wildlife Species (G-28).
<http://www.dec.ny.gov/animals/57844.html>

B-64. US Fish & Wildlife, List of Endangered, Threatened and Special Concern Fish & Wildlife Species (G-27).
<http://www.fws.gov/northeast/nyfo/es/S7.htm>

B-65. Site Investigation Report, Camp O’Ryan Rifle Range, NY State Department of Environmental Conservation, May 2009 (G-29).

B-66. Interim Remedial Measures and Supplemental Hydrogeologic Investigation Report of the Wyoming County Fire Training Area, Wethersfield, NY. URS Corporation, November 2004, revised January 2005.

B-67. Genesee & Wyoming Counties Joint Flood Mitigation Plan, LU Engineers, August 2003.

B-68. 1925 Arcade northeast topographical map (I-1), from
<http://historical.mytopo.com/townlist.cfm?stateabr=NY>

B-69. 2008 US Census data on Wyoming County from
<http://www.health.state.ny.us/statistics/chac/quickfacts/wyoming.pdf>

B-70. NYS Department of Environmental Conservation water well site
<http://www.dec.ny.gov/cfm/xtapps/WaterWell/index.cfm>

B-71. Maps of registered public and private wells.
<http://www.dec.ny.gov/lands/36064.html>
<http://waterdata.usgs.gov/ny/nwis/>

B-72. Technical Manual (TM) 9-855, Targets, Target Material, and Training Course Layouts, Department of the Army, November 1951 (F-8 and F-9).

B-73. USACE St Louis, “Shoulder-Launched Small Rocket Range,” Range Operations (RO) Report #5, January 2006 (F-10).

B-74. TM 43-0001-27, Army Ammunition Data Sheets, Small Caliber Ammunition, Department of the Army, April 1994 (F-1).

B-75. TM 43-0001-37, Army Ammunition Data Sheets, Military Pyrotechnics, Department of the Army, January 1994 (F-2 and F-6).

B-76. TM 43-0001-30, Army Ammunition Data Sheets, Rockets, Department of the Army, December 1981 (F-3).

B-77. TM 43-0001-29, Army Ammunition Data Sheets, Grenades, Department of the Army, June 1994 (F-4 and F-5).

B-78. TM 43-0001-38, Army Ammunition Data Sheets, Demolition Materials, Department of the Army, June 1992 (F-7).

B-79. Maps with surficial geology, land use, and groundwater elevations provided by Dr Ken Heim, CENAE-EP-GG (I-4, I-5, and I-6).

B-80. October 2010 Site Investigation Report, Camp O’Ryan, Woods Hole Group, Inc, March 2011 (Appendix S).

B-81. Esquire Title Services, LLC. Title Search, Former Camp O’Ryan Property, 23 September 2011 (G-30).

B-82. Memorandum, CENAN-RE-M to FUDS Team Leader Greg Goepfert, 6 October 2011, subject: Finding and Determination of Eligibility (FDE) for Camp O’Ryan, Wyoming County, Wethersfield, NY (G-31).

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix C

Abbreviations, Acronyms, and Brevity Codes

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Appendix C

Abbreviations, Acronyms, and Brevity Codes

ANG	Air National Guard
ARNG	Army National Guard
AR	Army Regulation
BD	Building Demolition or Base Detonating
BD/DR	Building Demolition/Debris Removal
BGS	Below Ground Surface
CAIS	Chemical Agent Identification Set
CEHNC	Corps of Engineers, Huntsville Center (formerly CEHND)
CELRB	Corps of Engineers, Buffalo District
CEMVR	Corps of Engineers, Rock Island District
CENAN	Corps of Engineers, New York District
CG	Commanding General
COE	Corps of Engineers
CON/HTRW	Containerized Hazardous, Toxic, and Radioactive Waste
CWM	Chemical Warfare Materiel
DA	Department of the Army
DEC	Department of Environmental Conservation (NY State)
DERP	Defense Environmental Restoration Program
DMM	Discarded Military Munitions
DMNA	Department of Military and Naval Affairs (NY State)
DoD	Department of Defense
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
FBI	Federal Bureau of Investigation
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Site
GSA	General Services Administration
HQS	Headquarters
HE	High explosive
HTW	Hazardous and Toxic Waste
INPR	Inventory Project Report
MC	Munitions Constituents
MEC	Munitions and Explosives of Concern
mm	Millimeter
MMRP	Military Munitions Response Program
MPPEH	Material Potentially Presenting an Explosive Hazard
MRA	Munitions Response Area
MRS	Munitions Response Site
NARA	National Archives and Records Administration
NAD	North American Datum
NDAI	No DoD Action Indicated (formerly NOFA)
NGB	National Guard Bureau
NOFA	No Further Action (now NDAI)
NPL	National Priority List
PAE	Preliminary Assessment of Eligibility

POL	Petroleum, oil, and lubricants
PRP	Potentially Responsible Party
PT	Physical Training
RCWM	Recoverable Chemical Warfare Material
RD/RA	Remedial Design/Remedial Action
RG	Record Group
RI/FS	Remedial Investigation, Feasibility Study
SAB	Same As Before
SI	Site Investigation
TM	Technical Manual
USAF	U.S. Air Force
USACE	U.S. Army Corps of Engineers
USATCES	U.S. Army Technical Center for Explosives Safety
USN	United States Navy
UST	Underground Storage Tank
UXO	Unexploded Ordnance
WAA	War Assets Administration
WD	War Department

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix D

Glossary

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Appendix D

Glossary

Discarded Military Munitions (DMM). Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations. (10 U.S.C. 2710(e)(2))

Material Potentially Presenting an Explosive Hazard (MPPEH). Material potentially containing explosives or munitions (e.g., munitions containers and packaging material; munitions debris remaining after munitions use, demilitarization, or disposal; and range-related debris); or material potentially contaminated with a high enough concentration of explosives such that the material presents an explosive hazard (e.g., equipment, drainage systems, holding tanks, piping, ventilation ducts) associated with munitions production, demilitarization or disposal operations. Excluded from MPPEH are munitions within DoD’s established munitions management system and other hazardous items that may present explosion hazards (e.g., gasoline cans, compressed gas cylinders) that are not munitions and are not intended for use as munitions.

Military Munitions. All ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the Department of Defense, the Coast Guard, the Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof. The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, except that the term does include non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitization operations under the Atomic Energy Act of 1954 (42 U.S.C. 2001 et seq.) have been completed. (10 U.S.C. 2710(e)(3)(A))

Munitions and Explosives of Concern (MEC). This term, which distinguishes specific categories of military munitions that may pose unique explosive safety risks means: (a) Unexploded Ordnance (UXO) as defined in 10 U.S.C. 2710(e)(9); (b) Discarded military munitions (DMM), as defined in 10 U.S.C. 2710(e)(2); or (c) Munitions constituents (e.g., TNT, RDX) present in high enough concentrations to pose an explosive hazard.

Munitions Constituents (MC). Any materials originating from unexploded ordnance, discarded military munitions, or other military munitions, including explosive and

nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions. (10 U.S.C. 2710(e)(4))

Munitions Debris. Remnants of munitions (e.g., penetrators, projectiles, shell cases, links, fins) remaining after munitions use, demilitarization, or disposal.

Munitions Response Area (MRA). Any area on a defense site that is known or suspected to contain UXO, DMM, or MC. Examples include former ranges and munitions burial areas. A munitions response area is composed of one or more munitions response sites.

Munitions Response Site (MRS). A discrete location within a MRA that is known to require a munitions response.

Munitions Response. Response actions, including investigation, removal and remedial actions to address the explosive safety, human health. Or environmental risks presented by unexploded ordnance (UXO), discarded military munitions, (DMM), or munitions constituents (MC).

Range-related Debris. Debris, other than munitions debris, collected from operational ranges or former ranges (e.g., targets).

Unexploded Ordnance (UXO). Military Munitions that: (a) Have been primed, fuzed, armed, or otherwise prepared for action; (b) Have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and (c) Remain unexploded either by malfunction, design, or any other cause. (U.S./C. 2710 (e)(9))

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix E

Preliminary Assessment Form

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Identification

State: CERCLIS Number:
NY

CERCLIS Discovery Date:

1. General Site Information

Name: Camp O'Ryan
Street Address: 3060 Wethersfield Road
Gainesville, NY 14066

City: State: Zip Code: County: Co. Cong.
Town of Wethersfield NY 14066 Wyoming Code: Dist:

Latitude and Longitude: Approximate Area of Site: Status of Site:
N42° 40' 54" W78° 16' 40" 370 acres
Active Not Specified
XX Inactive NA (GW plume, etc.)
_____ Square Ft.

2. Owner/Operator Information

Owner: Operator:
Multiple
Street Address: Street Address:
City: City:
State: Zip Code: Telephone: State: Zip Code: Telephone:
()

Type of Ownership: How Initially Identified:
Private County **Citizen Complaint** **Federal Program**
Federal Agency Municipal PA Petition
Name _____ Not State/Local Program
Specified RCRA/CERCLA Notification
State Other Other _____

3. Site Evaluator Information

Name of Evaluator: Agency/Organization: Date Prepared:
Ronald Plante USACE CEMVR-EC-TO 14 Jan 09
Street Address: PO Box 2004 City: Rock Island State: IL

Name of EPA or State Agency Contact: Street Address:
Gene Melnyk, NYS DEC 270 Michigan Ave
City: State: Telephone:
Buffalo NY (716) 851-7220

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation: CERCLIS Recommendation: Signature:
Yes Higher Priority SI
No Lower Priority SI
RCRA Name (typed):
Other _____
Date: _____ Date: _____ Position:

CERCLIS Number:

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site (check all that apply): Site Setting: Years of Operation:
Industrial **Agriculture** Urban Beginning Year 1949
Commercial Mining Other Federal Facility Suburban
Residential _____ **Rural** Ending Year 1994
Forest/Fields Other

Type of Site Operations (check all that apply): Waste Generated:

Manufacturing (must check subcategory) Retail **Onsite**
Lumber and Wood Products Recycling Offsite
Inorganic Chemicals Junk/Salvage Yard Onsite and Offsite
Plastic and/or Rubber Products Municipal Landfill
Paints, Varnishes Other Landfill
Industrial Organic Chemicals **DOD**
Agricultural Chemicals DOB
(e.g., pesticides, fertilizers) DOI
Miscellaneous Chemical Products Other Federal Facility _____
(e.g., adhesives, explosives, ink) RCRA
Primary Metals Treatment, Storage, or Disposal
Metal Coating, Plating, Engraving Large Quantity Generator
Metal Forging, Stamping Small Quantity Generator
Fabricated Structural Metal Products Subtitle D
Electronic Equipment Municipal
Other Manufacturing Industrial
Mining “Converter”
Metals “Protective Filer”
Coal “Non- or Late Filer”
Oil and Gas Not Specified
Non-metallic Minerals Other _____

Waste Deposition Authorized By:
Present Owner
Former Owner
Present & Former Owner
Unauthorized
Unknown

Waste Accessible to the Public:
Yes
No

Distance to Nearest **Dwelling,**
School, or Workplace:

A workplace is on site.

6. Waste Characteristics Information

Source Type: General Types of Waste (check all that apply)
Source Waste Quantity: Tier*:
(check all that apply) (include units)

Landfill	_____	_____	Metals	Pesticides/Herbicides
Surface Impoundment	_____	_____	Organics	Acids/Bases
Drums	_____	_____	Inorganics	Oily Waste
Tanks and Non-Drum Containers	_____	_____	Solvents	Municipal Waste
Chemical Waste Pile	_____	_____	Paints/Pigments	Mining Waste
Scrap Metal or Junk Pile	_____	_____	Lab/Hospital Waste	Explosives
Tailing Pile	_____	_____	Radioactive Waste	
Trash Pile (open dump)	_____	_____	Construction/Demolition Waste	
Land Treatment	_____	_____	Other _____	
Contaminated Ground Water Plume (unidentified source)	_____	_____		
Contaminated Surface Water/Sediment (unidentified source)	_____	_____		
Contaminated Soil				
Other _____	_____	_____		
No Sources				

Physical State of Waste as Deposited (check all that apply):

Solid	Sludge	Powder
Liquid	Gas	

* C = Constituent, W = Waste stream, V = Volume, A = Area

CERCLIS Number:

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles: Yes No	Is There a Suspected Release to Ground Water: Yes No	List Secondary Target Population Served by Ground Water Withdrawn From: 0 - ¼ Mile 60 > ¼ - ½ Mile 50 > ½ - 1 Mile 50 > 1 - 2 Miles 100 > 2 - 3 Miles 100 > 3 - 4 Miles 100 Total Within 4 Miles 460 (estimate)
Type of Drinking Water Wells Within 4 Miles (check all that Apply): Municipal Private None	Have Primary Target Drinking Water Wells Been Identified: Yes No If Yes, Enter Primary Target Population: Estimated 460	
Depth to Shallowest Aquifer: 275 feet	Nearest Designated Wellhead Protection Area: Underlies Site > 0 - 4 Miles None Within 4 Miles	
Karst Terrain/Aquifer Present: Yes No		

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (check all That apply): Stream River Pond Lake Bay Ocean Other _____	Shortest Overland Distance From Any Source to Surface Water: 150 Feet _____ Miles																
Is There a Suspected Release to Surface Water: Yes No	Site is Located in: Annual - 10 yr Floodplain > 10 yr - 100 yr Floodplain > 100 yr - 500 yr Floodplain > 500 hr Floodplain																
Drinking Water Intakes Located Along the Surface Water Migration Path: Yes No	List All Secondary Target Drinking Water Intakes: <table><thead><tr><th>Name</th><th>Water Body</th><th>Flow (cfs)</th><th>Population Served</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Name	Water Body	Flow (cfs)	Population Served	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Name	Water Body	Flow (cfs)	Population Served														
_____	_____	_____	_____														
_____	_____	_____	_____														
_____	_____	_____	_____														
Have Primary Target Drinking Water Intakes Been Identified: Yes No																	
If Yes, Enter Population Served by Primary Target Intakes: _____ People	Total within 15 Miles _____																
Fisheries Located Along the Surface Water Migration Path: Yes No	List All Secondary Target Fisheries: Water Body/Fishery Name _____																
Have Primary Target Fisheries Been Identified: Yes No	Flow (cfs) _____ _____ _____																

CERCLIS Number:

8. *Surface Water Pathway (continued)*

Wetlands Located Along the Surface Water Migration Path:

Yes
No

Other Sensitive Environments Located Along the Surface Water Migration Path:

Yes
No

Have Primary Target Wetlands Been Identified:

Yes
No

Have Primary Target Sensitive Environments Been Identified:

Yes
No

List Secondary Target Wetlands:

Water Body	Flow (cfs)	Frontage Miles
------------	------------	----------------

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

List Secondary Target Sensitive Environments:

Water Body	Flow (cfs)	Sensitive Environment Type
------------	------------	----------------------------

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

9. *Soil Exposure Pathway*

Are People Occupying Residences or
Attending School or Daycare on or
Within
200 Feet of Areas of Known or
Suspected
Contamination:

Yes
No

Number of Workers Onsite:

None
1 – 100
101 – 1,000
> 1,000

Have Terrestrial Sensitive Environments Been Identified on
Or Within 200 Feet of Areas of Known or Suspected
Contamination:

Yes
No

If Yes, List Each Terrestrial Sensitive Environment

If Yes, Enter Total Resident Population:

_____ People

10. *Air Pathway*

Is There a Suspected Release to Air:

Yes
No

Wetlands Located Within 4 Miles of the Site:

Yes
No

Enter Total Population on or Within:

Onsite	0
0 - ¼ Mile	60
> ¼ - ½ Mile	50
> ½ – 1 Mile	50
> 1 – 2 Miles	100
> 2 – 3 Miles	100
> 3 – 4 Miles	100
Total Within 4 Miles	460

Other Sensitive Environments Located Within 4 Miles of the Site:

Yes
No

List All Sensitive Environments Within ½ Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area (acres)
Onsite	_____
0 – ¼ Mile	_____
> ¼ - ½ Mile	_____

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix F

Ordinance Technical Data Sheets

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Appendix F

Ordnance Technical Data Sheets

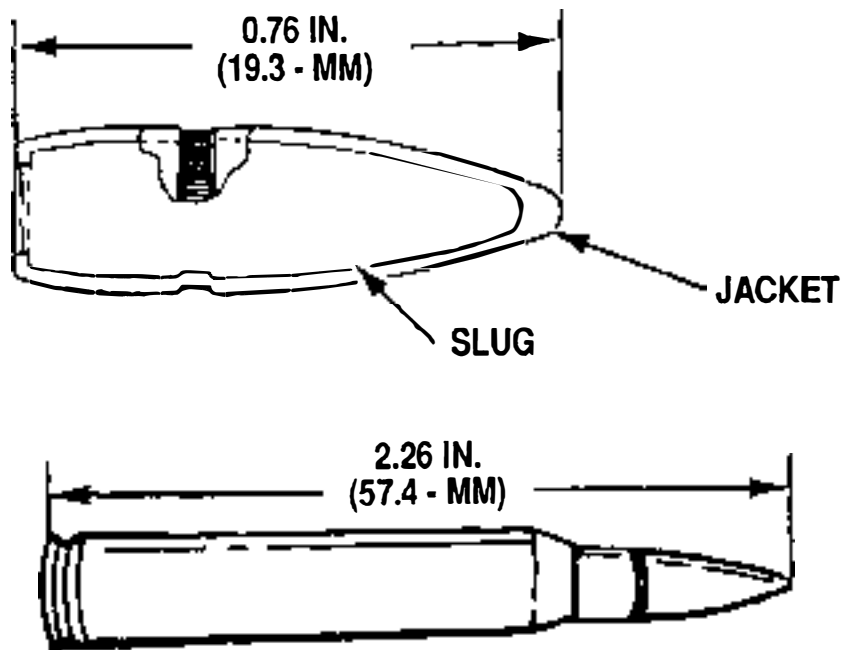
Table of Contents

F-1	Typical military small arms (B-74).
F-2	Typical slap flare (B-75).
F-3	M29 practice 3.5” bazooka rocket (B-76).
F-4	Typical tear gas grenade (B-77).
F-5	Typical smoke grenade (B-77).
F-6	Typical simulators (B-75).
F-7	Typical demolition items (B-78).
F-8	Range layout for known-distance range (B-72).
F-9	Range layout for pistol range (B-72).
F-10	Range layout for 3.5 inch rocket launcher (bazooka) (B-73).

Note: F-1, F-2, and F-3 are confirmed to have been used on the site. Several articles state that tear gas training took place, and F-4 is one of several possible items that may have been used. Items F-5 and F-6 were commonly used during field exercises and may have been used on the site. An article strongly suggested soldiers did demolition training, and F-7 shows typical demolition materials.

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CARTRIDGE, 5.56MM, BALL, M193



U
AR 5945

Type Classification:

STD - AMCTC 5143.

Use:

Rifles, 5.56mm, M16 and M16A1. The cartridge is intended for use against personnel and unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODAC.....1305-A066
UNO serial number0012
UNO proper shipping
nameCartridges for
 weapons, inert pro-
 jectile

Weight 182 gr
Length..... 2.26 in. (57.4 mm)
Tracer NA

Primer.....Percussion
 Fuze.....NA
 Explosive:
 TypeNA
 WeightNA
 Incendiary:
 Type -NA
 Weight.....NA
 Propellant:
 TypeWC 844 or
 CMR 170
 Weight28.5 or 26.5 gr
 Projectile:
 Weight.....56 gr

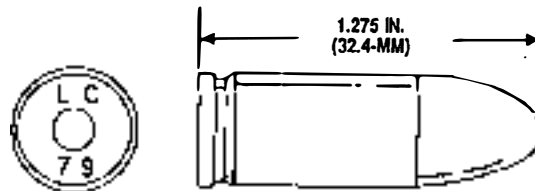
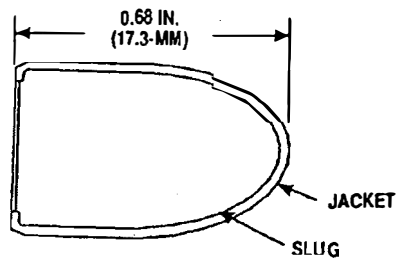
Performance:

Chamber pressure.....52,000 psi
Velocity3250 fps, 15 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/
SCG1.4S
Storage codeClass V

CARTRIDGE, CALIBER .45, BALL, M1911

U
AR 5921**Type Classification:**

STD - OTCM 36841.

Use:

Submachine Gun, Caliber .45, M3A1; and Pistol, Caliber .45, M1911A1. The cartridge is intended for use against personnel.

Description:

BALL Cartridge. The cartridge is identified by the plain bullet tip.

Tabulated Data:

DODAC _____ 1305-A475
 UNO serial number _____ 0012
 UNO proper shipping
 name _____ Cartridges for
 weapons, inert
 projectile
 Weight _____ 331 gr
 Length _____ 1.275 in. (32.4 mm)
 Tracer _____ NA
 Primer _____ Percussion
 Fuze _____ NA

Explosive:

Type _____ NA
 Weight _____ NA

Incendiary:

Type _____ NA
 Weight _____ NA

Propellant:

Type _____ SR 7970
 Weight _____ 5 gr

Performance:

Chamber pressure _____ 19,000 psi
 Velocity _____ 885 \pm 25 fps,
 25.5 ft from muzzle

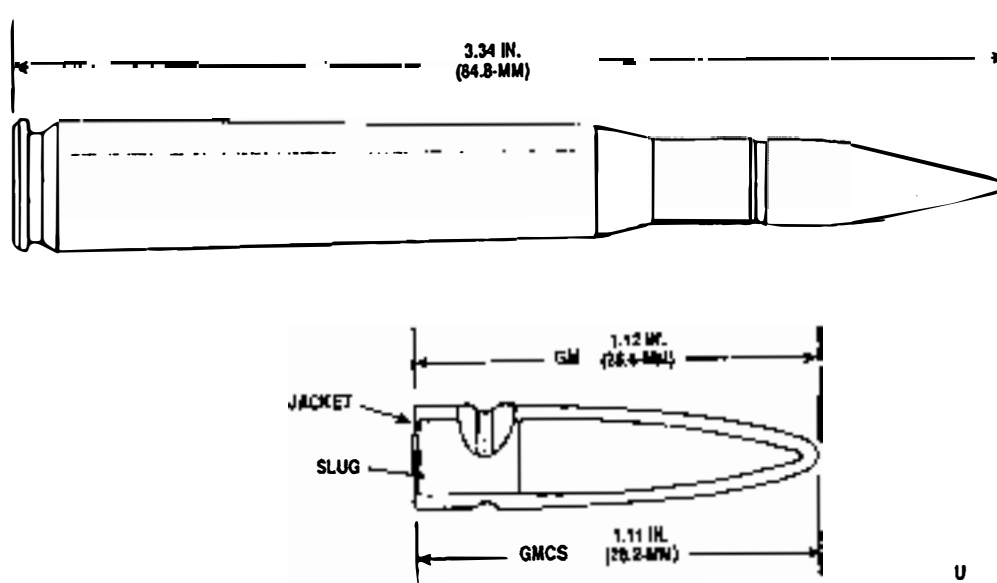
Shipping and Storage Data:

Quantity-distance class/
 SCG _____ 1.4S
 Storage code _____ Class V
 DOT shipping class _____ C
 DOT designation _____ SMALL ARMS
 AMMUNITION
 Drawing number _____ 6000503

References:

SB 700-20
 TM 9-1005-211-12
 TM 9-1005-229-12
 TM 9-1300-206

CARTRIDGE, CALIBER .30, BALL, M2

U
AR 5904**Type Classification:**

OBS - MSR 11756003.

Use:

Machine Guns, Caliber .30, M37, M1919A4 and M1919A6; and Rifle, Caliber .30, M1. The cartridge is intended for use against personnel or unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODAC.....	1305-A212
UNO serial number	0012
UNO proper shipping name	Cartridges for weapons, inert projectile
Weight	416 gr
Length.....	3.34 in. (84.8 mm)
Tracer	NA
Primer.....	Percussion
Fuze.....	NA

Explosive:

Type	NA
Weight.....	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	IMR 4895
Weight.....	50 gr

Performance:

Chamber pressure.....	50,000 psi
Velocity	2740 fps, 78 ft from muzzle

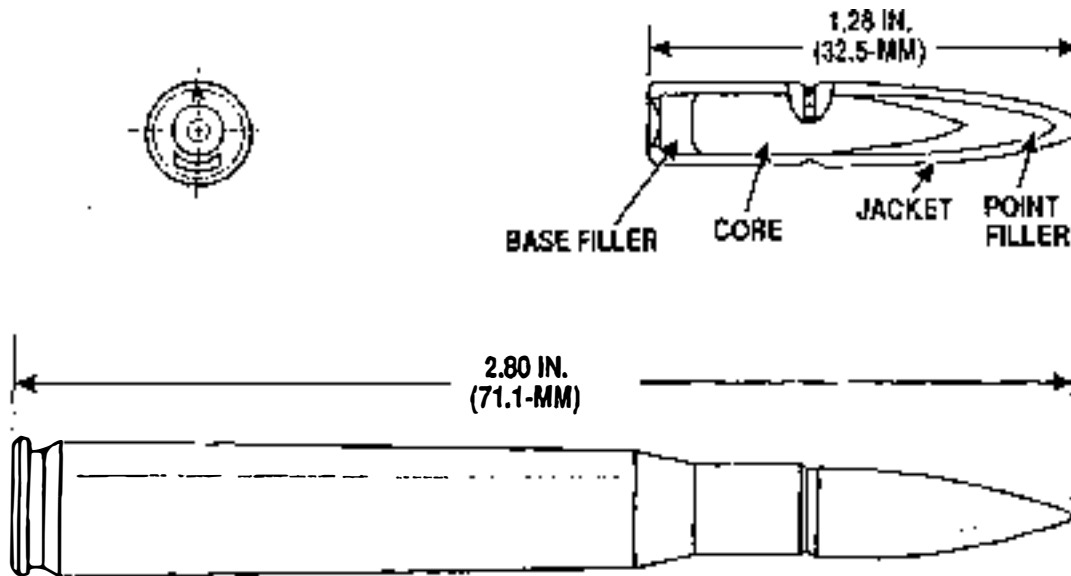
Shipping and Storage Data:

Quantity-distance class/SCG	1.4S
Storage code.....	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number.....	6137544

References:

SB 700-20
TM 9-1005-222-12P/1
TM 9-1300-206

CARTRIDGE, 7.62MM, BALL, M59

U
AR 5956**Type Classification:**

STD - OTCM 36841.

Use:

Machine Guns, 7.62mm, M60 and M219; and Rifle, 7.62mm, M14. The cartridge is intended for use against personnel and unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Tabulated Data:

DODAC 1305-A143
 UNO serial number 0012
 UNO proper shipping
 name Cartridges for
 weapons, inert pro-
 jectile
 Weight 393 gr
 Length 2.8 in. (71.1 mm)
 Tracer NA
 Primer NA

Fuze NA
 Explosive:
 Type NA
 Weight NA
 Incendiary:
 Type NA
 Weight NA
 Propellant:
 Type WC 846
 Weight 46 gr
 Projectile:
 Weight 150.5 gr

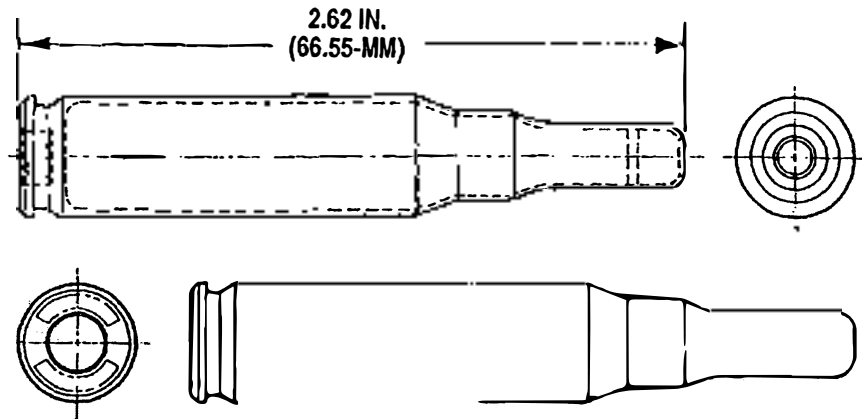
Performance:

Chamber pressure 50,000 psi
 Velocity 2750 fps, 78 ft from
 muzzle

Shipping and Storage Data:

Quantity-distance class/
 SCG 1.4S
 Storage code Class V
 DOT shipping class C
 DOT designation SMALL ARMS
 AMMUNITION
 Drawing number 7553702

CARTRIDGE, 7.62mm, BLANK, M82



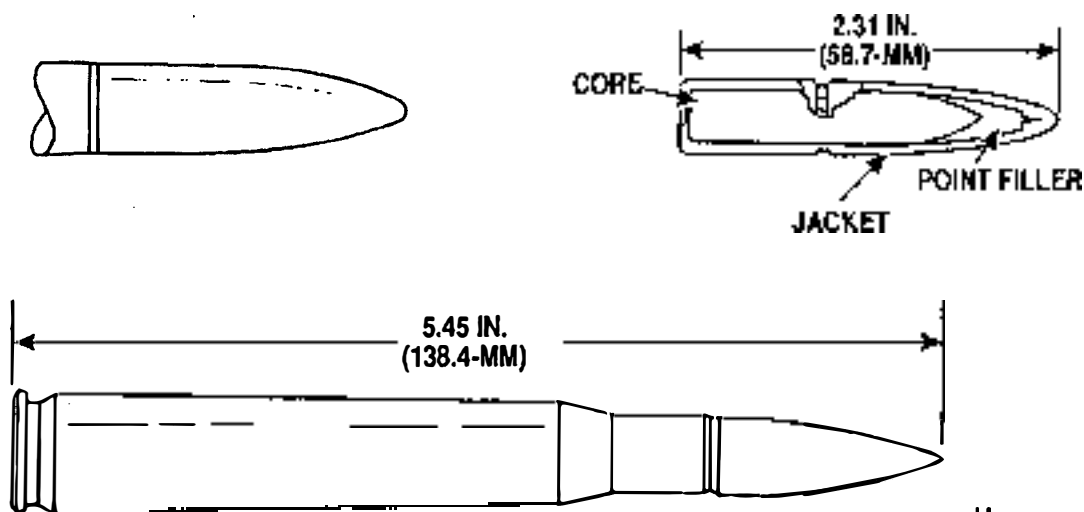
Use. Machine Guns, 7.62mm, M60, M219 and M240; and Rifle, 7.62mm, M14. The cartridge is used in rifles and machine guns equipped with blank firing attachments to simulate firing in training exercises and for saluting purposes.

Description. The cartridge is identified by its double tapered neck and the absence of a bullet..

Weight	235 grain
Length	2.62 inch
Tracer	NA
Primer	Percussion
Propellant	
Type	SR 8231
Weight	15 grain

Reference: TM 43-0001-27, *Army Ammunition Data Sheets Small Caliber Ammunition*, June 1981

CARTRIDGE, CALIBER .50, BALL, M2

U
AR 5932**Type Classification:**

STD - OTCM 36841.

Use:

Machine Guns, Caliber .50, M2 and M85. The cartridge is intended for use against personnel or unarmored targets.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet.

Tabulated Data:

DODAC -----1305-A552
 UNO serial number-----0339
 UNO proper shipping
 name -----Cartridges for
 weapons, inert pro-
 jectile
 Weight--- -----1813 gr
 Length-----5.45 in. (138.4 mm)
 Tracer-----NA
 Primer-----Percussion
 Fuze-----

Explosive:

Type ----- NA

Weight----- NA

Incendiary:

Type ----- NA

Weight----- NA

Propellant:

Type ----- WC 860

Weight----- 235 gr

Performance:

Chamber pressure----- 55,000 psi

Velocity----- 2810 fps, 78 ft from
muzzle**Shipping and Storage Data:****Quantity-distance class/**

SCG----- 1.4C

Storage code----- Class V

DOT shipping class----- C

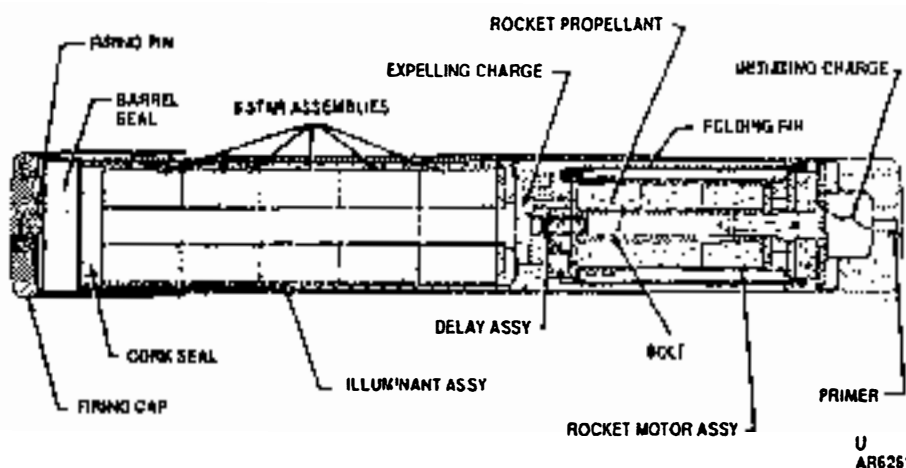
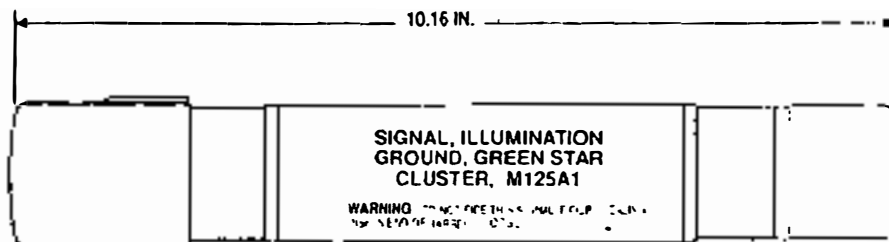
DOT designation----- SMALL ARMS
AMMUNITION

Drawing number----- 5577960

References:

SB 700-20
 TM 9-1005-213-10
 TM 9-1005-231-10
 TM 9-1300-206

**SIGNALS, ILLUMINATION, GROUND: CLUSTERS, GREEN STAR, M125A1;
RED STAR, M158; WHITE STAR, M159**



Type Classification:

M125A1 Std OTCM38047.
M158 Std OTCMM37833.
M159 Std OTCM137833.

Use:

For daytime or nighttime signaling.

Description:

Star cluster signals consist of five-star illuminant assemblies and a rocket motor propulsion assembly contained in a hand-held aluminum launching tube. The base of the launching tube contains a primer and an initiating charge. As shipped, the firing pin cap is assembled to the forward end and must be reversed for firing. Stabilizing fins on the tail assembly of rocket are folded parallel to the axis of the signal. A bolt, which also transfers the initiating charge flash to the propellant

extends into the center of the solid propellant which fills the propulsion assembly. The illuminant assembly is mounted on top of the propulsion assembly with a delay assembly and an expelling charge between. A label specifying firing procedures is secured to the body of the signal.

Functioning:

When the firing cap is placed on the initiator end in preparation for firing the signal, the firing pin is aligned with the primer. Striking the primer with the firing pin fires the initiating charge to ignite the rocket propellant. As the rocket emerges from the launching tube, the fins extend for flight stability. Before rocket motor burnout at 200 feet, the black powder expelling charge is ignited performing the two-fold function of expelling and igniting the 5-star illuminant assemblies. Burning time is 6 to 10 seconds with burnout occurring at 250 to 300 feet above the ground.

Difference Among Models:**Colors of signals:**

M125A1	Green
M158	Red
M159	White

Tabulated Data:

Weight loaded	1.3 lb
Length	10.16 in.
Diameter	1.67 in.
Method of actuation	Hand held rocket launching mechanism
Body material	Aluminum
Color	White label w/black markings. Each signal has a cork seal the color of the signal

Pyrotechnic charge:

Type	Illuminant composition
------------	------------------------

Weight:

M125A1	2.50 oz (71 grams)
M158	2.50 oz (71 grams)
M159	3.75 oz (107 grams)

Initiating charge:

Type	Black powder
Weight	0.725 grams

Propellant charge:

Type	Black powder composition (91% black powder, 9% calcium carbonate)
Weight	39.0 grams

Expelling charge:

Type	Black powder
Weight	39.0 grams

Primer	Percussion No. 68
--------------	-------------------

Performance:

Delay	5 sec
Burning time	6-10 sec

Candlepowder (min):

M125A1	9,000
M158	30,000
M159	30,000

*Packing	36 per box
----------------	------------

NSN's:

M125A1	1370-00-629-2335
M158	1370-00-756-2591
M159	1370-00-756-2588

***Packing Box:**

Weight	55 lb
Dimensions	15 x 13-7/16 x 13-9/32 in.
Cube	1.5 cu ft

*Packing	1 per inner plastic pack (PA142), 24 per metal container (M548)
----------------	---

NSN's:

M125A1	1370-00-341-6283
M158	1370-00-343-1966
M159	1370-00-345-3000

***Packing Container:**

Weight	53 lb
Dimensions	18-19/32 x 14-19/32 x 8-19/64 in.
Cube	1.3 cu ft

Packing Drawing	12900009
-----------------------	----------

*NOTE: See SC 1340/98 IL for complete packing data including NSN's.

Shipping and Storage Data:

Quantity-distance class	1.3
-------------------------------	-----

Storage compatibility

group	G
DOT shipping class ...	EXPLOSIVE B
DOT designation	SPECIAL FIREWORKS
	HANDLE CAREFULLY
	KEEP FIRE AWAY

DODAC:

M125A1	1370-L314
M158	1370-L306
M159	1370-L307

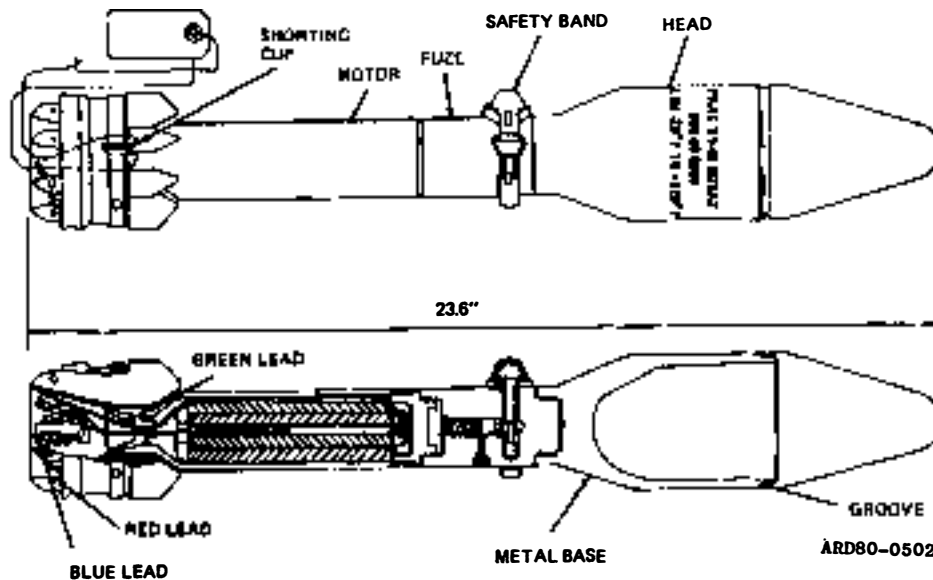
Drawing number:

M125A1	8797920
M158	8797320-1
M159	8797320-2

References:

AMC-P 700-3-5
 TM 9-1370-203-20&P
 TM 9-1370-203-34&P
 TM 9-1370-206-10

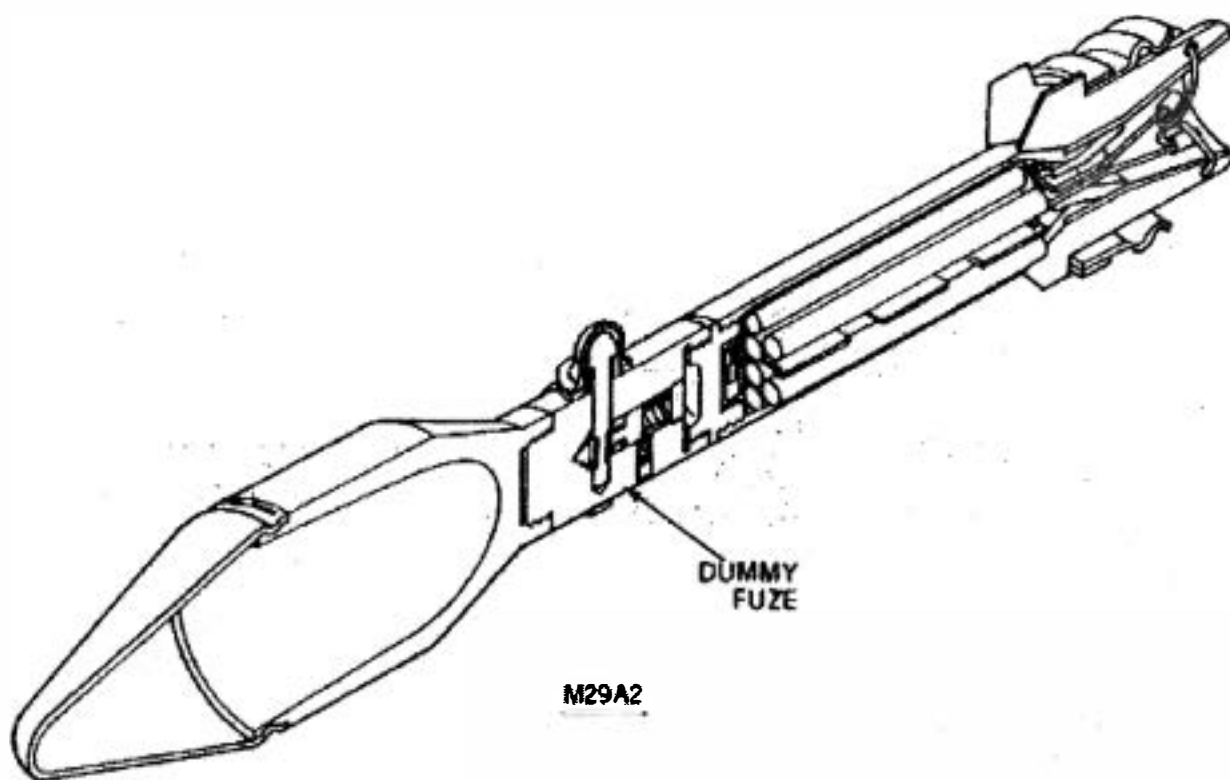
ROCKET, PRACTICE, 3.5-INCH, M29



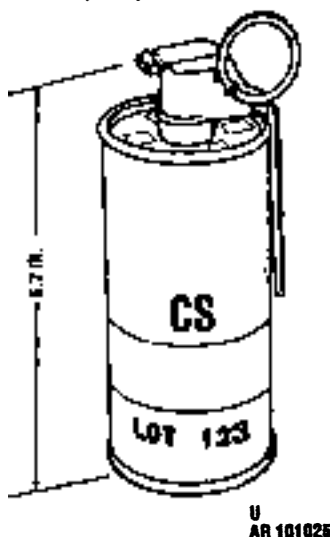
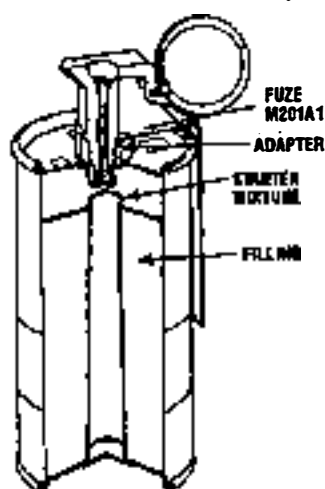
Description. This rocket generally is similar to the M28 High-explosive rocket except that it is provided with an inert bursting charge and the inert dummy fuze M405. The head is of light steel construction. It is cylindrical in shape, 3.5 inches in diameter, with a conically shaped ogive, and tapers to 2 inches in diameter at the rear. The rear of the head is threaded internally for attachment of dummy fuze M405. The rear of the fuze is threaded internally to receive the motor. The inert charge (plaster of paris and stearic acid) weighs 1.82 pounds. The motor consists of a body, closure, trap and spacer assembly, propellant, igniter with electric squib (cap) and leads, nozzle closure (blow out plug), and nozzle and fin assembly. Other characteristics are the same as for the M28.

