

Final
2015 Annual Land Use Control Monitoring Report,
RVAAP-01 Ramsdell Quarry Landfill
and
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



January 27, 2016

REPORT DOCUMENTATION PAGE				<i>Form Approved OMB No. 0704-0188</i>	
<small>The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</small>					
PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.					
1. REPORT DATE (DD-MM-YYYY)		2. REPORT TYPE		3. DATES COVERED (From - To)	
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (Include area code)



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

March 15, 2016

Mr. Mark Leeper, P.G., MBA
Army National Guard Directorate
Environmental Programs Division
ARNGD-ILE-CR
111 South George Mason Drive
Arlington, VA 22204

Re: US Army Ravenna Ammunition Plt RVAAP
Remediation Response
Project Records
Remedial Response
Portage County
267000859029

Subject: Approval of the "Final 2015 Annual Land Use Control Report at RVAAP-01 Ramsdell Quarry Landfill and RVAPP-05 Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant, Ravenna, Ohio," Dated January 27, 2016, Ohio EPA ID # 267-000859-029

Dear Mr. Leeper:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR), has received and reviewed the document entitled, "*Final 2015 Annual Land Use Control Report at RVAAP-01 Ramsdell Quarry Landfill and RVAPP-05 Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant, Ravenna, Ohio,*" dated January 27, 2016. This document, received by Ohio EPA's NEDO on January 28, 2016, was prepared for the U.S. Army Corps of Engineers (USACE) Louisville District, by Vista Sciences Corporation.

Ohio EPA has reviewed this documentation and has found no significant deficiencies. As a result, the "*Final 2015 Annual Land Use Control Report at RVAAP-01 Ramsdell Quarry Landfill and RVAPP-05 Winklepeck Burning Grounds*" is approved.

If you have any questions or concerns, please do not hesitate to contact me at (330) 963-1249.

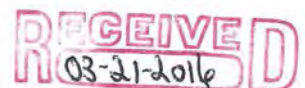
Sincerely,

Andrew C. Kocher
Site Coordinator
Division of Environmental Response and Revitalization

ACK/nvr

cc: Gregory F. Moore, USACE, Louisville District
Haney/Harris, Vista Sciences, Newton Falls
Katie Tait/Kevin Sedlak, Camp Ravenna

ec: Bob Princic, NEDO, DERR
Rod Beals, NEDO, DERR
Justin Burke, CO, DERR



Final
2015 Annual Land Use Control Monitoring Report,
RVAAP-01 Ramsdell Quarry Landfill
and
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



January 27, 2016

DOCUMENT DISTRIBUTION

For the
Final 2015 Annual Land Use Control Monitoring Report,
RVAAP-01 Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Name/Organization	Number of Printed Copies	Number of Electronic Copies
Mark Leeper, ARNG-ILE Clean Up	0	1
Kevin Sedlak, ARNG and Katie Tait, OHARNG	0	Email w/o attachments
Andrew Kocher, Ohio EPA Project Manager – NEDO-DERR	1	3
Justin Burke, Ohio EPA – CDO-DERR	0	Email w/o attachments
Quyet La, USACE - Louisville	0	1
Administrative Record – RVAAP Restoration Program	2	2

ARNG-ILE = Army National Guard Environmental Programs Division

OHARNG = Ohio Army National Guard

Ohio EPA-NEDO-DERR = Ohio Environmental Protection Agency-Northeast District Office –Division of Environmental Response and Revitalization

Ohio EPA-CDO-DERR = Ohio Environmental Protection Agency-Central District Office –Division of Environmental Response and Revitalization

USACE = United States Army Corps of Engineers

RVAAP = Ravenna Army Ammunition Plant

TABLE OF CONTENTS

SECTION 1.0 INTRODUCTION.....	1
1.1 Report Introduction.....	1
1.2 Facility Location	1
1.3 Facility History	2
1.4 Land Use Controls, Monitoring, And Reporting Requirements	3
1.5 Annual LUC Inspection and Monitoring Report Requirement.....	3
SECTION 2.0 ANNUAL LUC Monitoring REPORT FOR RAMSDELL QUARRY LANDFILL.5	5
2.1 Ramsdell Quarry Landfill	5
2.2 RQL Annual Inspection Form.....	6
SECTION 3.0 ANNUAL LUC Monitoring REPORT FOR WINKLEPECK BURNING GROUNDS 10	10
3.1 Winklepeck Burning Grounds	10
3.2 LUC Quarterly Inspection and Report Mechanisms for WBG.....	10
3.3 Land Use Control Awareness Training.....	12
3.4 Camp Ravenna Perimeter Fence	12
SECTION 4.0 CONCLUSION.....	14
4.1 General LUC Training	14
4.2 Land Use Consistency and Land Use Control Effectiveness at RQL.....	14
4.3 Land Use Consistency and Land Use Control Effectiveness at WBG.....	14
4.4 Land Use Control Deficiency Corrective Action at RQL and WBG.....	15
4.5 Land Use Control Effectiveness Certification	15
SECTION 5.0 REFERENCES.....	16

LIST OF APPENDICES

Appendix A	Weekly RQL Inspection Reports
Appendix B	RQL Soil Repair Memo
Appendix C	Quarterly RQL Inspection Reports
Appendix D	RQL Access Logs

LIST OF APPENDICES, continued

Appendix E	RQL Annual Inspection Photographs
Appendix F	FY 2015 Quarterly Land Use Control Index Maps
Appendix G	Final FY 2015 First Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds
Appendix H	Final FY 2015 Second Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds
Appendix I	Final FY 2015 Third Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds
Appendix J	Final FY 2015 Fourth Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds
Appendix K	FY 2015 Perimeter Fence Defect Call Outs Identified and Repaired

LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Asbestos Containing Material
AOC	Area of Concern
AR	Army Regulation
ARNG	Army National Guard
bgs	below ground surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
C.F.R.	Code of Federal Regulations
DFFOs	Director's Final Findings and Orders
FWSAP	Facility-Wide Sampling and Analysis Plan
FWGWMPP	Facility-Wide Groundwater Monitoring Program Plan
FY	Fiscal Year
GIS	Geographical Information System
IRP	Installation Restoration Program
LUC	Land Use Control
MK	Mark
MEC	Munitions and Explosives of Concern
MRS	Munitions Response Site
NCP	National Contingency Plan
NBC	Nuclear, Biological, Chemical
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PMP	Property Management Plan
RD	Remedial Design
RDX	Research Department Explosive
ROD	Record of Decision
RQL	Ramsdell Quarry Landfill
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
TNT	Trinitrotoluene
U.S.C.	United States Code
USP&FO	United States Property and Fiscal Officer
UXO	Unexploded Ordnance
WBG	Winklepeck Burning Grounds

SECTION 1.0 INTRODUCTION

1.1 Report Introduction

As of September 2015, two areas at the former Ravenna Army Ammunition Plant (RVAAP), now known as the Camp Ravenna Joint Military Training Center (Camp Ravenna) have designated Land Use Controls (LUCs); Ramsdell Quarry Landfill (RQL) and Winklepeck Burning Grounds (WBG). As explained in greater detail in Sections 1.4 and 1.5, annual reports are required for the areas at Camp Ravenna that utilize LUCs to protect the integrity of an environmental remedy (if present), human health, and the environment by limiting the activities that may occur at those areas.

The following sections present the 2015 Annual Report for Land Use Controls Inspections, RVAAP-01 Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds, Camp Ravenna Joint Military Training Facility, Former Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio. This annual report is laid out as follows:

Section 1.0 – General introduction to the facility, and a general description of Land Use Controls, monitoring and annual reporting requirements.

Section 2.0 – Annual Report for RQL.

Section 3.0 – Summary of FY2015 Quarterly LUC Inspection Reports for WBG.

Section 4.0 – Conclusions

Section 5.0 – References

1.2 Facility Location

Camp Ravenna is located in northeastern Ohio within Portage and Trumbull counties, and is approximately three miles east/northeast of the City of Ravenna and one mile north/northwest of the City of Newton Falls. The facility is approximately 11 miles long and 3.5 miles wide. The facility is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad to the south; Garret, McCormick, and Berry Roads to the west; the Norfolk Southern Railroad to the north; and State Route 534 to the east, as shown in Figure 1. In addition, the facility is surrounded by the communities of Windham, Garrettsville, Charlestown, and Wayland.

Figure 1.0 Map of Camp Ravenna Joint Military Training Center
(Former Ravenna Army Ammunition Plant)



1.3 Facility History

RVAAP was a load, assemble, and pack facility built to produce large-caliber artillery projectiles and bombs. Although RVAAP downsized after World War II, plant production lines were reactivated during the Korean and Vietnam Wars. Additionally, the plant conducted nearly continuous demilitarization of war stocks, refurbishment of inventoried ammunition, and minor research and development projects. By 1992, the installation's status changed from "inactive but maintained" to that of "caretaker."

The Department of Defense established the Installation Restoration Program (IRP) to provide guidance and funding for the investigation and cleanup of potential contamination and past operations caused by historical activities at military installations. The IRP began at RVAAP in 1989. Administrative accountability for the initial acreage of the facility was transferred to the United States Property and Fiscal Officer (USP&FO) for Ohio in May 1999 with subsequent transfers to follow. To date, administrative accountability for the entire 21,683-acre facility has been transferred to the USP&FO for Ohio and subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site, Camp Ravenna. The RVAAP restoration program involves cleanup of former production/operational areas throughout the facility related to former activities conducted under the RVAAP. The restoration program is currently managed by the Army National Guard (ARNG) with support from the OHARNG.

1.4 Land Use Controls, Monitoring, And Reporting Requirements

All work, plans, and documentation for the RVAAP IRP at Camp Ravenna must be in conformance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) [42 United States Code (U.S.C.) §9601, *et seq.*], the National Contingency Plan (NCP) [40 Code of Federal Regulations (C.F.R.) Part 300], and the Director's Final Findings and Orders (DFFOs) [June 10, 2004]. If residual contamination is left in place after the CERCLA remediation process is complete and the contamination still poses a potential for unacceptable risks or exceeds cleanup standards, then the Record of Decision (ROD) for the Areas of Concern/Munitions Response Sites (AOC/MRS) will require LUCs in accordance with the approved Remedial Design (RD).

LUCs include any physical, legal, or administrative mechanism that places restrictions on the use of, or limits access to, real property to prevent exposure to contaminants at concentrations greater than permissible levels or other safety issues. The intent of using these controls is to protect the integrity of the remedy (if present), human health, and the environment by limiting the activities that may occur at an AOC/MRS. When implemented, these LUCs provide protection to individuals using or working at the AOC/MRS by limiting and/or preventing activities which could potentially result in risks to those individuals. The Army is responsible for controlling land use on active installations such as Camp Ravenna and can internally restrict the use of such property. LUCs may include engineering controls such as fences, Seibert markers and signs, or administrative controls such as awareness training and restrictions on use including type of use and duration.

The Property Management Plan (PMP), dated August 2012, identifies LUCs and restrictions for specific AOCs/MRSs at Camp Ravenna and provides mechanisms to implement and manage those LUCs. The PMP is required under Army Regulation (AR) 210-20 and satisfies requirements of the DFFOs. The PMP lists general performance objectives of LUCs at Camp Ravenna as well as AOC/MRS specific LUCs detailed to address the concerns present on that particular AOC/MRS. According to Section 1.3 of the PMP, it is the responsibility of the Army to implement, inspect, maintain and enforce LUCs set forth under the RVAAP Restoration Program.