Over-all Length	23.67 inch
Diameter	3.5 inch
Weight	8.61 pound
Filler	Plaster of paris/stearic acid
Propellant	M7 propellant powder
Propellant weight	12 grains
Igniter	M20

Reference: TM 9-1950, *Rockets*, July 1950, TM 43-0001-30, *Army Data Sheets, Rockets, Rockets Systems, Rocket fuzes, Rocket Motors*, December 1981



GRENADE, HAND: RIOT, CS, M73A

**Type Classification:**

Std. LCC-A MSR 08746046

Use:

The M7A3 grenade is used to control counterinsurgencies and for other tactical missions. It is a burning type riot control grenade and may be used to simulate casualty agents during training.

Description:

The M7A3 is a CS filled burning type grenade. CS has a powerful lachrymal effect and is irritating to the upper respiratory passages causing coughing, difficulty in breathing and chest tightness. Heavy concentrations will cause nausea and vomiting as well. The onset of incapacitation is 15 to 30 seconds and duration is less than 10 minutes after personnel are removed to fresh air.

The grenade body is a cylinder of thin sheet metal. The filler is compressed into the grenade body with a starter mix.

Hand grenade fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mixture pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread.

Safety clips are not required with these grenades.

Tabulated Data:**Grenade (with fuze):**

Model(s)	M7A3
Body	Sheet metal
Weight	15-1/2 oz
Length (max)	5.7 in.
Diameter	2.5 in.
Color	Gray w/ red band; red markings
Packing	1 per container; 16 per packing box

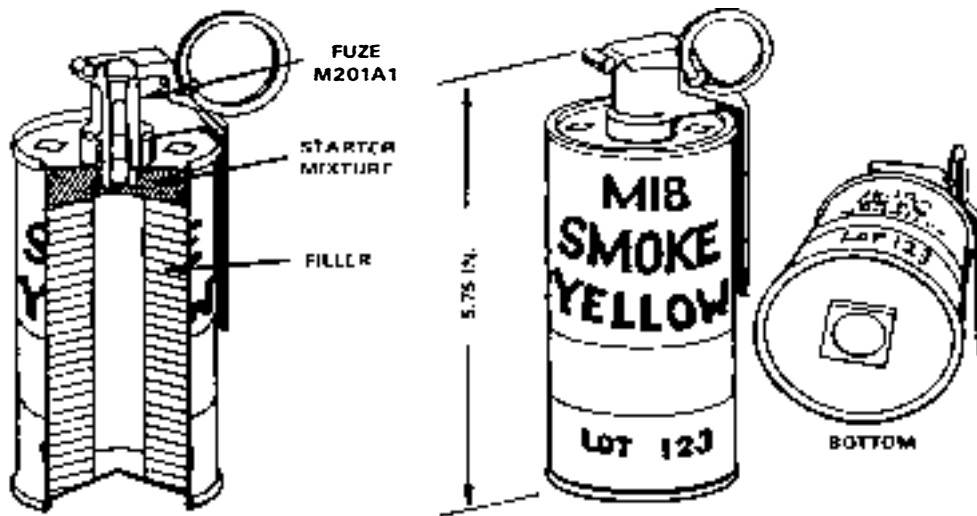
Filler:

Type	CS
Weight	7.35 oz burning mixture and 4.5 oz pelletized CS agent

Fuze:

Model(s)	M201A1
Type	Pyrotechnic delay-igniting
Primer	M39A1
Ignition mixture	Iron oxide, titanium, zirconium
Delay time	0.7 - 2 seconds
Weight	1.5 oz
Length	3.9 in.
Color	Gray or olive drab, w/black markings
Packing	Not issued separately
Safety device	Pull ring and safety pin

GRENADE, HAND, SMOKE, M18, WITH FUZE, M201, M201A1



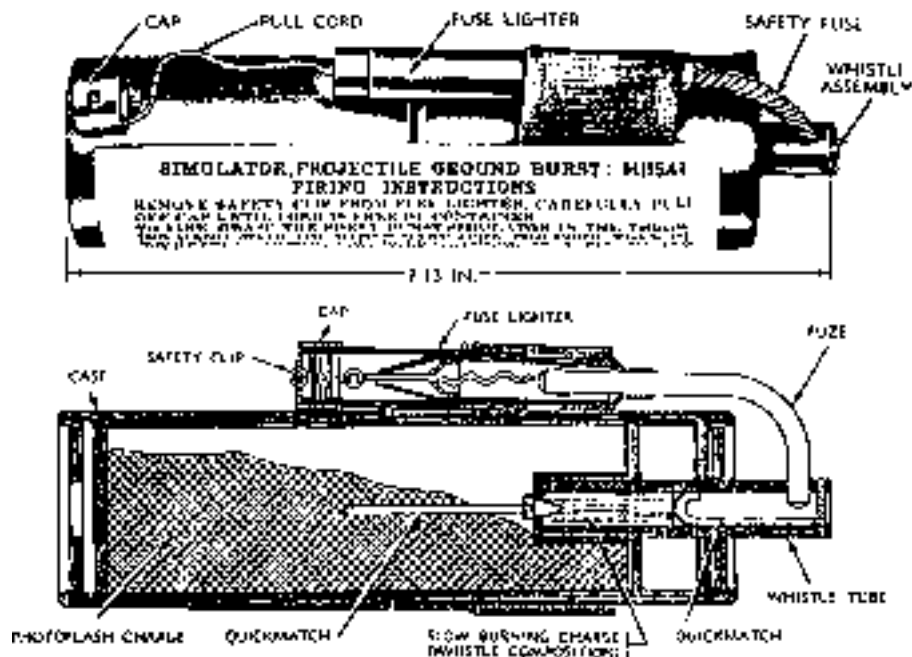
Description. These grenades may be filled with any one of seven smoke colors; red, orange, blue, green, black, violet, and yellow. The grenade body is of thin sheet metal and filled with a smoke composition. Emission ports are covered with small squares of adhesive tape and vary in quantity and location depending on the year of manufacturing.

The Fuze M201 and M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first fire mixture, pyrotechnic delay column, and ignition mixture

Length	5.75 inches
Diameter	2.5 inches
Color	Blue gray or light green with black markings
Weight	19 ounces
Filler	Smoke composition
Weight of filler	11.5 ounces
Fuze	M201A1

Reference: TM 43-0001-29 w/change 11, *Ammunition Data Sheets for Grenades*, October 1977;
NAVSEA OP 1664, *U.S. Explosive Ordnance*, May 47

SIMULATOR, PROJECTILE, GROUND BURST, M115A2

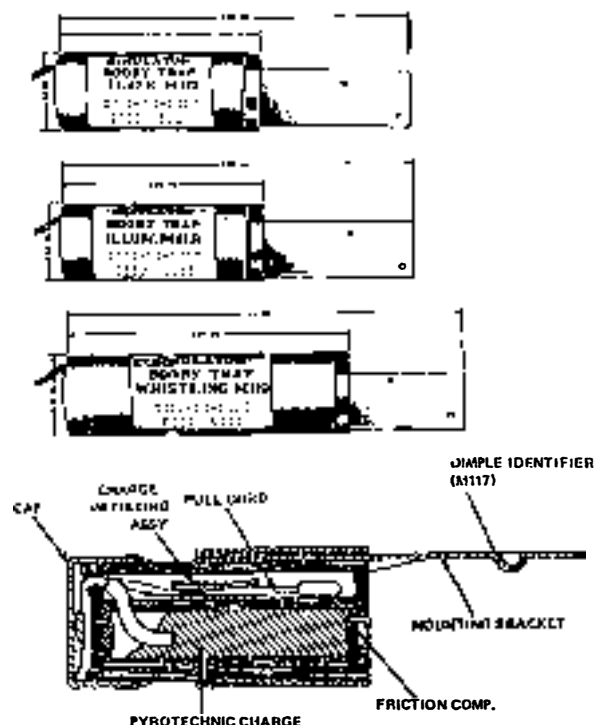


General. This simulator is a pyrotechnic device used to provide battle noises and effects during troop maneuvers. The simulator is ignited by the action of time blasting fuse igniter M3A1. Following a delay of 6 to 10 seconds after ignition, the simulator produces a high pitch whistle that lasts two to four seconds. After a fraction of a second, the simulator explodes, producing a flash and loud report.

Description. The body of the simulator consists of a cylindrical paper tube (closed at both ends) containing approximately 2 ounces of photoflash powder and whistle assembly which extends from one end of the tube. The simulator is 2.38 inches in diameter (including fuse lighter) and 7.13 inches long. The whistle assembly is a paper tube containing a pressed, slow burning powder charge, (2.0 grams). Extending from the side of this assembly is a length of safety fuse that, after a 90° bend, is inserted in a fuse lighter M3A1 taped to the side of the simulator. The fuse lighter contains a double pull cord and a cellulose nitrate coating on the phosphorous-coated friction wire and ignition composition.

References: TM 43-0001-37, *Military Pyrotechnics*, February 1977; TM 9-1370-200, *Military Pyrotechnics*, September 1966

SIMULATOR, BOOBYTRAP, FLASH, M117; ILLUMINATING, M118; WHISTLING, M119

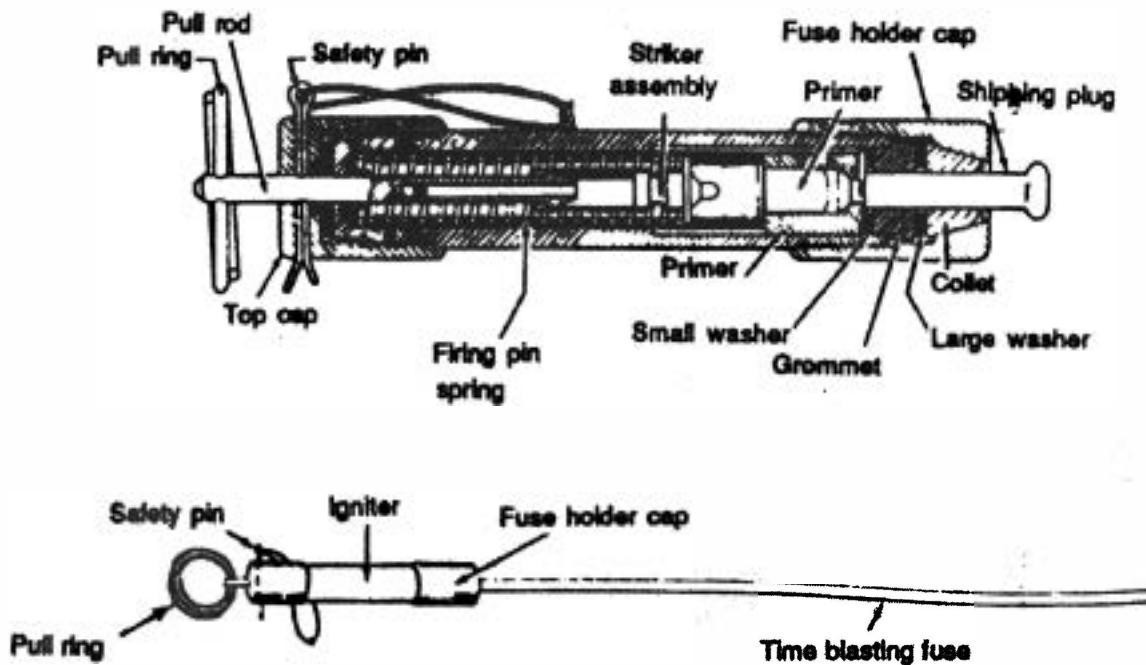


Description. The flash simulator M117 consists of a cylindrical outer tube (kraft paper) and a flat, metal nailing bracket that extends from one end of the tube. The body is 0.98 inch in diameter and, without nailing bracket, 2.25 inches long. The nailing bracket increases the length to 3.90 inches. Located within the outer tube is a charge initiating assembly and an inner tube containing a pyrotechnic charge. The assembly used for initiating the charge is located in the space between the inner and outer tubes. This assembly consists of a strip of paper coated with a friction-sensitive composition and folded into a pad so that the coated surfaces are face to face. The pad is attached to the inner tube. Over the top of the pad is a strip of felt held in place, under light pressure, by adhesive tape wrapped around the inner tube. A length of pull cord runs between the coated surfaces of the pad. One end of the pull cord is covered with friction composition; the other end is coiled and placed in the end of the body opposite the nailing bracket. A paper cap, held on by a strip of tape, covers this end of the simulator.

M117	Flash composition, (0.09 ounces)
M118	Illumination composition, (0.18 ounces)
M119	Whistle composition, (0.12 ounces)

References: TM 43-0001-37, *Military Pyrotechnics*, February 1977; TM 9-1370-200, *Military Pyrotechnics*, September 1966

IGNITER, TIME BLASTING FUZE, M60, WEATHERPROOF



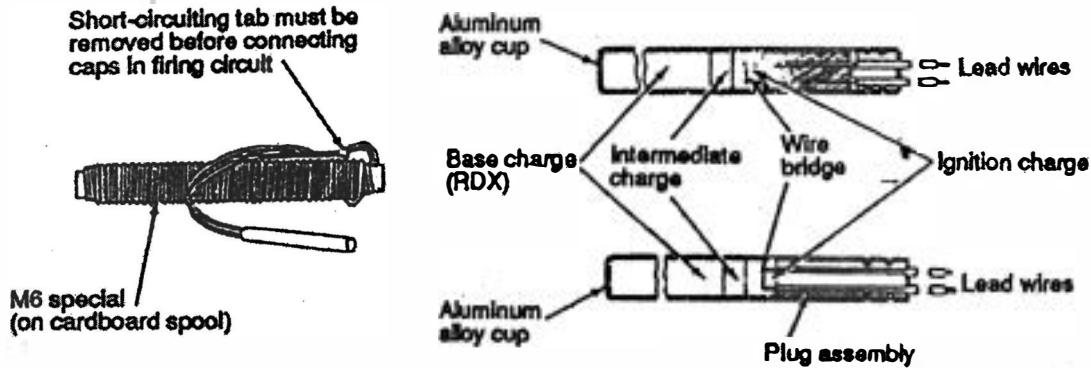
Use. This device initiates a time blasting fuze in all weather conditions and under water.

Description. The M60 igniter is a pull-type assembly consisting of three major subassemblies: a firing mechanism, a fuze holder and a primer base. The subassemblies are contained within an olive drab nylon tube. Once a length of time blasting fuze is inserted into the fuze holder cap, the safety cotter pin is removed. A 10 to 30 pound pull on the pull ring brings the spring-loaded firing pin back to the release washer, which spreads the firing pin's jaws. This releases the firing pin from the knobbed end of the pull rod. Once released, the firing pin is driven by the compressed spring into the primer, which fires and ignites the end of the time blasting fuze.

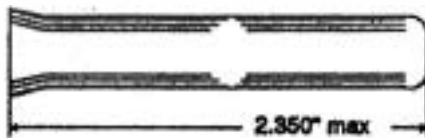
Length 4.75 inches
Diameter75 inches
Filler primer mixture (in primer)

Reference: TM 43-0001-38, *Army Ammunition Data Sheets for Demolition Materials*, June 1981; FM 5-250, *Explosives and Demolitions*, 15 June 1992

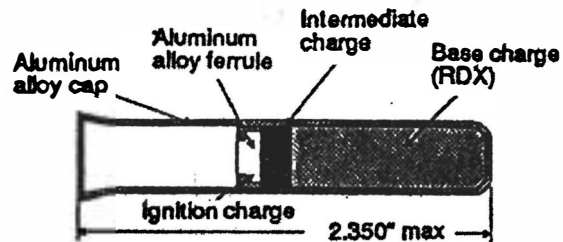
CAP, BLASTING, ELECTRIC, M6 AND NONELECTRIC, M7



Electric blasting cap



Nonelectric blasting cap



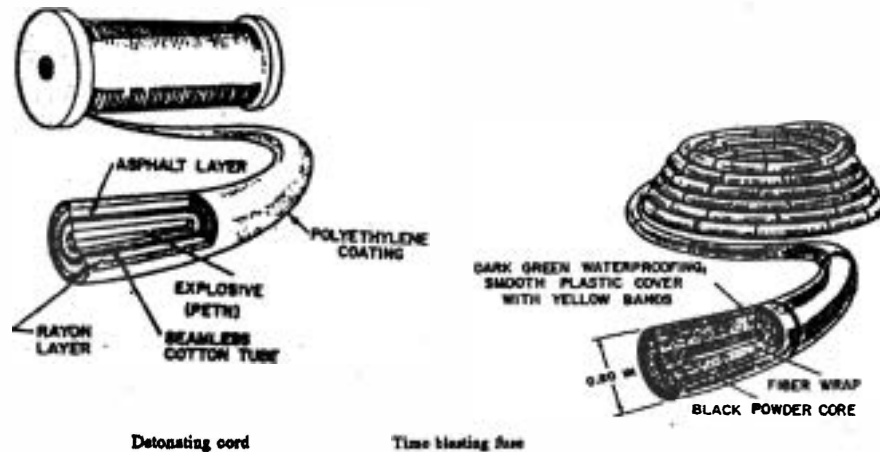
Use. Blasting caps are used to initiate high explosive demolition charges. Electric caps utilize a blasting machine or other source of electric power, while nonelectric caps are used in conjunction with time blasting fuse or a firing device base coupling.

Description. Blasting caps are small, thin aluminum (sometimes copper) tubes containing minute amounts of initiating explosives and a base charge, usually of RDX. Electric caps have two lead wires connected to a bridge, wire, which is inside the tube. Nonelectric caps also contain initiating explosives and a base charge, but have a flared opening to accept either time blasting fuze or the base coupling of a firing device. Initiation of these blasting caps will detonate all military explosives.

Diameter	approximately 0.24 –0.26 inches
Overall Length	2.35 inches
Filler	electric: lead styphnate, special mix (smokeless powder) and RDX; nonelectric: lead styphnate, lead azide, RDX

References: TM 43-0001-38, *Army Ammunition Data Sheets for Demolition Materials*, June 1981; FM 5-250, *Explosives and Demolitions*, 15 June 1992

CORD, DETONATING AND FUZE, BLASTING, TIME M700



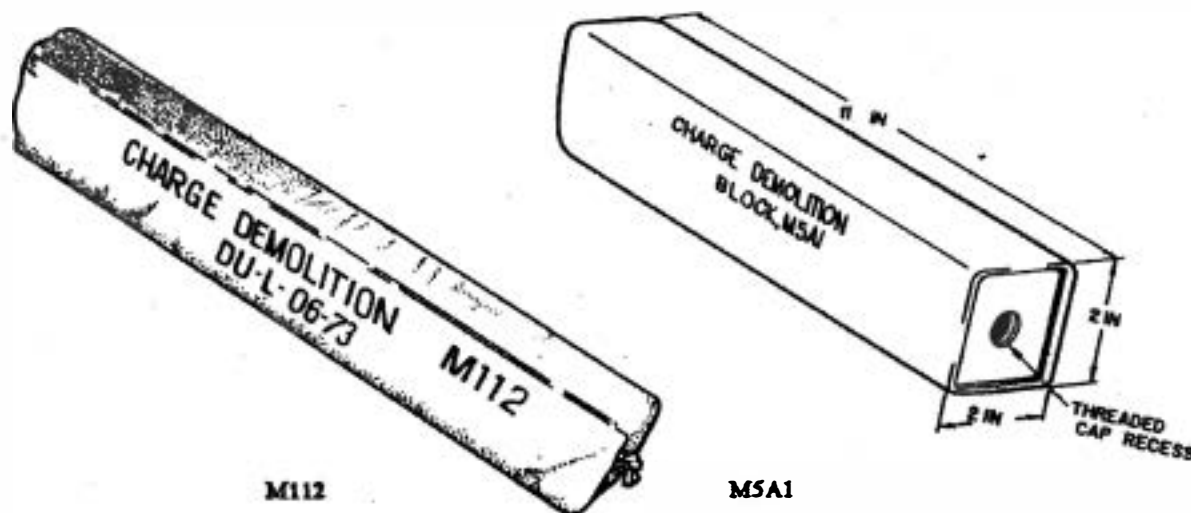
USE. Detonating cord is used to prime and detonate other explosive charges. Time blasting fuze is used to ignite nonelectric blasting caps.

Description. Both of these demolition materials are sheathed in an olive drab plastic cover that resembles thick clothesline, but each has a very different filler. Detonating cord contains a central core of PETN high explosive, while the time blasting fuze contains black powder. The important difference is that detonating cord explodes at a velocity of 5,000 feet per second, while time blasting fuze burns at around 40 seconds per foot. Detonating cord can be initiated by either electric or nonelectric blasting caps and can transmit an explosive wave from one demolition charge to another. Either a fuze igniter or match initiates time blasting fuze and can itself initiate nonelectric blasting caps.

Diameter	approximately 0.20 – 0.23 inches
Overall Length	Detonating cord can be cut to any length from 500 or 1,000 foot spools; Time blasting fuze can be cut to any length from 50-foot spools
Filler	Detonating Cord: PETN; Time blasting fuze: Black Powder

References: USAF, T.O., 1-1M-34; ORDDATA, Naval EOD Technology Division, Indian Head, MD

CHARGE, Demolition: BLOCK M112 AND BLOCK M5A1 (COMPOSITION 4)



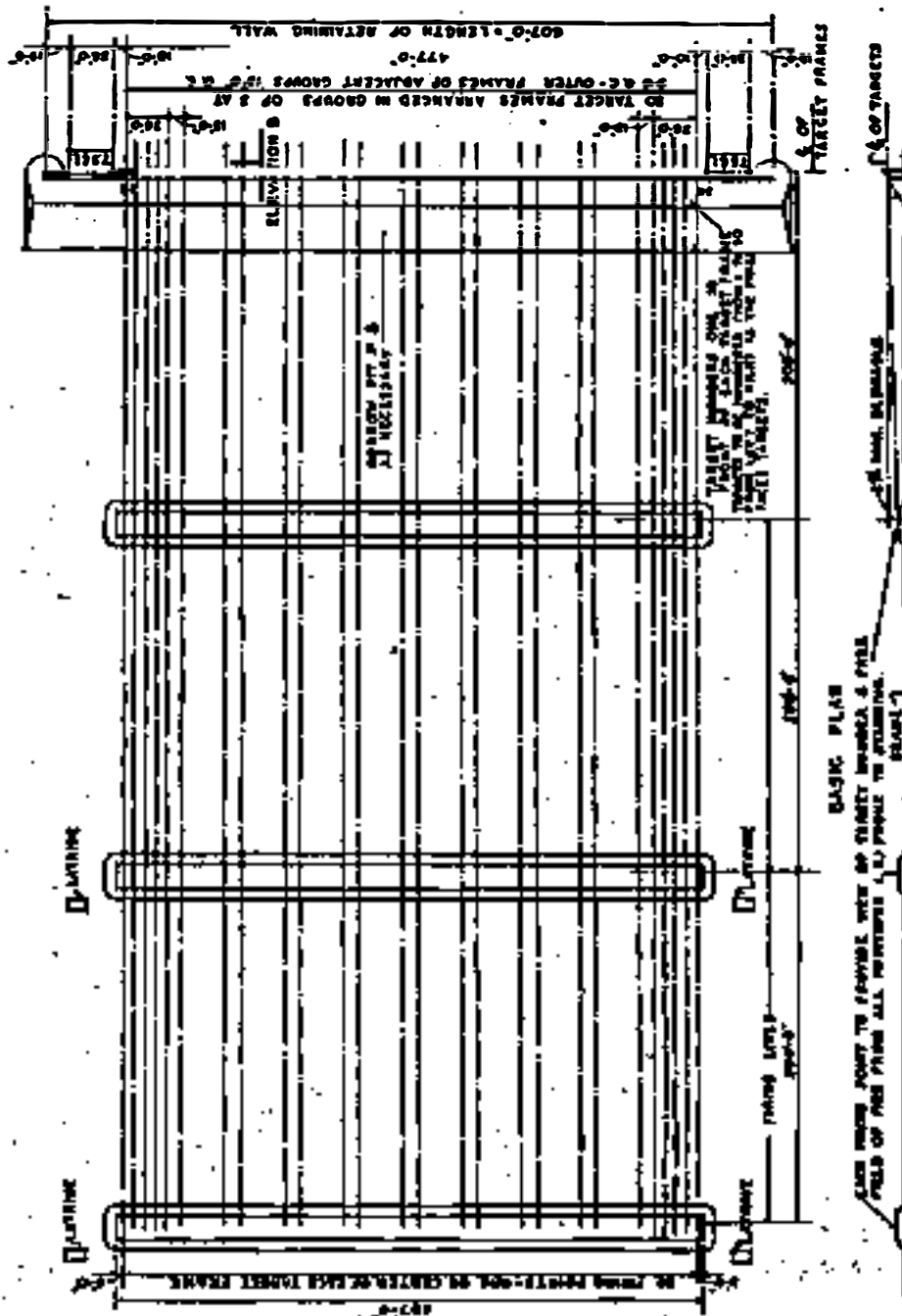
Use. These demolition charges are plastic explosives and are used in all types of demolition work, particularly cutting and breaching.

Description. Both of these demolition charges are made of Composition 4, which is a plastic explosive containing RDX and oily plasticizers. Composition 4 of recent manufacture is white, but older lots may be gray or off-white in color. Charge M112 consists of 1 1/4 pounds of explosive in a mylar film bag backed with pressure sensitive adhesive tape for adhering to flat, dry surfaces. Charge M5A1 consists of 2 1/2 pounds of explosive in a dear plastic container that has a threaded cap well in each end. These charges can be initiated with electric or nonelectric blasting caps, and when detonated, release large amounts of compressed gas that exerts force in the form of a shock wave. The velocity of detonation for C4 is approximately 26,400 feet per second (8.040 meters per second). Composition 4 is rated as being 1.34 times as effective as TNT, which is the standard by which other explosives are measured.

Dimensions M112 - 11.25" x 2.06" x 1.06"; M5A1 - 12" x 2" x 2"
Filler 91% RDX and 9% non-explosive plasticizers

References: TM 43-0001-38, *Army Ammunition Data Sheets for Demolition Materials*, June 1981; FM S-250, *Explosives and Demolitions*, 15 June 1992; TM 9-1300-214, *Military Explosives*, 20 September 1984

TARGETS, TARGET MATERIAL, AND TRAINING COURSE LAY-OUTS



RA PD 40921

Figure 4 - Rifle Range - Detail Lay-out

OCF 1600-115

TARGETS, TARGET MATERIAL, AND TRAINING COURSE LAY-OUTS

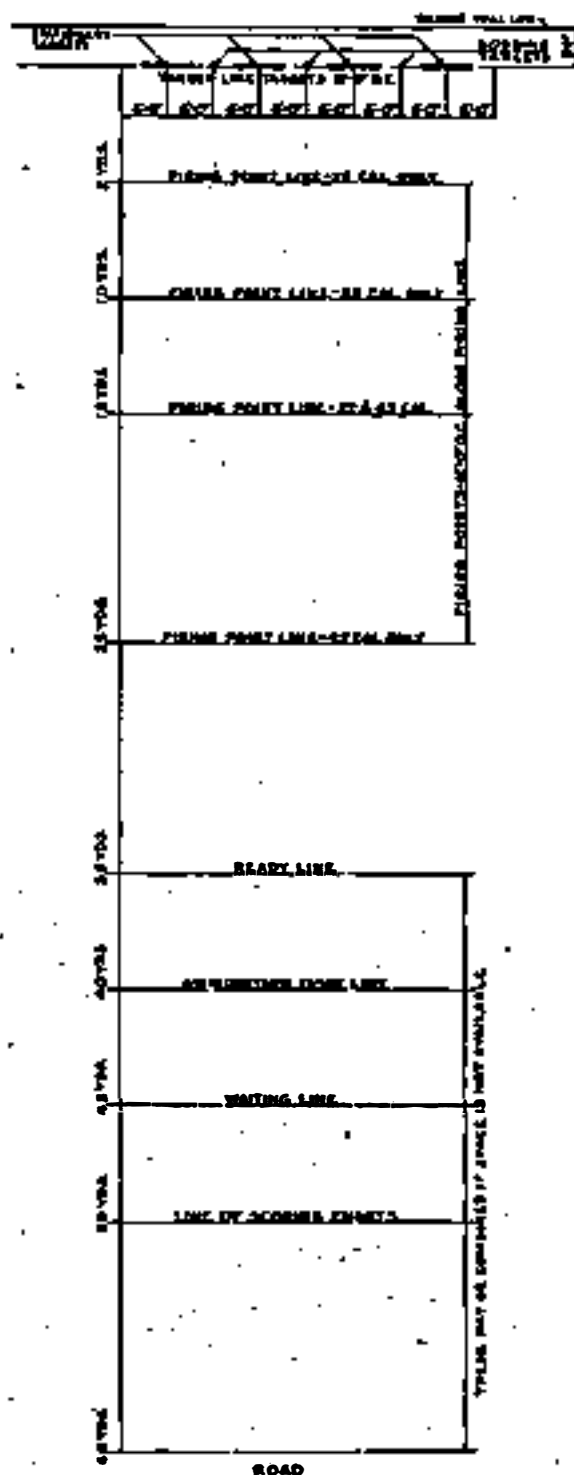
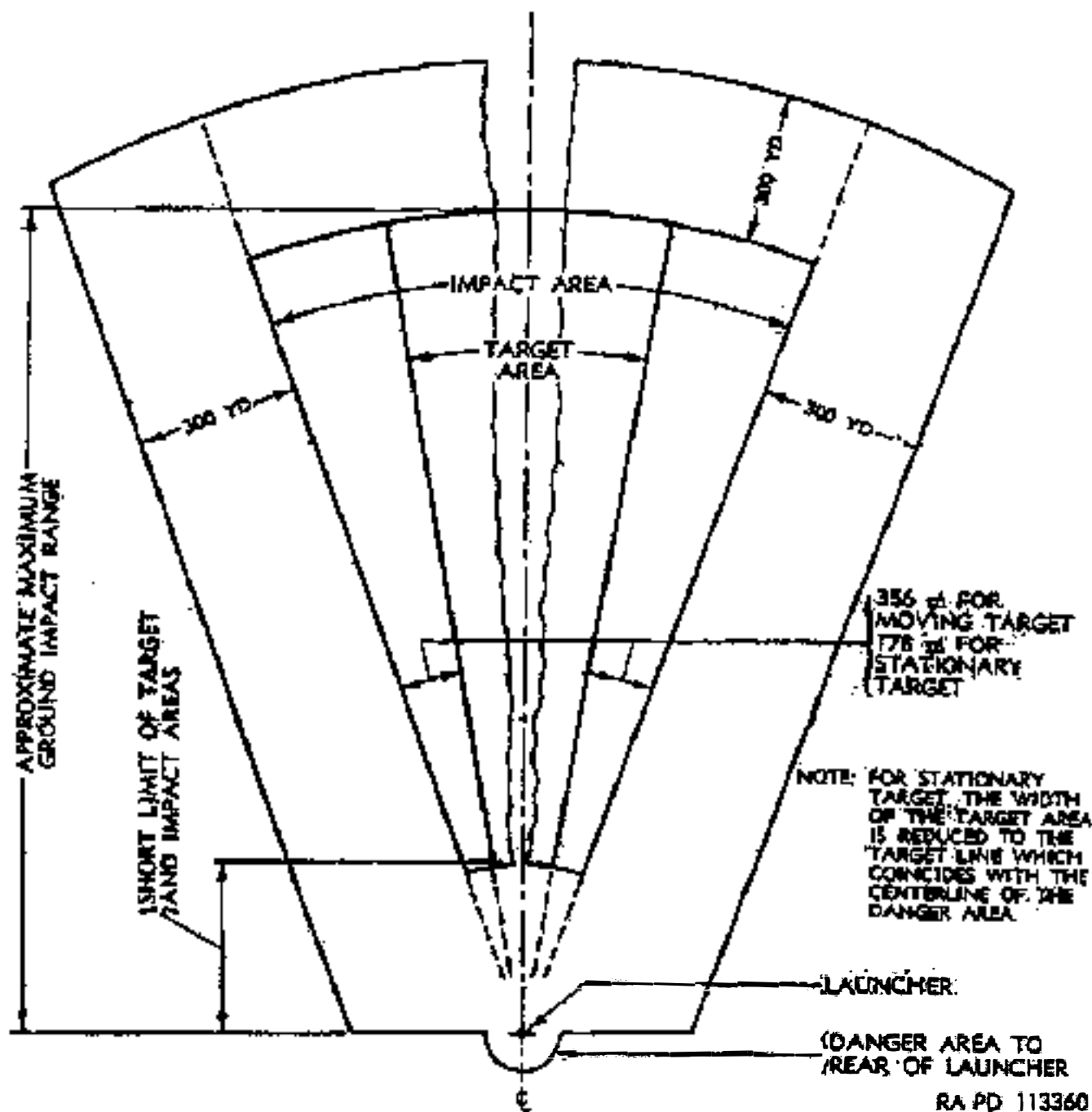


Figure 14 - Pistol Range - Detail Lay-out



Danger areas for 3.5-inch rocket launchers firing at moving and stationary terrestrial targets.

RA PD 113360

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix G

Textual References of Source Documents

Camp O’Ryan/Wethersfield Training Area
FUDS Property Number C02NY1132

Preliminary Assessment
November 2011

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Appendix G

Textual References of Source Documents

Table of Contents

G-1	CENAN FDE and project summary sheet (B-1).
G-2	26 May 1949 25-year lease between USACE and Edward George (B-1).
G-3	1 December 1989 11-year lease between USACE and the estate of Edward George (B-34a).
G-4	19 August 1994 DMNA memo terminating 1989 lease (B-34a).
G-5	“National Guard Has Rifle Range in Wethersfield,” <i>Wyoming County Times</i> , 19 May 1949 (B-35).
G-6	“Guardsmen Sharpen Their Aims at Range in Wyoming Hills,” <i>Buffalo Evening News</i> , 11 July 1950 (B-36).
G-7	National Guard Small Arms Outdoor Target Range Survey, NYS DMNA, 1 September 1950 (B-34a).
G-8	“Dedication Planned for Camp O’Ryan,” <i>Syracuse Post-Standard</i> , 28 May 1952 (B-38).
G-9	“Gen O’Ryan Honored As Wethersfield Camp of Guard is Dedicated,” <i>Buffalo Evening News</i> , 17 June 1952 (B-39).
G-10	“Guard Riflemen Get High Scores in Firing Arms,” <i>Niagara Falls Gazette</i> , 18 May 1954 (B-40).
G-11	“85 Militiamen Fired Rifles for Records,” <i>Dunkirk Evening Observer</i> , 22 August 1955 (B-41).
G-12	“Falls Resident Promoted to Staff Sergeant Rank,” <i>Niagara Falls Gazette</i> , 14 September 1955 (B-42).
G-13	November 1956 list of units training at Camp O’Ryan (B-32)
G-14	“Naval Reservists Fire for Record at Rifle Range,” <i>Dunkirk Evening Observer</i> , 23 July 1958 (B-44).
G-15	Gregory, Daniel. “Wartime in Wyoming County,” <i>Buffalo Courier Express</i> , 5 July 1959 (B-45).

- G-16 “Deputies Learn About Tear Gas,” Niagara Falls *Gazette*, 1 September 1960 (B-43).
- G-17 “Company B Leaves for Camp O’Ryan,” Dunkirk *Evening Observer*, 9 August 1963 (B-46).
- G-18 “Guardsmen Will Study Riot Control,” Niagara Falls *Gazette*, 14 August 1963 (B-47).
- G-19 “(line missing)In Riot Control,” Niagara Falls *Gazette*, 24 August 1963 (B-48).
- G-20 “Regimental Units to Qualify with New M14 Rifle,” Niagara Falls *Gazette*, 1 October 1965 (B-49).
- G-21 “Major Hits Protests on State Park Use,” Niagara Falls *Gazette*, 27 March 1968 (B-50).
- G-22 “800 Guards at Camp for Weapons Tests,” Buffalo *Courier Express* 30 June 1968 (B-51).
- G-23 Not used
- G-24 “Camp O’Ryan,” Buffalo *Courier Express*, 10 November 1968 (B-53).
- G-25 “NU Cadets to Train In Field,” Niagara Falls *Gazette*, 16 November 1968, B-54).
- G-26 Excerpts from 19 June 1987 CENAN real estate report (B-34a).
- G-27 US Fish and Wildlife Service list of endangered species (B-64).
- G-28 NYS DEC list of endangered species (B-63).
- G-29 Excerpts from May 09 NYS DEC lead sampling report (B-65).
- G-30 23 September 2011 Title Search (B-81).
- G-31 6 October 2011 Corps memo recommending FUDS ineligibility (B-82).

FINDINGS AND DETERMINATION OF ELIGIBILITY
CAMP O'RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, WYOMING COUNTY, NEW YORK

Formerly Used Defense Site
Property Number C02NY1132

1. On or about 26 May 1949, the Corps of Engineers, acting as agent for the Department of the Army, did enter into a leasehold agreement with Mr. Edward N. George Jr. (a/k/a Ed Don George) to use and occupy approximately 375.72 acres of vacant and unimproved land located in Village of North Java, the Town of Wethersfield, County of Wyoming, State of New York. The land was to be used for the stated purposes of "target range, maneuver area, camp site, and other Government purposes." The lease is provided with "Supporting Documentation," attached.
2. The aforementioned site has been called the Wethersfield outdoor target range and maneuver area. On 7 June 1952, the *Buffalo Evening News* reported that the training site was renamed as Camp O'Ryan, in honor of Major General John F. O'Ryan (a WW I General and former New York City Police Commissioner). There is no historical file available for Camp O'Ryan. A portion of the site was inspected by the New York State Department of Environmental Conservation (NYSDEC) on 27 August 2007, when an unfired belt of munitions was found there. This finding is consistent with the stated purpose of the lease. In a letter dated 30 June 2008, NYSDEC informed the Supervisor of the Town of Wethersfield of the findings of their inspection. The letter is provided with "Supporting Documentation," attached.
3. In August 1999, a portion of Lot 61.1, approximately 4.83 acres, was conveyed to Mr. William A. King. As per the Wethersfield Town Assessor, there were no further changes in ownership.
4. As per the tax map, Lot 61.1 consists of 365.18 Acres and Lot 61.2 consists of 4.83 for a total acreage of 370.01 acres fee. The lease cites a total acreage of 375.72. There is a discrepancy of 5.71 acres. There is strong possibility that the lease is in error.
5. The current property owners are identified as Mr. Edward N. George, 3000 Island Blvd., Williams Island, Florida 33160 and Mr. William A. King 1745 Welch Road, North Java, New York 14113.

Revised

FINDINGS AND DETERMINATION OF ELIGIBILITY
CAMP O'RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK

Formerly Used Defense Site
Property Number C02NY1132

(Continued)

DETERMINATION

Based on the foregoing findings of fact, the property has been determined to have been under the jurisdiction of the Secretary of Defense and owned by, leased to, or otherwise possessed by the United States prior to 17 October 1986. This property is therefore eligible for inclusion into the Defense Environmental Restoration Program - Formerly Used Defense Sites, established under 10 USC 2701 et seq.

Recommendation for Signature

PHILIP T. FEIR
COL, EN
Commanding

Date

Approval

TODD T. SEMONITE
BG, USA
Commanding

Date

Revised

The authors are indebted to the following individuals for their assistance in the preparation of this manuscript: Dr. William H. Lippert, Jr., and Dr. John E. McEwen, University of California at Los Angeles; Dr. Robert M. Waymouth, Stanford University; Dr. J. R. Durig, University of Illinois at Urbana-Champaign; Dr. G. A. Jeffrey, University of Toronto; Dr. D. W. Brown, University of New South Wales; Dr. J. K. Stille, University of Oslo; Dr. S. Patai, University of London; Dr. C. D. Warren, University of Cambridge; Dr. R. N. Young, University of Sydney; Dr. J. H. Goldstein, University of Michigan; Dr. J. B. Flannery, University of Texas at Austin; Dr. J. E. McGrath, University of Wisconsin-Madison; Dr. J. E. McGrath, University of Wisconsin-Madison; Dr. J. E. McGrath, University of Wisconsin-Madison.

EX-67 4-30-74

\$1400 pa

LAND LEASE
BETWEEN
EDWARD N. GEORGE, JR., ALSO KNOWN AS (ED DON GEORGE)
and

1. THIS LEASE, made and entered into this 26th day of May in the year one thousand nine hundred and forty-nine by and between EDWARD N. GEORGE, JR.

whose address is **300 Main Street, Buffalo, New York**

WITNESSETH: The parties hereto for the considerations hereinafter mentioned covenant and agree as follows:

All that tract or parcel of land situate in the town of Wethersfield,
County of Wyoming and State of New York bounded and described as follows:

Beginning at the northwest corner of lot No. 47 in said town in the North Java - Wuthersfield Springs Highway; running thence east along the north line of said lot 34.26 chains; thence south 20.43 chains; thence west 4.86 chains; thence south 38.76 chains to the south line of said lot No. 47; thence west 29.19 chains to the southwest corner of lot No. 47; thence continuing west 15.37 chains along the south line of lot No. 55; thence north 26.03 chains; thence west 23.42 chains; thence northwest to a point 16.71 chains south of the north line of lot No. 55; thence west to a point 9.81 chains east of the west line of lot No. 55; thence north 16.71 chains to the north line of lot No. 55 and said highway; thence east about 50 chains along said north line of lot No. 55 to the place of beginning; containing approximately 375.72 acres.

to be used for the following purpose: **Target Range, Maneuver Area, Camp Site and other Government purposes.**

Attorney

2. TO HAVE AND TO HOLD the said premises for the term beginning May 26, 1949 through June 30, 1957 provided that unless and until the Government shall give notice of termination in accordance with provision 8 hereof, this lease shall remain in force thereafter from year to year without further notice; provided further that adequate appropriations are available from year to year for the payment of rentals; and provided further that this lease shall in no event extend beyond

June 30, 1974

4. The Government shall pay the Lessor rent at the following rate: ~~Eighteen Hundred Dollars (\$1,800.00)~~ per annum until June 30, 1951 and ~~Fourteen Hundred Dollars (\$1,400.00)~~ per annum thereafter. Payment shall be made at the end of each ~~year~~ month by the Finance Officer, United States Army, Brooklyn Army Base, 11th Street and Fifth Avenue, Brooklyn, New York

~~5. The Government shall have the right during the existence of this lease to attach fixtures, and erect structures or signs, in or upon the premises hereby leased, which fixtures and structures, or signs, so placed in, upon or attached to the said premises shall be and remain the property of the Government and may be removed or otherwise disposed of by the Government.~~

6. The Government may terminate this lease at any time by giving thirty (30) days notice in writing to the Lessor, and no rental shall accrue after the effective date of termination.

7. Any notice under the terms of this lease shall be in writing signed by a duly authorized representative of the party giving such notice, and if given by the Government shall be addressed to the Lessor at ~~305 Main Street, Buffalo, New York~~

and if given by the Lessor shall be addressed to ~~the District Engineer, New York District, Corps of Engineers, 100 Wall Street, New York 5, New York~~

8. The Lessor warrants that he has not employed any person to solicit or secure this lease upon any agreement for a commission, percentage, brokerage, or contingent fee. Breach of this warranty shall give the Government the right to annul the lease, or, in its discretion, to deduct from the rental the amount of such commission, percentage, brokerage, or contingent fees. This warranty shall not apply to commissions payable by lessors upon contracts or leases secured or made through bona fide established commercial or selling agencies maintained by the Lessor for the purpose of securing business.

9. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this lease if made with a corporation for its general benefit.

10. The Government shall have the right, during the existence of this lease to make alterations, attach fixtures, and erect additions, structures or signs, including but not limited to buildings, target ranges, concrete butts, tank traps, walks, and landing strips, in or upon the premises hereby leased, which fixtures, additions, or structures so placed in, upon, or attached to the said premises shall be and remain the property of the Government and may be removed or otherwise disposed of by the Government at its sole option. The Government shall also have the right to cut and remove trees, remove top soil, take off sand and gravel, revise the contours and ground levels of the land, and, in general, take such further action affecting the land as it may desire. The Lessor recognizes that the rental above stipulated includes an amount sufficient to compensate him for any damages that may be inflicted upon the premises during the Government's occupancy, and accordingly agrees that the erection of the fixtures, additions, and structures and the damage to the land shall not be deemed to constitute waste, and waives all claims for damages arising directly or indirectly therefrom; nor shall the Government be obligated to remove all or any of the property so attached to or erected on the demised premises or to restore the premises to the condition existing at the commencement of this lease; provided, however, that if the Government exercises its option, as herein contained, to effect an earlier termination of the lease, then in such event the Government shall place the house and barn on the property at the time of leasing in a condition reasonably suitable for occupancy and use for dairy farming, deterioration due to fair wear and tear, and damages by the elements, or by circumstances over which the Government has no control, excepted.

11. The Lessor shall have the right, during the term of this lease, to cut and remove trees from the demised premises, provided that such cutting and removal of trees shall be accomplished only at such times and in such quantities as may be agreeable to the Officer in Charge of the premises. The Lessor shall also be permitted to remove and retain trees which are cut down by the Government, provided that such trees are not required by the Government, and provided further that removal of such trees shall be accomplished only at such times and in such amounts as may be agreeable to the Officer in Charge of the premises.

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

LEASE NO. DA CA51-5-90-039 CIV. ENG. North Atlantic DIVISION

New York DISTRICT

LAND LEASE
BETWEEN

ESTATE OF EDWARD N. GEORGE JR.
59-6858348

AND
THE UNITED STATES OF AMERICA

1. *THIS LEASE, made and entered into this 16thth day of November~~December~~ 1959 in the year one thousand nine hundred and eighty nine by and between*

ESTATE OF EDWARD N. GEORGE JR.

whose address is 3700 Galt Ocean Drive
Ft. Lauderdale, Florida 33308

and whose interest in the property hereinafter described is that of Fee Simple Owner for its heirs, executors, administrators, successors, and assigns, hereinafter called Lessor, and THE UNITED STATES OF AMERICA, hereinafter called the Government:

WITNESSETH: The parties hereto for the consideration hereinafter mentioned covenant and agree as follows:

2. *The Lessor hereby leases to the Government the following described premises, viz:*

ALL that tract or parcel of land, situate in the Town of Wethersfield, County of Wyoming and State of New York, further described as follows;

Beginning at the northwest corner of Lot No. 47, in said Town in the North Java-Wethersfield Springs Highway; running thence east along the north line of said Lot 34.26 chains; thence south 20.43 chains; thence west 4.86 chains; thence south 38.76 chains, to the south line of said Lot No. 47; thence west 29.19 chains to the southwest corner of Lot No. 47; thence continuing west 15.37 chains along the south line of Lot No. 55; thence north 26.03 chains; thence west 23.42 chains; thence northwest to a point 16.71 chains south of the north line of Lot 55; thence west to a point 9.81 chains east of the west line of Lot 55; thence north 16.71 chains to the north line of Lot 55 and said highway; thence east about 50 chains along said north line of Lot 55 to the place of beginning containing about 375.72 acres including concrete block structure situated on herein described property.

to be used for the following purpose: Government Purposes

3. TO HAVE AND TO HOLD the said premises for the term beginning 1 December 19 89, through 30 September 90, provided that unless and until the Government shall give notice of termination in accordance with provision 6 hereof, this lease shall remain in force thereafter from year to year without further notice; provided further that adequate appropriations are available from year to year for the payment of rentals; and provided further that this lease shall in no event extend beyond 30 September 2000.

4. The Government shall pay the Lessor rent at the following rate:

TWENTY-FIVE THOUSAND AND 08/100 DOLLARS PER ANNUM (\$25,000.08)

Payable at the rate of \$2,083.34 per month

Payment shall be made at the end of each month by the U.S. Fiscal Property Officer for New York, 330 Old Niskayuna Road, Latham, New York

5. The Government shall have the right, during the existence of this lease to attach fixtures, and erect structures or signs, in or upon the premises hereby leased, which fixtures and structures, or signs, so placed in, upon or attached to the said premises shall be and remain the property of the Government and may be removed or otherwise disposed of by the Government.

30 Sep 1990 6. The Government may terminate this lease at any time by giving ~~sixty (60)~~ days notice after in writing to the Lessor, and no rental shall accrue after the effective date of termination.

7. Any notice under the terms of this lease shall be in writing signed by a duly authorized representative of the party giving such notice, and if given by the Government shall be addressed to the Lessor at

and if given by the Lessor shall be addressed to New York District, US Army Corps of Engineers, Real Estate Division (CENAN-RE-A) 26 Federal Plaza, New York, New York 10278-0090

8. The Lessor warrants that no person or selling agency has been employed or retained to solicit or secure this lease upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Lessor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this lease without liability or in its discretion to deduct from the lease price or consideration the full amount of such commission, percentage, brokerage, or contingent fee.

9. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this lease if made with a corporation for its general benefit.

10. (a) The Government may, by written notice to the Lessor, terminate the right of the Lessor to proceed under this lease if it is found, after notice and hearing, by the Secretary of the Army or his duly authorized representative, that gratuities (in the form of entertainment, gifts, or otherwise) were offered or given by the Lessor, or any agent or representative of the Lessor, to any officer or employee of the Government with a view toward securing a lease or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing, of such lease; provided, that the existence of

facts upon which the Secretary of the Army or his duly authorized representative makes such findings shall be in issue and may be reviewed in any competent court.

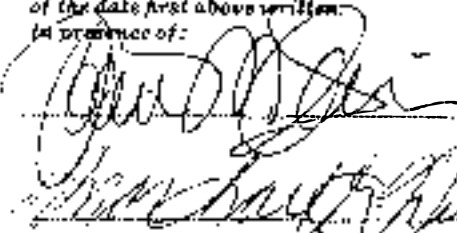
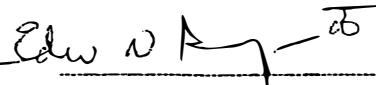
(b) In the event this lease is terminated as provided in paragraph (a) hereof, the Government shall be entitled (i) to pursue the same remedies against the Lessor as it could pursue in the event of a breach of the lease by the Lessor, and (ii) as a penalty in addition to any other damages to which it may be entitled by law, to exemplary damages in an amount (as determined by the Secretary of the Army or his duly authorized representative) which shall be not less than three nor more than ten times the costs incurred by the Lessor in providing any such gratuities to any such officer or employee.

(c) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this lease.

11. The Lessor agrees that the Comptroller General of the United States or any duly authorized representatives shall, until the expiration of three (3) years after final payment of the agreed rental, have access to and the right to examine any directly pertinent books, documents, papers and records of the Lessor involving transactions related to this lease.

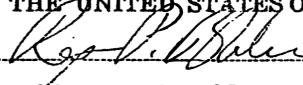
Paragraphs 12, 13, 14, 15, & 16 (See Rider A) are attached hereto and made a part hereof. WHEREOF, the parties hereto have subscribed their names as of the date first above written.

In presence of:

  (SEAL)
EXECUTOR
EDWARD N. GEORGE III
Lessor.

THE UNITED STATES OF AMERICA,

By


ROGER P. BLAKE
Chief, Real Estate Division

(IF LESSOR IS A CORPORATION, THE FOLLOWING CERTIFICATE SHALL BE EXECUTED BY THE SECRETARY OR ASSISTANT SECRETARY.)

I,
certify that I am the
named as Lessor in the attached lease; that
lease on behalf of the Lessor, was then
said lease was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Secretary of the corporation
who signed said
of said corporation; that

(CORPORATE)
SEAL



STATE OF NEW YORK
DIVISION OF MILITARY AND NAVAL AFFAIRS
330 OLD NISKAYUNA ROAD
LATHAM, NEW YORK 12110-2224

MARIO M. CUOMO
GOVERNOR
COMMANDER IN CHIEF

MICHAEL S. HALL
MAJOR GENERAL
THE ADJUTANT GENERAL

MNFE-FM(R) (405)

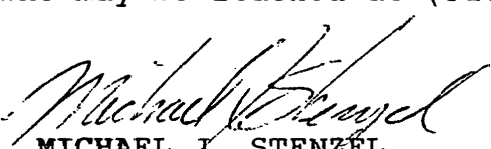
19 August 1994

MEMORANDUM FOR Department of the Army, New York District, Corps of Engineers, ATTN: Jerry Seiff, Real Estate Division, Jacob K. Javits Federal Building, New York, New York 10278-0090

SUBJECT: Land Lease DACA51-5-90-039, Wyoming County (Camp O'Ryan)

1. Reference Lease DACA51-5-90-039. 1 December 1989, enclosed.
2. Under the provisions of paragraph 6 of the subject lease, this memorandum constitutes our official notice of termination. We would like the lease terminated effective 1 November 1994.
3. The real property leased under the terms of the subject instrument are no longer required by the New York Army National Guard. Shifts in force structure have negated our need for this local training area.
4. The point of contact for this matter is Captain Raymond Shields, our Realty Officer who may be reached at (518) 786-4309.

Encl


MICHAEL J. STENZEL
Lieutenant Colonel, AR, NYARNG
CFMO-NY

CF:
ARO, ATTN: Major R. Vartigian

**National Guard
Has Rifle Range
In Wethersfield**

The Charles R. Grumman 375 acre farm in the Town of Wethersfield has been sold to Ed Don George of Buffalo who has leased it to the Federal Government for 25 years to be used as a rifle range for the National Guard.

The deed was made by C.O. Gallett of Warsaw who has also made the following sales of property: the Frank M. Brown home at 30 (illegible) Street to C.O. Gallett, Jr. and the C.O. Gallett Jr. home at 11 Jefferson Street to Francis A. Kelly of Warsaw.

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Buffalo *Evening News*
11 July 1950

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1 September 1950 Target Range Survey

Dedication Planned For Camp O'Ryan

ALBANY, May 27. (P)—The New York National Guard's training area at Wethersfield in Wyoming County will be dedicated formally June 7 as "Camp O'Ryan."

The area, opened in 1949 as a rifle range and expanded for wider activities in the past two years, will be named in honor of the World War commander of the NYG's 27th Infantry Division, Maj.-Gen. John F. O'Ryan of New York city.

Gen. O'Ryan was the AEF's youngest division commander in World War 1 and was the only national guard commander to organize, train, fight and bring home his own division. He later was New York city police commissioner.

The Wethersfield training area was opened late in 1949 for the use of NYNG units in Western New York.

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Buffalo *Evening News*
17 June 1952

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NIAGARA FALLS

Guard Riflemen Get High Scores In Firing Arms

Names of Guardsmen who qualified in the firing of light weapons at Camp O'Ryan were announced today by Lt. Col. Robert W. Hook. The men of Headquarters and A batteries and the Medical Detachment of the 336th AAA Battalion (Gun 90 mm), New York National Guard, spent a weekend during the month in the firing.

Qualifying score for the rating of marksman is 120, and for sharpshooter, over 150. Names and scores of riflemen firing the U.S. Cal. .30 M-1 follow:

S.I.C. Paul Coly, 136; Sgt. Richard Corrado, 181; Edward Cyphert, 130; William Monaghan, 130; and Chester E. Wilos, 130. Cpls. Robert G. Brady, 136; James A. Fitzsimmons, 134; Doyle G. Kenovis, 139; George S. Moyer, 131; Richard Odrasewski, 123; and Phillip A. Panosinto, 120.

Also Pfc's Nicholas L. Crolluel, 131; Robert E. Orabbe, 123; Keawery Orudinski, 133; Marvle E. Smeal, 101; Alexander C. MacVie, 139; James L. Rauch, 133; Charles E. Von Groll, 125; Pvt. Robert H. Brodinski, 133; Leonard Goughenour, 138; Joseph M. Fenush, 131; Donald A. Herman, 137; George T. Munaney, 130; Lewis R. Kling, 123; Thomas A. Lucore, 131; Thomas H. Pendergast, 103; Lester R. Swendsen, 143; Gerald Vitagliano, 130; Joseph Walroba, 133.

The following men qualified with the carbine, Cal. .30. The carbine is a light close range rifle unlike the heavier M-1. Qualification is 120; sharpshooter is 140; expert is 160. M. Sgt. Matthew Kahala, 141; George C. Cyphert, 143; Anthony Nero, 153; Lawrence E. Ploetz, 133; Harrison E. Wilse, 148.

Also Sergeants First Class William Kirk, 120; Adolph Latka, 143; Frank B. McKeale, 147; Elmer Peres, 143; Edwin Reimer, 148; Collis M. Smeal, 133; Ronald Bowser, 130; Angelo Lumina, 123; Joseph McGarry, 143; Sgt. James Foster, 160; Byrne Kirk, 133; Edward Onwald, 134; Theodore Petrie, 131; Dominic Toliano, 143.

Also Cpl. Frank Elia, 130; Gerald Palmer, 139; William Salisbury, 123; Pfc's Donald E. Cook, 124; Keith Hollinsar, 137; Stanley Walroba, 130; William Buddenbaken, 131; Pfc's Thomas Bardon, 121; Gerald Foster, 124; and Nicholas Tale, 123.

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85 Militiamen Fired Rifles For Records

Nearly 85 members of Division 3-66 took part Sunday in an annual New York Naval Militia small arms test at Camp O'Ryan near Weathersfield, N. Y. between Arcade and Buffalo.

Results of the firing, however, will not be announced until they have been compiled by Naval Militia headquarters at New York City.

Forty rounds per man were fired over a 200-yard marksman course. Each of those taking part were required to fire 20 rounds each from the prone and sitting positions.

Following compilation by headquarters, results will be announced and marksmen badges will be awarded to all those qualifying. A minimum score of 120 out of a possible 150 is required for an award.

Militia personnel left by bus Sunday morning at 7:30 o'clock. They arrived at the course at 9:30 o'clock and a half hour later were firing for record. Following a box lunch at noon firing was resumed and came to a close at 4 o'clock. Dinner was served at the Arcade hotel on the return trip.

Those in charge of the firing were Lt. Perry R. Trimmer, commanding officer; Lt. Wendell Woodbury, Lt. William Sawin, and Cmdr. Harold Saxton, NR.

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November 1956 list of NY ArNG units training at Camp O'Ryan

CAMP O'RYAN, BUFFALO, NY

27th ARMD DIV

Hq 27th Armd Div

27th Armd Div Band

Hq CCG

Hq 27th Div Trains

27th Repl Co

Hq 27th Div Arty

106th Armd FA Bn

127th Tk Bn

274th Tk Bn

174th Armd Inf Bn

Hq & Co C, 134th Armd Med Bn

Hq & Cos A, D & E, 152d Engr Bn

27th Armd Ren Bn (less Co A)

105th AAA BRIG

Hq 209th AAA Gp

102d AAA Bn

336th AAA Bn

106th AAA Bn

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Naval Reservists Fire For Record At Rifle Range

Naval Reserve Electronics Divisions 3-8 and 3-9 of Dunkirk held their annual small arms practice on Sunday, July 20, at the New York state rifle range at Camp O'Ryan in Weathersfield.

The local reserve units, which are also divisions in the New York naval militia, have been holding these practices for many years. Firing is for record with Springfield rifles and the distance to the targets is 200 yards. Trophies will be awarded by the New York naval militia for the men who attained the highest three scores. Others who qualified will receive medals. Officers and chief petty officers did not compete for the trophies.

The top score was 132 out of a possible 150. This was attained by Chief Petty Officer Lucas J. Slominski and Boatswain Mate, second class, Arthur P. Casella of 137 West Chestnut street, Dunkirk. Boatswain Mate, second class, Bernard R. Winkler of 28 East Green street, Dunkirk, and Boatswain Mate, second class, Frank S. Jusko of Osbourne road, Fredonia, split the second and third prizes with 127 points each.

Among others who qualified were Lt. Cmdr. William W. Sawin, Jr., commanding officer of Division 3-9, who shot a 123 score, and Seaman Apprentice Bruce A. Cowe of 183 Hamilton drive, Derby, with a 120 score.

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Wartime in Wyoming County

Story by Daniel Gregory

Photos by Bob Scott

The 375-acre Camp O’Ryan near North Java, Wyoming County, resounds to the crack of rifle fire these weekends as Western New York units of the 27th Armored Division, NYARNG, train there. The 1st Armored Rifle Battalion, 174th Infantry, is the subject of the photoseries on this page. Commanded by Lt. Col. James V. Collins and numbering nearly 500, the battalion comprises Headquarters Co., a Buffalo unit; Co. “A”, City of Tonawanda; “B”, Olean; “C”, Medina, and “D”, Hornell. The yearly training project enables guardsmen to tackle infantry problems on a vast tract, interspersed with small wooded areas. Capt. James A. Farley of Medina is training officer. The operation includes expert instruction in rifle firing, hand-to-hand combat, and offensive and defensive tactics against an imaginary foe. The weekend, however, isn’t confined entirely to military techniques and the manual of arms. There’s a lighter and a spiritual side to the operation. Guardsmen are entertained with full-length movies on Saturday evening. The Sunday schedule is arranged to permit church attendance by the guardsmen. Catholic and Protestant chaplains administer to the spiritual needs of the infantrymen. This phase of the operation is planned by Capt. Daniel B. Tauriello, battalion adjutant. The 43-mile trip to Camp O’Ryan, named after New York State’s famed Gen. John F. O’Ryan, is made in a long motorcade.

(Sunday Group Photos)

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Dunkirk *Evening Observer*
9 August 1963

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Guardsmen Will Study Riot Control

Three New York Guard battalions from the Niagara Frontier will attend a two-day conference on riot control Saturday and Sunday at Camp O'Ryan, N.Y.

Headquarters, Headquarters Co. and Co. A of the 51st Internal Security Battalion, commanded by Lt. Col. Robert Hille, this city, are based at the State Armory here.

Other companies of the battalion are at Lockport, Medina and Batavia.

Headquarters for the Fifth Area Command, which includes the 50th and 52nd Internal Security Battalions, is in Buffalo at the Delavan Street Armory. Fifth Area commander is Brig. Gen. Owen Q. Augsburger, Buffalo lawyer.

A simultaneous conference on riot control will be held for all other New York Guard units at Peekskill, N.Y.

At both camps, troops will fire .30-caliber rifles and .45-caliber pistols for record.

Capt. Ernest L. Eagan Jr., of 437 Ninth St., rifle team captain for the 51st, will be pistol range officer at Camp O'Ryan.

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In Riot Control

Officers and men of the 51st Internal Security Battalion, New York Guard, were back at their civilian jobs today after a weekend of riot control training and firing on the Camp O'Ryan Range, near Java, N.Y. Members of the unit are stationed at the New York State Armory in Main Street here.

Lectures, training films and in-the-field demonstrations of riot control gave the guardsmen an inkling of the type of training individual battalions will receive in the coming months.

Demonstration 'Backfires'

A demonstration of the use of tear gas Sunday "backfired" when a shift in wind carried the gas away from a platoon fitted with gas masks for the demonstration and into a crowd of spectators and instructors. The gas is harmless, but causes the eyes to water.

Among those working at the end of the demonstration was Brig. Gen. Owen Aufsbürger of Buffalo, commander of the Fifth Area Command, N.Y.G.

Brig. Gen. Chester Dawson, of Niagara Falls, assistant commander, 27th Armored Division, was one of three general officers to attend a review of units at camp Sunday. The others were Lt. Gen. Ronald Brack and Maj. Gen. William Flanigan, both retired state commanders of the New York Guard.

Gen. Dawson today said: "It was a good camp. They

achieved their training objectives."

The 51st Internal Security Battalion was commanded by Maj. Ernest Lovett, executive officer, in the absence of Lt. Col. Robert Hille, commander, Headquarters, Headquarters Company and Company A train at the local armory. Other companies are located at Batavia, Medina and Lockport.

Camp Inspected

On Saturday, Maj. Gen. W. Reynolds Carr, commanding general for the New York Guard and assistant to Maj. Gen. Almerin C. O'Hara, chief of staff to Gov. Nelson A. Rockefeller, inspected the camp.

In an address to the troops, Gen. Carr outlined the responsibilities of the New York Guard.

They include logistic support of federal and federalized state troops; aid to Civil Defense; aid to civil authorities; manning state armories and assisting the National Guard once it is called up and aid to other states which have mutual assistance pacts with New York State, he said.

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Regimental Units to Qualify With New M14 Rifle

More than 300 members of the 390th Basic Combat Training Regiment, including a battalion from Niagara Falls, will familiarize themselves and qualify with the Army's new M14 rifle Oct. 10.

The regiment, part of the 88th "Iroquois" Training Division, includes the 3rd Battalion, Niagara Falls, 2nd Battalion, Batavia, and 1st Battalion, Amherst.

Preparation for the firing will be held at Camp O'Ryan in North Java, N. Y., starting at about 6:30 a.m. The firing is part of a program to prepare the units for the M14 rifle which will be issued during October and November.

All officers and enlisted men, with the exception of company commanders, and battalion and regimental staff will participate in the exercise. The regiment is commanded by Col. Raymond Klimbal, Maj. Jerome H. Slinger, commands the 3rd Battalion, which includes about 50 men from Niagara Falls and a number of other men from Lockport and North Tonawanda.

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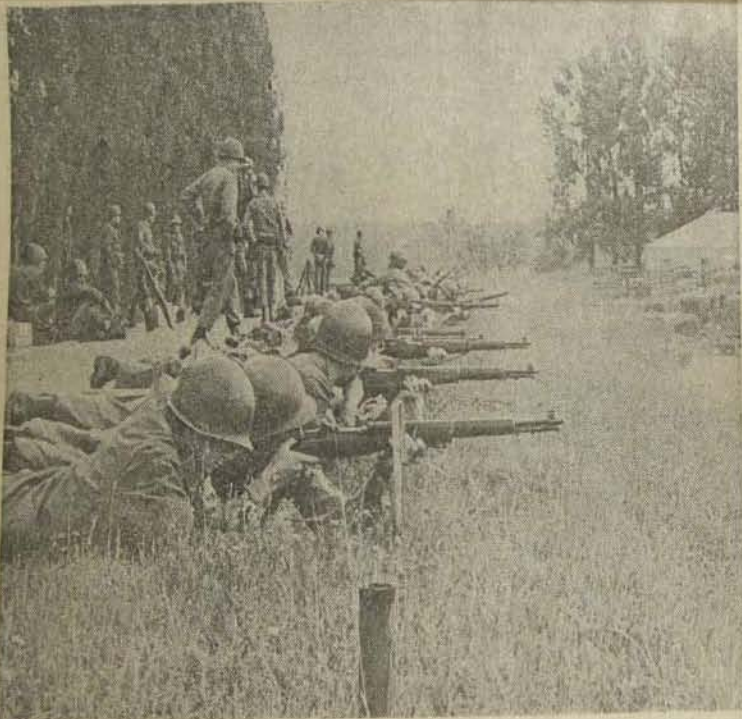


Photo shows some of the 739 Guardsmen to practice on range Saturday



Maintenance of .45 calibre pistol is topic of session

800 Guards at Camp for Weapons Tests

The crackle of rifle and small arms fire filled the air at Camp O'Ryan, near North Java, Saturday as the more than 800 men of the 174th Infantry, National Guard, began a weekend weapons qualification encampment.

The outfit, which is part of the 50th Armored Division, moved to the camp from its base at the Masten Armory in a troop truck convoy. Once a Year Event

The men set up a full range of weapons, pitching tents for the overnight stay and establishing a field mess for feeding the reservists.

Lt. James E. Durkee, information officer, said that the battalion goes to Camp O'Ryan once a year to qualify with M1 rifles and .45 caliber pistols.

He said that recreation and entertainment programs were provided for the men during the

two-day camp. The men will play softball and check their rifles and have movies for their recreation, Lt. Durkee said.

Before the weekend is over, he added, each man must attain a qualifying score with his rifle and pistol.

Recreation will be provided by the unit's chaplain, the Rev. Donald H. Hughes, a captain in the National

Guard, is slated to conduct an all-denominational religious service.

The weekend's menu was typical Army-style: No Cratons, but enough eggs (150 dozen), meat (500 pounds), potatoes (1,400 pounds), bread (640 loaves) and milk (3,000 half-pints) to feed the guardsmen.

The reservists recently returned from Camp Drum where they completed two weeks of field training.

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THE HILLS of Wyoming County in the vicinity of North Java echoed and re-echoed with the sound of small-arms fire as the members of the 174th Infantry Battalion, New York Army National Guard, spent a weekend at Camp O'Ryan. In the two-day period, the guardsmen devoted most of their time to practice on the ranges, improving their marksmanship with the .30 caliber M-1 rifle and the .45 caliber pistol, basic weapons of United States infantrymen.

The battalion is relatively new and formed in February of this year as part of the reorganization of the National Guard. The weekend at Camp O'Ryan marked the first time that units of the 174th, based at armories in Tonawanda, Batavia, Medina and Buffalo, were brought together for an operation as a full battalion.

Commanded by Lt. Col. DeAlton Booth, a veteran of 28 years in the Army and National Guard, the battalion has a complement of approximately 800 officers and men and is headquartered in the Masten Ave. armory. All the men are from Western New York, and most served in other guard units prior to joining the new group.

CAMP O'RYAN, established in 1942, is the only military installation of its kind in Western New York. Situated on 450 acres of rolling terrain, it includes a few service buildings, rifle and pistol ranges, a driver-training area and a sector in which small units can engage in tactical maneuvers. Creature comforts are minimal. The men sleep in pup tents, and food is prepared in and served from field kitchens in trucks.

The primary purpose of the camp is to provide facilities for training and practice in small-arms firing. Throughout the year it is used by units of the National Guard, Army Reserves, Naval Militia, Air Force and New York State Police. For guardsmen, the weekend at Camp O'Ryan is an annual event, and supplements the training given during their regular two-week tour of duty each summer at National Guard camps.

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NU Cadets To Train In Field

More than 100 Army ROTC cadets at Niagara University, representing the junior class, Pershing Rifles and Rangers, will participate in a 24-hour field-training program today and Sunday at Camp O'Ryan, North Java.

Cadet unit commanders for the exercise will be Gregory R. McGinn, Floral Park; Andrew E. Festa, Jr., New Hyde Park; and Riley J. Ruske, Cromwell, Conn.

The exercise, which will include patrolling, land navigation and small unit tactics under prevailing weather conditions, is being planned and supervised by Maj. John P. Castro, assistant professor of military science at the university.

In addition to developing teamwork and esprit within the participating units, the field problem will afford the cadets an opportunity to perform in both superior and subordinate capacities, Maj. Castro said.

He added that the training program also will give the cadets an insight into normal routine field operations and a preview of the challenge of ROTC summer camp, which cadets are required to attend at the end of their junior year.

Col. Robert S. Sumner, professor of military science at the University, will attend both the day and night phases of the program, Maj. Castro said.

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Real Estate Planning Report
Camp O'Ryan
The Town of Wethersfield
Wyoming County, New York

15 MAY 87

Department of the Army
US Army Engineer District, New York
26 Federal Plaza
New York, NY

G-26

Real Estate Planning Report
Camp O'Ryan
The Town of Wethersfield
Wyoming County, NY
Wyoming City I.D. No. 565000 Maps 106 & 118-2-61

1. AUTHORITY:

This report is prepared in accordance with a request in paragraph 1, 1st endorsement, dated 6 February 1987, by Fred W. Aron, Chief, Army Installations Division, in response to a request by Colonel John T. Law, NYARNG, Director of Logistics, to establish Camp O'Ryan as a Local Training Area (LTA), see exhibit A.

2. PURPOSE OF REPORT AND EFFECTIVE DATE:

The purpose of this report is to estimate the fair market value, as well as fair market rental value, of 370.01 acres of vacant land presently having only two structures, a storage building and a field latrine building. The land and these two buildings are all that remains of Camp O'Ryan, a former New York State National Guard training area which was vacated in June 1974. The effective date of this report is 15 May 1987.

3. DESCRIPTION OF THE GENERAL AREA:

Wyoming County is located in the western part of New York State, and is about 43 miles southeast of Buffalo, 35 miles north of the Pennsylvania State Line, 45 miles south of Rochester, 250 miles west of Albany and 290 miles northwest of New York City. See exhibit B1 and B2.

The County, which has an area of about 598 square miles, is very important for agriculture, and two thirds of its total acreage is used for growing crops. Dairying is the dominant type of farming which contributes \$50 million annually to the \$62.8 million from total farm production. The County ranks amongst the State's top counties in milk production, and its cattle population is estimated at 40,000. The most important field crop is potatoes which are grown on several thousand acres; most of these enter the market as potatoe chips. Other important crops include wheat, oats, corn, buckwheat and maple products.

About one-third the County is wooded with most of the wooded area being scattered in areas having steeper soils.

The 1980 census found that there were 39,895 people resident in the County. See exhibit C.

4. DESCRIPTION OF SUBJECT AREA:

Wyoming County can be thought of as being comprised of four quadrants, each made up of four towns. Wethersfield would be located just to the southwest of the point where the quadrants meet. See exhibit D. The Town has an area of approximately 36 square miles; its population is estimated at 637. Its description follows that of the County, however, cattle are being phased out in favor of potatoe farming. At present, about 6,000 - 8,000 acres of land in the Town are being used for this crop.

The subject is located in the northwest part of the town and is not far from the towns of Java Sheldon and Orangeville, which abut Wethersfield on the west, northwest and north, respectively. The subject is located on Wethersfield Road (County Highway 32), a two lane concrete paved road, and lies two and one half miles east of the junction of this road with State Highway 78, or 850 feet from Bumacker Road which enters the Wethersfield Road to the west of the subject. Bumacker, like many of the other side roads in the County, is an unsurfaced, light duty road which is open only part of the year. See exhibit D2.

The subject is irregular in shape. It is 5,560 feet long along the side which fronts on Wethersfield Road, and 3,890 feet in depth at its widest point; it encompasses 370.01 acres. See exhibit E.

The subject terrain, when viewed from Wethersfield Road, is mostly flat and grassy with sparse, low scrub. About 1/4 mile beyond the grassy area is a band of trees. See exhibit F. Aerial maps show another grassy area and then heavily wooded areas running in a broad band along the subject's western border and lying in a smaller circular area midway along the eastern border. See exhibit G.

There are no roads leading into the property, and all that could be found were vehicle tire tracks where the compressed stones prevented any grass from growing. The first of these was located off Wethersfield Road near the western edge of the property. The high area between the tracks appeared to present some danger to the bottom of a car. This danger became more noticeable as I got further in from the road, and this means of ingress was soon abandoned. A second set of tracks was located near the old camp storage building, which is situated a few feet off Wethersfield Road. It was followed for approximately 700 - 800 feet before the tracks ended. A third set of tracks was located several hundred feet east of the storage building. It led to a grassy rise near two upright posts. About 500 feet from the road, the tracks were lost in muddy depression and could not be located again in the adjacent area. A general plan of the facility and a photograph of a table model are presented in exhibits H and I in order to provide some information the subject's interior.

Improvements:

The improvements that were accessible were the previously mentioned storage building and latrine. The former is a large concrete block building approximately 185 feet long, 54 feet wide and approximately 18 feet to the apex of its gabled roof; it was built on a concrete slab. Each side wall has ten small windows situated in a line approximately eight feet above the ground; see exhibit J. At each end of the building is an access door and a large eleven foot high overhead door; the roof is made from corrugated metal; see exhibit K. The storage building was locked and therefore, no internal inspection could be made, however, the fact that it has electricity was shown by the fact that there was an external meter and light fixtures over the overhead doors.

The structure, which was built in 1952 at a cost of \$30,000, is presently in fair condition. Externally, the building seems sound with only the loss of some of the pointing to show wear.

The latrine is situated approximately 100 feet from Wethersfield Road and approximately 200 feet from the storage building. It uses a septic system since there are no sewers in the area.

The method of construction is similar to that used for the storage building, namely, concrete blocks on a concrete slab. It is approximately 20 feet wide by 35 feet long by 14 feet to the peak of its gabled roof. The building is open and the urinals, sinks and toilets are still in the facility (see exhibit L). The interior is in poor condition and birds now nest in the space under the roof. The exterior of the building is also in poor condition with the pointing having been lost in places, and blocks in the wall having shifted, leaving wide gaps between them. The building is not hooked up to a source of electricity at this time. The latrine was built in 1954 at a cost of \$30,000.

Near the latrine is a high earth mound topped by a row of poplar trees; see exhibit M. It is all that remains of the rifle range. A small target shed also located near the latrine has, over the years, fallen apart and pieces of it could easily be seen from the road.

5. PROPERTY CLASSIFICATION:

The properties in Wyoming County are classified under the uniform system used for assessment administration in New York State as per the Division of Equalization and Assessment. The subject is recorded as Classification No. 582. The 500 series refers to recreation and entertainment, "Property for the congregation or gathering of groups for recreation, amusement or entertainment". The 82 designates camping facilities which include parks with accommodations for tents, campers or travel trailers.

6. ASSESSMENTS AND TAXES:

The present assessment for the subject is \$8,200 for the land and \$4,800 for the improvements, giving a total assessment of \$13,000.

Tax is calculated on the following basis:

Warsaw Central School District	\$143.41 per \$1,000
Fire	2.95 per \$1,000
Town	78.37 per \$1,000
County	51.55 per \$1,000

Based on the above, the current tax for the subject is \$3,591.64.

7. UTILITIES:

The subject is located near overhead power and telephone lines which are strung on poles along Wethersfield Road. Lines strung on smaller poles carried power and telephone service from the main lines into the Camp itself; see exhibit N. There are no sewers in the area and waste disposal is by means of septic systems. Water is obtained from wells.

8. PROPOSED USE:

It has been proposed that Camp O'Ryan be reestablished as a Local Training Area (LTA) for the New York National Guard, as well as other Army and Marine reserve units. Because of its central location and its combination of farm land and wooded terrain, it would be well suited to train combat support and service support units, in addition to its primary purpose which would be for training combat arms units.

There are two other training sites located within 100 miles of Camp O'Ryan, these being the Youngstown and Newark training sites. They, however, have several shortcomings which are discussed below.

Youngstown, which is located approximately 35 miles north of Buffalo, consists of two parcels totalling 398 $\frac{1}{2}$ acres. The training area, which is located on Air Force property is also used by Bell Aerospace Systems. The training area is densely wooded in some parts, and maneuver areas are limited because of the many ammunition storage bunkers dispersed throughout the site. The rifle range is heavily used by units from the Buffalo area, however, units located in southwestern New York do not use the site because of its distance.

The Newark training site is state owned and located approximately 30 miles east of the city of Rochester. The site consists of 130 acres, with only 90 acres available for training. Although the

terrain is rolling farmland, armor units from southwestern New York do not use the site because of its distance from their area. The site does not have a rifle range since it is adjacent to occupied homes, farms, and a trailer court.

Camp O'Ryan also has shortcomings, and these are enumerated in a section of a report prepared by Mayor Robert R. Gordon, Jr. who is a Safety Officer with the Infantry of the New York Guard. The salient points of this report deal with the fact that the maximum range of present weapons such as the M-16 extend beyond the property line of the Camp. The dispersion area and ricochet area left of center of the old firing line extends out over the Wethersfield Road. Construction of baffles would be required if the area is to be used for firing ranges since the terrain is basically flat and has no features which would naturally contain projectiles. Fencing would also be required to keep unauthorized persons out of the area.

Though this may appear to negate any of the Camp's advantages such as its central location and a terrain ideally suited for training, it should be noted that no camp in New York State has enough area, or topographical features which could naturally contain projectiles except Fort Drum, the latter could only be reached after a five hour drive from the Buffalo area.

9. FLOODING AND TOPOGRAPHY:

No flood maps were available for the Wethersfield area, however, the Federal Emergency Management Agency at 26 Federal Plaza, New York had marked Wethersfield with an "M" in their index; the "M" stands for minimal flooding. This condition may be due to the fact that the Camp is located near the highest point in the County.

The topography, as per the General Soil Map for Wyoming County (see exhibit O), is Varysburg - Williamson - Churchville association. The full details on this association are given in exhibit P. Basically, most areas of this association have been cleared, and are mainly for growing crops which are used in dairy farming. Controlling erosion is a problem because most soils occupy parts of long slopes, and large areas of the soil are very erodible. An increasing acreage of this association is being left idle.

A few areas provide good homesites in this association, but most of the soils are moderately to seriously limited for many non farm uses. Bearing strengths are extremely variable, and slippage of side slopes is prevalent in at least half of the areas.

A general topographic map of the area (see exhibit Q) indicates that the height of the property ranges between 1,800 feet and 1,850 feet above sea level.

The predominating soil types which are found on the subject are as follows:

WsB Williamson *channery silt loam 3 - 8% slopes
WsC Williamson *channery silt loam 8 - 15% slopes

There are also smaller areas of the following:

BiC Bath - Valois gravelly loams 8 - 15% slopes
EsB Erie *channery silt loam 3 - 8% slopes
VoB Volusia *channery silt loam 3 - 8% slopes

See exhibit R.

These soils are moderately to well drained except for the VoB and EsB areas which are poorly drained. They are nearly level to moderately sloping, medium textured, with lime contents that are low to very low. For detailed soil characteristics, see exhibit S1 - S7.