1.5 Annual LUC Inspection and Monitoring Report Requirement

The PMP requires that the Army conduct a minimum of an annual inspection of the LUCs to confirm that the LUCs remain effective and still meet the LUC objectives, and also requires that the results of the annual LUC inspection be included in an Annual LUC Monitoring Report to be submitted to the Ohio EPA for review and approval. The Annual LUC Monitoring Report is required to evaluate the status and effectiveness of LUCs with a description of how LUC deficiencies, including inconsistent land uses, were addressed. The Annual LUC Monitoring Reports will be used in the preparation of the CERCLA 121(c) Five-Year Review. This Annual LUC Monitoring Report presents the following:

- The FY 2015 Annual Report for the Ramsdell Quarry Landfill. The LUCs were instituted for RQL in December 2014. This is the first annual LUC report for RQL.

- A summary of the monitoring conducted during the Fiscal Year (FY) 2015 Quarterly LUC Inspection Reports for WBG. This is the third annual report completed in accordance with the Final PMP dated August 2012.

Additionally, the PMP requires that a written certification will be submitted with the Annual Monitoring Report that states whether or not the LUCs remain in place and are effective. The written certifications for both the RQL and WBL LUCs are presented in Section 4.4.

SECTION 2.0 ANNUAL LUC MONITORING REPORT FOR RAMSDELL QUARRY LANDFILL

2.1 Ramsdell Quarry Landfill

RQL encompasses approximately 14 acres in the northeastern portion of Camp Ravenna. RQL was initially a stone quarry that was excavated 30 to 40 feet below existing grade until ceasing quarrying operations in 1941. From 1946 to the 1950s, the bottom of the quarry was used to burn waste explosives from Load Line 1. Between 1941 and 1989, the western and southern sections of the abandoned quarry were used for landfill operations. No information is available regarding landfill disposal activities from 1941 to 1976, and no information is available on other activities at the quarry from the 1950s to 1976. Only nonhazardous solid waste was deposited in RQL from 1976 until it was closed in 1989. In 1978, a portion of the abandoned quarry was permitted as a sanitary landfill by the State of Ohio. The sanitary landfill closed in 1990 under State of Ohio solid waste regulations, and was covered by a clay cap covering approximately four acres.

Although post-closure requirements for RQL under State of Ohio solid waste regulations only require that a quarterly inspection be conducted, weekly inspections have been conducted at the site as a best management practice. The weekly inspections assess the condition of various aspects of the RQL, including (but not limited to) vehicular access, gate and fence condition, landfill and cap integrity, and groundwater monitoring well security. The weekly inspection sheets from December 1, 2014 through October 15, 2015 are presented in Appendix A.

A large amount of construction and miscellaneous debris was discovered during soil remediation and removal activities in the quarry bottom in June 2010. A portion of the debris was found to have asbestos-containing material (ACM) in them. After removing and disposing of the soil and construction debris (all considered as ACM), the area was backfilled and graded to the pre-excavation elevation.

RQL is managed as Restricted Access due to residual asbestos and contamination and the closed landfill. Permissible exposure parameters have been established for personnel accessing the RQL, and are defined as one hour/day for 250 days/year for 25 years. In order to enforce the Restricted Access status of the RQL, the following LUCs were established in December 2014:

- All digging or excavation within the quarry bottom is prohibited.
- Digging and excavation on the landfill cap will be regulated by the post-closure care plan and the Ohio solid waste regulations.
- Permanent warning signs will be installed and maintained around RQL on the gates and on the chain-link and high tensile wire fence at 300 ft. centers to warn of the ACM hazard in the quarry bottom. The signs will meet the requirements of OAC 3745-20-07(B)(1)(b).
- As no soil disturbing activities are allowed within the quarry bottom, OSHA asbestos training set forth at 29 CFR 1926.1101(k)(9)(vii) is not required. Any personnel entering the quarry bottom will be briefed of the asbestos hazards.

In order to track exposure, personnel entering the LUC area sign an access log sheet each time they enter and exit the LUC area.

2.2 RQL Annual Inspection Form

Camp Ravenna Joint Military Training Center (Camp Ravenna)/ Former Ravenna Army Ammunition Plant (RVAAP) Land Use Control (LUC) Inspection Form for RVAAP-01 Ramsdell Quarry Landfill AOC

In accordance with the Camp Ravenna/former RVAAP PMP (dated August 2012) and Appendix A-2 and the Final Remedial Design for Soil and Dry Sediment at RVAAP-01 Ramsdell Quarry Landfill (RQL), a LUC inspection of RQL was conducted by Allan Brillinger (Vista Sciences Corporation) on behalf of Camp Ravenna on October 15, 2015.

According to LUCs set forth in the *Final Remedial Design for Soil and Dry Sediment at the RVAAP-01 Ramsdell Quarry Landfill*, dated 9 April 2014, and memorialized in the PMP, periodic monitoring of LUCs, in the form of site inspections, is required to be conducted by the Army to confirm that the LUCs remain effective and still meet LUC objectives for continued remedy protectiveness. Site inspections are required to be conducted on an annual basis and inspections of the solid waste landfill are conducted in accordance with State of Ohio solid waste regulations and the Ohio Environmental Protection Agency (Ohio EPA) Director's Final Findings and Orders (Ohio EPA 2004). Additional LUC inspections may be conducted when landfill inspections are conducted as needed. The required Annual LUC Report is to be submitted to the Ohio EPA for review and approval.

The inspections shall include the following:

- Review of LUC training/inbriefs/maintenance and access logs and other documentation as applicable to RQL.
- Evaluation of activities at RQL to ensure that all activities executed within RQL are in compliance with the established digging restrictions and established exposure limits (Security Guard/Maintenance Worker - one (1) hour/day for 250 days/year for 25 years).
 - All digging or excavation within the quarry bottom is prohibited due to residual asbestos and contamination.
 - Digging and excavation on the landfill cap will be regulated by the post closure care plan and the Ohio solid waste regulations.
 - Due to not meeting the industrial/commercial standard, exposure monitoring for the full-time facility employee must be conducted to ensure and document that exposure at the AOC is not above the established exposure limit set for the Security Guard/Maintenance worker of one (1) hour/day for 250 days/year for 25 years.
- Inspection of warning signs on gates and fencing.
- Inspection of RQL fencing and gates.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the inspection form/report and must also be reported to the Army National Guard (ARNG)/Ohio Army National Guard (OHARNG).

Review of LUCs – Management/Corrective Action

Activities and Land Use:

- a) This AOC is to be managed as Restricted Access and is restricted from residential land use. Has residential use occurred? Have other land uses or land use changes occurred?*

No residential land use has occurred at the RQL. There have been no other land uses or land use changes over the past year.

- b) What activities have occurred at RQL since last Inspection? Has any maintenance been performed at the AOC?*

This is the first annual inspection of the RQL since the LUCs were instituted in December 201. The high tensile wire fence was repaired due to single strand breaks in December 2014 and January 2015. In mid-January, three eroded areas within the LUC enclosure (but off the landfill cap) were filled with clean soil, and were seeded April 2015 once the snow cover melted (Appendix B). Annual mowing was conducted for the RQL in early October. Additional minor eroded/settled areas inside the LUC enclosure (but off the landfill cap) were filled with clean soil and seeded in October 2015.

Weekly inspections were conducted in accordance with Ohio solid waste regulations. The weekly inspection forms are presented in Appendix A. Quarterly inspections were conducted by the Portage County Health Department. The quarterly inspection letters are presented in Appendix C.

Semi-annual groundwater monitoring activities were conducted at the RQL in March 2015 and July 2015.

- c) Are activities at RQL being conducted in compliance with established digging restrictions and established exposure limits (exposure for full-time employees who access RQL must be tracked)?*

The activities taking place at RQL are being conducted in accordance with the established digging restrictions. The exposure limits to personnel who must access the RQL LUC area are being tracked with Log In sheets that every person entering the LUC area must fill out when entering and exiting the LUC area. The completed Access Log sheets for December 2014 through October 15, 2015 are presented in Appendix D.

- d) Are the warning signs in place and functional? Please note condition and any deficiencies.*

The warning signs are posted on the RQL LUC fence and gate as required. Signs that read “DANGER – Unauthorized Personnel Keep Out” and “Danger – Asbestos Waste Disposal Site – Do Not Create Dust – Breathing Asbestos is Hazardous to Your Health” are posted on the LUC fence and gate at 300 ft. centers.

e) Is the RQL fencing and gates intact and in good condition? Please note condition and any deficiencies.

The RQL fencing and gate are intact and in good condition. There are no deficiencies with the fence and gates.

Inspections and Reporting

Inspections are required on an annual basis. Periodic monitoring inspections may be conducted as needed. Are annual inspections being conducted as required? Have any additional inspections been completed?

The annual LUC inspection was conducted on October 15, 2015. As per Ohio solid waste regulations, The RQL is inspected weekly. The weekly RQL inspection forms are presented in Appendix A. Additionally, the Portage County Health Department conducts a quarterly inspection of the RQL. The Portage County Health Department inspection letters are presented in Appendix D. Photographs of the RQL LUC area taken during the annual inspection are presented in Appendix E.

An Annual Report is required. Has the annual report been completed and submitted to the Ohio EPA?

The RQL LUCs were instituted in December 2014. This is the first annual inspection and report for the RQL LUCs.

Training/Inbriefs (as applicable to RQL):

Are RQL LUC training and/or inbriefs (for those who need to access RQL) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna, and was conducted on March 3rd and 5th, 2015. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific LUC and other restrictions for RQL, as well as other areas at Camp Ravenna. Training materials and rosters are on file in the Camp Ravenna Environmental Office. Training will be conducted for additional Camp Ravenna staff and contractors that missed the March training dates as needed.

A "Land Use Control (LUC) Brief for Contractors/Personnel" was conducted for all personnel that entered the RQL LUC area. The training consisted of a review of the RQL site history, the environmental hazards present at the RQL, the LUC s that have been instituted, and the requirements of all personnel that enter the LUC area. All personnel that have received the brief sign the briefing form that states that they have been briefed and understand the RQL

LUC requirements, and that they will comply with all requirements. The signed briefing forms are kept on file at the Camp Ravenna Environmental office.

If training was not provided, explain why and what corrective actions were initiated.

N/A

Is access to RQL for full-time employees of the facility being logged in order to track exposure? Please review access logs to ensure exposure is within the established exposure limits.

Access for all personnel entering the RQL LUC area are being tracked with the Access Log. The established exposure limits are one (1) hour/day for 250 days/year for 25 years. The most any one worker was working inside the RQL area from December 1, 2014 through October 15, 2015 was 41 hours for a Maintenance Worker. The Maintenance Worker that had the 41 hours within the LUC area spent 4.5 hours conducting soil repairs and 36.5 hours mowing.

LUC Violations (if any):

Description of any observed/noted LUC violation(s) as identified.

The top wire of the 5-wire fence was observed to be broken on December 19, 2014 and again on January 30, 2015.

Date of Notification of LUC violations (if applicable) to ARNG/OHARNG:

The above-noted fence wire breaks were reported to ARNG/OHARNG on December 19, 2014 and January 30, 2015.

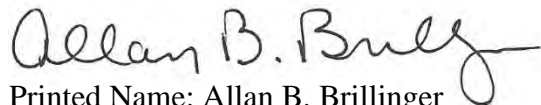
Description of any corrective actions taken to remedy observed LUC violations or recommended corrective actions:

The fence was repaired on December 30, 2014 and again on March 13, 2015.

Additional Notes/Comments:

Original Inspection Completed by:

Signature:



Printed Name: Allan B. Brillinger

Title: Program Manager

Organization: Vista Sciences Corporation

Date: October 15, 2015

SECTION 3.0 ANNUAL LUC MONITORING REPORT FOR WINKLEPECK BURNING GROUNDS

3.1 Winklepeck Burning Grounds

As described in the Property Management Plan (PMP), WBG encompasses 211.66 acres and is located in the central portion of Camp Ravenna (see Appendix F maps). The burning grounds area has been in operation since 1941. Prior to 1980, burning was conducted on the bare ground and the ash was abandoned at the site. Wastes treated in the area included Research Department Explosive (RDX), antimony sulfide, Composition B, lead azide, trinitrotoluene (TNT), propellants, black powder, waste oil, sludge from the load lines, domestic wastes, and small amounts of laboratory chemicals. From 1980 until 1998, periodic burning of scrap explosives, propellants, and explosive-contaminated waste materials (e.g., wipe rags, paper, and cardboard) was conducted in raised refractory-lined metal trays within a 1.5-acre area. A Part-B permit covering the active portion of the site was withdrawn in 1994. The burn trays along the 90-day storage unit of Building 1601 were closed in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance in 1998. Munitions and Explosives of Concern (MEC) is present in the Area of Concern (AOC). The previously applied remedy at the WBG AOC consisted of excavation of contaminated soil to preclude likely exposure through human contact. A portion of that remedy resulted in hazardous substances, pollutants, or contaminants remaining greater than levels that allow unlimited use and unrestricted exposure. Therefore, a component of the remedial action at the WBG AOC includes LUCs which are detailed in Section A-1.6 of the PMP.

Per the PMP, the land use for the WBG is *Small Arms Range* (including the existing Mark [MK] 19 Grenade Machinegun Range) for the OHARNG Military Use and Training. The Department of the Army has classified the Small Arms Range as an Operational Range at the WBG AOC. The Small Arms Range Land Use, in terms of the Risk Assessment, was created to assess specific training activities that would occur on a small arms range and was developed to assess risks to OHARNG personnel. In addition to the small arms training, certain activities are required to sustain and maintain the area as a range, such routine maintenance and activities are permitted if conducted by authorized personnel. More specific maintenance activities that are to be performed by the National Guard Range Maintenance Soldier and/or other similar authorized personnel on the WBG AOC can be found in the PMP.

3.2 LUC Quarterly Inspection and Report Mechanisms for WBG

The PMP states that site inspections will be conducted on a quarterly basis at WBG. The WBG Inspectors Quarterly Inspection Report Form completed for each quarter of FY 2015 states that all quarterly inspections include evaluation of the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the facility perimeter fence to ensure that it is maintained in a manner that is protective and effective and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with OHARNG range safety regulations/standard operating procedures (SOPs), established digging restrictions, and established exposure limits. All digging, intrusive

activities, or excavation on the WBG AOC outside of the Unexploded Ordnance (UXO)/MEC-cleared areas within the MK-19 Grenade Machinegun Range is prohibited with the following exceptions:

- Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
- Ground surface repairs by authorized range personnel in support of authorized range activities;
- Digging along target array areas by authorized range personnel to a depth of one (1) foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
 - The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific IRP or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
 - The abandonment and replacement of monitoring wells damaged by activities conducted on the Installation and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

Four quarterly LUC inspection were conducted during FY 2015. The LUC inspections generally consisted of the following:

- An inspection of the Camp Ravenna perimeter fence.
- A review of current land uses at WBG to determine if they are in compliance with the LUCs.
- A review of activities at WBG since the previous inspection to determine if they are in compliance with the LUCs.
- A review of required warning signage.
- A review of training applicable to WBG LUCs.
- A description of any noted LUC deficiencies, any corrective actions taken to remedy the LUC deficiencies, and/or any recommended corrective action.

The following WBG quarterly inspections were conducted in FY 2015 by Don Trocchio of Vista Sciences Corporation:

- FY 2015 First Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds (report dated April 3, 2015, inspection completed December 17, 2014). This report is included in Appendix G.

- FY 2015 Second Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds (report dated July 23, 2015, inspection completed March 31, 2015). This report is included in Appendix H.
- FY 2015 Third Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds (report dated October 30, 2015, inspection completed June 15, 2015). This report is included in Appendix I.
- FY 2015 Fourth Quarter Land Use Control Inspection, RVAAP-05 Winklepeck Burning Grounds (report dated December 18, 2015, inspection completed August 13, 2015). This report is included in Appendix J.

3.3 Land Use Control Awareness Training

Section 4.2 of the PMP, *Land Use Control Awareness Training*, describes requirements and guidelines for LUC awareness training at the facility. LUC awareness training for Camp Ravenna staff and tenant units was conducted on March 3rd and 5th, and is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. Formal LUC training has been conducted since 2006 and refresher training is given annually to all personnel. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and included specific restrictions for WBG. Annual training is conducted throughout the year as needed for additional Camp Ravenna staff and contractors that missed the March training dates.

Using units also receive an in-brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access WBG are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training records are kept on file in the Camp Ravenna Environmental Office.

3.4 Camp Ravenna Perimeter Fence

Currently, the only facility-wide engineering control for the AOCs/MRSs is the perimeter fence, as listed in Section 4.1.1 of the PMP. The Camp Ravenna perimeter fence is situated mostly in Portage County, Ohio, with a small portion (see maps in Appendix F – FY 2015 Quarterly Land Use Control Index Maps) extending easterly into western Trumbull County, Ohio. The entire perimeter fence was inspected for each of the FY 2015 quarterly inspections.

The majority of the original Camp Ravenna perimeter fence is approximately seventy years old. Most, but not all, of the perimeter fence situated within Trumbull County is less than approximately ten years old. Typically, but not all, of the perimeter fence consists of a six foot high chain link fence fabric with steel I-beam shaped posts set on 10 to 12 foot centers set in concrete footers. The top and bottom of the fence fabric is reinforced with a horizontal pipe running along the entire length. On top of each post is a V bracket with six strands of 15-gauge barb wire, three strands inward facing and three strands outward facing. Twenty-six access gates are scattered throughout the approximate 30 miles of perimeter fencing evaluated (see maps in

Appendix F – FY 2015 Quarterly Land Use Control Index Maps). Most of the former railroad access gates have been welded shut along with a few vehicle access gates that are no longer used.

In addition to documenting compliance with training, operation, and maintenance requirement set forth in the PMP, quarterly inspections also identify, document, and map major defects along the perimeter fence for future repair. In the inspector's judgment, a major defect was considered a breach in the fence through which an adult could gain unlawful access to the facility. Additionally, during the evaluation, major defects noted in previous inspections were visited and repairs logged if completed or ongoing. Geographical Information System (GIS) raw field data collected from the inspections were reduced and compiled in ESRI Arc Map. Index Maps depicting the call outs along with Detail Maps and photographs of each call out were prepared and submitted along with the WBG Inspectors Quarterly Inspection Report Form. Final approved versions of each FY 2015 Quarterly LUC Inspection Report are included in Appendices G, H, I and J of this report.

The four quarterly inspections performed in FY 2015 reported a total of 20 documented major defects in the perimeter fence. A total of 13 documented defects from the FY 2014 quarterly inspections had not yet been repaired at end of the FY 2014 reporting period. Of this total, 29 repairs were performed and documented in the subsequent (FY 2015) quarterly inspection reports. See Appendix K for a table of all perimeter fence defect call outs identified and repaired in FY 2015. When a major defect is noted during the LUC field inspection the Army is notified via email detailing the date and location. The date of notification is included in the quarterly LUC inspection report under "Section 6. Date of notification of LUC violation (if applicable)."

The Camp Ravenna maintenance crews are limited to making only minor fence repairs. Repair logs make reference to "contractor needed" on some call out sections where more extensive repairs are required. An example would be storm washouts (i.e., SE2A) along the perimeter road that continue to damage the perimeter fence. Culvert pipe inlets and outlets become clogged with debris, old corrugated metal culvert pipes have rusted and collapsed and some pipe sizes are unable to handle the storm runoff, all contributing to the washouts along the perimeter road.

It should be noted that only repairs of defects called out and included in previous LUC Inspection Reports are conveyed in the detail sheets of the subsequent LUC Inspection Reports. These repairs are documented in repair logs kept by the Camp Ravenna Maintenance Crews and are included with the quarterly reports in Attachment 2 – Camp Ravenna Fence Repair Log (Appendices G, H, I and J of this report). Numerous minor repairs (consisting of patching smaller openings in the fence fabric, replacing missing/broken barb wire, repairing frost heaved posts, removing fallen trees and branches resting on top of the fence) that were not sited during the LUC field inspection, were, and continue to be, repaired by the Camp Ravenna staff/maintenance crew and are not documented in repair logs. Overall, the perimeter fence at Camp Ravenna is intact and in good condition, and is an effective LUC for the WBG.

SECTION 4.0 CONCLUSION

4.1 General LUC Training

The OHARNG provided training to all Camp Ravenna staff and tenant units including an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/MRSs, and specific restrictions for RQL and WBG (See Section 2.2 and 3.3). All training requirements presented in the PMP were met by the OHARNG in FY 2015. Training compliance is demonstrated in the RQL Inspection Form (Section 2.2) and in the FY 2015 Quarterly LUC Inspection Reports for WBG that are included in Appendices G, H, I and J of this report. Training materials and rosters are on file in the Camp Ravenna Environmental Office.

4.2 Land Use Consistency and Land Use Control Effectiveness at RQL

The land use at RQL is Restricted Access due to residual asbestos, contamination and the closed landfill. Based on the completed weekly, quarterly and annual inspections at RQL, there are no inconsistent uses or activities discovered or reported at RQL during the time when the LUCs were instituted in December 2014 through when the annual inspection was conducted on October 15, 2015. All activities conducted within the RQL LUC area were performed in compliance with established digging restrictions, and established exposure limits as described in the PMP. This indicates current LUC objectives are being met to ensure the remedy is effective and protective.

An in-brief was provided to all personnel entering the RQL LUC area that included an overview of the history of the RQL, the land use controls/restrictions, and specific restrictions for RQL. All training and maintenance requirements specific to the RQL LUC were met by the OHARNG during this reporting period and is documented in the pages of this report.

4.3 Land Use Consistency and Land Use Control Effectiveness at WBG

Per the PMP, the land use for the WBG is Small Arms Range (including the existing MK-19 Grenade Machinegun Range) for the OHARNG Military Use and Training. Based on the completed inspections during FY 2015, there were no inconsistent uses or activities discovered or reported at WBG. All training and activities conducted within the WBG AOC were performed in compliance with OHARNG range safety regulations/SOP, established digging restrictions, and established exposure limits as described in the PMP. This indicates current LUC objectives are being met to ensure the remedy is effective and protective of human health and the environment.

The LUCs for the WBG AOC were evaluated quarterly in FY 2015 as stated in the PMP using the parameters listed in Section 3.1 LUC Quarterly Inspection and Reporting Mechanisms for WBG. These Quarterly LUC Inspections show all LUCs requirements presented in the PMP for WBG remained in place and were effective through FY 2015.

Units that utilize the range at WBG also receive an in brief prior to firing on the range and are not allowed down range. Environmental contractors who access WBG are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. All training, operation, and maintenance requirements specific to WBG presented in the PMP were met by the OHARNG in

FY 2015 and is documented in the FY 2015 Quarterly LUC Inspection Reports included in Appendix G, H, I and J of this report.

4.4 Land Use Control Deficiency Corrective Action at RQL and WBG

The main purpose of inspecting and monitoring LUCs is to identify and correct LUC deficiencies and violations. LUC inspection reports allow the OHARNG to document consistent land use, as well as corrective action if deficiencies are encountered.

For the RQL, inspections were conducted by personnel familiar with the RQL so that changes (if present) were readily noted. Minor fence repairs and soil cover deficiencies were noted and corrected as weather conditions allowed. There repairs were tracked throughout the year to monitor their effectiveness.