*channery soil contains thin, flat fragments of sandstone, limestone or schist, as much as six inches in length.

10. REACTION OF TOWN SUPERVISOR AND DEPUTY TOWN SUPERVISOR:

Deputy Supervisor, Robert Carlson, personally was not adverse to the reestablishment of Camp O'Ryan, and he was of the belief that most of the townspeople, "Who are hard working farmers", would not object to it either. The Town Supervisor, Ronald P. Herman, Sr., also felt that the townspeople and the Town Councilmen would not object to the activation of the Camp even though the matter has never been brought up. He did point out that the reestablishment of the Camp would not mean much to the town since there was only one store which could profit from the extra business in fact, it would probably act to the Town's detriment since it might remove the land from the local tax role.

11. ATTITUDE OF OWNER:

Colonel John T. Law's initial letter, dated 22 December 1986, requesting the reactivation of Camp O'Ryan as an LTA, stated that they understood that Mrs. Edward George, the current landowner, would be interested in leasing or selling the subject for National Guard use.

12. HIGHEST AND BEST USE:

This involves the use of the subject for generating the most profit at the time of the appraisal, or its use and program of future use which will provide the highest present land values.

An American flag painted on the side of the storage building with the name "Vet's Camp - Site", (see exhibit J) indicates that the owner might have tried to develop the property for camping sometime after Camp O'Ryan was vacated. The rundown, deserted appearance of the place indicates that a camp-site in that area might not have been too viable an idea. The subject's predominant soil types, however, are well suited for crops, and its highest and best use, in its particular location, would be for agriculture.

13. VALUATION:

Recent sales of vacant land in Wyoming county are given below.

Sale	Town of	Size (acres)	Recorded Sales Date	Land Classifi- cation (see exhibit T)	Sales Price	Price Per Acre
1	Middlebury	11.15	12/30/86	320	\$10,000	\$896.86
2	Middlebury	38.36	09/04/86	120	\$22,000	\$573.51
3	Perry	41.62	05/29/86	120	\$25,368	\$609.51
	Village of Perry					
4	Pike	37.17	01/27/87	910	\$22,500	\$605.33
5	Sheldon	57.44	12/18/86	120	\$37,000	\$644.15
6	Warsaw	52.83	08/05/86	112	\$44,000	\$832.86

The value of the land in the County does not appear to hinge on its classification or its location within the County. Value appears to depend on the extent to which the property is cleared of trees and scrub, and its topography. The Fair Market Value of the subject is estimated at \$650 per acre, or \$240,506.50, say \$240,500, for the entire parcel.

The present value of the storage building, as per costs given in Marshall Valuation Service and after depreciation, is estimated to be \$31,700.

The latrine, which is in poorer condition, has an estimated present value of \$2,100. The total estimated fair market value of the subject is therefore \$274,300.

No rental information on land was found since this is not recorded, or generally known about as it is in more populated areas. A rent based on an income approach, namely, a 10% return on value, per year, for ten years, was used to determine the FMRV. The fair market rental value of the subject is estimated to be \$27,430 per annum.

14. RELOCATION BENEFITS AND SEVERANCE DAMAGE:

No relocation is involved if the property is obtained in fee, and no severance damage is applicable because the subject parcel would be taken in its entirety.

15. ADMINISTRATIVE COSTS:

Estimated administrative costs are presented below:

Mapping and Surveys	\$ 4,000
Appraisals	3,000
Title Evidence	1,800
Negotiating and Closing	2,500
Records and Miscellaneous	900
Contingencies	<u>3,000</u>
	\$15,200

16. CONCLUSION:

Analysis of the facts regarding Camp O'Ryan demonstrates that the site would make a valuable Local Training Area (LTA) for military units in Western New York State. If it is reactivated it would be superior to the other LTAs already in use, while providing accessibility from a wider geographic area.

17. RECOMMENDATIONS:

It is recommended that steps toward the rental, or acquisition of the subject site be made as soon as possible.

18. ASSUMPTIONS AND LIMITATION:

Pertinent data and information present in this report are believed to be accurate. No responsibility is assumed for matters legal in character, nor is any opinion rendered as to the title, which is considered good. Information furnished by others is considered to be reliable, but no responsibility is assumed for its accuracy.

The maps, sketches, and/or drawings contained in this report are included to help the reader in visualizing the property. I have made no metes and bounds survey of the property and no responsibility for its accuracy is assumed.

19. CERTIFICATION:

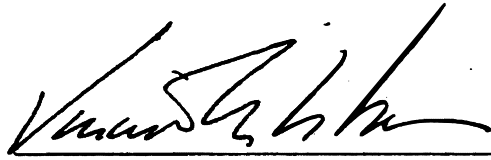
I certify that I am familiar with and have inspected the subject property. Recommendations and values set forth are my unbiased judgement. I further certify that I have no past, present or future interest in the property that might influence the preparation of this report.

Date: 19 June 1987


MARTIN JACOBS
Staff Appraiser


Reviewed and Accepted:

Date: 6/22/1987


VINCENT M. WAHN
Chief, Appraisal Branch
New York District

Reviewed and Approved:

Date: JUN 23 1987


ROBERT C. DESIMONE
Chief, Appraisal Branch
North Atlantic Division

APPROVED FOR PLANNING
PURPOSES R DESIMONE
NADRE-E NY DATE



Wyoming County

Federally Listed Endangered and Threatened Species and Candidate Species

This list represents the best available information regarding known or likely County occurrences of Federally-listed and candidate species and is subject to change as new information becomes available.

Common Name	Scientific Name	Status
Bald eagle ¹	<i>Haliaeetus leucocephalus</i>	D

Status Codes: E=Endangered T=Threatened P=Proposed C=Candidate D=Delisted

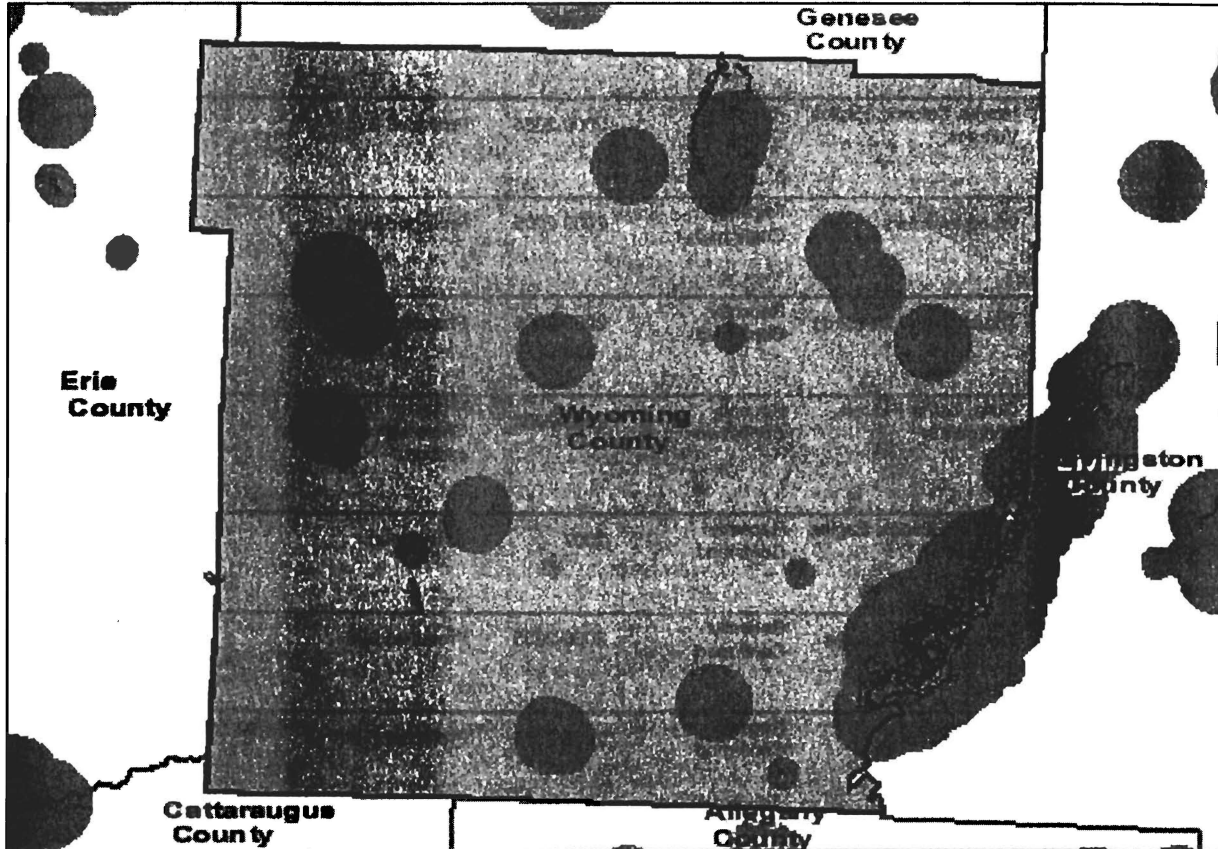
¹ The bald eagle was delisted on August 8, 2007. While there are no ESA requirements for bald eagles after this date, the eagles continue to receive protection under the Bald and Golden Eagle Protection Act (BGEPA). Please follow the Service's May 2007 Bald Eagle Management Guidelines to determine whether you can avoid impacts under the BGEPA for your projects. If you have any questions, please contact the endangered species branch in our office.

Information current as of: 12/3/2009

New York Nature Explorer

County Results Report

Criteria: County: Wyoming



Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Protection Status Federal	Conservation Rank State	Conservation Rank Global
County: Wyoming							

Animal: Birds

Acadian Flycatcher <i>Empidonax virens</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S3	G5
Alder Flycatcher <i>Empidonax alnorum</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
American Bittern <i>Botaurus lentiginosus</i>	Hérons, Bitterns, Egrets, Ibises	Recently Confirmed	2000-2005	Special Concern		S4	G4
American Black Duck <i>Anas rubripes</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S4	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
American Crow <i>Corvus brachyrhynchos</i>	Crows and Jays	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
American Goldfinch <i>Carduelis tristis</i>	Finches and Crossbills	Recently Confirmed	2000-2005	Protected Bird		S5	G5
American Kestrel <i>Falco sparverius</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Protected Bird		S5	G5
American Redstart <i>Setophaga ruticilla</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
American Robin <i>Turdus migratorius</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
American Woodcock <i>Scolopax minor</i>	Gulls, Terns, Plovers, Shorebirds	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Bald Eagle <i>Haliaeetus leucocephalus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2007	Threatened		S2S3B,S2NG5	
Baltimore Oriole <i>Icterus galbula</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Bank Swallow <i>Riparia riparia</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Barn Owl <i>Tyto alba</i>	Owls	Recently Confirmed		Protected Bird		S1S2	G5
Barn Swallow <i>Hirundo rustica</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Barred Owl <i>Strix varia</i>	Owls	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Belted Kingfisher <i>Megascyle alcyon</i>	Kingfishers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Black-and-white Warbler <i>Mniotilta varia</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i>	Cuckoos	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Black-capped Chickadee <i>Poecile atricapillus</i>	Chickadees and Titmice	Recently Confirmed	2000-2005	Protected Bird		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Black-throated Blue Warbler <i>Dendroica caerulescens</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Black-throated Green Warbler <i>Dendroica virens</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Blackburnian Warbler <i>Dendroica fusca</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Blue Jay <i>Cyanocitta cristata</i>	Crows and Jays	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Blue-gray Gnatcatcher <i>Polioptila caerulea</i>	Gnatcatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Blue-headed Vireo <i>Vireo solitarius</i>	Vireos	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Blue-winged Teal <i>Anas discors</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Blue-winged Warbler <i>Vermivora pinus</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Bobolink <i>Dolichonyx oryzivorus</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Brewster's Warbler <i>Vermivora pinus x chrysoptera</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		SNA	GNA
Broad-winged Hawk <i>Buteo platypterus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Brown Creeper <i>Certhia americana</i>	Creepers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Brown Thrasher <i>Toxostoma rufum</i>	Mockingbirds and Thrashers	Recently Confirmed	2000-2005	Protected Bird		S3S4	G5
Brown-headed Cowbird <i>Molothrus ater</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Canada Goose <i>Branta canadensis</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Canada Warbler <i>Wilsonia canadensis</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Carolina Wren <i>Thryothorus ludovicianus</i>	Wrens	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Cedar Waxwing <i>Bombycilla cedrorum</i>	Waxwings	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Cerulean Warbler <i>Dendroica cerulea</i>	Wood-Warblers	Recently Confirmed	2000-2005	Special Concern		S4B	G4
Chestnut-sided Warbler <i>Dendroica pensylvanica</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Chimney Swift <i>Chaetura pelagica</i>	Hummingbirds and Swifts	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Chipping Sparrow <i>Spizella passerina</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Clay-colored Sparrow <i>Spizella pallida</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S2	G5
Cliff Swallow <i>Petrochelidon pyrrhonota</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Common Grackle <i>Quiscalus quiscula</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Common Merganser <i>Mergus merganser</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Common Moorhen <i>Gallinula chloropus</i>	Rails, Coots and Cranes	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S4	G5
Common Raven <i>Corvus corax</i>	Crows and Jays	Recently Confirmed	2000-2005	Protected Bird		S4	G5
Common Yellowthroat <i>Geothlypis trichas</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Cooper's Hawk <i>Accipiter cooperii</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Special Concern		S4	G5
Dark-eyed Junco <i>Junco hyemalis</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Downy Woodpecker <i>Picoides pubescens</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Eastern Bluebird <i>Sialia sialis</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Kingbird <i>Tyrannus tyrannus</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Meadowlark <i>Sturnella magna</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Phoebe <i>Sayornis phoebe</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Screech-Owl <i>Megascops asio</i>	Owls	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Towhee <i>Pipilo erythrophthalmus</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Eastern Wood-Pewee <i>Contopus virens</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
European Starling <i>Sturnus vulgaris</i>	Starlings	Recently Confirmed	2000-2005			SNA	G5
Evening Grosbeak <i>Coccothraustes vespertinus</i>	Finches and Crossbills	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Field Sparrow <i>Spizella pusilla</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Golden-crowned Kinglet <i>Regulus satrapa</i>	Kinglets	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Golden-winged Warbler <i>Vermivora chrysoptera</i>	Wood-Warblers	Recently Confirmed	2000-2005	Special Concern		S4	G4
Grasshopper Sparrow <i>Ammodramus savannarum</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Special Concern		S4	G5
Gray Catbird <i>Dumetella carolinensis</i>	Mockingbirds and Thrashers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Great Blue Heron <i>Ardea herodias</i>	Herons, Bitterns, Egrets, Ibises	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Great Crested Flycatcher <i>Myiarchus crinitus</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Great Horned Owl <i>Bubo virginianus</i>	Owls	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Green Heron <i>Butorides virescens</i>	Hérons, Bitterns, Egrets, Ibises	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Green-winged Teal <i>Anas crecca</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S3	G5
Hairy Woodpecker <i>Picoides villosus</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Henslow's Sparrow <i>Ammodramus henslowii</i>	Sparrows and Towhees	Recently Confirmed	2002	Threatened		S3B	G4
Hermit Thrush <i>Catharus guttatus</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Hooded Merganser <i>Lophodytes cucullatus</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S4	G5
Hooded Warbler <i>Wilsonia citrina</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Horned Lark <i>Eremophila alpestris</i>	Larks	Recently Confirmed	2000-2005	Special Concern		S3S4	G5
House Finch <i>Carpodacus mexicanus</i>	Finches and Crossbills	Recently Confirmed	2000-2005	Protected Bird		SNA	G5
House Sparrow <i>Passer domesticus</i>	Old World Sparrows	Recently Confirmed	2000-2005			SNA	G5
House Wren <i>Troglodytes aedon</i>	Wrens	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Indigo Bunting <i>Passerina cyanea</i>	Cardinals and Buntings	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Killdeer <i>Charadrius vociferus</i>	Gulls, Terns, Plovers, Shorebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Lawrence's Warbler <i>Vermivora chrysoptera x pinus</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		SNA	GNA
Least Bittern <i>Ixobrychus exilis</i>	Hérons, Bitterns, Egrets, Ibises	Recently Confirmed	2000-2005	Threatened		S3B,S1N	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Least Flycatcher <i>Empidonax minimus</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Long-eared Owl <i>Asio otus</i>	Owls	Recently Confirmed	2000-2005	Protected Bird		S2S3B,SN RN	G5
Louisiana Waterthrush <i>Seiurus motacilla</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Magnolia Warbler <i>Dendroica magnolia</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Mallard <i>Anas platyrhynchos</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Marsh Wren <i>Cistothorus palustris</i>	Wrens	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Mourning Dove <i>Zenaida macroura</i>	Pigeons and Doves	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Mourning Warbler <i>Oporornis philadelphia</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Nashville Warbler <i>Vermivora ruficapilla</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Northern Bobwhite <i>Colinus virginianus</i>	Grouse, Pheasants, Turkeys	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S4	G5
Northern Cardinal <i>Cardinalis cardinalis</i>	Cardinals and Buntings	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Northern Flicker <i>Colaptes auratus</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Northern Goshawk <i>Accipiter gentilis</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Special Concern		S4B,S3N	G5
Northern Harrier <i>Circus cyaneus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2004	Threatened		S3B,S3N	G5
Northern Mockingbird <i>Mimus polyglottos</i>	Mockingbirds and Thrashers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Northern Rough-winged Swallow <i>Stelgidopteryx serripennis</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Northern Saw-whet Owl <i>Aegolius acadicus</i>	Owls	Recently Confirmed	2000-2005	Protected Bird		S3	G5
Northern Waterthrush <i>Seiurus noveboracensis</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Orchard Oriole <i>Icterus spurius</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S4	G5
Osprey <i>Pandion haliaetus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Special Concern		S4B	G5
Ovenbird <i>Seiurus aurocapilla</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Pied-billed Grebe <i>Podilymbus podiceps</i>	Grebes	Recently Confirmed	2004	Threatened		S3B,S1N	G5
Pileated Woodpecker <i>Dryocopus pileatus</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Pine Siskin <i>Carduelis pinus</i>	Finches and Crossbills	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Pine Warbler <i>Dendroica pinus</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Prairie Warbler <i>Dendroica discolor</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Purple Finch <i>Carpodacus purpureus</i>	Finches and Crossbills	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Purple Martin <i>Progne subis</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Red-bellied Woodpecker <i>Melanerpes carolinus</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Red-breasted Nuthatch <i>Sitta canadensis</i>	Nuthatches	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Red-eyed Vireo <i>Vireo olivaceus</i>	Vireos	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i>	Woodpeckers	Recently Confirmed	2000-2005	Special Concern		S2?	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Red-shouldered Hawk <i>Buteo lineatus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Special Concern		S4B	G5
Red-tailed Hawk <i>Buteo jamaicensis</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Red-winged Blackbird <i>Agelaius phoeniceus</i>	Blackbirds and Orioles	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Ring-necked Pheasant <i>Phasianus colchicus</i>	Grouse, Pheasants, Turkeys	Recently Confirmed	2000-2005	Protected Bird - Game with open season		SNA	G5
Rock Pigeon <i>Columba livia</i>	Pigeons and Doves	Recently Confirmed	2000-2005			SNA	G5
Rose-breasted Grosbeak <i>Pheucticus ludovicianus</i>	Cardinals and Buntings	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Ruby-throated Hummingbird <i>Archilochus colubris</i>	Hummingbirds and Swifts	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Ruddy Duck <i>Oxyura jamaicensis</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S1	G5
Ruffed Grouse <i>Bonasa umbellus</i>	Grouse, Pheasants, Turkeys	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Savannah Sparrow <i>Passerculus sandwichensis</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Scarlet Tanager <i>Piranga olivacea</i>	Tanagers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Sedge Wren <i>Cistothorus platensis</i>	Wrens	Historically Confirmed		Threatened		S3B	G5
Sharp-shinned Hawk <i>Accipiter striatus</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Special Concern		S4	G5
Short-eared Owl <i>Asio flammeus</i>	Owls	Recently Confirmed	1990	Endangered		S2	G5
Song Sparrow <i>Melospiza melodia</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Sora <i>Porzana carolina</i>	Rails, Coots and Cranes	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S4	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Spotted Sandpiper <i>Actitis macularius</i>	Gulls, Terns, Plovers, Shorebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Swainson's Thrush <i>Catharus ustulatus</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Swamp Sparrow <i>Melospiza georgiana</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Tree Swallow <i>Tachycineta bicolor</i>	Swallows	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Tufted Titmouse <i>Baeolophus bicolor</i>	Chickadees and Titmice	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Turkey Vulture <i>Cathartes aura</i>	Hawks, Falcons, Eagles, Vultures	Recently Confirmed	2000-2005	Protected Bird		S4	G5
Upland Sandpiper <i>Bartramia longicauda</i>	Gulls, Terns, Plovers, Shorebirds	Recently Confirmed	2003	Threatened		S3B	G5
Veery <i>Catharus fuscescens</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Vesper Sparrow <i>Poocetes gramineus</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Special Concern		S5	G5
Virginia Rail <i>Rallus limicola</i>	Rails, Coots and Cranes	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Warbling Vireo <i>Vireo gilvus</i>	Vireos	Recently Confirmed	2000-2005	Protected Bird		S5	G5
White-breasted Nuthatch <i>Sitta carolinensis</i>	Nuthatches	Recently Confirmed	2000-2005	Protected Bird		S5	G5
White-throated Sparrow <i>Zonotrichia albicollis</i>	Sparrows and Towhees	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Wild Turkey <i>Meleagris gallopavo</i>	Grouse, Pheasants, Turkeys	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Willow Flycatcher <i>Empidonax traillii</i>	Flycatchers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Wilson's Snipe <i>Gallinago delicata</i>	Gulls, Terns, Plovers, Shorebirds	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Winter Wren <i>Troglodytes troglodytes</i>	Wrens	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Wood Duck <i>Aix sponsa</i>	Ducks, Geese, Waterfowl	Recently Confirmed	2000-2005	Protected Bird - Game with open season		S5	G5
Wood Thrush <i>Hylocichla mustelina</i>	Thrushes and Bluebirds	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Yellow Warbler <i>Dendroica petechia</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Yellow-bellied Sapsucker <i>Sphyrapicus varius</i>	Woodpeckers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Yellow-billed Cuckoo <i>Coccyzus americanus</i>	Cuckoos	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Yellow-breasted Chat <i>Icteria virens</i>	Wood-Warblers	Recently Confirmed	2000-2005	Special Concern		S3	G5
Yellow-rumped Warbler <i>Dendroica coronata</i>	Wood-Warblers	Recently Confirmed	2000-2005	Protected Bird		S5	G5
Yellow-throated Vireo <i>Vireo flavifrons</i>	Vireos	Recently Confirmed	2000-2005	Protected Bird		S5	G5

Animal: Reptiles

Common Gartersnake <i>Thamnophis sirtalis</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Dekay's Brownsnake <i>Storeria dekayi</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Eastern Ratsnake <i>Elaphe obsoleta</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S4	G5
Milksnake <i>Lampropeltis triangulum</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Northern Watersnake <i>Nerodia sipedon</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Painted Turtle <i>Chrysemys picta</i>	Turtles	Recently Confirmed	1990-1999	Game with no open season		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Queen Snake <i>Regina septemvittata</i>	Snakes	Historically Confirmed	1957	Endangered		S1	G5
Red-bellied Snake <i>Storeria occipitomaculata</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Ring-necked Snake <i>Diadophis punctatus</i>	Snakes	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Snapping Turtle <i>Chelydra serpentina</i>	Turtles	Recently Confirmed	1990-1999	Game with open season		S5	G5
Spiny Softshell <i>Apalone spinifera</i>	Turtles	Historically Confirmed		Special Concern		S2S3	G5
Timber Rattlesnake <i>Crotalus horridus</i>	Snakes	Recently Confirmed	2001	Threatened		S3	G4
Wood Turtle <i>Glypemys insculpta</i>	Turtles	Recently Confirmed	1990-1999	Special Concern		S3	G4

Animal: Amphibians

Allegheny Mountain Dusky Salamander <i>Desmognathus ochrophaeus</i>	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
American Toad <i>Bufo americanus</i>	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
Blue-spotted Salamander <i>Ambystoma laterale</i>	Salamanders	Recently Confirmed	1990-1999	Special Concern		S4	G5
Bullfrog <i>Rana catesbeiana</i>	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
Dusky Salamander <i>Desmognathus fuscus</i>	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Eastern Newt <i>Notophthalmus viridescens</i>	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Four-toed Salamander <i>Heinickeastylus scutatum</i>	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
Gray Treefrog <i>Hyla versicolor</i>	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection State	Status Federal	Conservation State	Rank Global
Green Frog	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
<i>Rana clamitans</i>							
Jefferson Salamander	Salamanders	Recently Confirmed	1990-1999	Special Concern		S4	G4
<i>Ambystoma jeffersonianum</i>							
Jefferson Salamander Complex	Salamanders	Recently Confirmed	1990-1999	Game with no open season		SNA	GNA
<i>Ambystoma jeffersonianum x laterale</i>							
Northern Leopard Frog	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
<i>Rana pipiens</i>							
Northern Slimy Salamander	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
<i>Plethodon glutinosus</i>							
Northern Two-lined Salamander	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
<i>Eurycea bislineata</i>							
Pickerel Frog	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
<i>Rana palustris</i>							
Redback Salamander	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
<i>Plethodon cinereus</i>							
Spotted Salamander	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
<i>Ambystoma maculatum</i>							
Spring Peeper	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
<i>Pseudacris crucifer</i>							
Spring Salamander	Salamanders	Recently Confirmed	1990-1999	Game with no open season		S5	G5
<i>Gyrinophilus porphyriticus</i>							
Western Chorus Frog	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S4	G5
<i>Pseudacris triseriata</i>							
Wood Frog	Frogs and Toads	Recently Confirmed	1990-1999	Game with open season		S5	G5
<i>Rana sylvatica</i>							

Animal: Fish

Black Redhorse	Minnows, Shiners, Suckers	Historically Confirmed	1926	Special Concern		S2	G5
<i>Moxostoma chiquesnei</i>							
Blackchin Shiner	Minnows, Shiners, Suckers	Historically Confirmed	1940			S1	G5
<i>Notropis heterodon</i>							

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Protection Status Federal	Conservation Rank State	Conservation Rank Global
Iowa Darter	Darters and Sunfishes	Historically Confirmed				S2	G5
<i>Etheostoma exile</i>							

Animal: Dragonflies and Damselflies

Blue-tipped Dancer	Damselflies	Recently Confirmed				S2	G5
<i>Angia tibialis</i>							
Gray Petaltail	Dragonflies	Recently Confirmed	2008	Special Concern		S2	G4
<i>Tachopteryx thoreyi</i>							

Animal: Beetles

Appalachian Tiger Beetle	Tiger Beetles	Recently Confirmed	2002			S2	G3
<i>Cicindela ancoclisconensis</i>							
Cobblestone Tiger Beetle	Tiger Beetles	Recently Confirmed	2002			S1	G2
<i>Cicindela marginipennis</i>							

Plant: Flowering Plants

Basil-balm	Other Flowering Plants	Historically Confirmed	1923	Endangered		S1S2	G5
<i>Monarda clinopodia</i>							
Bird's-eye Primrose	Other Flowering Plants	Recently Confirmed	2003	Threatened		S2	G5
<i>Primula mistassinica</i>							
Butternut	Other Flowering Plants	Historically Confirmed				S4	G4
<i>Juglans cinerea</i>							
Butterwort	Other Flowering Plants	Recently Confirmed	2008	Threatened		S2	G5
<i>Pinguicula vulgaris</i>							
Cork Elm	Other Flowering Plants	Historically Confirmed		Threatened		S2S3	G5
<i>Ulmus thomasti</i>							
Creamy Wild-pea	Other Flowering Plants	Recently Confirmed				S3	G4G5
<i>Lathyrus ochroleucus</i>							
Creeping Sedge	Sedges	Recently Confirmed	1990	Threatened		S2	G5
<i>Carex chordorrhiza</i>							
Culver's-root	Other Flowering Plants	Historically Confirmed		Threatened		S2	G4
<i>Veronicastrum virginicum</i>							

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Fernald's Sedge <i>Carex merritt-fernaldii</i>	Sedges	Historically Confirmed	1924	Threatened		S2S3	G5
Giant Pine-drops <i>Pteropora andromeda</i>	Other Flowering Plants	Historically Confirmed	1863	Endangered		S1	G5
Golden-seal <i>Hydrastis canadensis</i>	Other Flowering Plants	Recently Confirmed	2008	Threatened		S2	G4
Green Gentian <i>Frasera carolinensis</i>	Other Flowering Plants	Recently Confirmed	2003	Threatened		S2	G5
Hooker's Orchid <i>Platanthera hookeri</i>	Orchids	Historically Confirmed	1886	Endangered		S1	G4
James' Sedge <i>Carex jamesii</i>	Sedges	Recently Confirmed	2003	Threatened		S2	G5
Mountain Death Camas <i>Zigadenus elegans ssp. glaucus</i>	Other Flowering Plants	Recently Confirmed	1992	Threatened		S2	G5T4T5
Nodding Wild Onion <i>Allium cernuum var. cernuum</i>	Other Flowering Plants	Historically Confirmed	1971	Threatened		S2	G5T5
Northern Bog Violet <i>Viola nephrophylla</i>	Other Flowering Plants	Historically Confirmed		Endangered		S1	G5
Ohio Goldenrod <i>Oligoneuron ohioense</i>	Asters, Goldenrods and Daisies	Recently Confirmed	2003	Threatened		S2	G4
Pale Indian-plantain <i>Arnoglossum atriplicifolium</i>	Asters, Goldenrods and Daisies	Possible but not Confirmed				SH	G4G5
Purple Cress <i>Cardamine douglassii</i>	Other Flowering Plants	Recently Confirmed				S2S3	G5
Schweinitz's Sedge <i>Carex schweinitzii</i>	Sedges	Recently Confirmed		Threatened		S2S3	G3G4
Small Yellow Ladyslipper <i>Cypripedium parviflorum var. parviflorum</i>	Orchids	Historically Confirmed		Endangered		SH	G5T3T5
Southern Twayblade <i>Listera australis</i>	Orchids	Historically Confirmed		Endangered		S1S2	G4
Speckled Woodlily <i>Clintonia umbellulata</i>	Other Flowering Plants	Recently Confirmed				S3	G5

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Spreading Globeflower <i>Trollius laxus</i>	Other Flowering Plants	Recently Confirmed	2001	Rare		S3	G3
Swamp Buttercup <i>Ranunculus hispidus</i> var. <i>nitidus</i>	Other Flowering Plants	Historically Confirmed		Endangered		S1	G5T5
Swamp Smartweed <i>Persicaria setacea</i>	Other Flowering Plants	Historically Confirmed	1926	Endangered		S1S2	G5
Sweet Coltsfoot <i>Petasites frigidus</i> var. <i>palmatus</i>	Asters, Goldenrods and Daisies	Historically Confirmed	1874	Endangered		S1	G5T5
Violet Bush-clover <i>Lespedeza violacea</i>	Other Flowering Plants	Recently Confirmed		Rare		S3	G5
Wafer-ash <i>Ptelea trifoliata</i> ssp. <i>trifoliata</i>	Other Flowering Plants	Historically Confirmed		Endangered		S1S2	G5T5
Water-marigold <i>Bidens beckii</i>	Asters, Goldenrods and Daisies	Historically Confirmed		Threatened		S3	G4G5
Water-thread Pondweed <i>Potamogeton diversifolius</i>	Other Flowering Plants	Recently Confirmed	1984	Endangered		S1	G5
Wild Hydrangea <i>Hydrangea arborescens</i>	Other Flowering Plants	Recently Confirmed		Endangered		S2	G5
Willdenow's Sedge <i>Carex willdenowii</i>	Sedges	Recently Confirmed	2003	Threatened		S2S3	G5
Woodland Agrimony <i>Agrimonia rostellata</i>	Other Flowering Plants	Recently Confirmed	2003	Threatened		S2	G5
Woodland Bluegrass <i>Poa sylvestris</i>	Grasses	Historically Confirmed	1951	Endangered		S1	G5
Woodland Cudweed <i>Omalotheca sylvatica</i>	Asters, Goldenrods and Daisies	Recently Confirmed	2003	Endangered		S1	G4
Yellow Mountain-saxifrage <i>Saxifraga aizoides</i>	Other Flowering Plants	Recently Confirmed	2008	Threatened		S2	G5
Yellow Wild Flax <i>Linum sulcatum</i>	Other Flowering Plants	Historically Confirmed		Threatened		S2	G5

Plant: Ferns and Fern Allies

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status State	Federal	Conservation Rank State	Global
Blunt-lobed Grape Fern <i>Botrychium oneidense</i>	Ferns	Historically Confirmed		Endangered		S2S3	G4Q

Plant: Mosses

Coast creeping moss <i>Conardia compacta</i>	Other Mosses	Recently Confirmed	2005			S1	G3G5
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Natural Community: Uplands

Appalachian Oak-Hickory Forest <i>Appalachian oak-hickory forest</i>	Forested Uplands	Recently Confirmed	2000			S4	G4G5
Cobble Shore <i>Cobble shore</i>	Open Uplands	Recently Confirmed	2000			S4	G4G5
Hemlock-Northern Hardwood Forest <i>Hemlock-northern hardwood forest</i>	Forested Uplands	Recently Confirmed	2000			S4	G4G5
Maple-Basswood Rich Mesic Forest <i>Maple-basswood rich mesic forest</i>	Forested Uplands	Recently Confirmed	2000			S3	G4
Shale Cliff and Talus Community <i>Shale cliff and talus community</i>	Open Uplands	Recently Confirmed	2000			S3	G4

Natural Community: Freshwater Nontidal Wetlands

Black Spruce-Tamarack Bog <i>Black spruce-tamarack bog</i>	Forested Peatlands	Recently Confirmed	1990			S3	G4G5
Dwarf Shrub Bog <i>Dwarf shrub bog</i>	Open Peatlands	Recently Confirmed	2005			S3	G4
Floodplain Forest <i>Floodplain forest</i>	Forested Mineral Soil Wetlands	Recently Confirmed	2005			S2S3	G3G4
Hemlock-Hardwood Swamp <i>Hemlock-hardwood swamp</i>	Forested Mineral Soil Wetlands	Recently Confirmed	1990			S4	G4G5
Inland Poor Fen <i>Inland poor fen</i>	Open Peatlands	Recently Confirmed	2005			S3	G4
Rich Hemlock-Hardwood Peat Swamp <i>Rich hemlock-hardwood peat swamp</i>	Forested Peatlands	Recently Confirmed	1991			S2S3	G3G4

New York Nature Explorer

Common Name	Subgroup	Distribution Status	Year Last Documented	Protection Status		Conservation Rank	
				State	Federal	State	Global
Rich Sloping Fen <i>Rich sloping fen</i>	Open Peatlands	Recently Confirmed	1999			S1S2	G3
Shrub Swamp <i>Shrub swamp</i>	Open Mineral Soil Wetlands	Recently Confirmed	1991			S5	G5

This list only includes records from the databases of the NY Natural Heritage Program, the second NYS Breeding Bird Atlas Project, and the NY Amphibian and Reptile Atlas Project. This list is not a definitive statement about the presence or absence of all plants and animals, including rare or state-listed species, or of all significant natural communities.

**NEW YORK STATE DEPARTMENT
OF
ENVIRONMENTAL CONSERVATION**



**SITE INVESTIGATION REPORT
CAMP O'RYAN RIFLE RANGE
GAINESVILLE, NEW YORK**

May 2009

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1.0 Background

Camp O’Ryan is located in Gainesville, NY, Wyoming County, designated as tax parcel SBL-106.2-61.1.

Land Lease # 30-075, dated May 26, 1949 and expiring on June 30, 1974 (Attachment 1), indicates that the Camp O’Ryan site was leased by Edward N. George, Jr., to the War Department, Corps of Engineers, New York District, for use as a target range, maneuver area, camp site, and general government purposes.

This 375 acre site remains in the ownership of the Edward N. George Estate. There are no security fences or posted signs. There are a few remaining buildings from past use of the site. A small parcel of the site (4.83 acres, SBL-106.2-61.2) was sold to King Brothers Masonry Contractors at 3060 Wethersfield Road, Gainesville, NY.

According to the NYS Division of Military and Naval Affairs (DMNA), the types of activities which occurred at the site included firing small arms and vehicular maneuvers (Attachment 2). The small arms fired non-explosive ordnances (bullets). The unfired small arms typically do not represent a safety hazard. According to DMNA, there were no explosive ordnances used at the site (grenades, mines, etc.). Additionally, DMNA indicated that the site is not large enough to have been used for firing large caliber explosive shells (cannons, tank cannons, etc.). During firing practice, military personnel would typically be very concerned with locating and removing unfired munitions. There were no tanks used on the property. Drivers were trained on site using other large wheeled vehicles.

In July 2008, the U.S. Army Corps of Engineers proposed this property for inclusion in the Federal Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS). This property has since been accepted into the DERP-FUDS program.

On September 2, 2008, the DEC obtained a Temporary License Agreement for entry to Camp O’Ryan (Attachment 3).

2.0 Purpose

The purpose of this report is to summarize the November 5, 2008 investigation at Camp O’Ryan, located in Gainesville, NY, Wyoming County, and present the results of the sampling program. This investigation was initiated as per the New York State Department of Environmental Conservation (NYSDEC) November 2008 Visual Site Inspection and Sediment and Surface Soil Sampling Work Plan for the Camp O’Ryan Rifle Range in Gainesville, NY. This Work Plan specified the investigation to report potential lead contamination and any visual records of possible alleged on-site disposal.

This NYSDEC Sampling Work Plan was carried out by staff from the Division of Solid & Hazardous Materials (DSHM), with assistance from DMNA staff. Sampling locations were selected based on the likely configuration of the former rifle range (Attachments 4 and 5).

3.0 Sampling Locations

A total of thirty-one (31) samples were collected (Attachment 5). Thirteen (13) samples were collected from the firing berm area; the remaining seventeen (17) were collected from the hill area behind where the targets would have been located. One (1) control sample was collected at random along Wethersfield Road in front of the King Brothers' property.

4.0 Sample Analysis

The Total Metals Lead analyses were conducted at the NYSDEC DER Laboratory in Troy, NY. The TCLP analyses were conducted at a National Environmental Laboratory Accreditation Program (NELAP) approved contract laboratory.

A total of fifteen (15) samples with elevated levels of Total Metals Lead were chosen to be analyzed for TCLP Lead (See Attachment 8).

5.0 Field Results

The following are the general field conditions documented by NYSDEC staff on November 5, 2008:

- Weather conditions: Sunny, light wind, 70° F**
- Time sampling started: 10 a.m.**
- Time sampling ended: 2 p.m.**
- Names of NYSDEC: Anthony Lopes, Thomas Corbett, Kevin Glaser**
- Names of any others present and affiliation: Peter Jensen, Environmental Branch Chief, DMNA**

No areas of visible on-site spillage (dark soil/discoloration/lack of vegetation) were noted.

No areas of alleged disposal, unfired munitions, or other items of potential military origin were noted.

There was what looked like target poles attached to the cement retaining wall extending parallel to and directly in front of the impact berm (see Attachment 4).

Possible conically shaped impact zones were noted in the hill behind the cement retaining wall where the targets were located. Samples 15 through 28 were taken from this hillside area (impact berm). A few were taken directly from the impact zones, some from the area at the bottom of the slope where some surface water was present. All these samples, 15 through 28, had high Total Lead values. Eleven (11) had high TCLP Lead values (Attachment 8).

6.0 References

The following documents were reviewed and/or used in the preparation of this Site Investigation Report:

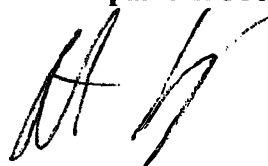
1. NYSDEC Division of Water, "Standard Operating Procedure (SOP): Sampling Equipment Decontamination/Cleaning," September 2004.
2. NYSDEC "Analytical Service Protocol (ASP) Exhibit C - Target Compound Lists (TCLs) and Contract Required Quantitation Limits (CRQLs)," July 2005.
3. NYSDEC "Analytical Service Protocol (ASP) Exhibit B - Reporting and Deliverables Requirements," July 2005.
4. NYSDEC DS&HM, Bureau of Pesticides Management, "Field Sampling Standard Operating Procedure (SOP) For Sediment."
5. NYSDEC DS&HM, Bureau of Pesticides Management, "Field Sampling Standard Operating Procedure (SOP) For Surface Soil."
6. NYSDEC DS&HM, Bureau of Pesticides Management, "Field Sampling Standard Operating Procedure (SOP) For Decontamination."
7. NYSDEC "Visual Site Inspection and Sediment and Surface Soil Sampling Work Plan for the Camp O'Ryan Rifle Range in Gainesville, NY," November 2008.