For the WBG, each quarterly inspection has been conducted using the same parameters, resulting in a uniform and concise system of identification and repair of perimeter fence defect call outs. Of the total number of perimeter fence defect call-outs identified, approximately 80% were repaired by the next quarterly inspection.

4.5 Land Use Control Effectiveness Certification

This certifies that to the best of my knowledge and belief all of the information contained in this Annual LUC Monitoring Report is accurate, and that the Land Use Controls instituted for the Ramsdell Quarry Landfill and the Winklepeck Burning Grounds are in place and remain effective.

Allan B. Brillinger / Jan. 27, 2016
(signature) (date)

Allan B. Brillinger
(printed name)

Program Manager, Vista Sciences Corporation
(Title).

SECTION 5.0 REFERENCES

Final Property Management Plan for the Designated Areas of Concern and Munitions Response Sites, Volume One – Version 1.0. U.S. Army Corps of Engineers. August 2012.

Ravenna Army Ammunition Plant Restoration Program website: www.rvaap.org

Final Remedial Action Report for Soil and Dry Sediment at RVAAP-01 Ramsdell Quarry Landfill, Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio. US Army Corps of Engineers. January 30, 2015

Appendix A

Weekly RQL Inspection Reports

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>October 23, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny 50°, no recent rain</u>		
Time: Started <u>10:40</u> (<u>am</u> /pm) Completed <u>11:00</u> (<u>am</u> /pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>both gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>October 15, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny, 62°, rain yesterday pm.</u>		
Time: Started <u>1:45</u> (am/pm) Completed <u>2:30</u> (am/pm)		
Type of inspection: <u>Windshield</u> <u>Site Walk</u> Other _____		

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>recently mowed *</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>good</u>	<u>minor repairs (off cap) **</u>
f. Runoff, Siltation	<u>good</u>	
g. Leachate	<u>good</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	

5. Comments:

* LUC and area outside of LUC fence recently mowed

** minor soil repairs/seeding of areas off cap.

6. Description of Repairs/Remedial Action needed:

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>October 9, 2015</u>		
Inspected by: <u>Rebecca Haney</u>		
Weather Conditions / Recent Precipitation: <u>65°, cloudy/overcast. Moderate rain ending at ~11:00 am</u>		
Time: Started <u>11:37</u> (am/pm) Completed <u>11:50</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
<u>Drove rim of Fence</u>		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>Good</u>	
2. Entrance		
a. Gate/Chain	<u>Good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>Good</u>	<u>*Mowed</u>
b. Standing Water on Cap	<u>None</u>	
c. Animal Disturbances	<u>None</u>	
d. Woody Vegetation	<u>None</u>	
e. Gully Erosion/Soil Cover	<u>Good</u>	<u>*Minor areas to be Filled</u>
f. Runoff, Siltation	<u>None</u>	
g. Leachate	<u>None</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>Yes</u>	
b. Condition of Casing	<u>Good</u>	
c. Well ID Legible	<u>Yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
<u>* Minor eroded/settled areas off the cap to be repaired when weather permits.</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>October 2, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>78°, cloudy; no rain prev. 24 hrs</u>		
Time: Started <u>10:00</u> (am/pm) Completed <u>10:30</u> (am/pm)		
Type of inspection: <u>Windshield</u> <u>Site Walk</u> Other _____		
<i>Site walk NW corner only</i>		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>* w. gate open for mowing</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>- currently being mowed</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>good</u>	<u>minor areas to be filled after mowing</u>
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
<u>currently being mowed</u>		
6. Description of Repairs/Remedial Action needed:		
<u>minor eroded/settled areas off the cap to be repaired</u>		
<u>after mowing</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: 25 September 2015		
Inspected by: Rebecca Haney		
Weather Conditions / Recent Precipitation: 77°, Partly Cloudy, Calm		
Time: Started 3:00 (am/pm) Completed 3:22 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Drove Around Outside		
Inspected	Status/Condition	Comments
1. Vehicular Access	Good	
2. Entrance		
a. Gate/Chain	Good	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	Good	up to 6' high *
b. Standing Water on Cap	Good None	
c. Animal Disturbances	Good None	
d. Woody Vegetation	Good None	
e. Gully Erosion/Soil Cover	None	Minor areas of cap previously noted
f. Runoff, Siltation	None	
g. Leachate	None	
4. Monitoring Wells (5)		
a. Locks in place?	Yes	
b. Condition of Casing	Good	
c. Well ID Legible	Yes	
5. Comments:		
* Veg. Mowing Scheduled for early October.		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDALL QUARRY LANDFILL

Date: <u>September 18, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny 70° no recent rain</u>		
Time: Started <u>9:45</u> (am/pm) Completed <u>10:05</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
<u>drove around outside</u>		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg up to 6' high*</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	<u>++</u>
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
<u>* mowing scheduled for late Sept/early Oct.</u>		
6. Description of Repairs/Remedial Action needed:		
<u>++ minor repairs needed at for areas off the cap.</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: 9-11-15		
Inspected by: Al Brillinger 73°		
Weather Conditions / Recent Precipitation: Sunny 73° No recent rain		
Time: Started 11:05 (am/pm) Completed 11:30 (am/pm)		
Type of inspection: Windshield <u>Site Walk</u> Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	Good	
2. Entrance		
a. Gate/Chain	Good	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	Good	veg. up to 6' high (2)
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	good	* OFF-CAP EROSION (1)
f. Runoff, Siltation		
g. Leachate		
4. Monitoring Wells (5)		
a. Locks in place?		
b. Condition of Casing		
c. Well ID Legible		

5. Comments:

(1) Off-cap erosion noted, also reported to VSC by Brad Kline (OHARNG). Previously repaired small "channel" showing signs of settlement and/or untimewd erosion. Small "potholes" noted

6. Description of Repairs/Remedial Action needed:

(1) Soil to be filled upon or just prior to completion of or just prior to mowing.

(2) Mowing scheduled for late Sept./early Oct.

WEEKLY INSPECTION OF RAMSDALL QUARRY LANDFILL

Date: <u>September 3, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny, 88°, no recent rain</u>		
Time: Started <u>1:00</u> (am/pm) Completed <u>1:20</u> (am/pm)		
Type of inspection: <u>Windshield</u> <u>Site Walk</u> <u>Other</u>		
<u>(drove around outside of LVC fence)</u>		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to 6' high ①</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
<u>① mowing scheduled for late Sept. - early Oct.</u>		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: 8-28-2015		
Inspected by: Becky Haney		
Weather Conditions / Recent Precipitation: Sunny, 71°		
Time: Started 11:38 (am/pm) Completed 11:54 (am/pm)		
Type of inspection: Windshield Site Walk Other		
Drove around Outside Perimeter of LUC Fence		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	Gates Closed and Locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	veg. up to 6' high
b. Standing Water on Cap	None	
c. Animal Disturbances	None	
d. Woody Vegetation	None	
e. Gully Erosion/Soil Cover	None	
f. Runoff, Siltation	None	
g. Leachate	None	
4. Monitoring Wells (5)		
a. Locks in place?	Yes	
b. Condition of Casing	good	
c. Well ID Legible	Yes	
5. Comments: N/A		
6. Description of Repairs/Remedial Action needed:		
N/A		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>August 21, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny 60°, light rain prev. 24 hrs.</u>		
Time: Started <u>8:35</u> (<u>am/pm</u>) Completed <u>8:50</u> (<u>am/pm</u>)		
Type of inspection: <u>Windshield</u> Site Walk Other		
<u>drove around outside of LUC fence</u>		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>both gates closed & locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to 6' high</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: August 14, 2014		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: Mostly sunny, 81°, no rain prev. 24 hrs.		
Time: Started 12:05 (am/pm) Completed 12:25 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
(drove around site outside of LUC fence)		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	both gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	veg. up to 5' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	good	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>August 7, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Partly cloudy, 73°, no recent rain</u>		
Time: Started <u>12:00</u> (am/pm) Completed <u>12:20</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>both gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to ~ 5' high</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>July 31, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Sunny, 84°, no rain prev. 24 hrs.</u>		
Time: Started <u>12:20</u> (<u>am/pm</u>) Completed <u>12:40</u> (<u>am/pm</u>)		
Type of inspection: <u>Windshield</u> Site Walk Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>East gate latch adjusted so that pad lock fits in latch to lock it.</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to 5' high</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: July 24, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: partly sunny 84°, no recent precip		
Time: Started 2:00 (am/pm) Completed 2:20 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	east gate needs chain for lock, west gate ok	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	veg. up to 5' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
East gate needs chain for lock; lock doesn't fit in latch		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>July 17, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>cloudy, light rain 72°</u>		
Time: Started <u>10:00</u> (am/pm) Completed <u>10:20</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to ~ 4' high</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments: <u>LUC fence intact, where visible</u>		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>July 10, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>cloudy, 66°F, recent rain</u>		
Time: Started <u>10:10</u> (am/pm) Completed <u>10:25</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	<u>gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>veg. up to 4' high</u>
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments: <u>fence intact</u>		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: July 2, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 66°, cloudy no rain prev. 24 hrs		
Time: Started 10:15 (am/pm) Completed 10:45 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	grass up to 4' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: June 26, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: Sunny 77°F, rain earlier in week		
Time: Started 12:55 (am/pm) Completed 13:10 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	veg. cover up to 4' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments: fence in good condition as observed from Ramsdell Rd.		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: June 19, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 70°, cloudy, recent rain		
Time: Started 11:10 (am/pm) Completed 11:25 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	both gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	veg 73' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: June 12, 2015		
Inspected by: A1 Brillinger		
Weather Conditions / Recent Precipitation: Partly cloudy 82°, light rain prev. 24 hrs.		
Time: Started 11:00 (am/pm) Completed 11:45 (am/pm)		
Type of inspection: Windshield <u>Site Walk</u> Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	gates locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	Veg 1'-4' high
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: June 5, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: Sunny 73°, no measurable rain since 4/5/31.		
Time: Started 11:00 (am/pm) Completed 11:20 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	both gates locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	grass > 2' high
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	good	
e. Gully Erosion/Soil Cover	none observed	
f. Runoff, Siltation	none observed	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: May 28, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: Sunny 72°, heavy rain previous night		
Time: Started 2:05 (am/pm) Completed 2:20 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	both gates locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	grass > 1' high
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none observed	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDALL QUARRY LANDFILL

Date: <u>May 21, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>60° cloudy</u>		
Time: Started <u>16:00</u> (am/pm) Completed <u>16:15</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>locked</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>none</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>none</u>	
e. Gully Erosion/Soil Cover	<u>none</u>	
f. Runoff, Siltation	<u>none</u>	
g. Leachate	<u>none</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: May 15 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 64° light rain		
Time: Started 10:30 (am/pm) Completed 11:20 (am/pm)		
Type of inspection: Windshield <u>Site Walk</u> Other		
* also conducted Annual LUC inspection		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: May 8, 2015

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 78°, sunny: no recent precip.

Time: Started 10:30 (am/pm) Completed 10:50 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none	
f. Runoff, Siltation	none	
g. Leachate	none	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments:

6. Description of Repairs/Remedial Action needed:

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: May 1, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 62°, sunny, v. light rain w/in 2 days		
Time: Started 11:25 (am/pm) Completed 12:05 (am/pm)		
Type of inspection: Windshield <u>Site Walk</u> Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	repaired areas have been seeded
b. Standing Water on Cap	none noted	
c. Animal Disturbances	none noted	
d. Woody Vegetation	good	
e. Gully Erosion/Soil Cover	good	slight depressions (2) NW part of LUC area
f. Runoff, Siltation	none noted	
g. Leachate	none noted	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
2 small (each less than 1' x 1' x 1') depressions noted in NW part of site (off-cap). Areas staked, flagged and will be observed.		
6. Description of Repairs/Remedial Action needed:		
none		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: April 23, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: light snow / rain, cloudy, 37°		
Time: Started 10:35 (am/pm) Completed 10:50 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	gates locked : in good shape
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	*
b. Standing Water on Cap	none	
c. Animal Disturbances	none	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	good	
f. Runoff, Siltation	good	
g. Leachate	good	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
* areas repaired in Jan. 2015 to be seeded.		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: April 17, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 58°F, cloudy, rain during prev. 24 hrs.		
Time:	Started 11:50 (am/pm)	Completed (am/pm)
Type of inspection:	Windshield	Site Walk Other partial site walk outside fence

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	locked, good	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	good	
e. Gully Erosion/Soil Cover	good	
f. Runoff, Siltation	good	
g. Leachate	good	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
* seeding to be applied to areas repaired in Jan. 2015		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: April 10, 2015

Inspected by:

Weather Conditions / Recent Precipitation: 57°, Rain (heavy at times) previous 2 days

Time: Started 11:10 (am/pm) Completed 11:35 (am/pm)

Type of inspection: Windshield Site Walk (partial) Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	gates locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none noted	
c. Animal Disturbances	none	
d. Woody Vegetation	good	
e. Gully Erosion/Soil Cover	good	minor settling in repaired area *
f. Runoff, Siltation	good	
g. Leachate	none noted	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments:

* trough-shaped area repaired in Jan 2015 showing continued settlement

6. Description of Repairs/Remedial Action needed:

* areas repaired w/ soil in Jan 2015 need seeding.

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: April 2, 2015

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 60°, partly sunny

Time: Started 10:55 (am/pm) Completed 11:30 (am/pm)

Type of inspection: Windshield Site Walk Other outside perimeter fence

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance	<u>good</u>	
a. Gate/Chain	<u>both gates locked</u>	
3. Landfill Site/Cap Integrity	<u>good</u>	
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>good</u>	
c. Animal Disturbances	<u>good</u>	
d. Woody Vegetation	<u>good</u>	
e. Gully Erosion/Soil Cover	<u>good</u>	
f. Runoff, Siltation	<u>good</u>	
g. Leachate	<u>good</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	

5. Comments:

6. Description of Repairs/Remedial Action needed:

3 repaired areas need to be seeded.

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>March 27, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>29° light snow</u>		
Time: Started <u>11:20</u> (am/pm) Completed <u>11:40</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance	<u>good</u>	
a. Gate/Chain	<u>both gates locked</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>good</u>	
c. Animal Disturbances	<u>good</u>	
d. Woody Vegetation	<u>good</u>	
e. Gully Erosion/Soil Cover	<u>good</u>	
f. Runoff, Siltation	<u>good</u>	
g. Leachate	<u>good</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
<u>3 Areas repaired in January 2015 need seeding</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>March 20, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Cloudy, light mist, 37°</u>		
Time: Started <u>11:10</u> (<u>am</u> /pm) Completed <u>11:30</u> (<u>am</u> /pm)		
Type of inspection: <u>Windshield</u> Site Walk Other _____		

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>none observed</u>	
c. Animal Disturbances	<u>none observed</u>	
d. Woody Vegetation	<u>none observed</u>	
e. Gully Erosion/Soil Cover	<u>none observed</u>	<u>* repaired areas need seeding</u>
f. Runoff, Siltation	<u>none observed</u>	
g. Leachate	<u>none observed</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments: <u>Landfill now free of snow cover.</u>		
<u>* Jack Madved / Portage Co conducted quarterly inspection on 3/16</u>		
<u>(AB: BK accompanied him) - no violations noted</u>		
6. Description of Repairs/Remedial Action needed:		
<u>* The areas that were repaired in January 2015 need to be seeded</u>		
<u>** The top wire of the eastern fence has been repaired</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>March 13, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>Cloudy, 50°</u>		
Time: Started <u>12:15</u> (am/pm) Completed <u>12:35</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other _____		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>Good</u>	
2. Entrance		
a. Gate/Chain	<u>Good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>not visible</u>	<u>mostly (>90%) snow covered</u>
b. Standing Water on Cap	<u>not visible</u>	
c. Animal Disturbances	<u>not visible</u>	
d. Woody Vegetation	<u>not visible</u>	
e. Gully Erosion/Soil Cover	<u>not visible</u>	
f. Runoff, Siltation	<u>not visible</u>	
g. Leachate	<u>not visible</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>good/yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments:		
6. Description of Repairs/Remedial Action needed:		
<u>* Eastern 5-wire fence, top wire broken</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: March 6, 2015

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 19°F, >1' snow cover

Time: Started 12:00 (am/pm) Completed 12:20 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	fair	road is plowed, gates are not plowed
2. Entrance		
a. Gate/Chain	locked	gate snowed in
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	not visible	landfill is snow-covered & frozen
b. Standing Water on Cap	not visible	" " " "
c. Animal Disturbances	not visible	" " " "
d. Woody Vegetation	not visible	" " " "
e. Gully Erosion/Soil Cover	not visible	" " " "
f. Runoff, Siltation	not visible	" " " "
g. Leachate	not visible	" " " "
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments:

6. Description of Repairs/Remedial Action needed:

Eastern fence top wire of 3-wire high tensile
fence broken in 1 location

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: Friday, Feb. 27, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 6°, recent snowfall, (snow cover 7')		
Time: Started 10:40 (am/pm) Completed 11:00 (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	fair	Ramsdell Rd not plowed; 4-wheel drive only
2. Entrance		
a. Gate/Chain	good	
3. Landfill Site/Cap Integrity		landfill covered w/ snow (>1')
a. Vegetative Cover	none observed	& frozen
b. Standing Water on Cap	none observed	"
c. Animal Disturbances	none observed	"
d. Woody Vegetation	none visible	"
e. Gully Erosion/Soil Cover	none visible	"
f. Runoff, Siltation	none visible	"
g. Leachate	none visible	"
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments: landfill is snow-covered and frozen. Snow cover is greater than 1' thick.		
6. Description of Repairs/Remedial Action needed:		
Top wire of eastern 5-wire fence broken in 1 spot (previously noted)		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>Friday February 20, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>0° F, previously -24 earlier today, snow-covered</u>		
Time: Started <u>11:25</u> (<u>am</u> /pm) Completed <u>11:45</u> (<u>am</u> /pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>poor</u>	<u>Ramsdell Rd. not plowed</u>
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>not visible</u>	<u>landfill is snow-covered 71' depth</u>
b. Standing Water on Cap	<u>"</u>	
c. Animal Disturbances	<u>"</u>	
d. Woody Vegetation	<u>"</u>	
e. Gully Erosion/Soil Cover	<u>"</u>	
f. Runoff, Siltation	<u>"</u>	
g. Leachate	<u>"</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	
5. Comments: <u>landfill is frozen & snow-covered</u>		
<u> snow cover > 1'</u>		
6. Description of Repairs/Remedial Action needed:		
<u> top wire of eastern 5-wire fence is still broken</u>		
<u> in 1 location.</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date:	February 13, 2015																																																	
Inspected by:	Al Brillinger																																																	
Weather Conditions / Recent Precipitation:	10°, site is snow-covered & frozen																																																	
Time:	Started 12:35 (am/pm)	Completed 12:50 (am/pm)																																																
Type of inspection:	Windshield	Site Walk Other																																																
<table border="1"> <thead> <tr> <th>Inspected</th> <th>Status/Condition</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1. Vehicular Access</td> <td>fair</td> <td>Ramsdell Rd. is plowed, gate access is not</td> </tr> <tr> <td>2. Entrance</td> <td></td> <td></td> </tr> <tr> <td> a. Gate/Chain</td> <td>good</td> <td></td> </tr> <tr> <td>3. Landfill Site/Cap Integrity</td> <td></td> <td></td> </tr> <tr> <td> a. Vegetative Cover</td> <td>not visible</td> <td>site is snow-covered</td> </tr> <tr> <td> b. Standing Water on Cap</td> <td>not visible</td> <td>" "</td> </tr> <tr> <td> c. Animal Disturbances</td> <td>not visible</td> <td>" "</td> </tr> <tr> <td> d. Woody Vegetation</td> <td>good</td> <td></td> </tr> <tr> <td> e. Gully Erosion/Soil Cover</td> <td>not visible</td> <td>site is snow-covered</td> </tr> <tr> <td> f. Runoff, Siltation</td> <td>not visible</td> <td>" " "</td> </tr> <tr> <td> g. Leachate</td> <td>not visible</td> <td>" " "</td> </tr> <tr> <td>4. Monitoring Wells (5)</td> <td></td> <td></td> </tr> <tr> <td> a. Locks in place?</td> <td>yes</td> <td></td> </tr> <tr> <td> b. Condition of Casing</td> <td>good</td> <td></td> </tr> <tr> <td> c. Well ID Legible</td> <td>yes</td> <td></td> </tr> </tbody> </table>			Inspected	Status/Condition	Comments	1. Vehicular Access	fair	Ramsdell Rd. is plowed, gate access is not	2. Entrance			a. Gate/Chain	good		3. Landfill Site/Cap Integrity			a. Vegetative Cover	not visible	site is snow-covered	b. Standing Water on Cap	not visible	" "	c. Animal Disturbances	not visible	" "	d. Woody Vegetation	good		e. Gully Erosion/Soil Cover	not visible	site is snow-covered	f. Runoff, Siltation	not visible	" " "	g. Leachate	not visible	" " "	4. Monitoring Wells (5)			a. Locks in place?	yes		b. Condition of Casing	good		c. Well ID Legible	yes	
Inspected	Status/Condition	Comments																																																
1. Vehicular Access	fair	Ramsdell Rd. is plowed, gate access is not																																																
2. Entrance																																																		
a. Gate/Chain	good																																																	
3. Landfill Site/Cap Integrity																																																		
a. Vegetative Cover	not visible	site is snow-covered																																																
b. Standing Water on Cap	not visible	" "																																																
c. Animal Disturbances	not visible	" "																																																
d. Woody Vegetation	good																																																	
e. Gully Erosion/Soil Cover	not visible	site is snow-covered																																																
f. Runoff, Siltation	not visible	" " "																																																
g. Leachate	not visible	" " "																																																
4. Monitoring Wells (5)																																																		
a. Locks in place?	yes																																																	
b. Condition of Casing	good																																																	
c. Well ID Legible	yes																																																	
5. Comments:																																																		
6. Description of Repairs/Remedial Action needed:																																																		
<ul style="list-style-type: none"> top wire of eastern 5-wire fence still broken (1 spot) 																																																		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: Feb. 5, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: 10° recent snowfall		
Time: Started 11:00 (am/pm) Completed 11:35 (am/pm)		
Type of inspection: Windshield Site Walk Other * See note		
Inspected	Status/Condition	Comments
1. Vehicular Access		Ramsdell Rd. not plowed-
2. Entrance		difficult / impassable to
a. Gate/Chain	locked-good	vehicles
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	snow covered & frozen	
b. Standing Water on Cap	"	"
c. Animal Disturbances	"	"
d. Woody Vegetation	"	"
e. Gully Erosion/Soil Cover	"	"
f. Runoff, Siltation	"	"
g. Leachate	"	"
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	
5. Comments:		
<ul style="list-style-type: none"> Ramsdell Rd not plowed. >12" snow on road; walked Ramsdell Rd from west gate to east gate, surveyed fence & landfill w/ binoculars 		
6. Description of Repairs/Remedial Action needed:		
<ul style="list-style-type: none"> none 		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: January 30, 2015

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 17°, light snow (~2-3 snow in last 24 hrs)

Time: Started 12:40 (am/pm) Completed 13:00 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	gate locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	none visible	
b. Standing Water on Cap	none visible	
c. Animal Disturbances	none visible	
d. Woody Vegetation	none	
e. Gully Erosion/Soil Cover	none visible	
f. Runoff, Siltation	none visible	
g. Leachate	none visible	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments: RQL is snow covered and frozen.