7.0 Signatories

James Strickland, P.E.
Environmental Engineer 3
Regional Hazardous Materials Engineer



Anthony Lopes, P.E.
Environmental Engineer 2
Plan Preparer & Project Manager



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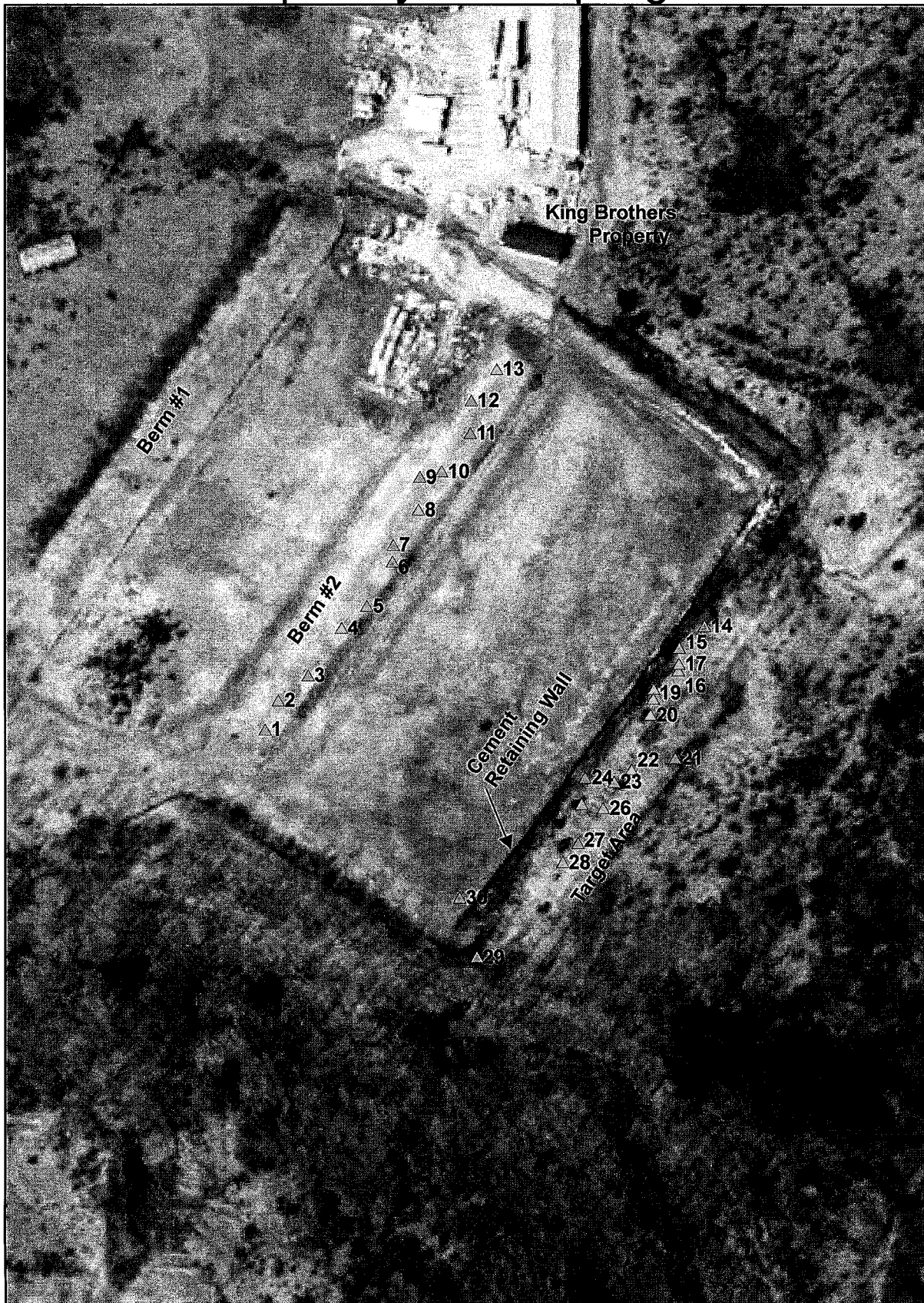
Attachment 5

Sample Locations/Plot GPS Data



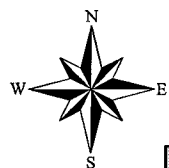
Attachment # 5

Camp O'Ryan Sampling Plot



0 112.5 225 450 675 900 Feet

Attachment 6
TCLP Pb Bar Graph



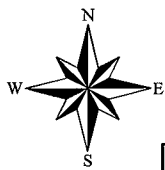
Attachment # 6 TCLP Lead (mg/l)



0 75 150 300 450 600 Feet

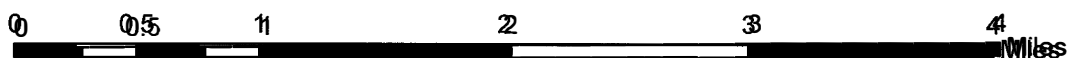
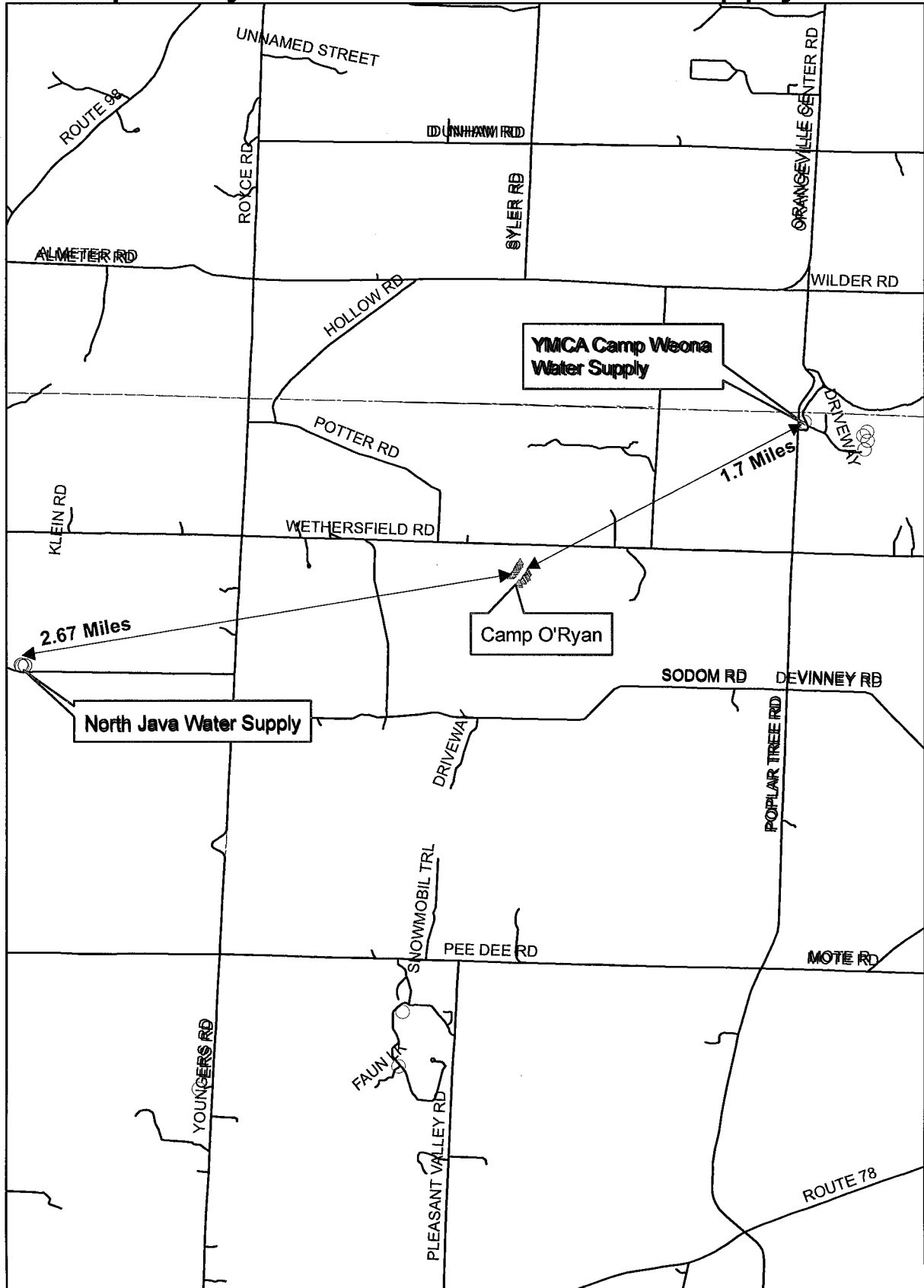
Attachment 7

Location to Public Water Supply Wells



Attachment #7

Camp O'Ryan and Public Water Supply Wells



Attachment 8

Table of GPS Coordinates/Total Pb/TCLP Pb Results

GPS Coordinates/Total Pb/TCLP Pb

Attachment # 8

N	x	y	Total Pb mg/kg	TCLP Pb - mg/l
1	-78.2797	42.68216	20.1	
2	-78.27965	42.68225	18	
3	-78.27953	42.68233	36.1	
4	-78.2794	42.68248	39.7	
5	-78.2793	42.68255	25.7	
6	-78.2792	42.68269	25.8	
7	-78.2792	42.68274	37.3	
8	-78.2791	42.68285	46.8	
9	-78.2791	42.68295	1930	0.025
10	-78.27901	42.68297	49.4	
11	-78.2789	42.68309	90.9	
12	-78.2789	42.68319	33.9	
13	-78.2788	42.68329	46.8	
14	-78.2779	42.68253	24.6	
15	-78.278	42.68246	969	8.8
16	-78.278	42.68239	182	0.016
17	-78.278	42.68241	704	14
18	-78.2781	42.68233	4470	170
19	-78.2781	42.6823	351	0.31
20	-78.27811	42.68225	4420	93
21	-78.278	42.68212	1530	14
22	-78.27818	42.68208	8980	160
23	-78.27825	42.68204	9990	96
24	-78.27837	42.68205	829	1.1
25	-78.27838	42.68197	6000	610
26	-78.27829	42.68196	7430	780
27	-78.27839	42.68185	4790	360
28	-78.27845	42.68179	50900	700
29	-78.27879	42.68149	68.6	
30	-78.27887	42.68167	48.5	

Esquire Title Services, L. L. C.

1719 Route 10 East, Suite 307, Parsippany, New Jersey, 07054
Telephone 973-560-0636 Fax 973-560-0819

September 23, 2011

US Army Corps of Engineers
26 Federal Plaza
Room 2007
New York, New York 10278

Re: Our Order No. MTS21113493
United State of America and its assigns
Vcant Land, Wethersfield Road
Wyoming, NY

Pursuant to your special request we have run an 80 Year Abstract of Title with judgment and liens regarding the following premises:

Vacant Land, Wethersfield Road, Wyoming, New York
Section 106/ Block: 2/ Lot: 061.001

We find the last Owner of Record to be: Edward N. George who acquired title by deed from Harry L. Brown, as Referee by deed dated 01/26/1974 recorded 01/26/1974 in Liber 441 Page 228. (Copy of Last Deed and 80 Year Chain attached)

No open mortgages, judgments and/or liens of record.

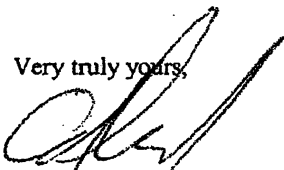
Oil and Gas Lease recorded in Liber 406 Page 241. (copy attached)

Declaration of Unitization recorded in Liber 536 Page 68. (copy attached)

General Release recorded in Liber 520 Page 200. (copy attached)

Liability hereinafter is limited to \$1,000.00 and such liability extends only to the applicant named above. This is not a policy of insurance.

Very truly yours,



Alfred D. Santoro, Jr., Esq.
Co-President

CHAIN OF TITLE

Walter G. Schwab and William J. Schwab To Mary E. Woodhouse AFFECTS PREMISES & MORE	Deed Dated: 02/20/1912 Recorded: 04/09/1912 Liber: 150 Page: 163
Mary E. Woodhouse To Myron G. Woodhouse and Ray W. Woodhouse AFFECTS PREMISES & MORE	Deed Dated: 02/19/1916 Recorded: 09/01/1921 Liber: 140 Page: 87
Ray W. Woodhouse and Jessie Woodhouse To Myron C. Woodhouse AFFECTS PREMISES & MORE	Deed Dated: 11/16/1922 Recorded: 11/23/1922 Liber: 182 Page: 323
Myron G. Woodhouse and Ida H. Woodhouse To The Federal Land Bank of Springfield AFFECTS PREMISES & MORE	Deed Dated: 03/05/1938 Recorded: 03/08/1938 Liber: 220 Page: 316
The Federal Land Bank of Springfield To Elmer R. Justinger and Irene W. Justinger AFFECTS PREMISES & MORE	Deed Dated: 10/20/1938 Recorded: 11/19/1938 Liber: 221 Page: 357
Elmer R. Justinger and Irene W. Justinger, husband and wife To Charles R. Greenan and Lucille E. Greenan, husband and wife AFFECTS PREMISES & MORE	Deed Dated: 06/13/1947 Recorded: 06/18/1947 Liber: 247 Page: 101
Charles R. Greenan and Lucille E. Greenan To Edward N. George, Jr. AFFECTS PREMISES & MORE	Deed Dated: 06/01/1949 Recorded: 06/02/1949 Liber: 262 Page: 204

CHAIN OF TITLE
(continued)

Edward N. George
To
Wethersfield Hills Vacation and
Sports Resort, Inc.
AFFECTS PREMISES & MORE

Deed
Dated: 07/09/1974
Recorded: 07/09/1974
Liber: 419 Page: 110

Harry L. Brown, as Referee
To
Edward N. George
AFFECTS PREMISES & MORE
LAST OWNER OF RECORD

Deed
Dated: 01/26/1974
Recorded: 01/26/1974
Liber: 441 Page: 228

THIS IS A SECRETARY'S REPORT TO THE PRESIDENT OF THE UNITED STATES OF AMERICA

THIS DEED made the day of January 1976

BETWEEN HARRY L. BROWN, 534 West 125th Street,
 Warsaw, New York

duly supported in the said letter of introduction and
duly supplied in the action taken by the said Government

Edward N. George, 274 Lincolnwood Lane,
Buffalo, New York

~~SECRET~~

Edward N. Galt, 244 Lincolnwood Lane, Buffalo, New York.

and

Wethersfield Hills Vacation & Sports Resort, Inc.,
Wethersfield Road,
Wethersfield, New York

The undersigned mortgage records books Fifth day of July 1904 in the office of
 of the County of Washington D.C. in presence of a
 judgment entered at Special term of the County Court of Wyoming County
 One hundred forty thousand & no/100 \$140,000.00 being the price bid by the highest bidder
 at the sale under and pursuant to such duly given and legally conducted process.
 All that tract or parcel of land, situate in the Town of Waterfield,
 County of Wyoming and State of New York, further distinguished as
 181-1961:

beginning at the northwest corner of lot No. 47, in said Town in the north Java-Wethersfield Springs Highway; running thence said line of lot No. 47, thence south 29.23 chains; thence west 4.86 chains; thence south 31.76 chains, to the south line of said lot No. 47; thence west 29.19 chains to the southwest corner of lot No. 47; thence continuing west 15.37 chains along the south line of lot No. 47; thence north 26.03 chains; thence west 23.47 chains to the north line of lot No. 55; thence north 16.71 chains to the north line of lot No. 55; thence west to a point 9.51 chains east of the west line of lot No. 55; thence north 16.71 chains to the north line of lot No. 55 and said highway; thence east about 50 chains along said north line of lot No. 55 to the place of beginning containing about 319.72 acres.

STATE OF NEW YORK
COUNTY OF ALBANY
JAN 26 1975
ALBANY
FILED
CLERK OF COURT

Winton R. James

TO HAVE AND TO HOLD the premises herein granted unto the grantee

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of said Court, at the City of New York, this 14th day of May, 1968.

In presence of:

Harry J. Brown L.S.
Bd. Sec.

STATE OF New York COUNTY OF Wyoming

On the 24 day of January 1974 before me came to me known and known to me to be the individual described in, and who executed, the foregoing instrument, and acknowledged to me that he executed the same.

CHARLES A. WALTON
Acting Public, State of New York
Certificate Filed in Westinghouse County
My Commission Expires March 20, 1964

Barthelme Halick

AKA Ed Don George

[illegible]

By Act done

[illegible]

For all goods and services sold or produced and sold from the territory, royalties payable, provided, however that you reserve a royalty of the price of the goods or services sold or produced and sold from the territory, and you shall not be held liable for the payment of any such royalties.

4. The Lammont campaign expenses for a visit to the president on 4/18/73, return letters

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On all reports received the Bureau Act by and is advised by Edward H. George 11-222
On or about 10/10/34 he (for last) was advised by 26 Lincoln Woods Lane, Buffalo, New York

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4. Lower Senior Group in the Lower, but have not assigned the right to collect the water with their junior to form a fifth group with junior according to the rules and regulations which may be assigned to the group for the purpose and maintenance of the Pond, for doing so the last is to be written, the Lower senior to senior in line of the party transferred from, each principal of the party shall receive, as the amount stated by the first class in the last senior collecting the fee.

And, you will never be killed more than 500 feet to the house or have one to call someone without the written consent of Lorne. Lorne will have and carry all plans and physical property and equipment for the project but you will have the right to use the equipment and tools and will have the right to use the house. You will not own anything or have any of the equipment, tools, plans, or other things of Lorne. Lorne will have the right at any time in private or in any part of his territory, house or equipment or anything else to remove you from the project.

11. The extent or nature of other party's liability may be affected, the probability of insolvency, in whole or in part, being especially important in cases that involve the assignment of or any part of the rights of the person described in the assignment.

17. The Board of Directors, in exercising its powers, shall have the right to suspend the lease or any part thereof for nonpayment of rent, for failure to comply with the terms and conditions of the lease, or for any other cause which may be deemed to be in the best interests of the lessor. The Board of Directors shall have the right to terminate the lease at any time for any cause or for no cause at all, without penalty or compensation to the lessee.

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NY 4165 242

EXHIBIT "A"

Edward H. George

1. Parcel A of this lease is under lease to the New York National Guard, the location of any gas or oil well or wells must be agreed upon with the lessee.
2. Lessee and lessor must mutually agree on the location of any gas or oil wells, on the other parcels covered in this lease.

Jan 4 1964

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

STATE OF WEST VIRGINIA
COUNTY OF _____
I, _____, Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

DECLARATION OF UNITIZATION

WHEREAS, THE LENAPE RESOURCES CORPORATION with offices at One Elizabethtown Plaza, Elizabeth, New Jersey 07207, is the owner of those certain Oil and Gas Leases located in Wyoming County, New York, and described on Exhibit "A" attached hereto and made a part hereof, and, hereinafter referred to as "said leases",

AND, WHEREAS, each of said Lessors has authorized the Lessee to unitize, pool and combine said lease, or any part thereof, and Lessor's royalty or mineral interests, with any other lease or leases, royalty or mineral estate or estates, so as to create, by the combination of such interests, or any of them, oil and gas development units,

AND, WHEREAS, THE LENAPE RESOURCES CORPORATION has determined that the creation and designation of the hereinafter described unit is necessary for the proper development and operation of said leases in accordance with New York State well spacing regulations and for the promotion of conservation of oil and gas resources.

NOW THEREFORE, by virtue of the power granted by said Lessors, and each of them, THE LENAPE RESOURCES CORPORATION has this day, and does by these presents, CREATE and DESIGNATE a unit for oil and gas development described as the

E. N. GEORGE Unit
#1 covering lands shown on the survey map (Exhibit "B") attached hereto and consisting of 100 total unit acres.

AND said leases, together with all mineral and royalty rights herein set forth, to the extent that the same cover and include the oil and gas under the lands particularly described herein shall be, and they are hereby included in said unit,

AND shall be considered as a single tract of land for the purpose of drilling, and a well upon any of the lands herein consolidated, shall have for royalty purposes the same effect as though said well were upon each of said lands under each of said oil and gas lease or leases, and royalties on the production from wells upon said unit shall be allocated and paid in proportion to the amount of acreage of each lease as contained in said unit.

IN WITNESS WHEREOF, THE LENAPE RESOURCES CORPORATION, has executed this Declaration of Unit this 28th day of April, 1982.



THE LENAPE RESOURCES CORPORATION

By: [Signature]
W. E. Bulmer

STATE OF New York
COUNTY OF Genesee SS:

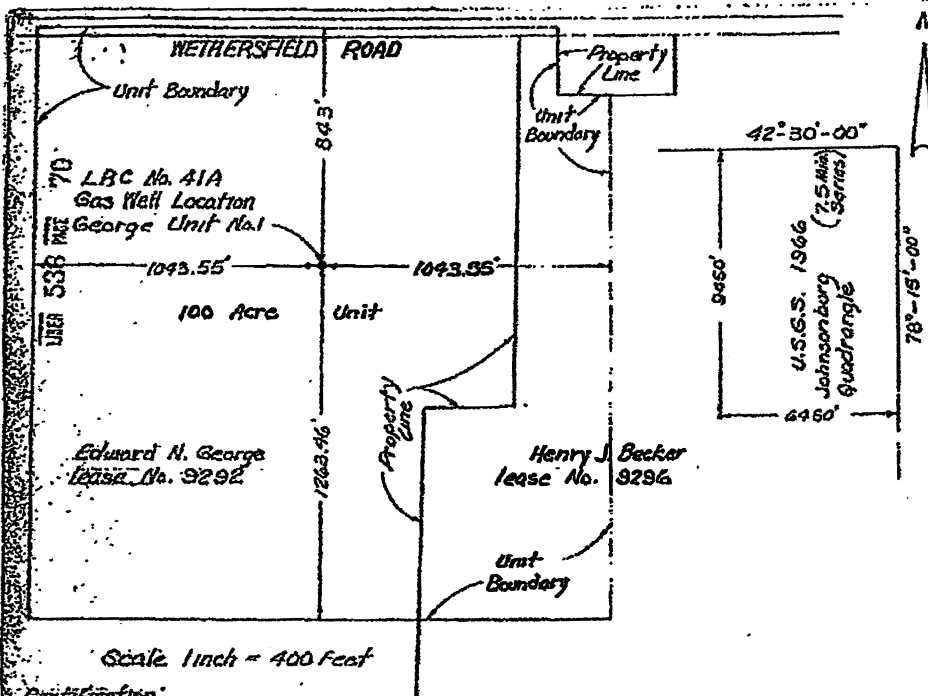
On the 28th day of April, 1982, before me personally came W. E. Bulmer, to me known, who, being by me duly sworn, did depose and say that he resides at 60 Oakbrook Drive, Williamsville, New York 14221, that he is the President of The Lenape Resources Corporation, the corporation described in and which executed the above instrument, that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

[Signature]
Notary Public
JAMES D. HILL
Notary Public, State of N.Y., Gen. Co.
My Commission Expires March 30, 1983
Reg. No. 4630719

EXHIBIT "A"
 ATTACHED HERETO AND MADE A PART HEREOF TO THAT CERTAIN
 DECLARATION OF UTILIZATION DATED THE DAY OF
 19

THE LINAPL RESOURCES CORPORATION

LEASE #	LESSOR	LESSEE	TOWN	DATE	RECORDED VOL. PAGE	ACRES	ACRES IN UNIT
9292	Edward N. George	Maro IV Petroleum	Webberville	06/13/72	406 / 241	799	77.6
9296	Henry J. Becker, et al.	Maro IV Petroleum	Webberville	09/03/72	408 / 244	732	22.4



GENERAL RELEASE

For and in consideration of "Two thousand and no/100" dollars (\$2000.00), the receipt of which is hereby acknowledged, we, Edward N. George and Joanne V. George, husband and wife, do hereby release and discharge Lenape Resources Corporation, their successors and assigns, from all claims and causes of action whatsoever, by reason of any damages sustained as set forth on Exhibit 'A' attached hereto, in consequence of the drilling of oil or gas wells in the manner and place they have been drilled. It is further acknowledged that all agreements regarding payment of damages as set forth in an Oil and Gas Lease between Edward N. George and Joanne V. George, his wife and Maru IV Petroleum Co. as recorded in the office of the County Clerk for Wyoming County, State of New York, in Liber 406, Page 211, now owned by Lenape Resources Corporation, have been met to our satisfaction.

WITNESS the execution hereof this 25th day of June, 1981.

WITNESS:

GRANTORS:

Gregory S. Gass
Gregory S. Gass

Edward N. George
Edward N. George a/k/a Edward George
Joanne V. George
Joanne V. George

Proof by Subscribing Witness

STATE OF New York }
COUNTY OF Livingston } ss.

On this 25th day of June, 1981, before me personally came Gregory S. Gass the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at R.D. 1, Orangeville, PA 17858; that he knows Edward N. George and Joanne V. George, husband and wife to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw said Edward N. George and Joanne V. George, husband and wife execute the instrument and that he, said witness, at the same time subscribed his name as witness thereto.

My commission expires:

Notary Public
Notary Public
Expires 3/2/83

7242

EXHIBIT 'A'

STATEMENT OF LOSS AND CLAIM - SCHEDULE OF DAMAGES

Edward H. George and Joanne V. George, husband and wife
26 Lincoln Woods Lane
Buffalo, NY 14222

Longape Resources Lease #3292
Town of Wethersfield
Wyoming County, New York

Well Site Damages:


25 trees @ \$10/tree	\$250.00
Clean up and restore surface	
2.5 acres:	\$250.00
<u>Total Well Site Damages:</u>	<u>\$500.00</u>

Damages claimed due to drilling
without Lomer's approval of either of
two well site locations: \$1500.00


Total Claim: \$2000.00

For Longape Resources Corporation:

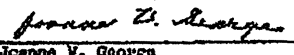
Grantors:



Gregory S. Gass

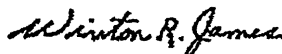


Edward H. George a/k/a Edward George



Joanne V. George

STATE OF NEW YORK
COUNTY OF WYOMING ss.
RECORDED... Sept. 11, 1981
At 11:12AM. IN LIBER... 526...
PAGE... 200... OF... Deeds...
...AND EXAMINED.



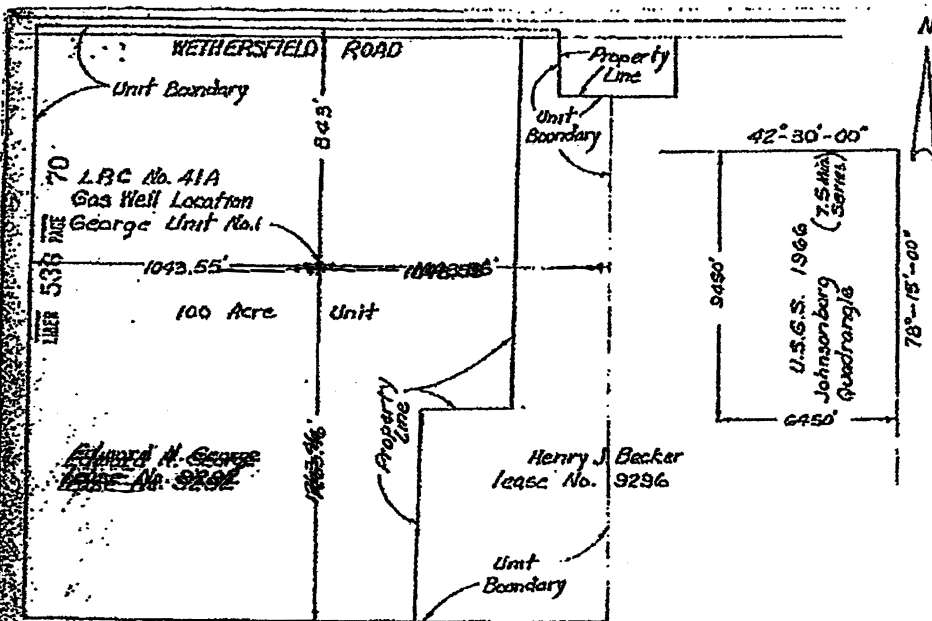
CLERK

9292

EXHIBIT "A"
 ATTACHED HERETO AND MADE A PART HEREOF SO THAT CERTAIN
 DETAILATION OF UTILIZATION DATED THE DAY OF
 19

THE LEAVE RESOURCES CORPORATION

LEAVE	LEAVE	LEAVE	TOWN	DATE	RECORDED VOL. PAGE	ACRES IN UNIT
9292	Edward N. George	Marv IV Peterson	Bedfordfield	05/23/72	406 / 241	77.6
9296	Henry J. Becker, et al.	Marv IV Peterson	Bedfordfield	04/03/72	406 / 244	22.4



Scale 1 inch = 400 Feet

Certification:

I hereby certify that the information shown on this map regards the gas well location is correct. This map was made from the notes of a survey made by myself on March 19, 1982.

J. T. Miller

Revised 4-15-1982



STATE OF NEW YORK
COUNTY OF WYOMING
RECORDED... APR... 30... 1982
AT... 3:09 PM... IN LIBER... 536
PAGE... 68... OF... Deeds...
AND EXAMINED

Winston R. James
CLERK

Name	Area	Percentage
Edward N. George	77.6 Ac.	77.6
Henry J. Becker	22.4 Ac.	22.4
Total	100.0 Ac.	100.0

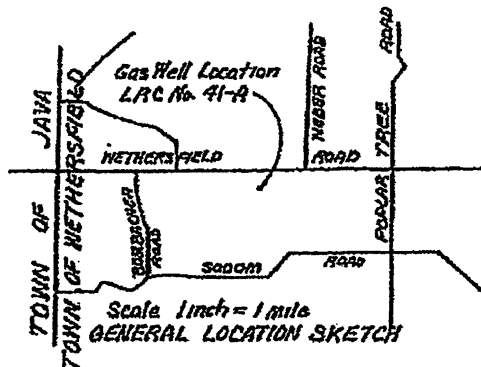


Exhibit B

THE LENAPE RESOURCES CORP.-WELL NO. 41-A
TOWN OF WETHERSFIELD
COUNTY OF WYOMING, STATE OF NEW YORK
EDWARD N. GEORGE-OWNER

EDY-LANAPES PT. GALLERY-LAND SURVEY CORP.

WETHERSFIELD, WYOMING, MARCH 19, 1982

GENERAL RELEASE

For and in consideration of ****Two thousand and no/100**** dollars (\$2000.00), the receipt of which is hereby acknowledged, we, Edward H. George and Joanne V. George, husband and wife, do hereby release and discharge Lonape Resources Corporation, their successors and assigns, from all claims and causes of action whatsoever, by reason of any damages sustained as set forth on Exhibit 'A' attached hereto, in consequence of the drilling of oil or gas wells in the manner and place they have been drilled. It is further acknowledged that all agreements regarding payment of damages as set forth in an Oil and Gas Lease between Edward H. George and Joanne V. George, his wife and Marc XV Petroleum Co. as recorded in the office of the County Clerk for Wyoming County, State of New York, in Liber 406, Page 211, now owned by Lonape Resources Corporation, have been met to our satisfaction.

WITNESS the execution hereof this 25th day of June, 1981.

WITNESS:

GRANTORS:

Gregory S. Goss
Gregory S. Goss

Edward H. George
Edward H. George a/k/a Edward George
Joanne V. George
Joanne V. George

STATE OF New York)
COUNTY OF Livingston) ss.
Proof by Subscribing Witness

On this 25th day of June, 1981, before me personally came Gregory S. Goss the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at R.D.-1, Orangeville, PA 17859; that he knows Edward H. George and Joanne V. George, husband and wife, to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw said Edward H. George and Joanne V. George, husband and wife, execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

My commission expires:

Notary Public
Notary Public
Expires 3/31/83

7242

EXHIBIT 'A'

STATEMENT OF LOSS AND CLAIM - SCHEDULE OF DAMAGES

Edward N. George and Joanne V. George, husband and wife
26 Lincoln Woods Lane
Buffalo, NY 14222

Lease Resources Lease #9292
Town of Wethersfield
Wyoming County, New York

Well Site Damage:


25 trees @ \$10/tree	\$250.00
Clear up and restore surface	
2.5 acres	\$250.00
<u>NO</u>	
Total Well Site Damage:	\$500.00


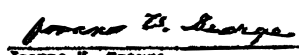
Damages claimed due to drilling
without Lessor's approval of either of
two well site locations: \$1500.00

Total Claims: \$2000.00

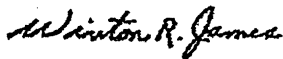
For Lease Resources Corporation:

Grantors:


Gregory S. Gase


Edward N. George a/k/a Edward George

Joanne V. George

STATE OF NEW YORK
COUNTY OF WYOMING ss.
SUBSCRIBED Sept. 11, 1981
at 11:12AM in Room 526
Book 200 of Danda
AND TESTAMEN.


Winton R. James
CLERK

9292

MEMORANDUM FOR: Formerly Used Defense Site (FUDS) Team Leader (Greg Goepfert),
New York District, Corps of Engineers

SUBJECT: Finding and Determination of Eligibility (FDE) for Camp O'Ryan, Wyoming
County, Wethersfield, New York

1. As directed by NAN-PP-E and with appropriate funding provided on 1 September 2011, NAN-RE contracted for eighty (80) year title searches and title chains to be performed relative to property as identified herein and further described in the attachment provided hereto (hereinafter referred to as "the former Camp O'Ryan"). On 29 September 2011, NAN-RE received the aforementioned title searches and title chains from the NAN title contractor. The following is the analysis of those title searches and title chains as such pertain to the former Camp O'Ryan, Block 106.2 Lot 61.1 and 61.2 in Wyoming County New York.
2. Lots 61.1 and 61.2 were once part of the same parcel (Block 106.2 Lot 61); the last Owner of Record is Edward N. George who acquired title by Deed, dated 26 January 1974, recorded at Liber 441, Page 228, in Wyoming County, New York. Mr. George acquired title from a Mr. Harry L. Brown. In reviewing the title chains, at no point does the United States of America, the United States Department of the Army, the United States Department of Defense, or any other similar agency of the United States of America, appear in title.
3. Based upon the title searches and the title chains reviewed, I have prepared this subject FDE for the former Camp O'Ryan. I would recommend that the property herein identified as the former Camp O'Ryan be deemed ineligible for the FUDS program.



ERICA LABESTE

Realty Specialist,

NY District, Corps of Engineers

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix H

Still Photograph References

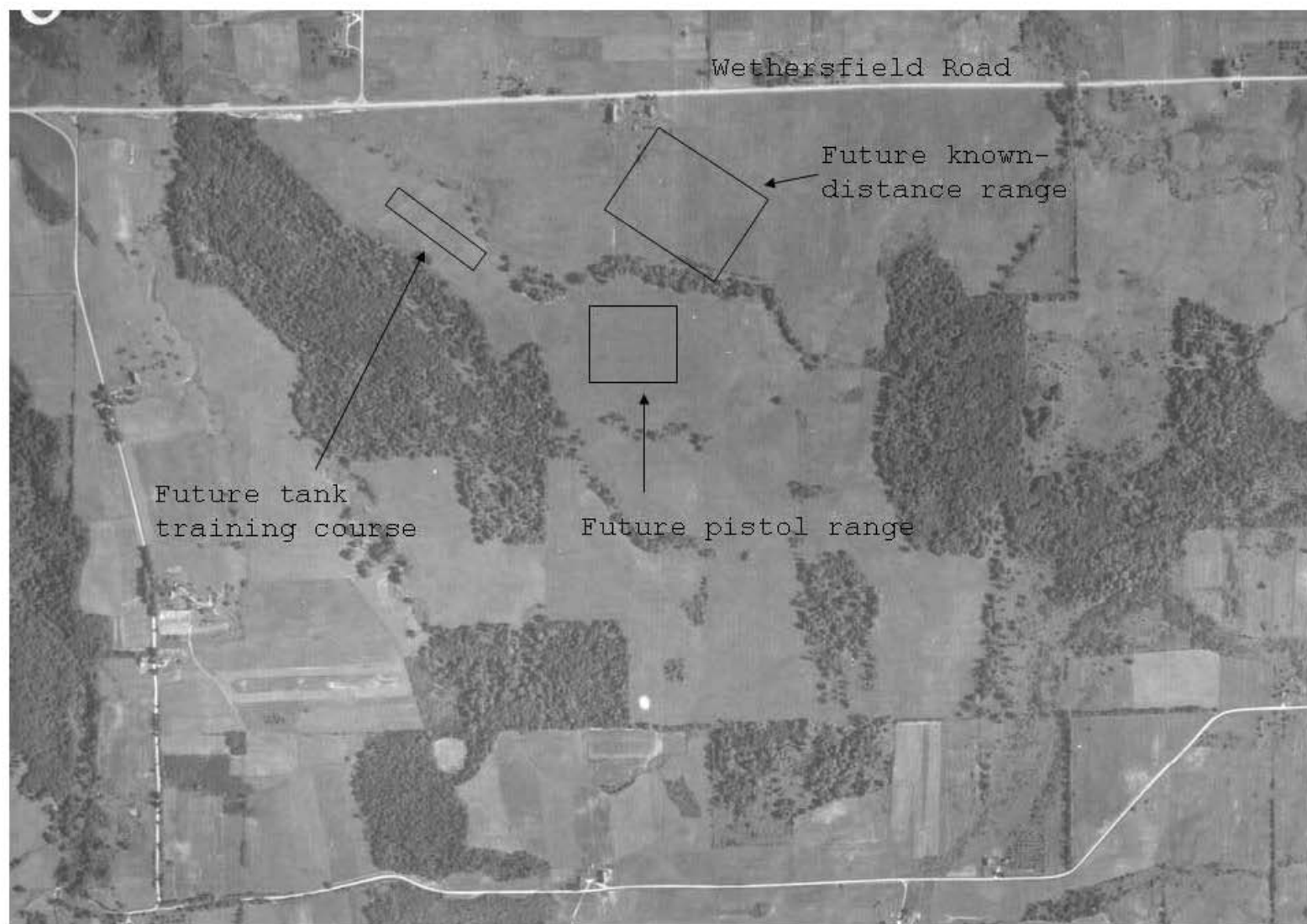
Appendix H

Still Photograph References

Table of Contents

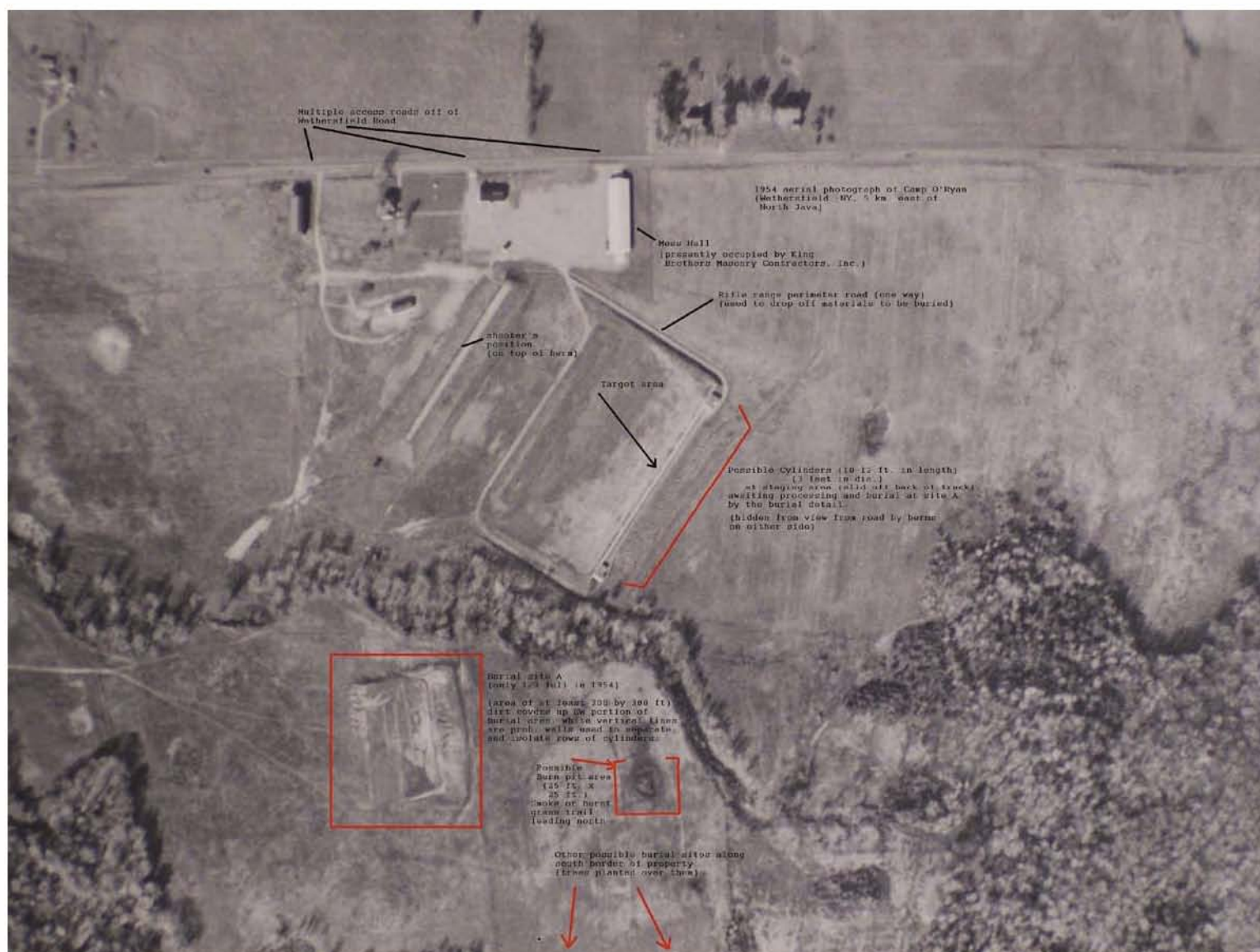
H-1	1938 aerial of future Camp O’Ryan site (B-60).
H-2a	1954 aerial (east) w/burial allegations (B-57).
H-2b	1954 aerial (west) w/burial allegations (B-57).
H-3a	1954 high-resolution aerial (B-60).
H-3b	1954 high-resolution aerial (B-60).
H-3c	1954 high-resolution aerial (B-60).
H-4	Circa 1955 photo of tank training course (B-56).
H-5	Circa 1956 photo of 3.5” bazooka loading <i>possibly</i> at O’Ryan (B-55)
H-6	1959 photo of troops marching up a hill (B-45).
H-7a	1963 aerial (B-59).
H-7b	1963 aerial (B-59).
H-7c	1963 aerial (B-59).
H-8a	1968 photo of troops in formation at the known-distance range (B-51).
H-8b	1968 photo of troops firing M1 Garand .30 caliber rifles on the known-distance range (B-51).
H-9a	1974 aerial (B-59).
H-9b	1974 aerial (B-59).
H-9c	1974 aerial (B-59).
H-10a	1985 aerial (B-59).
H-10b	1985 aerial (B-59).