• Broken top wire of eastern LLC boundary fence

6. Description of Repairs/Remedial Action needed:

none except fence wire break

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: January 23, 2015

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 25°, cloudy, ~3" snow on 1/21

Time: Started 10:50 (am/pm) Completed 11:15 (am/pm)

Type of inspection: Windshield Site Walk Other _____

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity	<u>snow covered</u>	
a. Vegetative Cover	<u>"</u>	
b. Standing Water on Cap	<u>"</u>	
c. Animal Disturbances	<u>"</u>	
d. Woody Vegetation	<u>"</u>	
e. Gully Erosion/Soil Cover	<u>see comment below</u>	
f. Runoff, Siltation	<u>- frozen, snow covered</u>	
g. Leachate	<u>" "</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>yes</u>	
b. Condition of Casing	<u>good</u>	
c. Well ID Legible	<u>yes</u>	

5. Comments:

6. Description of Repairs/Remedial Action needed:

* 3 areas previously described, were repaired on 1/21

~ 6.5 cu. yds soil placed in 3 areas

** sign-in box installed 1/15

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>January 16, 2015</u>		
Inspected by: <u>Rebecca Haney</u>		
Weather Conditions / Recent Precipitation: <u>29° Cloudy</u>		
Time: Started <u>2:21</u> (am/pm) Completed <u>2:33</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other _____		

Inspected	Status/Condition	Comments
1. Vehicular Access	<u>Good</u>	<u>Gates Locked</u>
2. Entrance		
a. Gate/Chain	<u>Good</u>	<u>Gates Locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>Snow Covered</u>	
b. Standing Water on Cap	<u>Snow Covered</u>	
c. Animal Disturbances	<u>None</u>	
d. Woody Vegetation	<u>None</u>	
e. Gully Erosion/Soil Cover	<u>Previously Noted Areas</u>	
f. Runoff, Siltation	<u>None</u>	
g. Leachate	<u>None</u>	
4. Monitoring Wells (5)		
a. Locks in place?	<u>Yes</u>	
b. Condition of Casing	<u>Good</u>	
c. Well ID Legible	<u>Yes</u>	
5. Comments: <u>Landfill cap is snow covered.</u>		
6. Description of Repairs/Remedial Action needed:		
<u>3 areas previously noted.</u>		

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: January 9, 2015

Inspected by: A. Brillinger

Weather Conditions / Recent Precipitation: 18°, recent 3-4" snow

Time: Started 13:20 (am/pm) Completed 13:35 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	gates locked
2. Entrance		
a. Gate/Chain	good	gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	snow covered	
b. Standing Water on Cap	snow covered	
c. Animal Disturbances	none noted	
d. Woody Vegetation	none observed	
e. Gully Erosion/Soil Cover	previously noted areas	
f. Runoff, Siltation	none observed	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments: landfill is snow covered

6. Description of Repairs/Remedial Action needed:

3 areas previously noted

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: 30 December 2014

Inspected by: Al Brillinger - Brad Kline (OHARNG)

Weather Conditions / Recent Precipitation: partly sunny 20°

Time: Started 1:15 (am/pm) Completed 1:45 (am/pm)

Type of inspection: Windshield Site Walk outside Other
of fence line

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	locked - good	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	none observed	
e. Gully Erosion/Soil Cover	good	** previously noted areas
f. Runoff, Siltation	none observed	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments: Broken top wire on eastern LVC fence has been repaired

6. Description of Repairs/Remedial Action needed:

** previously noted areas will be filled with approved fill in January 2015

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: December 24, 2014

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 52°, light mist

Time: Started 9:00 (am/pm) Completed 9:15 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	Good	
2. Entrance		
a. Gate/Chain	locked-good	
3. Landfill Site/Cap Integrity		*
a. Vegetative Cover	good	
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	none observed	
e. Gully Erosion/Soil Cover	good	** previously noted areas
f. Runoff, Siltation	none observed	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments: * Eastern fence line, top wire broken in 1 location,
~ 1/2 way between N & S fence line

6. Description of Repairs/Remedial Action needed:

** previously noted area will be filled when ground conditions are
not as soft

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: December 19, 2014

Inspected by: Al Brillinger & Rebecca Hanay

Weather Conditions / Recent Precipitation: cloudy 20°

Time: Started 2:15 (am/pm) Completed 2:45 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	both gates locked
3. Landfill Site/Cap Integrity		**
a. Vegetative Cover	good	
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	good	none observed on cap.
e. Gully Erosion/Soil Cover	good	* previously noted eroded areas
f. Runoff, Siltation	none noted	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments: ** fence intact except for broken top wire (1 location) on east side of fenced area.

6. Description of Repairs/Remedial Action needed:

* eroded areas (3) to be filled when approved fill dirt is available.

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: December 12, 2014

Inspected by: Al Brillinger

Weather Conditions / Recent Precipitation: 30° cloudy, no recent precip.

Time: Started 10:50 (am/pm) Completed 11:05 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access	good	
2. Entrance		
a. Gate/Chain	good	both gates locked
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	good	
b. Standing Water on Cap	none observed	
c. Animal Disturbances	none observed	
d. Woody Vegetation	good	none observed in cap area
e. Gully Erosion/Soil Cover	good	* previously noted eroded areas
f. Runoff, Siltation	none noted	
g. Leachate	none observed	
4. Monitoring Wells (5)		
a. Locks in place?	yes	
b. Condition of Casing	good	
c. Well ID Legible	yes	

5. Comments:

** fence intact

6. Description of Repairs/Remedial Action needed:

* eroded areas (3) to be filled when approved fill dirt is available

WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: 5 Dec 2014

Inspected by: Bozky Haney / Al Brillinger

Weather Conditions / Recent Precipitation: Overcast / Mist 36°

Time: Started 2:17 (am/pm) Completed 2:24 (am/pm)

Type of inspection: Windshield Site Walk Other

Inspected	Status/Condition	Comments
1. Vehicular Access		
2. Entrance		
a. Gate/Chain	Locked	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	Good	
b. Standing Water on Cap	None	
c. Animal Disturbances	None	
d. Woody Vegetation	None	
e. Gully Erosion/Soil Cover	Previously Noted	
f. Runoff, Siltation	None	
g. Leachate	None	
4. Monitoring Wells (5)		
a. Locks in place?	Yes	
b. Condition of Casing	Good	
c. Well ID Legible	Yes	

5. Comments:

6. Description of Repairs/Remedial Action needed:

Appendix B

RQL Soil Repair Memo

Memo

To: Tim Morgan, State Environmental Supervisor
From: Al Brillinger, Program Manager, Vista Sciences Corporation *ABB*
cc: Katie Tait (OHARNG), Kevin Sedlak (NGB), Quyet C. La (USACE)
Date: January 23, 2015
Re: Camp Ravenna Ramsdell Quarry Landfill Cap Repairs

Vista Sciences Corporation (VSC) filled 3 areas at the Ramsdell Quarry Landfill (RQL) with clean, approved soil on January 21, 2015. A drawing of the RQL and the repaired areas is attached to this memo.

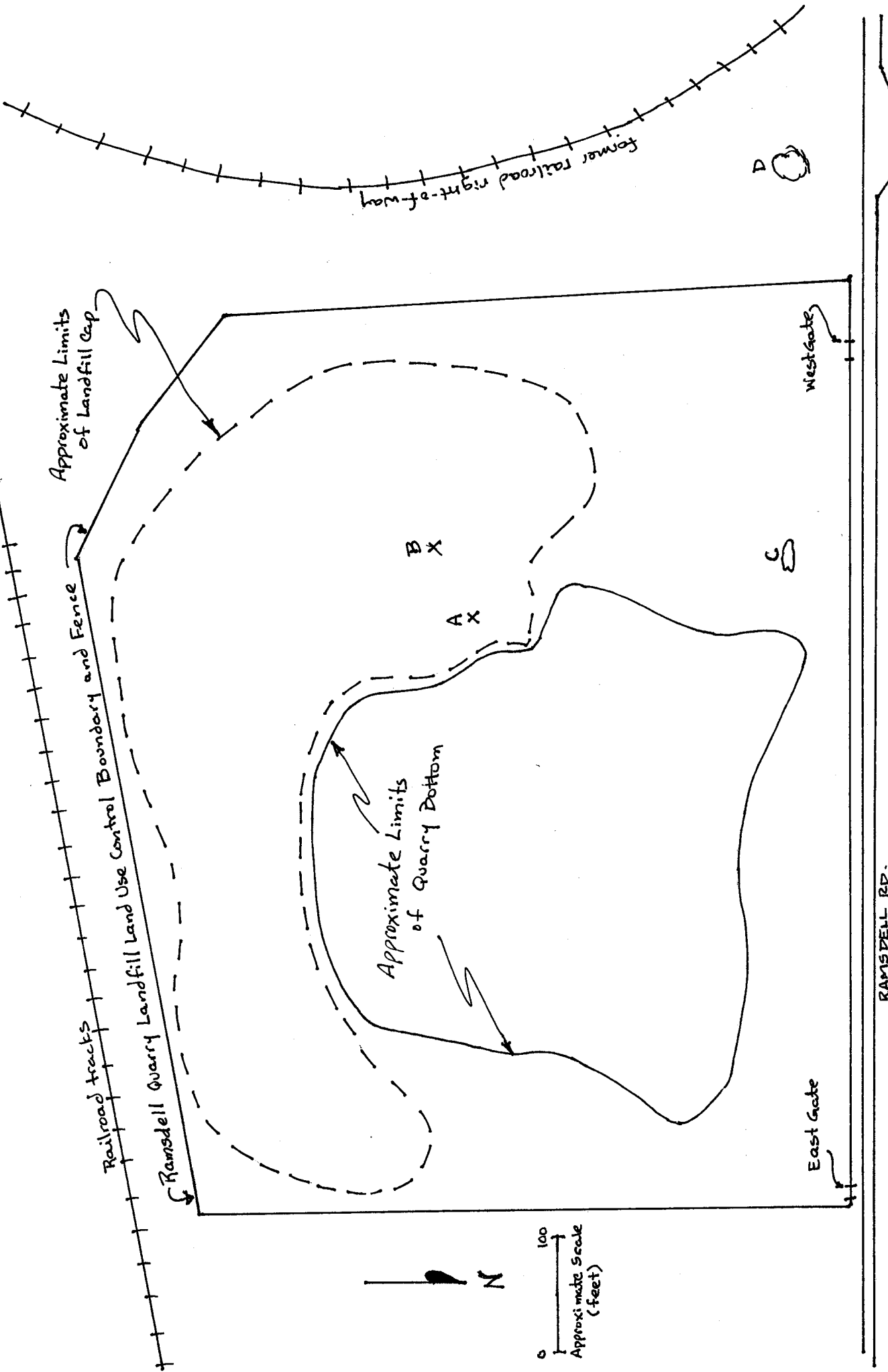
Two (2) of the areas (labeled "A" and "B" on the attached figure) were located on the Ramsdell Quarry Landfill cap, and consisted of shallow (<1 ft. deep and < 2 feet in diameter) depressions. The third location (labelled "C" on attached figure) was located north of the landfill cap in the northwest section of the fenced-in area of the RQL. The approximate dimensions of the depression were 20 ft. long x 1.5 ft. deep by 2-3 ft. wide.

The soil used to repair the depressions and holes at the RQL was obtained from Patrick Excavating and Materials, 5839 State Route 5, Ravenna, Ohio and was delivered to the site in a 20 yard load. The soil was quarried from an area at Patrick's quarry that had been reserved for use at Camp Ravenna. The reserved area had been sampled and tested by Leidos for use on the Camp Ravenna B1200 project. The soil was tested for Metals, Explosives, Semi-Volatile Organic Compounds (SVOCs), Pesticides, Polychlorinated biphenyls (PCBs) and Volatile Organic Compounds (VOCs). The test results for the soil are in the approved "Field Change Request (FCR) FCR-RVAAPB1200-002" prepared for Leidos' B1200 project at Camp Ravenna, and are attached to this memo.

Approximately 6.5 cubic yards of soil was used to repair the 3 areas at the RQL. A rubber-tracked T750-model Bobcat Compact Loader was used to transport and place the soil at the repaired areas. Orange marker stakes were placed at the repaired areas for reference purposes and the areas will be monitored in the upcoming months for changes.

The remaining approximately 13.5 cubic yards of soil was placed with the loader in a stockpile located west of the west gate, south of Ramsdell Road at the location labeled "D" on the attached figure. The stockpiled soil will be seeded in the Spring with a seed mix approved for use at Camp Ravenna. A sign will be placed adjacent to the stockpiled soil that reads "Clean soil for Environmental Use only. Please contact Brad Kline (614) 336-4918) or Katie Tait (614) 336-6136 at the OHARNG Environmental Office for further information."

Attachments: Ramsdell Quarry Landfill Repairs Map
Field Change Request (FCR) FCR-RVAAPB1200-002



Ramsdell Quarry Landfill Repairs January 21, 2015
 Vista Sciences Corporation
 A, B, & C show repair locations. Clean soil stockpile location = D

FIELD CHANGE REQUEST (FCR) FCR-RVAAPB1200-002

FCR NO. FCR-RVAAPB1200-002

DATE INITIATED 10/24/14

PROJECT Building 1200 and Anchor Test Area Remedial Action

CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001

REQUESTOR IDENTIFICATION

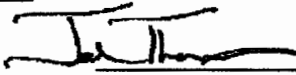
NAME Jed Thomas

ORGANIZATION Leidos

PHONE 330-405-5802

TITLE Deputy Project Manager

SIGNATURE



BASELINE IDENTIFICATION

BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)

Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area (Section 8.1)

DESCRIPTION OF CHANGE:

Section 8.1 of the referenced Remedial Design indicates the a previous backfill source will be utilized for backfill once the cleanup goals are attained during the soil excavation at the Building 1200 and Anchor Test Area AOCs. However, the backfill source specified in the Remedial Design is no longer available for use. Accordingly, Leidos identified and sampled a new backfill source at Patrick Excavating and Trucking at 5839 State Route 5, Ravenna, Ohio.

On September 11, 2014, the staged backfill source at Patrick Excavating and Trucking was sampled. One ISM sample (B12bf-060M-0014M-SO) was collected and analyzed for RVAAP full suite parameters except VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs.

The results of the analyses are attached to this FCR. Data was screened using the RVAAP surface soil background values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional Screening Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CUG. A brief summary of the results are presented below.

- 1) All analyte concentrations were below either the surface background values or the screening level.
- 2) All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or had estimated concentrations.
- 3) All SVOC analyte concentrations were either not detectable or were below the screening level, with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration of benzo(a)pyrene (0.11 mg/kg) is less than half the Resident Farmer CUG at 10-5 of 0.221 mg/kg.

Additional details of the sampling activities will be presented in the Remedial Action Report.

JUSTIFICATION:

The justification for this FCR is to obtain approval of staged soil for use as backfill after the Building 1200 and Anchor Test Areas meet the cleanup goals. As noted, the source used previously and cited in the Remedial Design is no longer available for use. Having acceptable backfill available for the remedial action is a critical component of completing this remedial action.

IMPACT OF NOT IMPLEMENTING REQUEST:

The impact of not implementing request is there will not be soil backfill available at the time the cleanup goals are attained during the soil removal activities. This would result in having open excavations that may result in ponding of storm water, safety hazards, and will delay the overall site restoration component of this remedial action.

FIELD CHANGE REQUEST (FCR) FCR-RVAAPB1200-002

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

Leidos and Remedial Subcontractor

COST ESTIMATE (\$) 0

ESTIMATOR SIGNATURE No cost impact to USACE

PHONE NA

DATE NA

PREVIOUS FCR AFFECTED ☐ YES ☒ NO; IF YES, FCR NO.

USACE COTR

Mark W. Hutton

DATE 10/29/2014

OHIO EPA PROJECT MANAGER

Shh Kh

DATE 11/5/14

LEIDOS H&S MANGER SIGNATURE (IF APPLICABLE)

NA

DATE NA

Building 1200/Anchor Test Area Backfill Sample Results

Sample Id	CAS Number	Background Criteria	Screening Level(HQ=.1, Risk=1E-6)	Screening Level Source	B12bf-060-0015-SO	B12bf-060M-0014-SO
Date					09/11/14	09/11/14
Analyte						
<i>Metals</i>						
Aluminum	7429-90-5	17700	7380	RFC	NR	6400
Antimony	7440-36-0	0.96	2.82	RFC	NR	0.13 J
Arsenic	7440-38-2	15.4	0.425	RFA	NR	7.4
Barium	7440-39-3	88.4	1413	RFC	NR	46 J
Beryllium	7440-41-7	0.88	16	RSL	NR	0.38 J
Cadmium	7440-43-9	0	6.41	RFC	NR	<0.35 UJ
Calcium	7440-70-2	15800	1000000	RDA	NR	1700
Chromium	7440-47-3	17.4	8147	RFC	NR	15 J
Cobalt	7440-48-4	10.4	131	RFC	NR	6.4
Copper	7440-50-8	17.7	311	RFC	NR	7.4
Iron	7439-89-6	23100	180000	RDA	NR	14000
Lead	7439-92-1	26.1	400	RSL	NR	17
Magnesium	7439-95-4	3030	1000000	RDA	NR	1200
Manganese	7439-96-5	1450	293	RFC	NR	590
Nickel	7440-02-0	21.1	155	RFC	NR	11 J
Potassium	7440-09-7	927	1000000	RDA	NR	370
Selenium	7782-49-2	1.4	39	RSL	NR	1.4
Silver	7440-22-4	0	38.6	RFC	NR	0.038 J
Sodium	7440-23-5	123	1000000	RDA	NR	71 J
Thallium	7440-28-0	0	0.612	RFC	NR	<0.35 UJ
Vanadium	7440-62-2	31.1	44.9	RFC	NR	15
Zinc	7440-66-6	61.8	2321	RFC	NR	33 J
<i>Organics - Explosives</i>						
1,3,5-Trinitrobenzene	99-35-4		225	RFC	NR	<0.05 U
1,3-Dinitrobenzene	99-65-0		0.765	RFC	NR	<0.05 U
2,4,6-Trinitrotoluene	118-96-7		3.65	RFC	NR	<0.05 U
2,4-Dinitrotoluene	121-14-2		0.753	RFA	NR	<0.05 U
2,6-Dinitrotoluene	606-20-2		0.769	RFA	NR	<0.05 U
2-Amino-4,6-Dinitrotoluene	35572-78-2		1.54	RFC	NR	<0.05 U
2-Nitrotoluene	88-72-2		3.88	RFC	NR	<0.05 U
3-Nitrotoluene	99-08-1		0.62	RSL	NR	<0.05 U
4-Amino-2,6-Dinitrotoluene	19406-51-0		1.54	RFC	NR	<0.05 U
4-Nitrotoluene	99-99-0		52.5	RFC	NR	<0.05 U
HMX	2691-41-0		359	RFC	NR	<0.05 U
Nitrobenzene	98-95-3		5.1	RSL	NR	<0.05 U
Nitrocellulose	9004-70-0		18000000	RSL	NR	<1.8 U
Nitroglycerin	55-63-0		52.5	RFC	NR	<0.25 U
Nitroguanidine	556-88-7		620	RSL	NR	<0.039 U
PETN	78-11-5		12	RSL	NR	0.04 J
RDX	121-82-4		8.03	RFC	NR	<0.05 U
Tetryl	479-45-8		12	RSL	NR	<0.05 U
<i>Organics - Semivolatile</i>						
1,2,4-Trichlorobenzene	120-82-1		5.8	RSL	NR	<0.043 U

Building 1200/Anchor Test Area Backfill Sample Results

Sample Id	CAS Number	Background Criteria	Screening Level(HQ=.1, Risk=1E-6)	Screening Level Source	B12bf-060-0015-SO	B12bf-060M-0014-SO
Date					09/11/14	09/11/14
Analyte						
1,2-Dichlorobenzene	95-50-1		180	RSL	NR	<0.086 U
1,3-Dichlorobenzene	541-73-1			NR	NR	<0.086 U
1,4-Dichlorobenzene	106-46-7		2.6	RSL	NR	<0.086 U
2,4,5-Trichlorophenol	95-95-4		620	RSL	NR	<0.17 U
2,4,6-Trichlorophenol	88-06-2		6.2	RSL	NR	<0.086 UJ
2,4-Dichlorophenol	120-83-2		18	RSL	NR	<0.17 U
2,4-Dimethylphenol	105-67-9		120	RSL	NR	<0.17 U
2,4-Dinitrophenol	51-28-5		12	RSL	NR	<0.17 U
2-Chloronaphthalene	91-58-7		630	RSL	NR	<0.0043 U
2-Chlorophenol	95-57-8		39	RSL	NR	<0.086 U
2-Methyl-4,6-dinitrophenol	534-52-1		0.49	RSL	NR	<0.086 U
2-Methylnaphthalene	91-57-6		30.6	RFC	NR	0.011 J
2-Methylphenol	95-48-7		310	RSL	NR	<0.17 U
2-Nitrobenzenamine	88-74-4		61	RSL	NR	<0.086 U
2-Nitrophenol	88-75-5			NR	NR	<0.086 U
3+4-Methylphenol	15831-10-4		620	RSL	NR	<0.17 U
3,3'-Dichlorobenzidine	91-94-1		1.2	RSL	NR	<0.17 U
3-Nitrobenzenamine	99-09-2			NR	NR	<0.17 U
4-Bromophenyl phenyl ether	101-55-3			NR	NR	<0.086 U
4-Chloro-3-methylphenol	59-50-7		620	RSL	NR	<0.17 U
4-Chlorobenzenamine	106-47-8		2.7	RSL	NR	<0.17 U
4-Chlorophenyl phenyl ether	7005-72-3			NR	NR	<0.086 U
4-Nitrobenzenamine	100-01-6		25	RSL	NR	<0.17 U
4-Nitrophenol	100-02-7		61.2	RFC	NR	<0.17 U
Acenaphthene	83-32-9		350	RSL	NR	<0.0085 U
Acenaphthylene	208-96-8		170	RSL	NR	<0.0043 U
Anthracene	120-12-7		1700	RSL	NR	0.013 J
Benz(a)anthracene	56-55-3		0.221	RFA	NR	0.084
Benzenemethanol	100-51-6		620	RSL	NR	<0.17 U
Benzo(a)pyrene	50-32-8		0.022	RFA	NR	0.11 *
Benzo(b)fluoranthene	205-99-2		0.221	RFA	NR	0.16
Benzo(ghi)perylene	191-24-2		170	RSL	NR	0.12
Benzo(k)fluoranthene	207-08-9		2.21	RFA	NR	0.086
Benzoic acid	65-85-0		25000	RSL	NR	0.2 J
Bis(2-chloroethoxy)methane	111-91-1		23	RFC	NR	<0.17 U
Bis(2-chloroethyl) ether	111-44-4		0.23	RSL	NR	<0.0085 U
Bis(2-chloroisopropyl) ether	108-60-1		4.9	RSL	NR	<0.086 U
Bis(2-ethylhexyl)phthalate	117-81-7		38	RSL	NR	<0.086 U
Butyl benzyl phthalate	85-68-7		280	RSL	NR	<0.086 U
Carbazole	86-74-8		44.6	RFC	NR	<0.086 U
Chrysene	218-01-9		22.1	RFA	NR	0.11
Di-n-butyl phthalate	84-74-2		620	RSL	NR	<0.086 U
Di-n-octylphthalate	117-84-0		62	RSL	NR	<0.086 U
Dibenz(a,h)anthracene	53-70-3		0.022	RFA	NR	<0.0085 U