- H-10c 1985 aerial (B-59).
- H-11a 2005 aerial (B-59).
- H-11b 2005 aerial (B-59).
- H-11c 2005 aerial (B-59).
- H-12a Circa 2007 aerial, known-distance range birds-eye view (B-61).
- H-12b Circa 2007 aerial, pistol range birds-eye view (B-61).



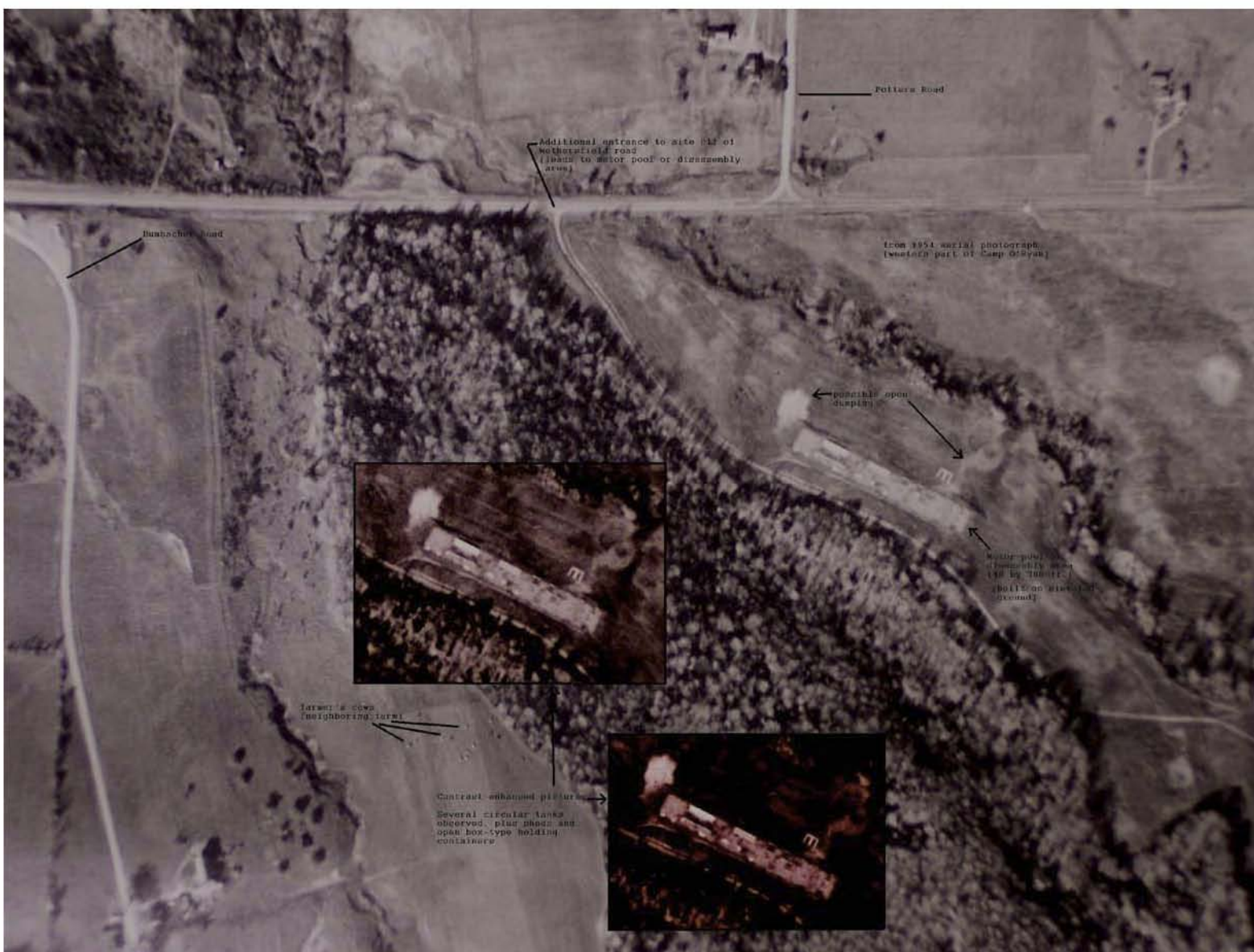
1938 aerial of future Camp O'Ryan site

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1954 aerial (east) with unfounded burial site claims

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1954 aerial (west) with unfounded burial site claims

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H-3a

1954 high-resolution aerial

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1954 high-resolution aerial

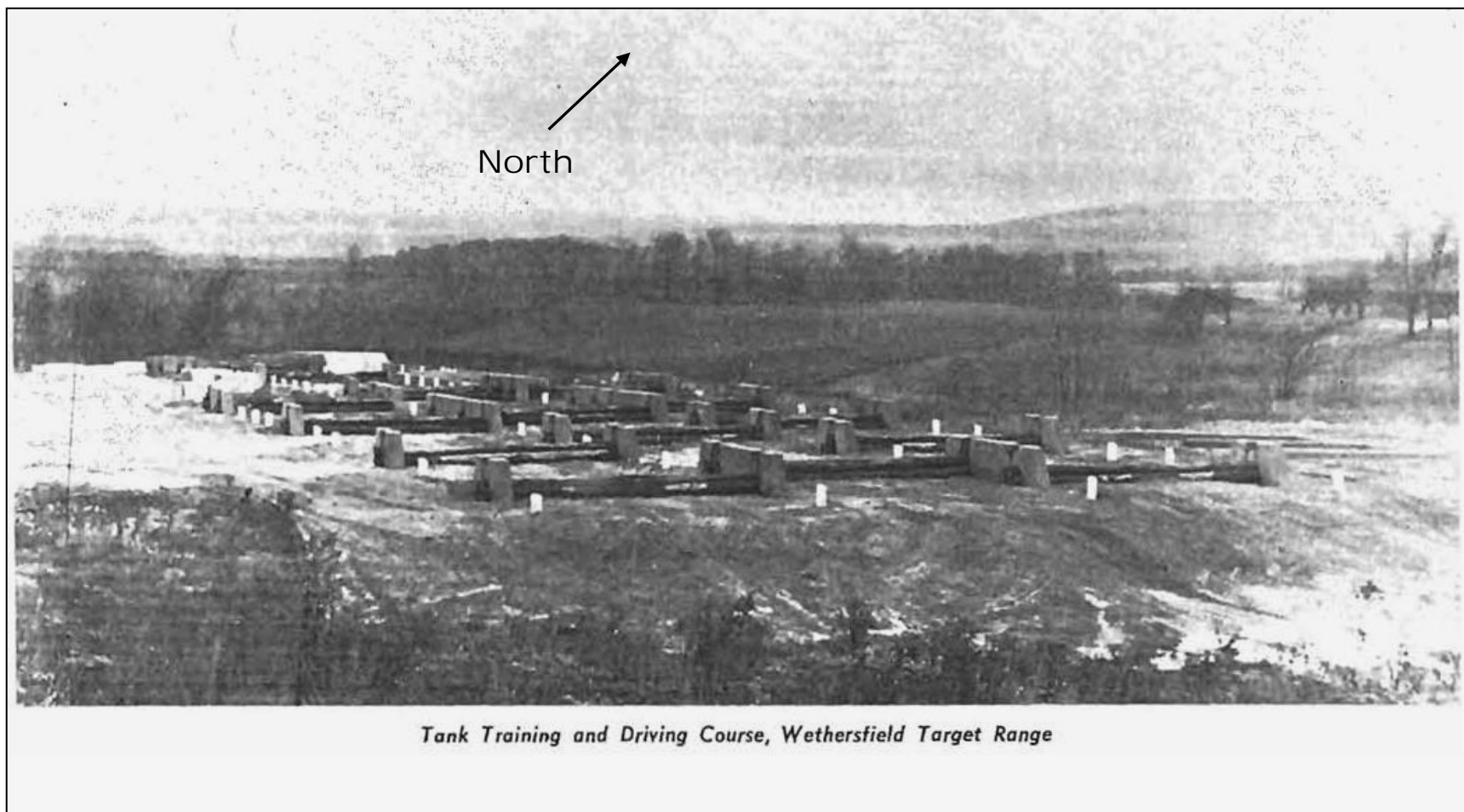
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H-3C

1954 high-resolution aerial

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H-4

Circa 1955 photo of tank training course

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Circa 1956 photo of 27th Armored Division 3.5" bazooka training, *possibly* at Camp O'Ryan.

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A BAYONET CHARGE involving troops of B Company from Olean gets underway. Under actual battle conditions scabbards would be removed in advance.

②

A PATROL of D Company from Hornell moves off through a field in the North Java area.



July 1959 photo of troops on patrol at Camp O'Ryan.

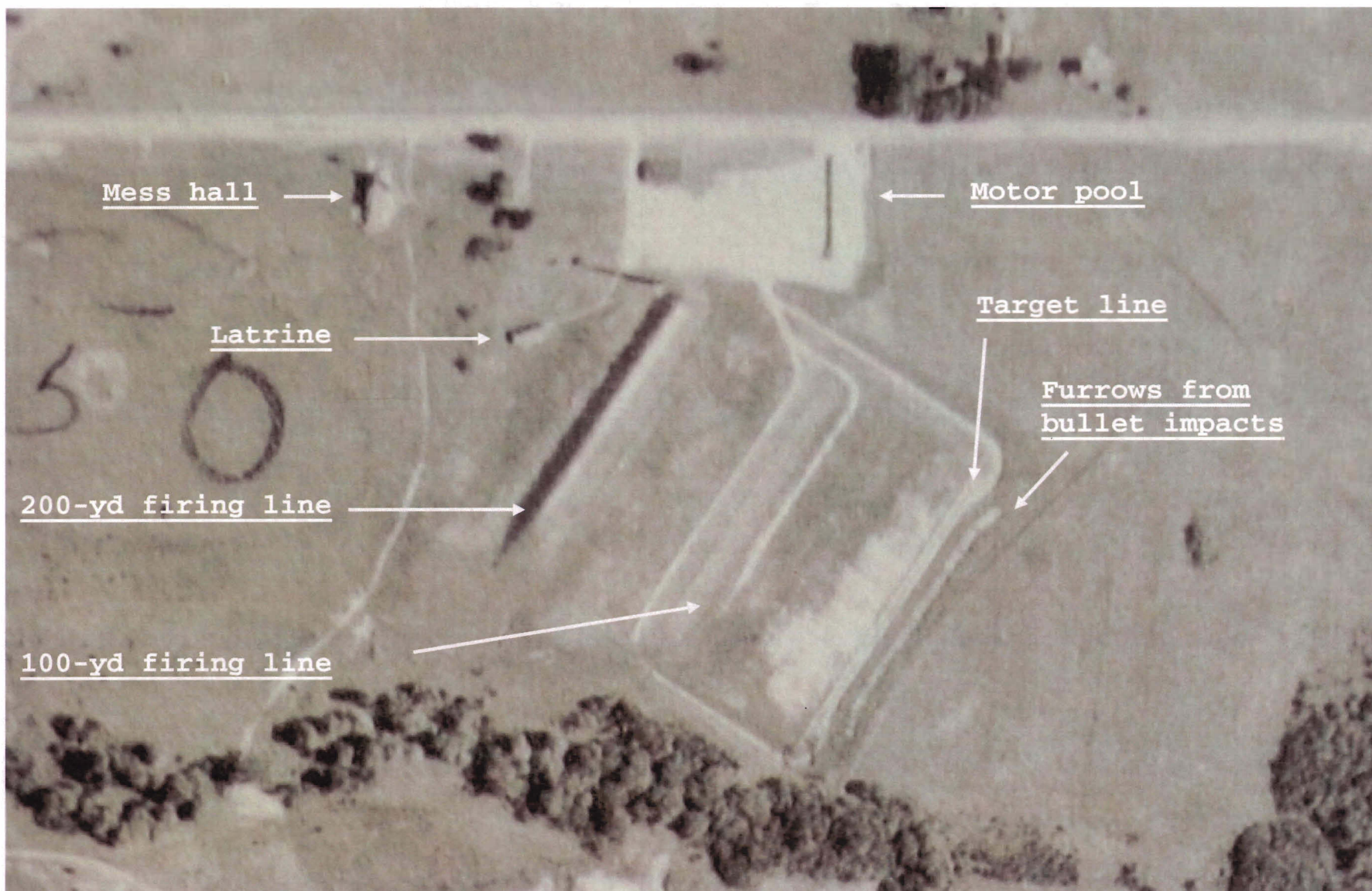
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4 July 1963 aerial of Camp O'Ryan

H-7a

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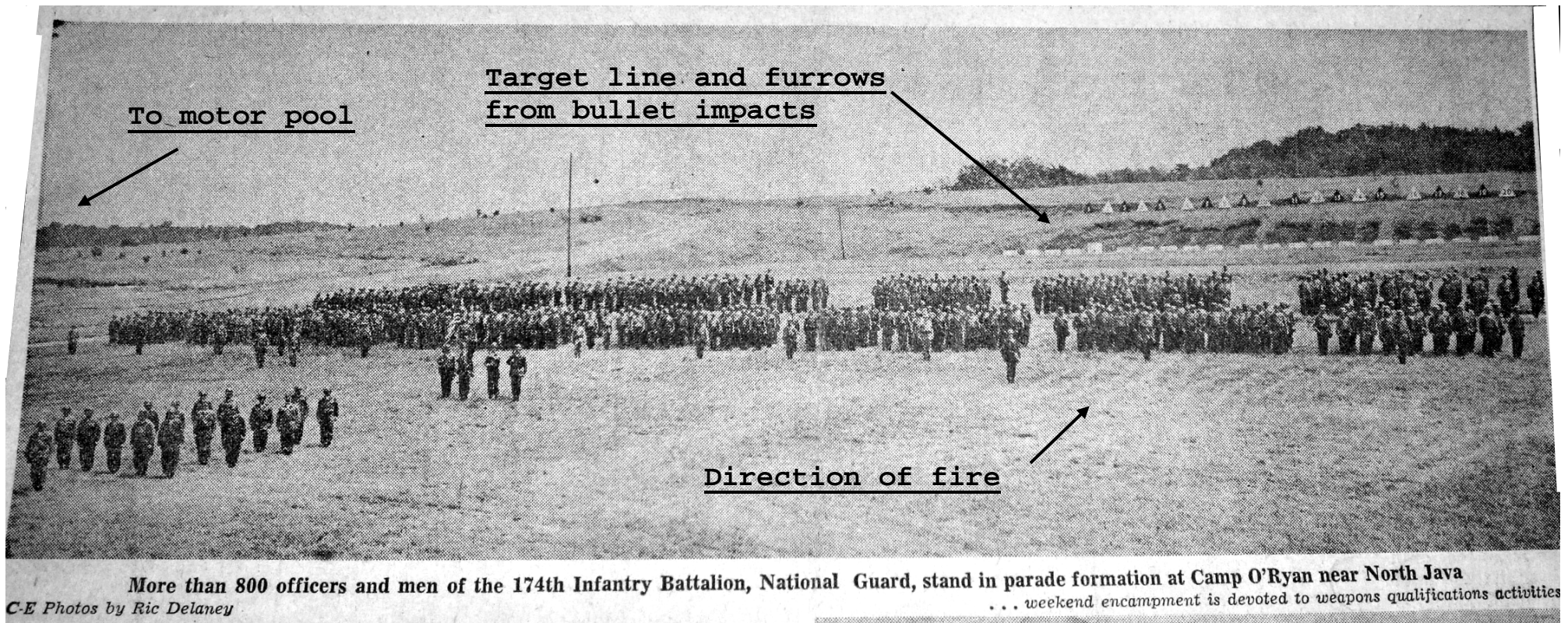
4 July 1963 aerial of Camp O'Ryan

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4 July 1963 aerial of Camp O'Ryan

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June 1968 photo of troops in formation at the known-distance range

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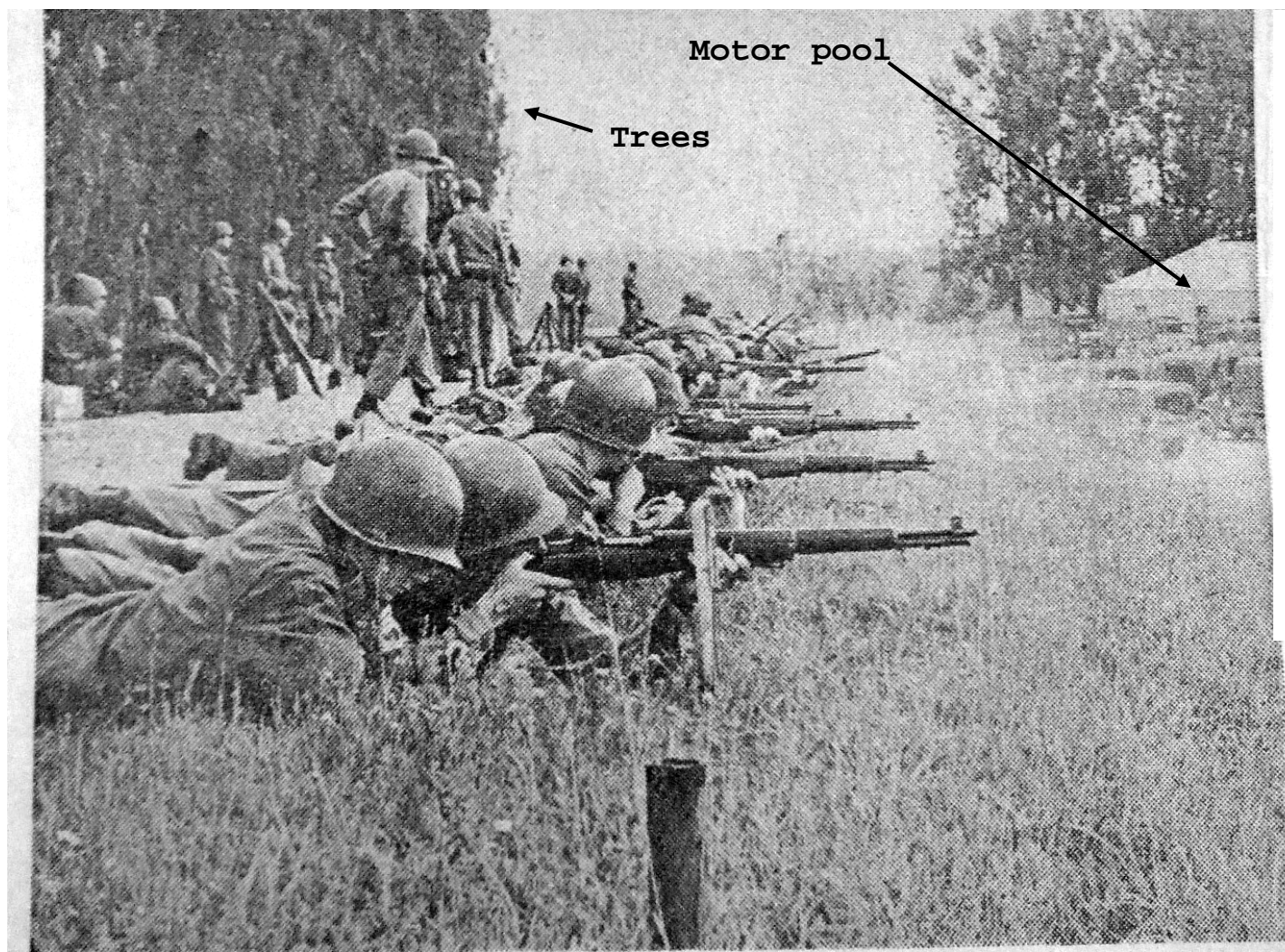


Photo shows some of the 739 Guardsmen to practice on range Saturday
... more than 4,200 rounds fired

H-8b

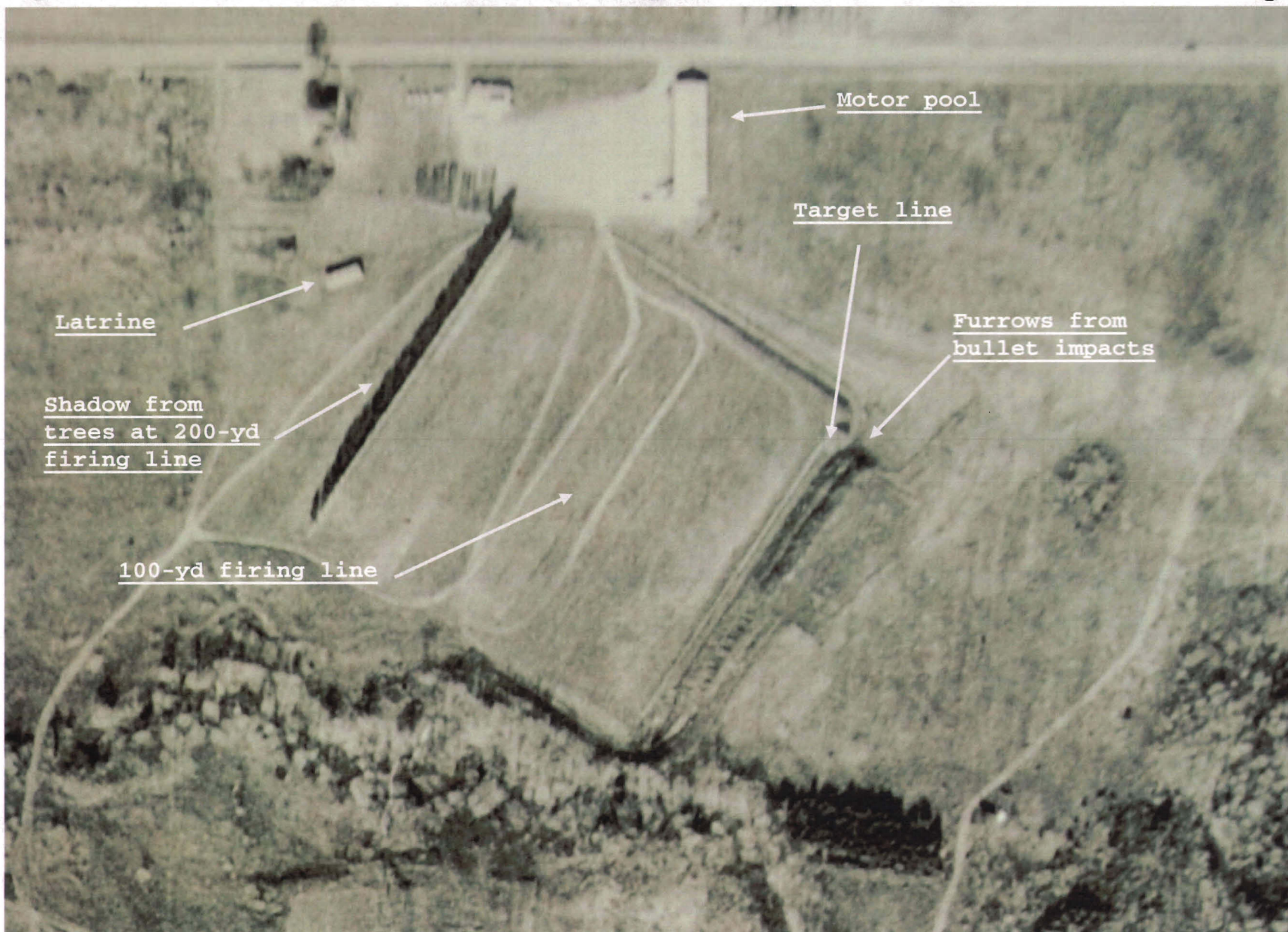
June 1968 photo of troops firing M-1 Garand .30 caliber
rifles from the known-distance range 200-yd firing line

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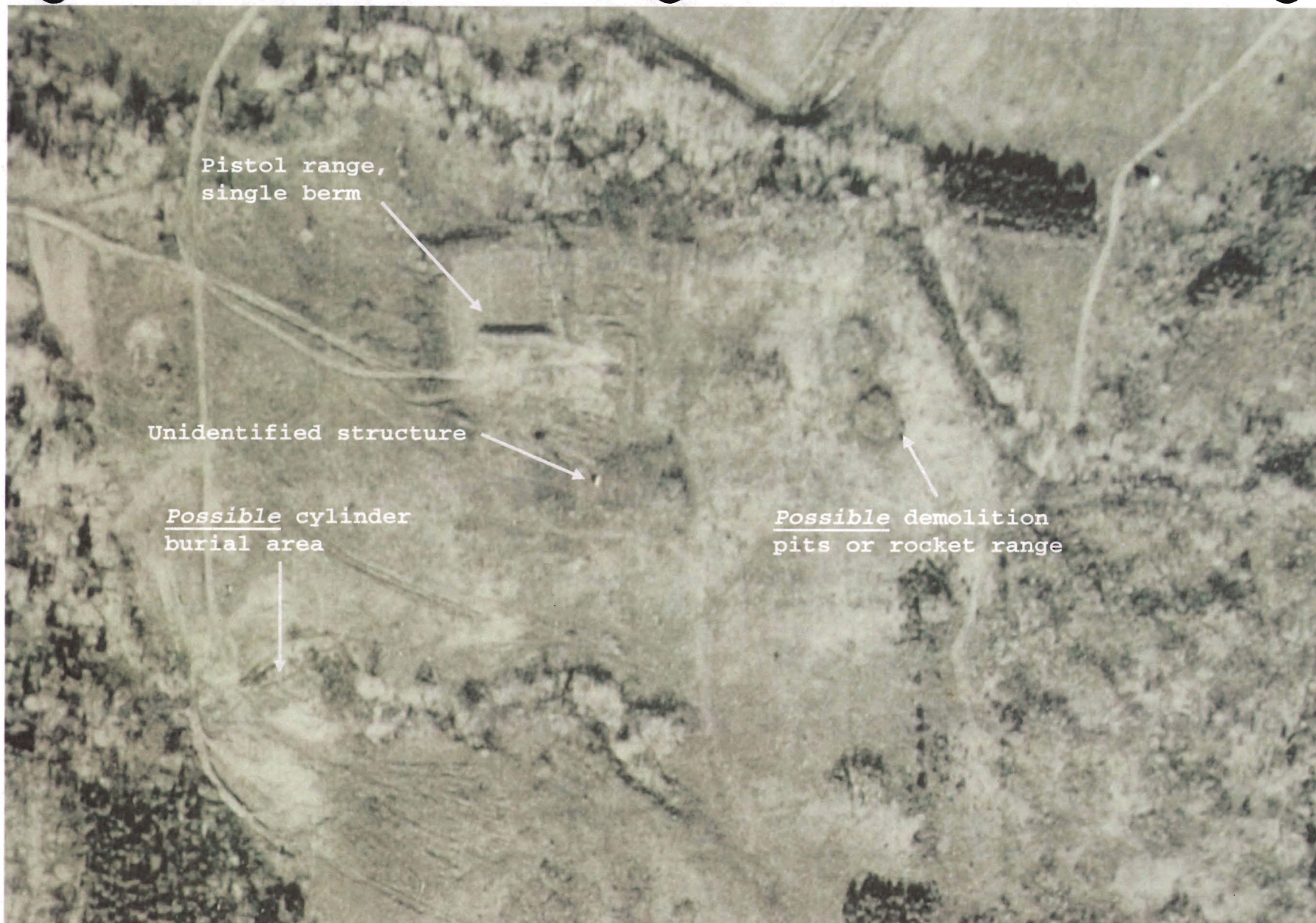
1974 aerial of Camp O'Ryan

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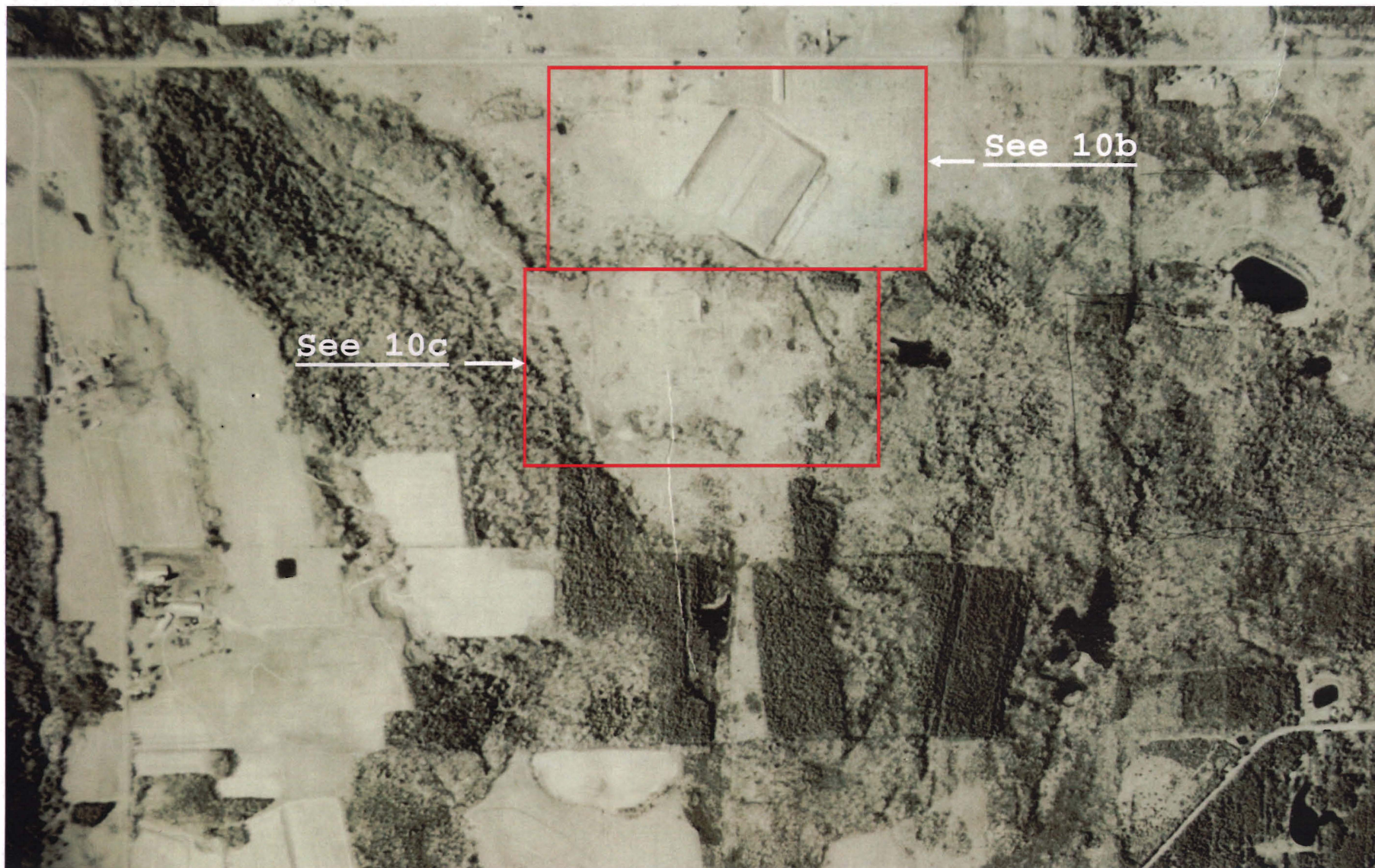
1974 aerial of Camp O'Ryan

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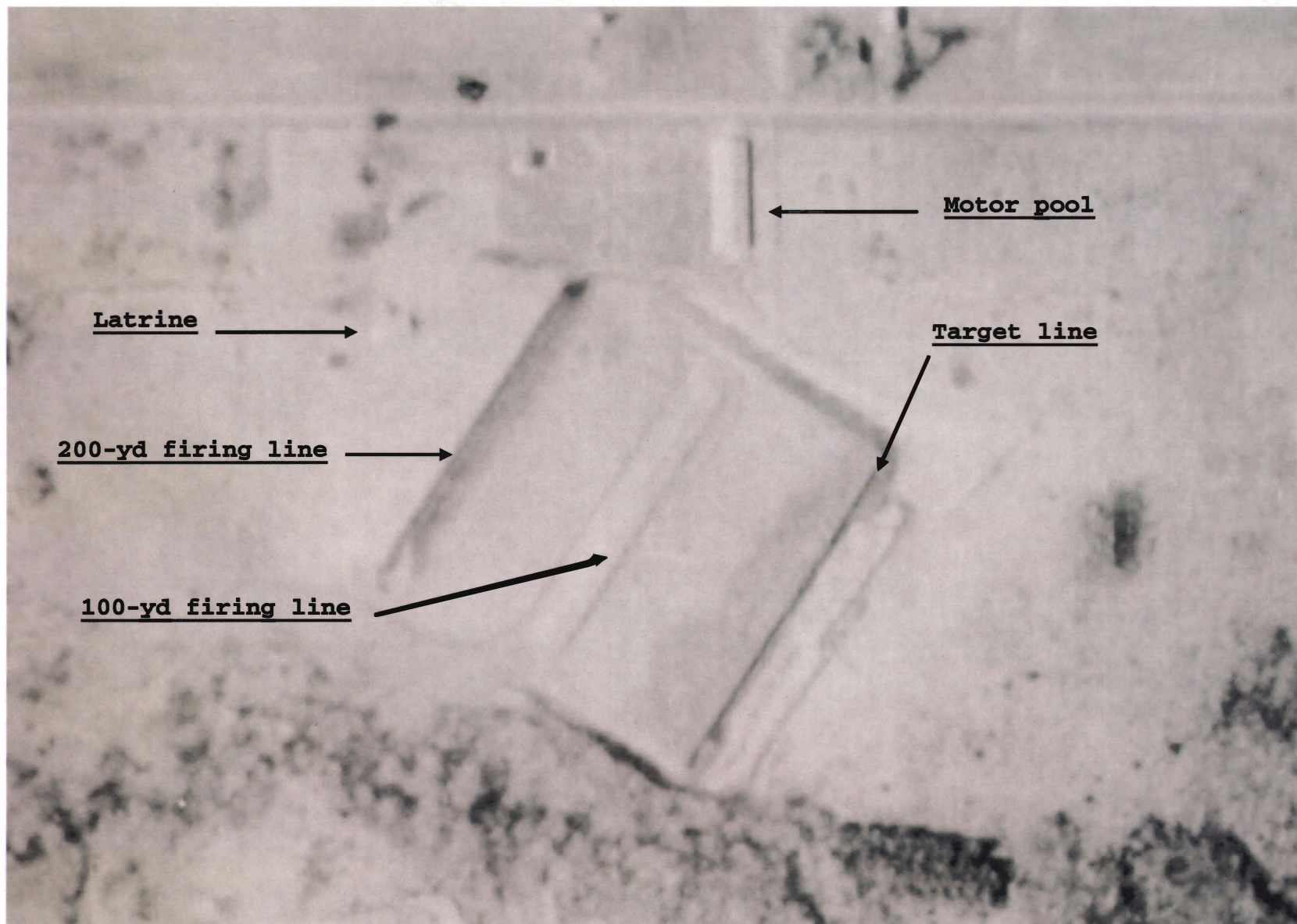
1974 aerial of Camp O'Ryan

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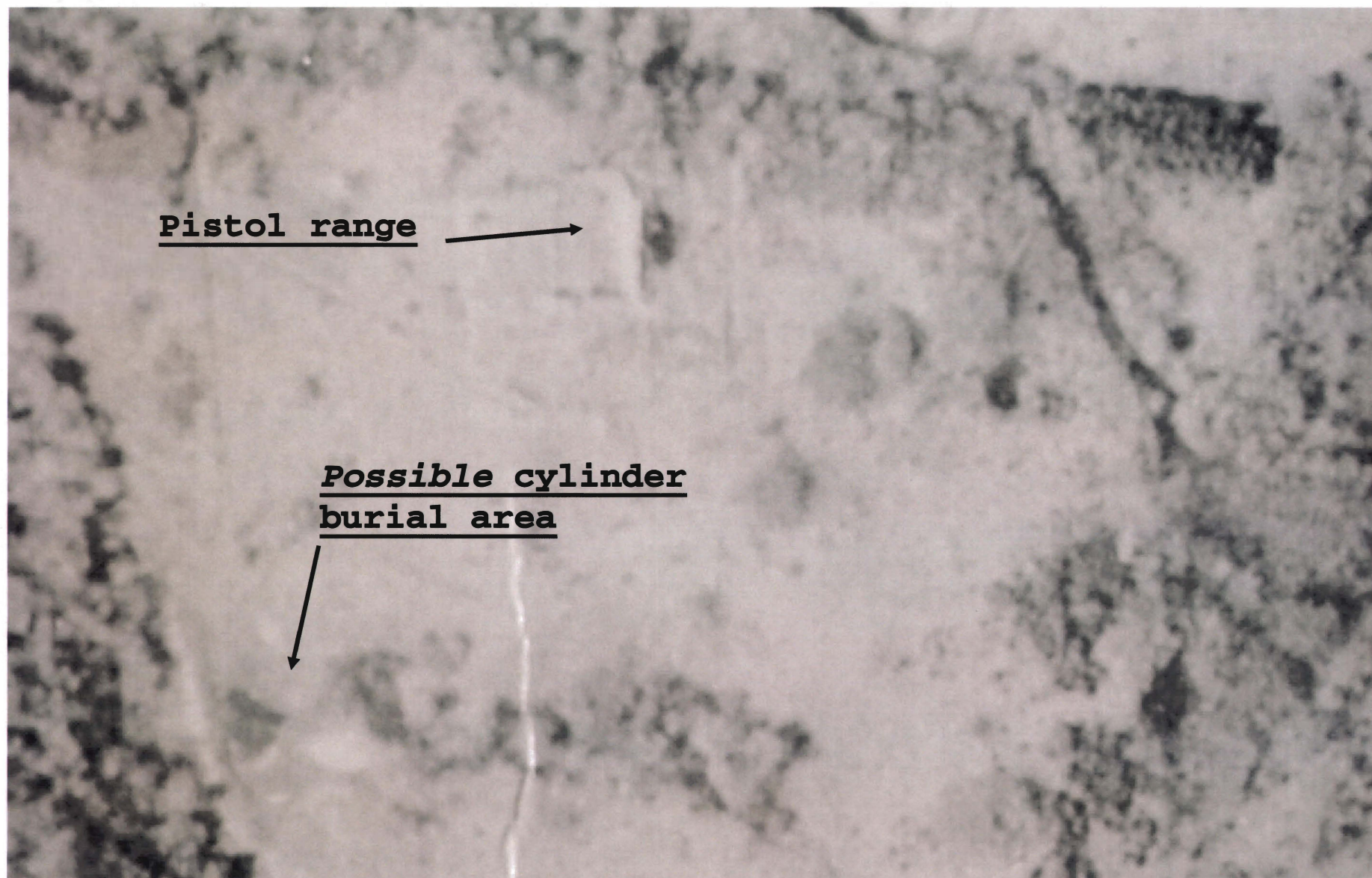
1985 aerial of Camp O'Ryan

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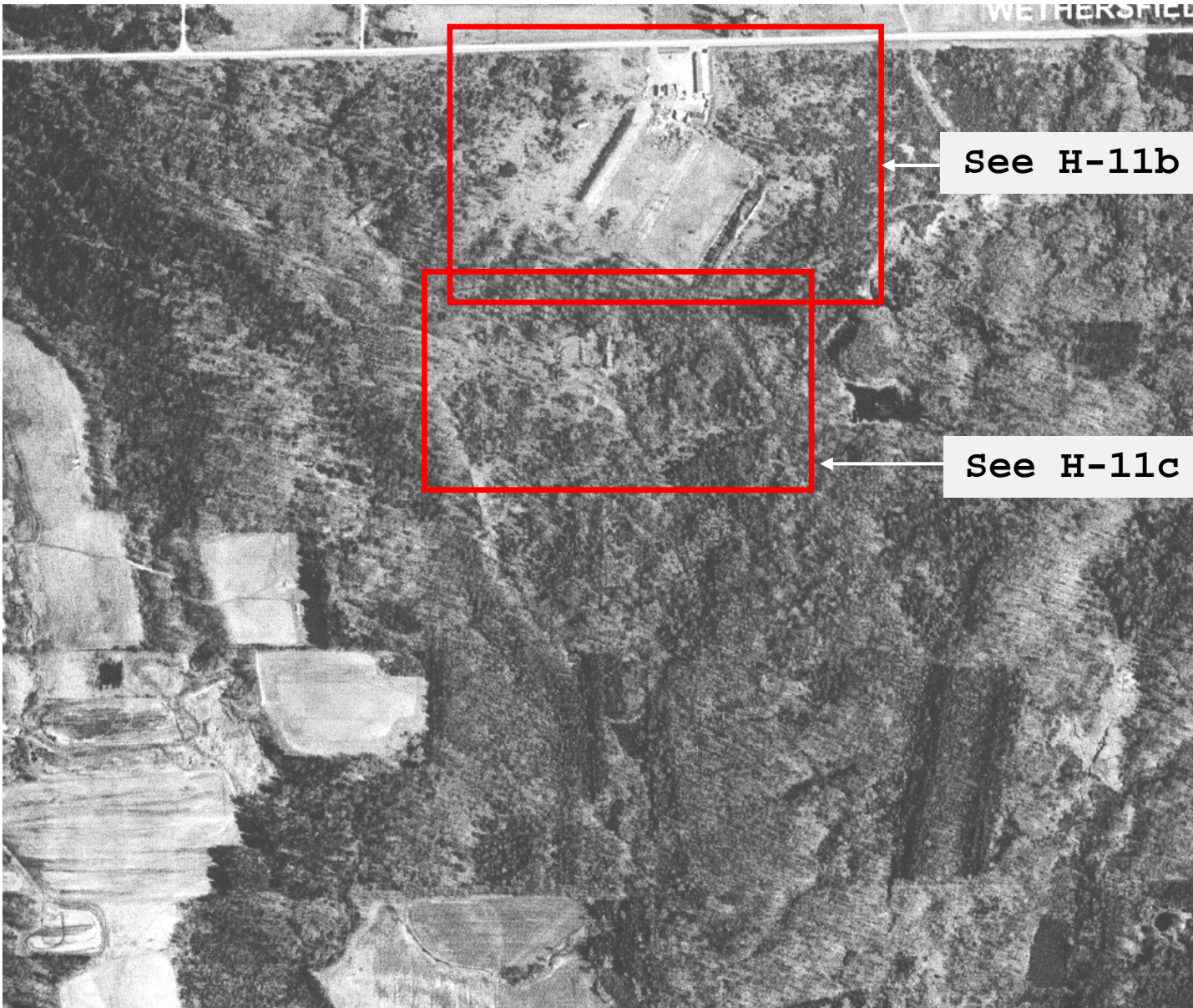
1985 aerial of Camp O'Ryan

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1985 aerial of Camp O'Ryan

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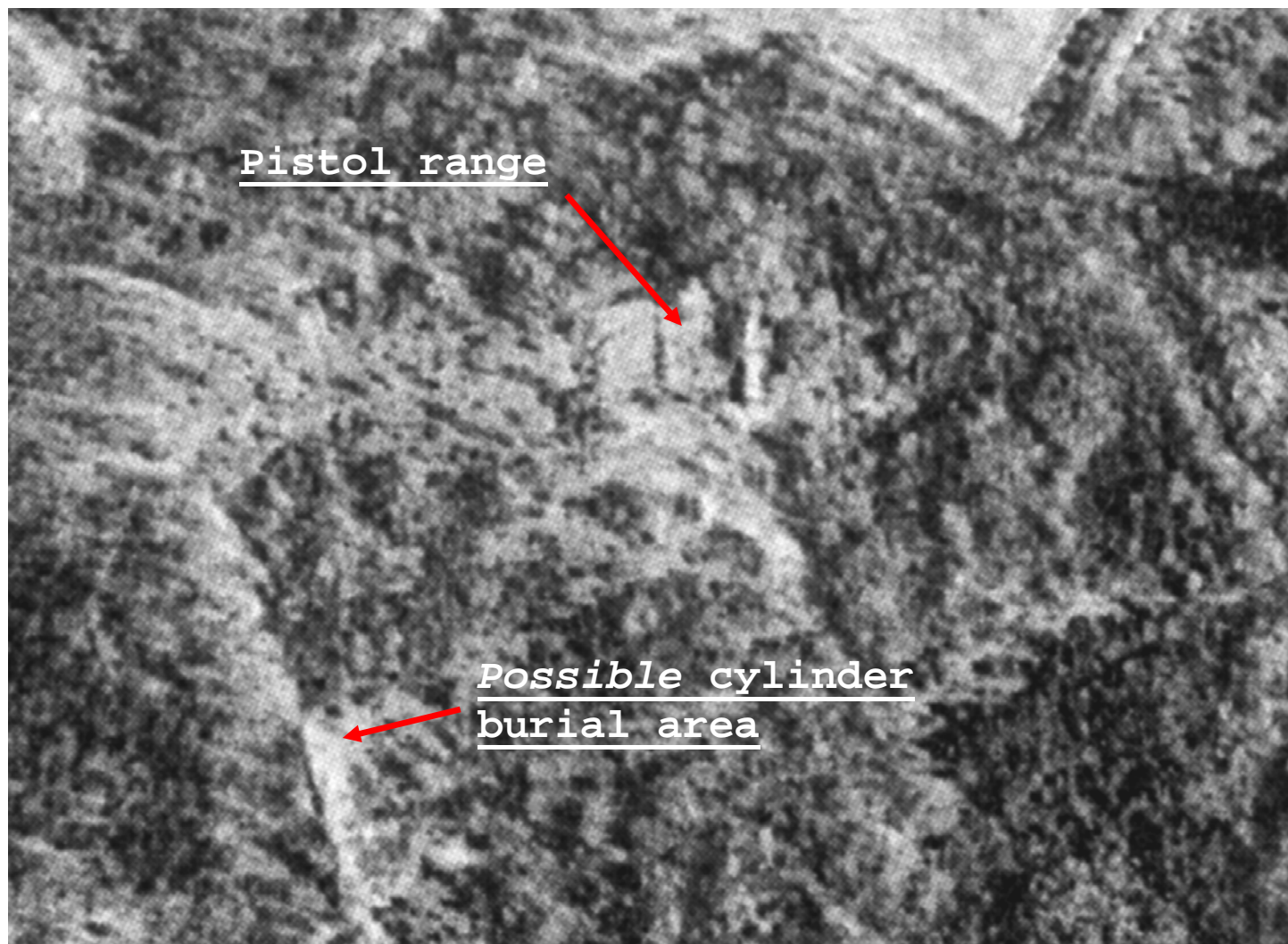
2005 aerial of Camp O'Ryan

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2005 aerial of Camp O'Ryan

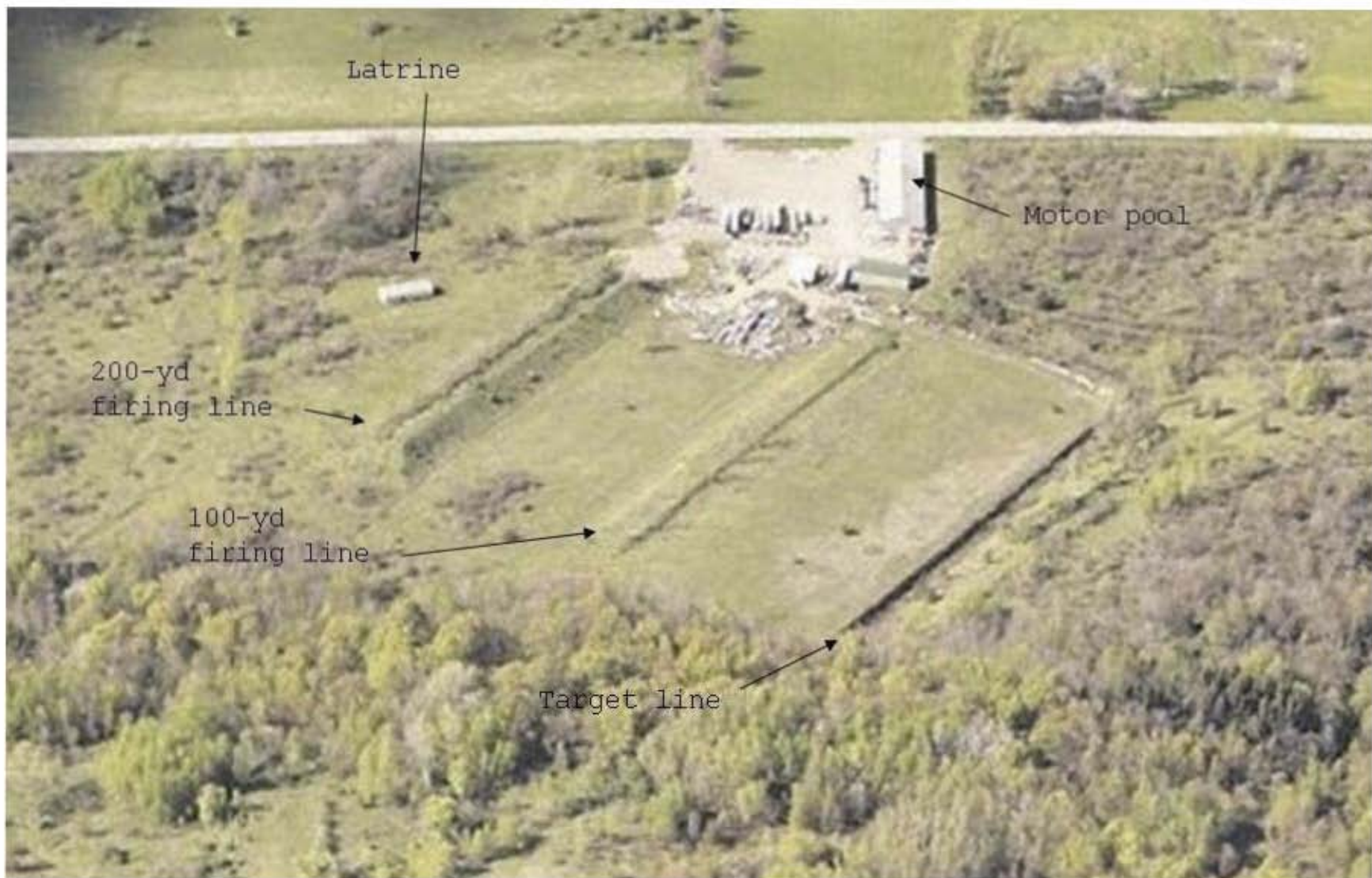
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2005 aerial of Camp O'Ryan

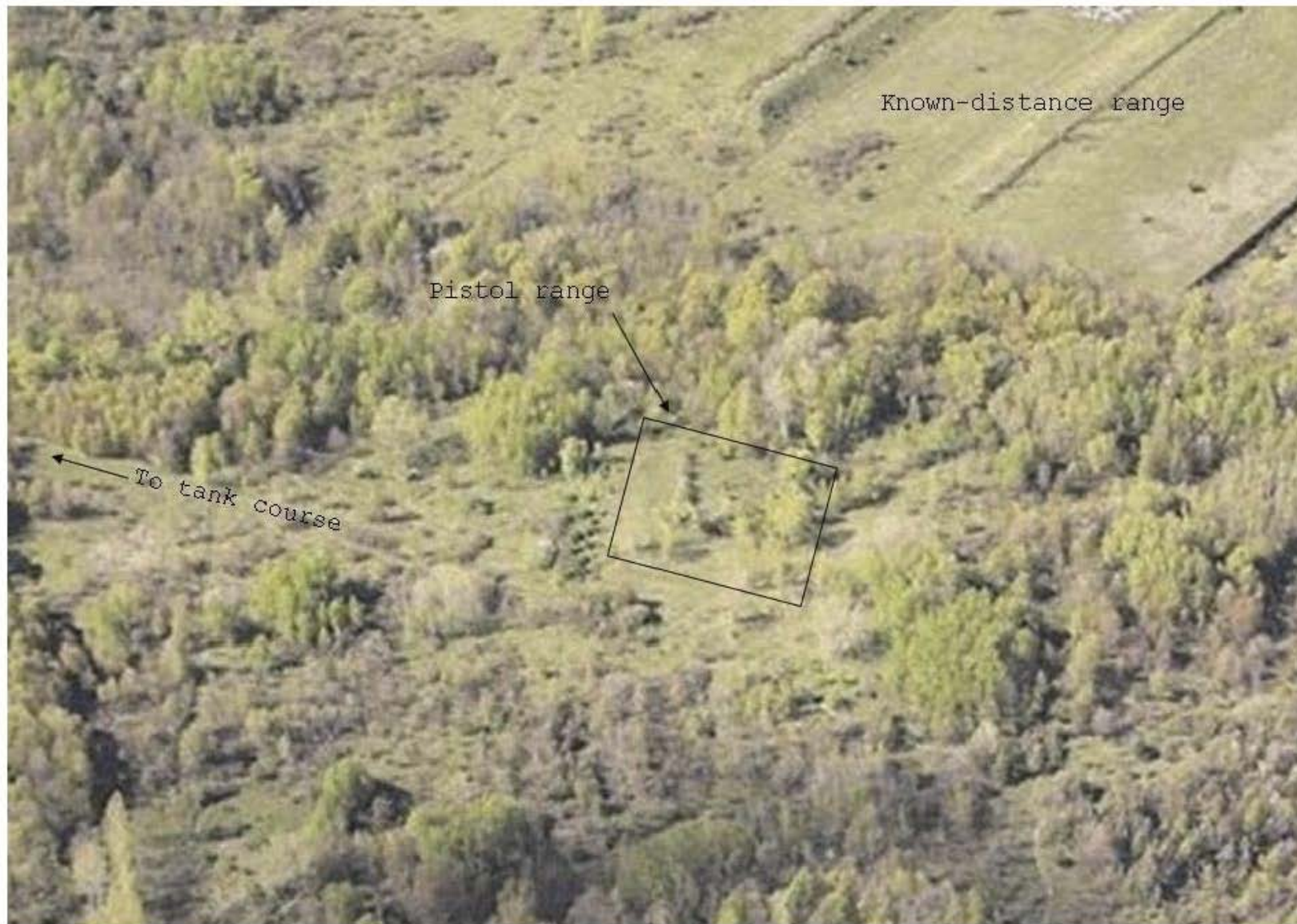
H-11C

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Circa 2007 birds-eye of the known-distance range

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Circa 2007 birds-eye of the pistol range

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PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix I

Maps/Drawings References

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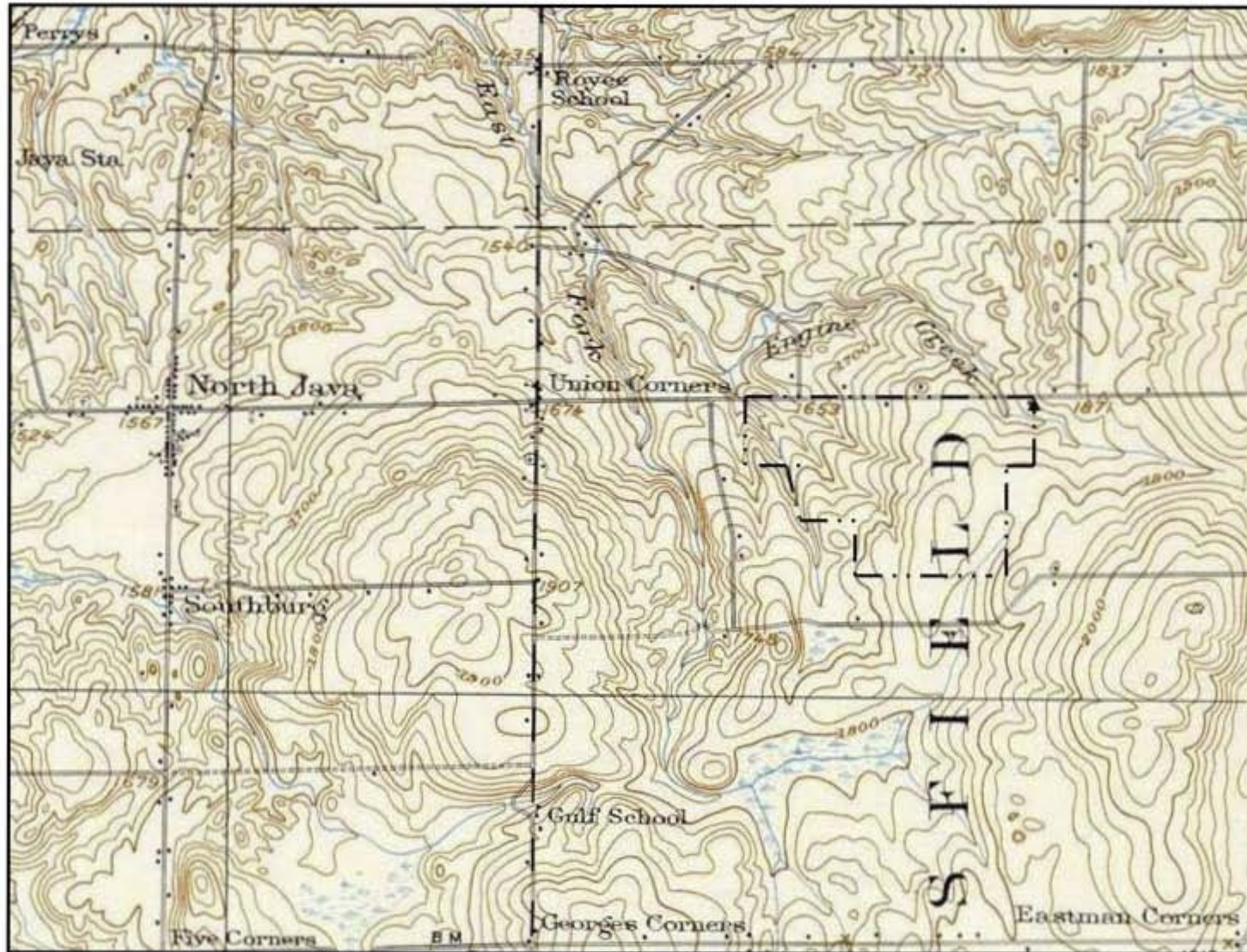
Appendix I

Maps/Drawings References

Table of Contents

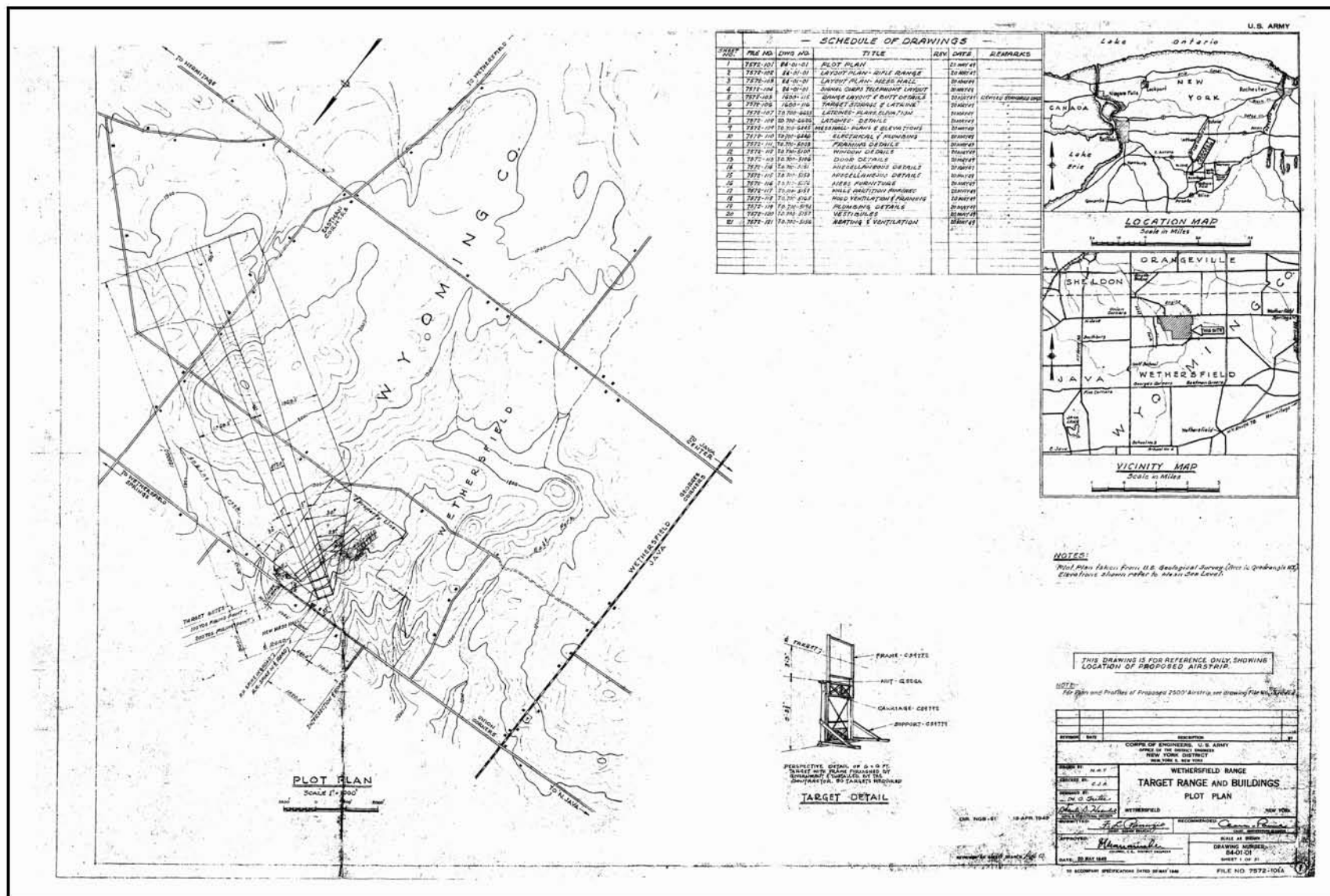
I-1	1925 topographical map (B-68)
I-2	1949 general site layout (B-34a)
I-3	Circa 1987 site map (B-34a)
I-4	Surface geologic deposit map (B-79)
I-5	Land use types (B-79)
I-6	Groundwater elevations (B-79)

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1925 topo w/border of future Camp O'Ryan

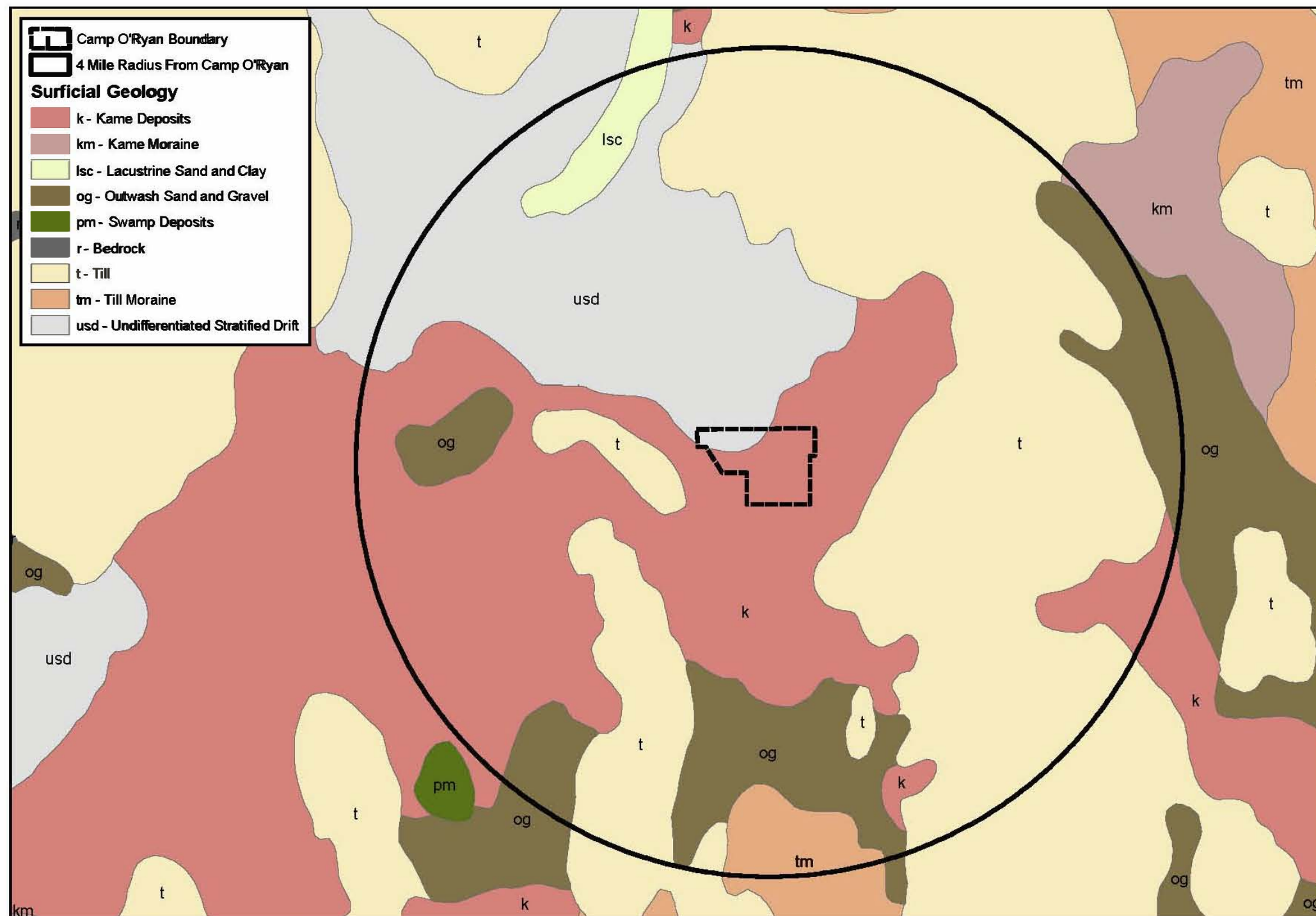
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May 1949 site layout

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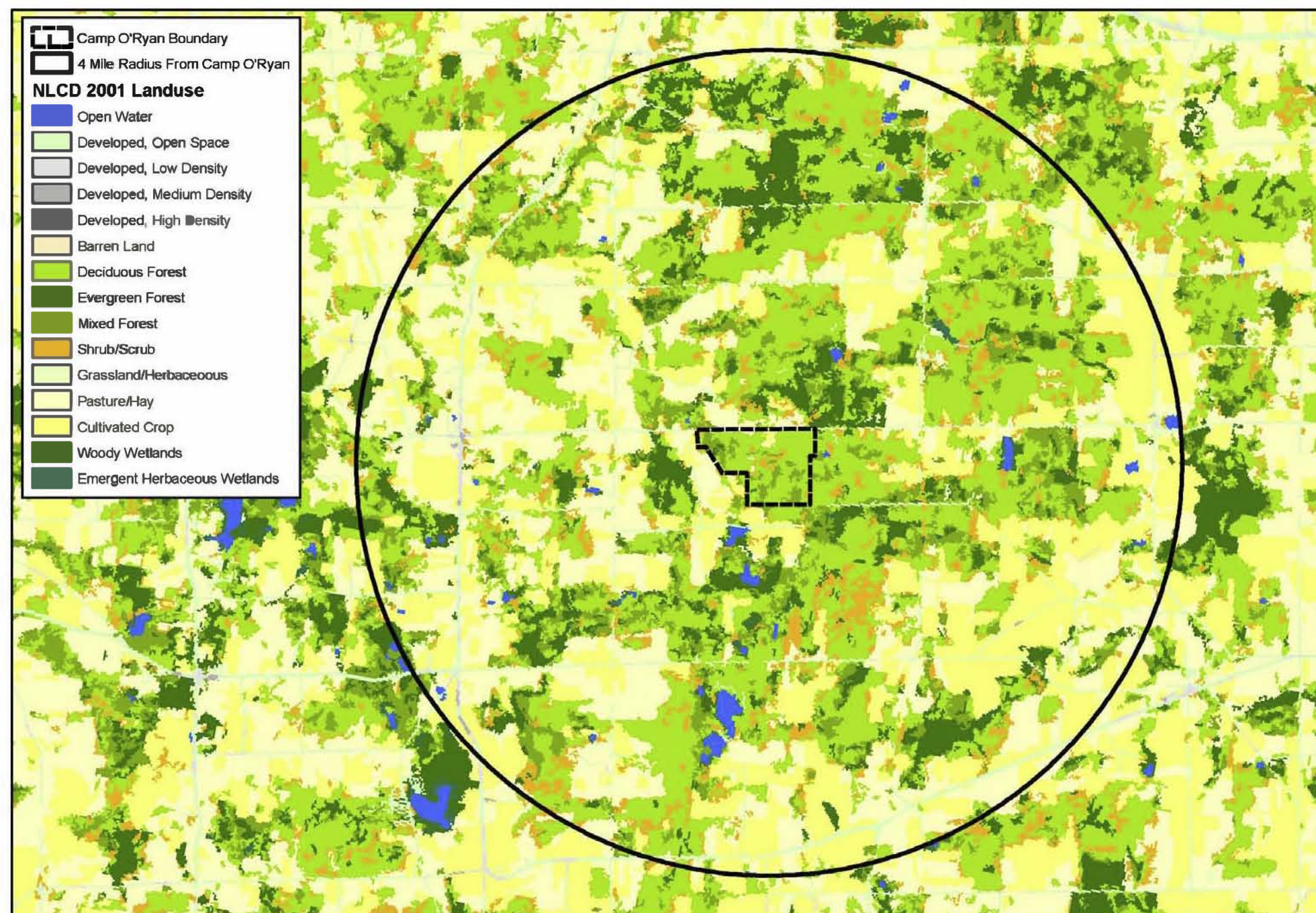


Source: New York State GIS Clearing House



Surficial Geology Camp O'Ryan - Wethersfield, NY





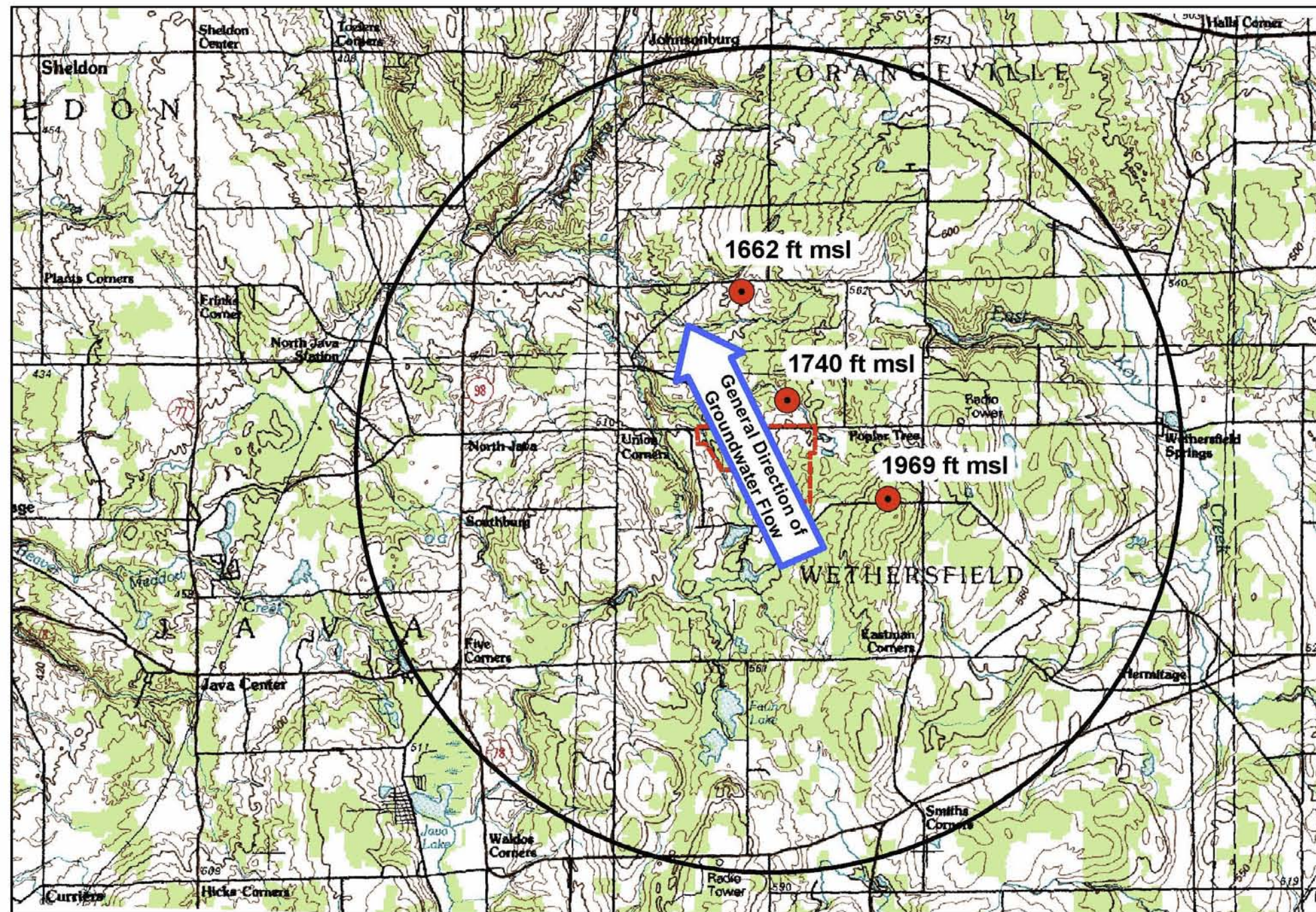
Source: National Land Cover Dataset 2001

0 0.5 1 2 3 Miles



Landuse Types Camp O'Ryan - Wethersfield, NY





Source: NYSDEC Water Well Program Database (Elevations from Drillers Logs on Well Installation)
 msl (Mean Sea Level) determined by subtracting depth below grade from topographic map elevations

0 0.5 1 2 3 Miles



-  Camp O'Ryan Boundary
-  4 Mile Radius From Camp O'Ryan
-  Registered Well Locations

Groundwater Elevations Camp O'Ryan - Wethersfield, NY



PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix J

Interviews

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Appendix J

Interviews

Table of Contents

J-1	Interview with retired NY ARNG Sergeant Don Barnes
J-2	Interview with retired NY ARNG Sergeant Peter Pilc
J-3	Interview with neighbor Wilson Parmerter
J-4	Interview with concerned citizen Jonathan Vogelmann
J-5	Interview with retired NY ARNG CW3 John Williams

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CONVERSATION RECORD	TIME 1300	DATE 15 and 17 Nov 09
----------------------------	---------------------	---------------------------------

TYPE

☐

E-MAILS

☒

CONFERENCE

☒

TELEPHONE

INCOMING

☒

OUTGOING

NAME OF PERSON CONTACTED

Don Barnes

ORGANIZATION

Retired ArNG

TELEPHONE NO.

716 677-0630

SUBJECT Camp O'Ryan

SUMMARY

Mr Barnes served in the 106th Field Artillery and then the 152nd Engineers from 1951 until 1990. He recalled many three-day weekends of training at Camp O'Ryan.

He remembered firing the M1 and later the M16 on the upper range. He also fired the 45 caliber handgun and 30 and 50 caliber machine guns on the machine gun range to the south. He noted the local farmers got upset with the noise from the 50 cal machine gun. He added that his engineer unit had bulldozers and in the spring often rebuilt the berms at the machine gun range.

Mr Barnes remembered there was a period in the 1970s when the site was closed and then reopened. He thought the last use of the rifle range was around 1985. He did not recall a moving target range.

He vaguely remembered training with bazookas and a practice hand grenade range, though he could not recall if these grenades had a spotting charge. He thought there was demolition training with C-4 charges but could not recall the location of either range.

Mr. Barnes said that small Piper Cub-type aircraft used to land on runway matting, and helicopters also landed at Camp O'Ryan. He added there was a tank driving course with concrete tank traps, and the 27th Armored Division used to have tank models M-41 and M-47.

Mr. Barnes is head of the Connecticut Street Armory vets group and hosts a gathering of vets there every Tuesday 1100-1900.

ACTION REQUIRED

None

NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-EC-DO	TELEPHONE NUMBER (309) 794-5184
SIGNATURE	TITLE Mil Hist Spec	DATE 15 Nov 09

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CONVERSATION RECORD		TIME 1330	DATE 13 Nov 09
TYPE			
<input type="checkbox"/> E-MAILS		<input checked="" type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED Peter Pilc	ORGANIZATION Retired ArNG	TELEPHONE NO. 716 888-5797	
SUBJECT Camp O'Ryan			
SUMMARY			
<p>Mr Pilc served in the 152nd Engineers from 1970 until 2005 and still works as a family assistance specialist at the Connecticut Street Armory. He recalled going to Camp O'Ryan as an E-1, always "in the rain."</p> <p>The only weapon he recalled firing was the M16 at the known distance range. He vaguely remembered a separate pistol range to the south, but he never fired there.</p> <p>Mr Pilc opened up numerous unit scrapbooks, but was unable to find any photos or articles on Camp O'Ryan. He did introduce us to other unit members, one of whom was in the 27th Armored Division and remembered training at the site with claymores and frag grenades. Another member recalled practicing air assaults from helicopters but no weapons training.</p> <p>Mr. Pilc strongly urged the team to return on Tuesday 1100-1900 when a group of older veterans gather in the armory.</p>			
ACTION REQUIRED			
Attend vets group on 17 Nov. DONE.			
NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-EC-DO	TELEPHONE NUMBER (309) 794-5184	
SIGNATURE	TITLE Mil Hist Spec	DATE 13 Nov 09	

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CONVERSATION RECORD		TIME 1330	DATE 16 Nov 09
TYPE			
<input type="checkbox"/> E-MAILS		<input checked="" type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED Wilson Parmerter	ORGANIZATION Area farmer	TELEPHONE NO. 585-535-7547	
SUBJECT Camp O'Ryan			

SUMMARY

Mr. Parmerter was born in 1931 in the farm on Bumbacker Road where he still lives. His land extends to the former western boundary of Camp O'Ryan. He remembered building the mess hall (now removed) in 1949.

He knew of the known distance range and the smaller pistol range to the south. He used to hear the firing of shotguns, rifles, and pistols but no explosions. He did recall seeing a few flares in the sky. He knew there was a tank training area on the west side and saw occasional helicopters landing.

Mr. Parmerter thought the Army training ended sometime in the mid-1970s, as he remembered a Bi-Centennial Wagon Train staying overnight at the known-distance range. He did think State Police later used the range. He added that some of the lead was later removed from the known distance range by a man who claimed the sale would benefit local veterans.

He did not think there were any USTs, though he identified two potential hazards, an open septic tank just north of the known distance range latrine and some "razor wire" in the woods east of the machine gun range.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-EC-DO	TELEPHONE NUMBER (309) 794-5184
SIGNATURE	TITLE Mil Hist Spec	DATE 16 Nov 09

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CONVERSATION RECORD		TIME 0900	DATE 17 Nov 09
TYPE			
<input checked="" type="checkbox"/> E-MAILS		<input checked="" type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input checked="" type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED Jonathan Vogelmann	ORGANIZATION Concerned citizen	TELEPHONE NO. (716) 824-0024	
SUBJECT Camp O'Ryan			
SUMMARY			
<p>Mr. Vogelmann has family across Wethersfield Road from the camp and remembered playing on the site as a child. He was aware of the known-distance and pistol ranges, but also found expended bullets on the back (NW) side of the known-distance range's 200-yd firing point. He was concerned about this lead and the much larger amount in the target butts, as he strongly suspected lead and other buried materials had affected the groundwater. He has posted some of his burial allegations on Wikipedia. http://en.wikipedia.org/wiki/Camp_O'Ryan</p> <p>He told us about an object found on the surface about 800 yards ESE of the pistol range, and the Wikipedia photo showed this to be an expended M29 practice rocket fired from a bazooka.</p> <p>http://en.wikipedia.org/wiki/File:What_is_this_Army_ordnance_100_8245a.JPG</p> <p>Mr. Vogelmann also said he saw some narrow gage railroad tracks, which CEMVR determined was most likely part of an old moving target range.</p> <p>He also related what he had been told about armed guards and cylinders that were buried about the time of the Cuban Missile Crisis (late 1962). Mr. Vogelmann accompanied CEMVR, CENAN, and DEC during the site visit on 17 November, but we found no obvious evidence of the buried cylinders.</p>			
ACTION REQUIRED			
None.			
NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-EC-DO	TELEPHONE NUMBER (309) 794-5184	
SIGNATURE	TITLE Mil Hist Spec	DATE 17 Nov 09	

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CONVERSATION RECORD		TIME 1000	DATE 15 Dec 09
TYPE			
<input type="checkbox"/> E-MAILS		<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED CW3 (ret) John Williams	ORGANIZATION Retired ArNG	TELEPHONE NO. (716) 826-8670	
SUBJECT Camp O'Ryan			

SUMMARY

Mr. Williams served 42 years in the NY Army National Guard and retired in the mid-1990s. He started out in artillery in 1954, then transferred to an engineer unit, and went full-time in 1959 to work at the area Nike Ajax and Hercules surface-to-air missile sites. He retired from a signal unit.

He remembered shooting the .30 caliber M-1 carbine and Garand rifles at the Camp O'Ryan known-distance range. In back of the known-distance range was a smaller range where he fired the .45 caliber Thompson machine gun and the M1911 pistol. Mr. Williams also remembered seeing tanks firing a .22 caliber sub-caliber gun at miniature soldiers and trucks at the smaller range.

Mr. Williams did not fire any blanks, just live small arms ammunition. Nor did he recall using hand grenades, bazookas, smoke grenades, or any demolition training. He thought there were gas pumps and possibly an underground storage tank near the motor pool.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-EC-DO	TELEPHONE NUMBER (309) 794-5184
SIGNATURE	TITLE Mil Hist Spec	DATE 15 Dec 09

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PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix K

Site Safety and Health Plan (SSHP)

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Date: 19 October 2009

ABBREVIATED SITE-SPECIFIC SAFETY AND HEALTH PLAN (ASSHP)
FOR

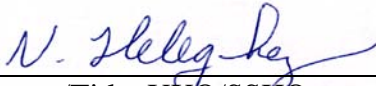
Site name:	Camp O’Ryan (Wethersfield Training Area)
Site location:	Wethersfield, NY (Wyoming County)
Purpose of Visit:	MMRP PA Site Visit
Date(s) of site visit:	November 2009
ASSHP prepared by:	Ronald G. Plante

Office:	CEMVR-EC-DO
Address:	PO Box 2004, Rock Island, IL 61204-2004
Telephone:	Commercial: (309) 794-5184 DSN: N/A

Date Prepared: 19 October 2009

SIGNATURE: _____ DATE: _____

ASSHP REVIEWED/APPROVED BY (USACE Command designated approval authority):



Signature/Title: UXO/SSHO

10/20/09

DATE

NOTE: This ASSHP is to be used only for non-intrusive site visits and it must be approved prior to the start of the field visit. All team members must read and comply with the ASSHP, and attend the safety briefings. The UXOSO/OE Safety Specialist will ensure the Safety Briefing Checklist and the plan acceptance forms are filled out prior to the start of the site visit.

I. SITE DESCRIPTION AND PREVIOUS INVESTIGATIONS

(Attach a site map to this ASSHP)

A. SITE DESCRIPTION:

- o Size: Approximately 375 acres
- o Present usage (Check all that apply)

Military	Recreational	X Agricultural
Residential	Commercial	Landfill
Natural Area	Industrial	
Other Specify		

Secured	Active	Unknown
X Unsecured	X Inactive	

B. PAST USES: (Attach a summary to the historic uses of this site. Identify specific areas if possible.)

The 375-acre site was a NY Army National Guard firing range and training area from 1949 until 1974. There was a known-distance small arms range and a sub-machine gun range. A linked belt of unfired small arms ammunition was found in DEC 2008, and a photo posted to the www shows what appears to be a practice 3.5" bazooka round.

C. SURROUNDING POPULATION:

<input checked="" type="checkbox"/> Rural	Residential	Commercial
Urban	Industrial	
Other specify		

D. PREVIOUS SAMPLING/INVESTIGATION RESULTS:

(1) MEC ENCOUNTERED:

Location:		Description:
Possible 3.5" M29 practice rocket.		
Small arms cartridges		

(2) SAMPLES: (Air, Water, Soil, Vegetation)

Chemical	Concentration	Media	Location

II. DESCRIPTION OF ON-SITE ACTIVITIES:

<input checked="" type="checkbox"/> Walk-through	<input checked="" type="checkbox"/> Drive-through	Fly over
<input checked="" type="checkbox"/> On road	Off road	On path
<input checked="" type="checkbox"/> Off path		
Other Specify		

Activities/Tasks to be Performed (Summarize):

Visual reconnaissance, photography, and recording of GPS locations

III. SITE PERSONNEL AND RESPONSIBILITIES:

A. USACE PROJECT MANAGER/TEAM LEADER:

NAME:	Ronald G. Plante
OFFICE:	CEMVR-EC-DO
ADDRESS:	PO Box 2004, Rock Island, IL 61204-2004
PHONE:	(309) 794-5184

RESPONSIBILITIES:

The Team Leader will ensure the ASSHP is completed along with coordinating and executing the site visit

B. UXOSO/OE SAFETY SPECIALIST:

NAME:	Nick Heleg-Greza
OFFICE:	CEMVR-EC-DO
ADDRESS:	PO Box 2004, Rock Island, IL 61204-2004
PHONE:	(309) 794-5466

RESPONSIBILITIES: Brief this ASSHP. Ensure the ASSHP guidelines are followed. Provide UXO escort duties.

D. FIRST AID/CPR Certified:

NAME:	Nick Heleg-Greza
OFFICE:	CEMVR-EC-DO
ADDRESS:	PO Box 2004, Rock Island, IL 61204-2004
PHONE:	(309) 794-5466

NAME:	Ronald G. Plante
OFFICE:	CEMVR-EC-DO
ADDRESS:	PO Box 2004, Rock Island, IL 61204-2004
PHONE:	(309) 794-5184

RESPONSIBILITIES: Administer First Aid in the event of an emergency.

E. TEAM MEMBERS: (other than those listed above)

NAME:	
OFFICE:	
ADDRESS:	
PHONE:	

RESPONSIBILITIES:

Assist other SI Team Members as necessary.
--

IV. HAZARD ANALYSIS:

A. Safety and health hazards anticipated: No UXO/CWM has been reported, but the investigation is still in its early stages.

Chemical: None known at present.

Ordnance (specify): Lead is likely, and there may be 3.5” practice bazooka rounds.

Heat Stress	X Cold Stress	X Tripping Hazard
Noise	Electrical	Falling Object
X Foot hazard	Biological	Overhead Hazard
Radiological	Confined Space	Water
Explosive	Climbing	Flammable
Other specify: Muddy and wooded areas.		

B. Overall Hazard Evaluation:

High	Moderate	X Low	Unknown
------	----------	--------------	---------

JUSTIFICATION: (Provide a brief justification supporting the overall rating.)

At the present time, there is no indication of HE-filled items used on the site.

V. ACCIDENT PREVENTION:

A. General Precautions:

Prior to the on-site visit, all team members are required to read this ASSHP and sign the form acknowledging that they have read and will comply with it. In addition, the UXOSO/OE Safety Specialist will hold a brief tailgate meeting in which site specific topics regarding the day's activities will be discussed. The buddy system will be enforced at all times. If unanticipated hazardous conditions arise, team members are to stop work, evacuate the area and notify the UXOSO/OE Safety Specialist.

VI. STANDARD OPERATION SAFETY PROCEDURES, ENGINEERING CONTROLS AND WORK PRACTICES:

A. SITE RULES/PROHIBITIONS: At any sign of hazardous conditions, stop tasks, evacuate area and notify the UXOSO/OE Safety Specialist. Smoking, eating and drinking allowed in designated areas only.

B. MATERIAL HANDLING PROCEDURES: Do not handle.

C. DRUM HANDLING PROCEDURES: Do not handle.

D. CONFINED SPACE ENTRY: Do not enter.

E. IGNITION SOURCE AND ELECTRICAL PROTECTION: Do not smoke.

F. SPILL CONTAINMENT: N/A

G. EXCAVATION SAFETY: Do not enter trenches/excavations.

H. ILLUMINATION: Work during daylight hours only.

I. SANITATION: Use existing sanitary facilities.

J. BUDDY SYSTEM: Two persons on-site maintaining constant contact with each other. To be adhered to at all times.

K. ENGINEERING CONTROLS: N/A

L. HEAT/COLD STRESS: Dress appropriately. Take sufficient breaks and drink plenty of fluids. Watch for signs/symptoms of cold/heat stress. Monitoring may be applicable depending on the site weather conditions and type of personal protection equipment (PPE) worn.

M. ORDNANCE:

(1) General Information:

a. The cardinal principle to be observed involving explosives, ammunition, severe fire hazards or toxic materials is to limit the exposure to a minimum of personnel, for the minimum amount of time, to a minimum amount of hazardous material consistent with a safe and efficient operation.

b. Old, damaged, and possibly deteriorated explosive-loaded ordnance requires extreme caution. Some explosives may react with metals, other explosives, air, or chemicals in the earth to produce extremely sensitive explosive compounds.

c. When chemical agents may be present, further precautions are necessary. If the munition item has green markings leave the area immediately, since it may contain a chemical filler.

d. Consider ordnance that has been exposed to fire as extremely hazardous. Chemical and physical changes may have occurred to the contents which render it more sensitive than it was in its original state.

(2) On-Site Instructions:

a. **DO NOT** touch or move any ordnance items regardless of the marking or apparent condition.

b. **DO NOT** visit an ordnance site if an electrical storm is occurring or approaching. If a storm approaches during a site visit leave the site immediately and seek shelter.

c. **DO NOT** use radio or cellular phones in the vicinity of suspect ordnance items.

d. **DO NOT** walk across an area where the ground cannot be seen. If dead vegetation or dead animals are observed, leave the area immediately due to potential chemical agent contamination.

e. **DO NOT** drive vehicles into suspected MEC areas; use clearly marked lanes.

f. **DO NOT** carry matches, lighted cigarettes, lighters or other flame producing devices into a MEC site.

g. **DO NOT** rely on color codes for positive identification of ordnance items or their contents.

h. Approach ordnance items from the side, avoid approaching the front and rear areas.

i. Always assume ordnance items contain a live charge until it can be determined otherwise.

(3) Specific Action Upon Locating Ordnance:

a. **DO NOT** touch, move or jar any ordnance item, regardless of its apparent condition.

b. Approach the item cautiously, take photographs and a full description. Take notes of the markings or any other identifiers/features.

c. **DO NOT** be misled by markings on the ordnance item stating "practice", "dummy", or "inert". Even practice bombs have explosive charges that are used to mark/spot the point of impact; or the item could be mismarked.

d. **DO NOT** roll an ordnance item over or scrape the item to identify the markings.

e. The location of any ordnance items found during the site investigation should be clearly marked so it can be easily located and avoided.

f. The U.S. Army Engineering and Support Center, Huntsville, (256) 895-1598, will be notified upon location of any UXO.

N. POISONOUS SNAKES OR INSECTS:

a. **DO NOT** handle any snake even those that appear to be dead.

b. Avoid areas of limited visibility such as tall grass or heavy vegetation.

c. Roll sleeves down and use insect repellant.

O. POISONOUS PLANTS:

a. Avoid areas of limited visibility such as tall grass or heavy vegetation.

b. Roll sleeves down and use barrier cream and wear gloves.

P. OTHER (specify):

--

VII. SITE CONTROL AND COMMUNICATIONS:

A. SITE MAP: See Attached.

B. SITE WORK ZONES: N/A

C. BUDDY SYSTEM: To be adhered to at all times.

D. COMMUNICATIONS:

(1) ON-SITE: Verbal communications will be used among team members to communicate to each other on-site. If this communication is not possible, the following hand signals will be used.

GRIP PARTNER'S WRIST OR BOTH HANDS AROUND WAIST

Leave the area immediately.

HAND GRIPPING NOSE - Unusual smell detected

THUMBS UP - OK, I am alright or I understand

THUMBS DOWN - No, negative

(2) OFF-SITE: Off-site communications will be established on every site. Communications may be established by using an on-site cellular phone or by locating the nearest public phone or private phone which may be readily accessed.

Cellular Phone: (309) 737-6663

Public/Private phone N/A

Other. TBD on-site before commencing site visit.

(3) EMERGENCY SIGNALS: In the case of small groups, a verbal signal for emergencies shall suffice. The emergency signal for large groups should be incorporated at the discretion of the UXOSO/OE Safety Specialist.

☒ Verbal

☒ Nonverbal (Specify) See item VII.D.1. above.

VIII. EMERGENCY RESPONSE:

a. Team members are to be alert to the dangers associated with the site at all times. If a hazardous condition arises, stop work, evacuate the immediate area and notify the UXOSO/OE Safety Specialist.

b. FIRST AID. A first aid kit and emergency eye wash (as applicable) will be located in the UXOSO/OE Safety Specialist's field car. If qualified persons (i.e. a fire department, medical facility or physician) are not accessible within five minutes of the site at least one team member will be qualified to administer first aid and CPR.

c. EMERGENCY TELEPHONE NUMBERS:

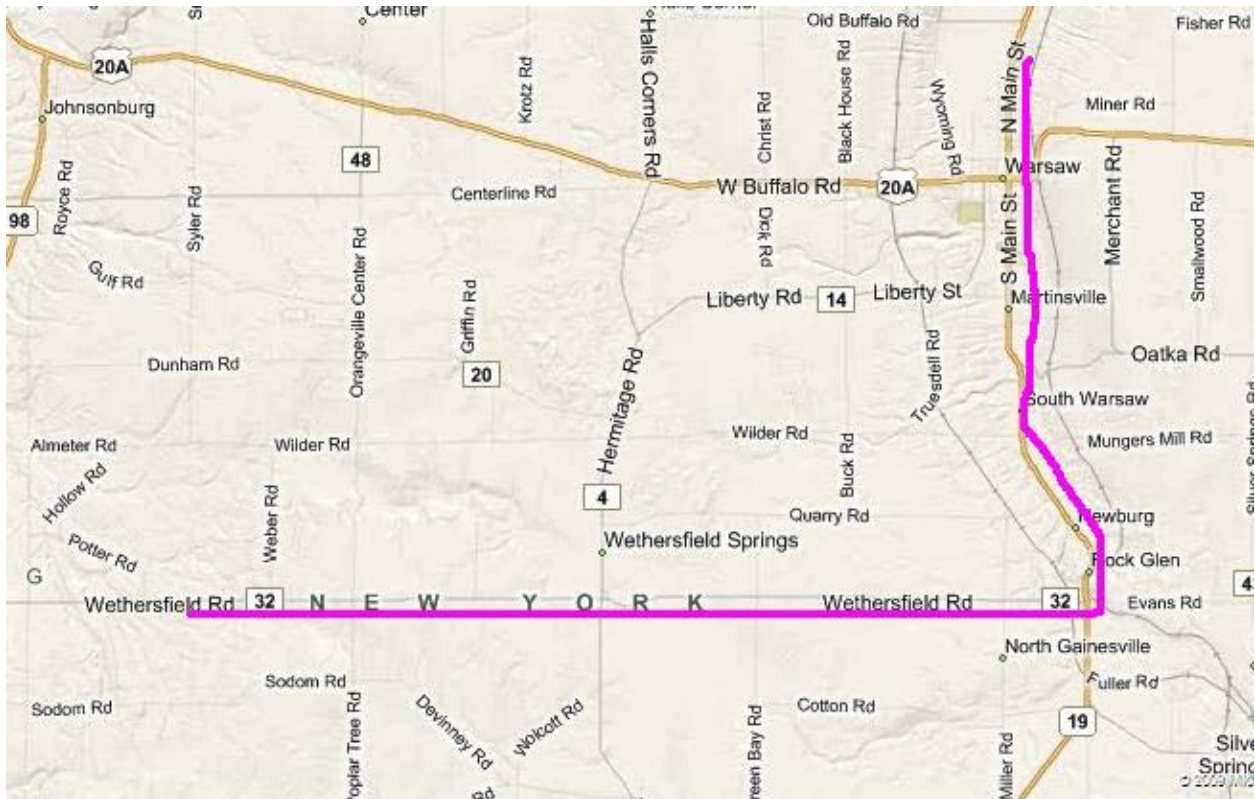
1. MEDICAL FACILITY:	585 786-2233 (Warsaw hospital)
2. FIRE DEPARTMENT:	585 786-8867 (Warsaw FD)
3. POLICE DEPARTMENT:	585 786-8989 (Wyoming Co Sheriff)
4. POISON CONTROL CENTER:	800 222-1222
5. USAESCH OE SAFETY OFFICE:	256 895-1598
6. FORSCOM EOD: 716 th Ord Co (EOD)	315 772-5408 (Ft Drum)
7. TEU:	401 671-2773.
8. PROJECT MANAGER: CENAN Greg Goepfert	917 790-8235
9. Other (CEMVR-EC-DO):	309-794-5504

d. DIRECTIONS TO THE NEAREST HOSPITAL/MEDICAL FACILITY:

From the former Camp O’Ryan.

1. Go east on Hwy 32 (Wethersfield Road) for 12 miles.
2. When Hwy 32 ends at Rt 19, go left (north) thru Rock Glen and Newburg.
3. Approaching Warsaw, Rt 19 becomes Main St.
4. Continue thru town and go ten blocks. The hospital is on the right.
5. End at Wyoming County Community Hospital, 400 N Main St, Warsaw, NY. .

Route to hospital from site



IX. MONITORING EQUIPMENT AND PROCEDURES:

a. Exposure Monitoring: For non-intrusive on-site activities such as site visits, air monitoring is normally not required. However, if the site situation dictates the need for monitoring, complete the following information on a separate page and attach the page to the ASSHP.

N/A Monitoring equipment to be used.

N/A Documentation of equipment calibration and results.

N/A Action Levels.

b. Heat/Cold Stress Monitoring: Include an enclosure with the condition to be monitored and the procedures. If heat stress monitoring is necessary, the monitoring criteria published in Chapter 8 of the NIOSH/OSHA/USCG/EPA "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities" (Oct '85) will be followed. If cold stress monitoring is necessary, it will be conducted IAW the most current published American Conference of Governmental Industrial Hygienist (ACGIH) cold stress standards.

X. PERSONAL PROTECTIVE EQUIPMENT:

a. GENERAL:

Typically, for non-intrusive site visits, Level D is required. Team members should avoid wearing outer or undergarments made of wool, silk or synthetic textiles such as rayon or nylon.

These materials can generate sufficient static charge to ignite explosives. Hard hats will be worn if an overhead hazard exists, safety glasses if an eye hazard is present, and safety shoes will be worn if a foot hazard exists.

b. NON-INTRUSIVE SITE VISIT:

Level of Protection: Level D

Initial: Level D Modified (specify)

--

Contingency: Evacuate site if higher level of protection is needed.

XI. DECONTAMINATION PROCEDURES:

Decontamination procedures are not anticipated for this site investigation. Team members are cautioned not to walk, kneel or sit on any surface with potential leaks, spills or contamination.

XII. TRAINING:

All site personnel will have completed the training required by EM 385-1-1 and 29 CFR 1910.120 (e). The USACE Project Manager will ensure and the UXOSO/OE Safety Specialist will verify that all on-site personnel have completed the appropriate training prior to submitting the plan to the Safety Office for review. Additionally, the UXOSO/OE Safety Specialist will inform personnel before entering, of any potential site specific hazards and procedures.

XIII. LOGS, REPORTS AND RECORDKEEPING:

Site logs are maintained by the Project Manager. This is to include historical data, personnel authorized to visit the site, all records, standard operating procedures and the ASSHP submitted. Any air monitoring logs, SOPs, and attachments to plans.

XV. GENERAL:

The number of persons visiting the site will be held to a minimum. No more than 8 persons per UXOSO/OE Safety Specialist will be allowed on site. The more persons on-site, the greater potential for an accident. The UXOSO/OE Safety Specialist may modify this ASSHP, if site conditions warrant it, and without risking the safety and health of the team members. This modification will be coordinated with the team members and the UXOSO/OE Safety Specialist will notify the approving authority of the change as the situation allows.

SAFETY BRIEFING CHECKLIST
(Check subjects discussed)

SITE NAME: Camp O’Ryan	DATE/TIME: / /
------------------------	------------------------

GENERAL INFORMATION

PURPOSE OF VISIT

IDENTIFY KEY SITE PERSONNEL

TRAINING AND MEDICAL REQUIREMENTS

SPECIFIC INFORMATION

Site description/past uses

Results of previous studies

Potential site hazards

MEC safety procedures

Site SOPs

Site control and communications

Emergency hand signals

Emergency response

Location of first aid kit

Emergency phone numbers & location

Location of nearest medical facility and location of map to facility

PPE and decontamination

Stress the following during the briefing: If hazardous conditions arise, stop work, evacuate the area and notify the UXOSO/OE Safety Specialist.

PLAN ACCEPTANCE FORM
ABBREVIATED SAFETY AND HEALTH PLAN
FOR

Site name: Camp O’Ryan
Location: Wethersfield, NY

I have read and agree to abide by the contents of the Safety and Health Plan and I have attended the Safety Briefing for the aforementioned site.

NAME (PRINTED)	OFFICE	SIGNATURE	DATE

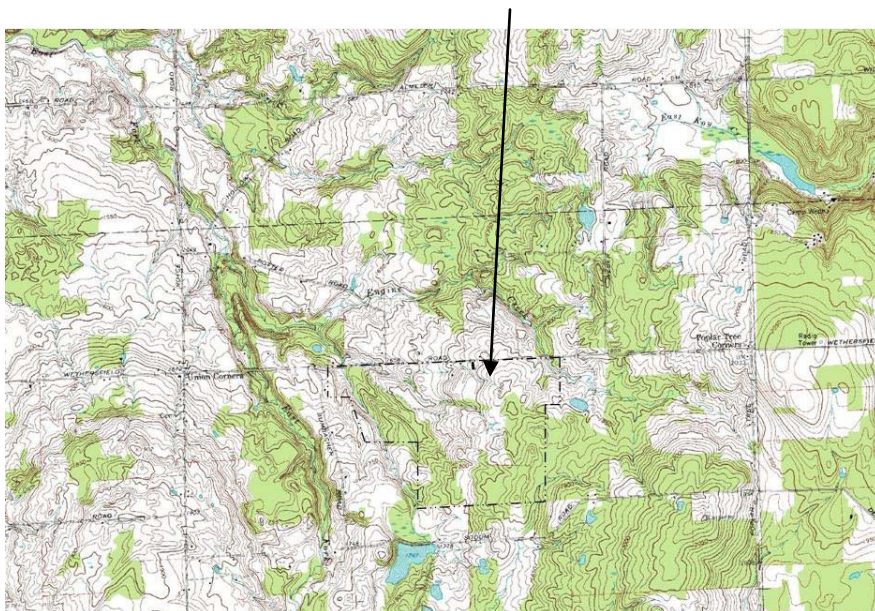
Person presenting the safety briefing:

Signature

Date

General Site Map

Former Camp O’Ryan



PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix L

Visual Property Inspection Report

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Camp O’Ryan Property Visit

On 14 November 2009 the MVR team (Ron Plante and Nick Heleg-Greza) parked next to the former motor pool on King Brothers property on Wethersfield Road for its first visit to the site (see photos M-1 and M-2). We then walked southward and observed the two firing lines and target butt of the known-distance range (see photos M-3 thru M-5). There was some trash, but the only items of military origin were some .38 caliber and 5.56mm expended cartridge cases about five yards in front of the concrete target walls. The .38 caliber cases and location suggest these were fired by police or other non-military personnel, as soldiers would typically have fired from the 100 and 200-yard firing lines.

The team continued further south and crossed a deep ravine to observe a former latrine structure (see photo M-6). We then found the three berms that surrounded the pistol range, now heavily overgrown (see photo M-7). No expended cartridge cases or MEC was observed, and the magnetometer did not indicate sub-surface metals.

Directly east of the pistol range we searched the area where old aerials indicated a possible demolition pit (see photos M-8). Nothing of military origin was observed, though the magnetometer detected one buried metal object. We did not see the narrow-gauge railroad tracks reported to be in the area from a former moving target range.

Further to the east, the team found an old road still used by all terrain vehicles (ATVs). On the east side of the trail, we observed an old foxhole and the nose cone from a fired 3.5” practice rocket projectile (see photo M-9). Continuing southward on this trail, we then observed an expended slap flare also on the east side (see photo M-10).

Continuing southward on this trail, we observed a “highly flammable” sign which apparently marked the former location of a petroleum, oil, and lubricants (POL) point (see photo M-11). The only other evidence of this site was an empty container in a creek bed about 100 yards further south (see photo M-12).

The POL point was in the same general area where an intact fired 3.5” practice rocket projectile had previously been found. The team did not find any evidence of this training, and the magnetometer did not reveal subsurface metals (see photo M-13).

Going further south on the trail, the team observed a T-shaped crew-sized foxhole and then a sign facing the south (see photo M-14). Only the final “s” remains, and among the many possible markings are “Training in progress.”

At the southeast edge of the former military property are several signs indicating the trail we had followed is used for cross-country skiing (see photos M-15 and M-16). Further to the east are several precise rows of pine trees (see photos M-17).

The team then went “cross country” and headed northwest to rejoin the trail and return to the pistol range area. We saw nothing of a military origin, though we did observe several tree stands for deer hunting (see photo M-18).

As we walked westward on the trail and approached the downrange side of the pistol range, we observed the partially buried remnants of range warning signs (see photo M-19).

We then continued northwest on the trail (see photo M-20) and reached the former tank training course. Though partially overgrown, the concrete “dragon’s teeth” and other permanent course features still remain (see photos M-21 and M-22).

The team exited the property where the road to the tank training course meets Wethersfield Road just west of Potter Road (see photo M-23). We walked east on the shoulder and reentered the property just west of the motor pool. The structure west of the 200-yard firing point is a former latrine (see photo M-24). Two other military structures, including the mess hall, are no longer present. See Appendix L-1 for our route.

On 15 November we returned to the site and walked the north side of the known distance range from the 100 yard firing point to the downrange area behind the concrete target wall. In the backstop furrows we observed some expended .30, .38, and .45 caliber bullets, but no other military items (see photos M-25 and M-26). The .38 caliber bullets do not appear to be military.

We then entered the wooded area east of the backstop and found two foxholes. Near these were a solitary intact expended 3.5” practice rocket projectile and then a group of four projectiles (see photos M-28 and M-29). We walked south as far as the ravine and then continued east w/o observing any other military items. We then proceeded north on a trail that led to Wethersfield Road just east of the motor pool (see photo M-30). See Appendix L-2 for our route.

On 17 November, we visited the site with: Greg Goepfert, NAN; Alan Koppel, NAD; Eugene Melnyk and Martin Doster, DEC; and area resident Jonathan Vogelmann. After a safety briefing, we spent 10 minutes at the known distance range. We then moved our cars to park on Potter Road and cross Wethersfield Road to walk in on the trail past the tank training course. Just before reaching the pistol range, we turned south and took a path toward the possible cylinder burial area. We left the trail and first stopped in an overgrown area where the magnetometer got several hits on what was likely barbed wire (see photo M-31). We also observed metal pieces of a military truck troop seat (see photo M-32). It was at this point that all the visitors left.

The MVR team headed north and climbed over a possible berm to find the open area visible on aerials (see photo M-33). The magnetometer got one hit in the road, possibly a nail, but nothing to confirm the presence of buried cylinders. The team used the trail adjacent to this open area (see photo M-34) to head north and then west to return to our vehicle. No MEC or munitions debris was observed on this final visit. See Appendix L-3 for our route. Appendix L-4 shows all three days and significant observations.

PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix M

Visual Property Inspection Photographs

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Appendix M

Visual Property Inspection Photographs

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M-1	Former motor pool on Wethersfield Road.
M-2	Wethersfield Road facing west from front of motor pool.
M-3	Known distance range 200-yard firing berm.
M-4	Known-distance range concrete target butt.
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M-7	Pistol range berm facing east.
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M-9	Nose cone from expended 3.5” practice bazooka round, east of pistol range.
M-10	Expended slap fare, southeast of pistol range.
M-11	Sign indicating former petroleum, oil, and lubricants (POL) point southeast of pistol range.
M-12	Empty military oil container away from trail south of POL point.
M-13	Southeast of POL point, general area where Jonathan Vogelmann had found an expended 3.5” practice bazooka round.
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M-16	Signs at southeast corner of the property.
M-17	Rows of trees on the southeast edge of the property.
M-18	One of several deer hunter tree stands southeast of the pistol range.
M-19	Old range signs on the east (downrange) side of the pistol range berm.

- M-20 Trail from pistol range leading northwest to tank training course.
- M-21 Concrete obstacles in tank training area northwest of pistol range.
- M-22 Concrete structure in tank training area northwest of pistol range.
- M-23 Trail to tank training course and pistol range off Wethersfield Road.
- M-24 Former latrine west of the known-distance range.
- M-25 Known-distance range target backstop furrow from bullet impacts.
- M-26 Expended .45 caliber bullet in known-distance range backstop.
- M-27 Downrange area behind (east of) known-distance range backstop.
- M-28 Expended 3.5” practice bazooka round behind (east of) backstop.
- M-29 Four expended 3.5” practice bazooka rounds behind backstop.
- M-30 Trail leading from Wethersfield Road to behind the known-distance range backstop.
- M-31 Personnel in general vicinity is possible cylinder burial area.
- M-32 Pieces of military troop seats in possible cylinder burial area.
- M-33 Open site in vicinity of possible cylinder burial area.
- M-34 Trail leading northwest from possible cylinder burial area.



M-1. Former motor pool on Wethersfield Road.



M-2. Wethersfield Road facing west. Motor pool is to the left.

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M-3. Known-distance range, 200 yard firing line berm. Soldiers shot at targets out of the photo to the left.



M-4. Known-distance range concrete target butt. Some frames for moving the targets up and down have been removed. Bullets impacted to the left.

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M-5. Bullet impact area in known-distance range backstop.



M-6. Ravine south of known-distance range. Former latrine is in the background.

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M-7. Pistol range berm facing east. Soldiers fired into this berm from here.



M-8. Area of possible demolition pits east of pistol range.

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M-9. Nose cone from expended 3.5” practice bazooka round, east of pistol range



M-10. Expended slap flare, southeast of the pistol range.

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M-11. Sign indicating former POL point southeast of pistol range.



M-12. Empty military oil container away from trail south of POL point.

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M-13. Southeast of POL point, general area where Jonathan Vogelmann found an expended practice 3.5” bazooka round.



M-14. Sign on trail further south of the POL point. Sign was facing south.

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M-15. “Seaway Trail” sign at southeast corner of the property.



M-16. Cross-country ski trail sign at southeast corner of the property.

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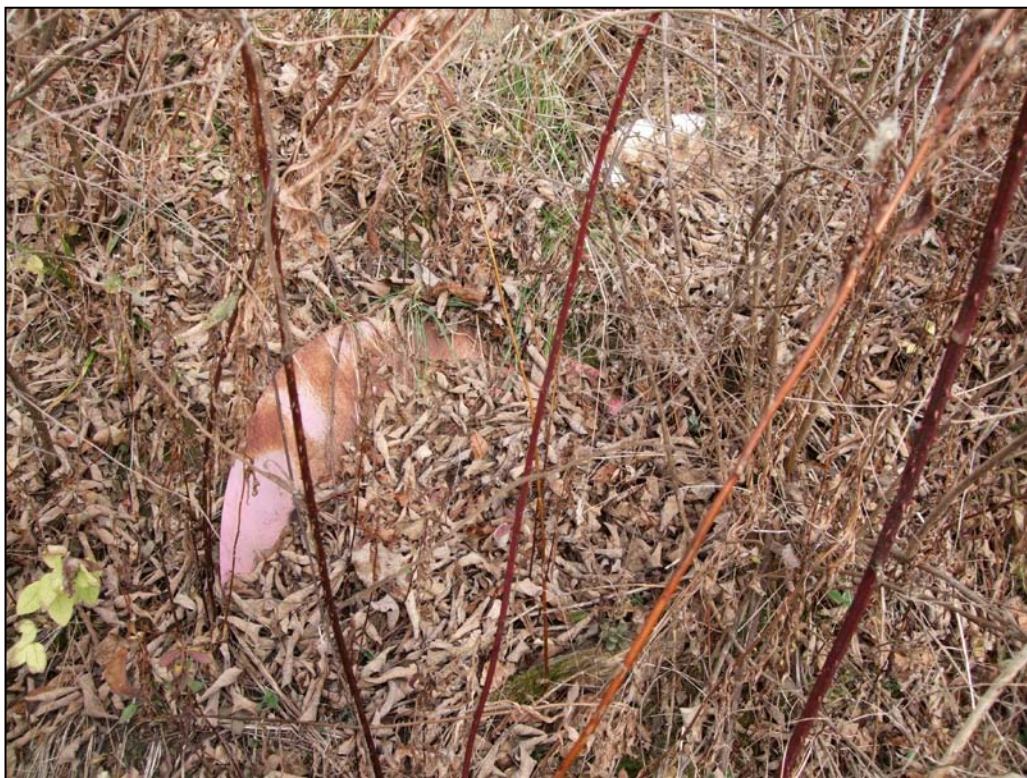


M-17. Rows of trees on the southeast edge of the property.



M-18. One of several tree stands southeast of the pistol range.

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M-19. Old range signs on the east (downrange) side of the pistol range berm.



M-20. Trail from pistol range leading northwest to tank training course.

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M-21. Concrete obstacles in tank training course northwest of pistol range.



M-22. Concrete structure in tank training course northwest of pistol range.

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M-23. Trail to tank training course and pistol range off Wethersfield Road. This is diagonal from Potter Road, about .5 miles west of the motor pool.



M-24. Former latrine west of the known distance range.

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M-25. Known-distance range target backstop furrow from the impact of thousands of bullets.



M-26. Expended .45 caliber bullet in known-distance range backstop.

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M-27. Downrange area behind (east of) known distance range backstop.



M-28. Expended 3.5” practice bazooka round behind (east of) backstop.

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M-29. Four expended 3.5” practice bazooka rounds about 100 yards behind the known-distance range backstop.



M-30. Trail leading to behind the known-distance range and then toward the possible demolition pits. This is Wethersfield Road about 400 feet east of the motor pool.

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M-31. PA team member, DEC, and others in the general vicinity of the possible cylinder burial area. Possible berm is in the background.



M-32. Pieces of a military truck troop seat in the general vicinity of the possible cylinder burial area.

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M-33. Open site in the vicinity of the possible cylinder burial area.



M-34. Trail leading northwest from possible cylinder burial area to pistol range and tank training area.

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PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix N

Report Distribution

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APPENDIX N

Report Distribution

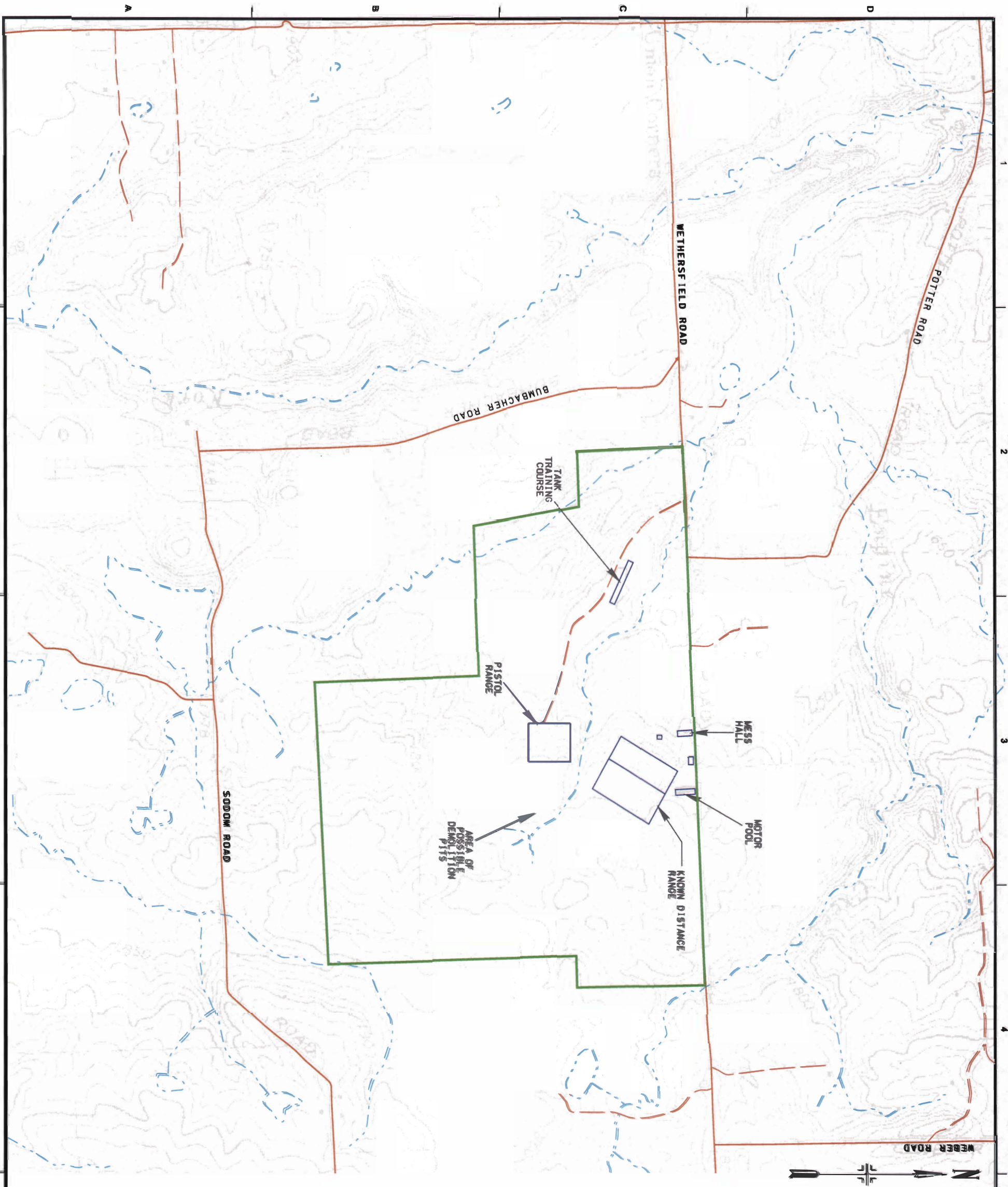
	Draft	Revised Draft	Draft Final	Final
Commander, U.S. Army Engineer District, New York ATTN: CENAN-PP-E (Goepfert) Jacob K. Javits Federal Building 26 Federal Plaza, Room 1811 New York, NY 10278-0090	2	2	2	1
Commander, US Army Engineer District, New England ATTN: CENAE-EP-G (Margolis) 696 Virginia Road Concord, MA 01742	2	2	2	1
Commander, U.S. Army Engineer District, Rock Island ATTN: CEMVR-EC-TO (Plante) P.O. Box 1600 Rock Island, IL 61201	2	2	4	3
Commander, U.S. Army Engineer Division North Atlantic ATTN: CENAD-PD-IE (Koppel) 302 General Lee Avenue Brooklyn, New York 11252				1
Commander U. S. Army Corps of Engineers Environmental and Munitions Center of Expertise ATTN: CEHNC-EMS (Fisher) 1616 Capitol Avenue Omaha, NE 68102				1

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PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
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Appendix O

Report Plates



NOTE: PRIMARY SOURCE WAS
APPENDIX F-3.

- LEGEND**
- PROPERTY BOUNDARY
 - MAIN ROAD
 - SECONDARY ROAD
 - WATER FEATURE

5000 0 500 1000 FEET



WORK	DESCRIPTION	DATE	APPROV

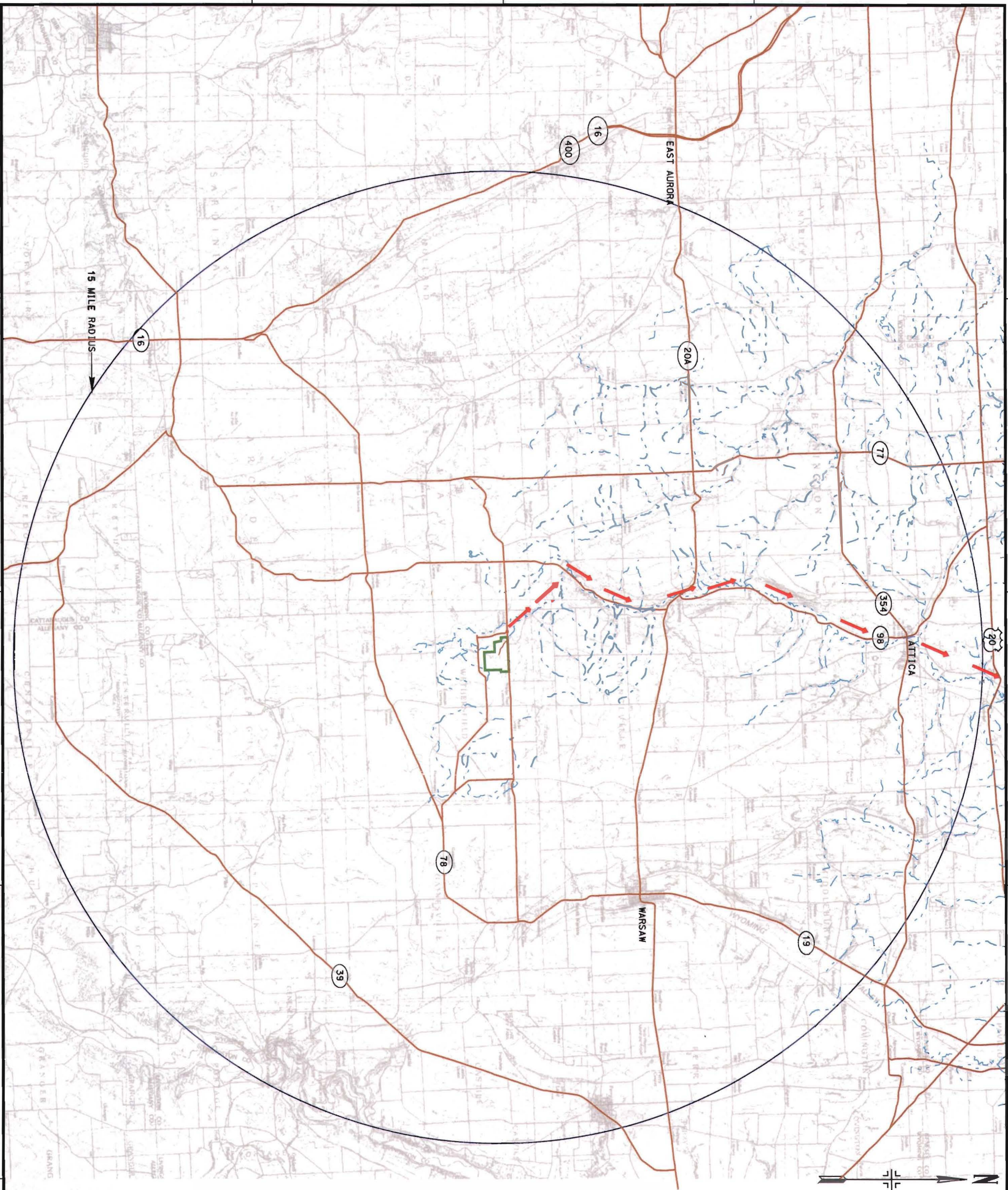
DESIGNED BY: ROW, PLANT	DATE:
DRAWN BY: JONES, N.H. GREZA	SUBSTATION NO.:
SUBMITTED BY: CHRISTOPHER CHURNEY	CONTRACT NO.:
PROJECT SCALE: 1"=100'	PROJECT CODE:
SIZE:	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

CAMP ORYAN/
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
CORN NY 132

**FACILITY LAYOUT
1954**

Sheet
ID
PLATE 2



NOTE: SEE PARA 8.2.1.1 FOR
SURFACE WATER PATHWAY.

- LEGEND**
- PROPERTY BOUNDARY
 - COUNTY BOUNDARY
 - US HIGHWAY
 - STATE HIGHWAY
 - MAIN ROAD
 - WATER FEATURE
 - DIRECTION OF FLOW

8000 0 8000 16000 FEET

Sheet ID PLATE 7	CAMP O'RYAN/ (WETHERFIELD TRAINING AREA) WETHERFIELD, NEW YORK CO2NY1132 SURFACE WATER MIGRATION ROUTE	U.S. ARMY CORPS OF ENGINEERS ROCK ISLAND DISTRICT ROCK ISLAND, ILLINOIS	DESIGNED BY: RON PLANTE	DATE:	MARK	DESCRIPTION	DATE	APPR.	
			DWN BY: J. JONES	CHKD BY: N. H. GREZA					SOLICITATION NO.:
			SUBMITTED BY: CHRISTOPHER CHURNEY						CONTRACT NO.:
			PLOT SCALE: PLOT DATE:						PROJECT CODE:
			SIZE:	FILE NAME:					

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PRELIMINARY ASSESSMENT
FOR
CAMP O’RYAN
(WETHERSFIELD TRAINING AREA)
WETHERSFIELD, NEW YORK
PROPERTY NUMBER C02NY1132

Appendix P

March 2011 Woods Hole Group Site Preliminary Investigation (CD only)

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