Building 1200/Anchor Test Area Backfill Sample Results

Sample Id	CAS Number	Background Criteria	Screening Level(HQ=.1, Risk=1E-6)	Screening Level Source	B12bf-060-0015-SO	B12bf-060M-0014-SO
Date					09/11/14	09/11/14
Analyte						
Dibenzofuran	132-64-9		15.3	RFC	NR	<0.0085 U
Diethyl phthalate	84-66-2		4900	RSL	NR	<0.086 U
Dimethyl phthalate	131-11-3			NR	NR	<0.086 U
Fluoranthene	206-44-0		163	RFC	NR	0.2
Fluorene	86-73-7		243	RFC	NR	<0.0085 U
Hexachlorobenzene	118-74-1		0.33	RSL	NR	<0.0085 U
Hexachlorobutadiene	87-68-3		6.2	RSL	NR	<0.086 U
Hexachlorocyclopentadiene	77-47-4		37	RSL	NR	<0.086 U
Hexachloroethane	67-72-1		4.3	RSL	NR	<0.086 U
Indeno(1,2,3-cd)pyrene	193-39-5		0.221	RFA	NR	0.096
Isophorone	78-59-1		560	RSL	NR	<0.086 U
N-Nitroso-di-n-propylamine	621-64-7		0.12	RFC	NR	<0.086 U
N-Nitrosodiphenylamine	86-30-6		110	RSL	NR	<0.086 U
Naphthalene	91-20-3		122	RFC	NR	0.0093 J
Pentachlorophenol	87-86-5		2.12	RFA	NR	<0.086 U
Phenanthrene	85-01-8		170	RSL	NR	0.066
Phenol	108-95-2		1800	RSL	NR	<0.086 U
Pyrene	129-00-0		122	RFC	NR	0.16
Organics - Pesticide/PCB						
4,4'-DDD	72-54-8		2.2	RSL	NR	<0.0017 U
4,4'-DDE	72-55-9		2.63	RFC	NR	0.0011 J
4,4'-DDT	50-29-3		1.9	RSL	NR	<0.0017 U
Aldrin	309-00-2		0.053	RFC	NR	<0.0017 U
Dieldrin	60-57-1		0.056	RFC	NR	<0.0017 U
Endosulfan I	959-98-8		37	RSL	NR	<0.0017 U
Endosulfan II	33213-65-9		37	RSL	NR	<0.0017 U
Endosulfan sulfate	1031-07-8		37	RSL	NR	<0.0017 U
Endrin	72-20-8		1.12	RFC	NR	<0.0017 U
Endrin aldehyde	7421-93-4		1.8	RSL	NR	<0.0017 U
Endrin ketone	53494-70-5		1.8	RSL	NR	<0.0017 U
Heptachlor	76-44-8		0.198	RFC	NR	<0.0017 U
Heptachlor epoxide	1024-57-3		0.098	RFC	NR	<0.0017 U
Lindane	58-89-9		0.56	RSL	NR	0.003 J
Methoxychlor	72-43-5		31	RSL	NR	<0.0033 U
Toxaphene	8001-35-2		0.48	RSL	NR	<0.034 U
alpha-BHC	319-84-6		0.085	RSL	NR	0.0049 J
alpha-Chlordane	5103-71-9		1.8	RSL	NR	<0.0017 U
beta-BHC	319-85-7		0.496	RFC	NR	0.0023 J
delta-BHC	319-86-8			NR	NR	<0.0017 U
gamma-Chlordane	5103-74-2		1.8	RSL	NR	0.0019 J
Organics - Volatile						
1,1,1-Trichloroethane	71-55-6		640	RSL	<0.0012 U	NR
1,1,2,2-Tetrachloroethane	79-34-5		0.6	RSL	<0.0012 U	NR
1,1,2-Trichloroethane	79-00-5		0.15	RSL	<0.0012 U	NR

Building 1200/Anchor Test Area Backfill Sample Results

Sample Id	CAS Number	Background Criteria	Screening Level(HQ=.1, Risk=1E-6)	Screening Level Source	B12bf-060-0015-SO	B12bf-060M-0014-SO
Date					09/11/14	09/11/14
Analyte						
1,1-Dichloroethane	75-34-3		3.6	RSL	<0.0012 U	NR
1,1-Dichloroethene	75-35-4		23	RSL	<0.0012 U	NR
1,2-Dibromoethane	106-93-4		0.036	RSL	<0.0012 UJ	NR
1,2-Dichloroethane	107-06-2		0.46	RSL	<0.0012 U	NR
1,2-Dichloroethene	540-59-0			NR	<0.0024 U	NR
1,2-Dichloropropane	78-87-5		1	RSL	<0.0024 U	NR
2-Butanone	78-93-3		2700	RSL	<0.0047 U	NR
2-Hexanone	591-78-6		20	RSL	<0.0012 U	NR
4-Methyl-2-pentanone	108-10-1		530	RSL	<0.0012 U	NR
Acetone	67-64-1		6100	RSL	<0.018 UJ	NR
Benzene	71-43-2		1.2	RSL	<0.00059 UJ	NR
Bromochloromethane	74-97-5		15	RSL	<0.0024 U	NR
Bromodichloromethane	75-27-4		0.29	RSL	<0.00059 UJ	NR
Bromoform	75-25-2		67	RSL	<0.0012 U	NR
Bromomethane	74-83-9		0.68	RSL	<0.0012 U	NR
Carbon disulfide	75-15-0		77	RSL	<0.0012 U	NR
Carbon tetrachloride	56-23-5		0.65	RSL	<0.0012 U	NR
Chlorobenzene	108-90-7		28	RSL	<0.0012 UJ	NR
Chloroethane	75-00-3		1400	RSL	<0.0012 U	NR
Chloroform	67-66-3		0.32	RSL	<0.00059 U	NR
Chloromethane	74-87-3		11	RSL	<0.00059 U	NR
Dibromochloromethane	124-48-1		0.73	RSL	<0.0012 UJ	NR
Ethylbenzene	100-41-4		5.8	RSL	<0.00059 UJ	NR
Methylene chloride	75-09-2		35	RSL	<0.0024 U	NR
Styrene	100-42-5		600	RSL	<0.00059 UJ	NR
Tetrachloroethene	127-18-4		8.1	RSL	<0.0012 UJ	NR
Toluene	108-88-3		490	RSL	<0.00059 UJ	NR
Trichloroethene	79-01-6		0.41	RSL	<0.0012 UJ	NR
Vinyl chloride	75-01-4		0.059	RSL	<0.0012 U	NR
Xylenes, total	1330-20-7		58	RSL	<0.0024 U	NR
cis-1,3-Dichloropropene	10061-01-5		1.8	RSL	<0.0012 UJ	NR
trans-1,3-Dichloropropene	10061-02-6		1.8	RSL	<0.0012 U	NR

*- Exceeds screening level

NR- not reported

U-not detected

UJ-not detected, reporting limit estimated

J- estimated

RFC-Resident Farmer Child

RFA-Resident Farmer Adult

RDA-Recommended daily allowance for nutrient

RSL-EPA Regional Screening Level for resident for soil (May 2014)

Appendix C

Quarterly RQL Inspection Reports

**STATE OF OHIO
ADJUTANT GENERAL'S DEPARTMENT
CAMP RAVENNA JOINT MILITARY TRAINING CENTER
1438 State Route 534 SW
Newton Falls, OH 44444**

29 September 2015

Environmental Office

Bob Princic, Environmental Supervisor
Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087-1924

Reference: Closed Ramsdell Quarry Landfill Status Report

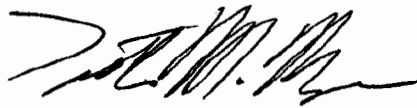
Dear Mr. Princic,

On September 10, 2015, the subject Landfill was inspected by Portage County General Health District (see attached inspection report).

The Camp Ravenna Joint Military Training Center Support Services Contractor, Vista Sciences Corporation, conducts weekly inspections of the conditions of the landfill cap. No deficiencies have been detected since January 1, 2006. These inspection reports are available for your viewing at the Vista office located at Camp Ravenna Environmental Office.

If you have any further questions or require further clarification concerning this subject, please feel free to contact the undersigned at (614) 336-6568 or timothy.m.morgan.nfg@mail.mil at any time. The OHARNG is committed to environmental excellence and compliance and will work with the Ohio EPA should any issues ensue. Thank you for your time and consideration in this matter.

Sincerely,



Timothy M. Morgan
Fort Ohio Environmental Supervisor

cc: Mark Leeper
Katie Tait
Kevin Sedlak
Timothy Morgan
Rod Beals

PORTAGE COUNTY COMBINED GENERAL HEALTH DISTRICT

705 Oakwood Street
Suite 208
Ravenna, Ohio 44266

Phone: 330-296-9919
Fax: 330-297-3597
E-mail: pchd@portageco.com



Joseph J. Diorio, MPH, MS, RS
Health Commissioner

Web: www.co.portage.oh.us/dept/healthdepartment

September 16, 2015

Al Brillinger
Vista Sciences Corp.
1438 St. Rt. 534 SW
Newton Falls, OH 44444

RE: Ramsdell Quarry Inspection

Dear Mr. Brillinger:

On September 10, 2015, I conducted a comprehensive inspection at Ramsdell Quarry. The weather was clear, about 80° F and pleasant. The slopes of the quarry are well vegetated and there were no serious issues. Brad Kline did point out a small erosion issue at the northwest corner near the pond, which will be taken care of.

No violations of Post Closure Rules were noted. Thank you for your cooperation and efforts.

If you have any questions, you can contact me at this office weekday mornings between 8:00 a.m. and 10:00 a.m. at (330) 296-9919 Ext. 116 or email at jmadved@portageco.com.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Madved", written over a horizontal line.

Jack Madved, R.S.

JM:maa

cc: Portage County Commissioners
Bill Steiner, Director of Portage County Solid Waste Management
Colum McKenna, Northeast District of OEPA

Enclosure



Closed MSW Landfill Inspection Checklist

Facility Name	Ramsdell Quarry	
Address	Ravenna Arsenal	
Date	9-10-15	Time
Inspection Type		
Facility	Brad Kline	
Health District	Jack Madved - Portage	
Ohio EPA		
Other		

Inspection Type	Required Inspection	
<input checked="" type="checkbox"/> Comprehensive	<input type="checkbox"/> Required	<input type="checkbox"/> Other
<input type="checkbox"/> Focused	<input type="checkbox"/> Re-Inspection	

Is the above site being operated in compliance with the following regulations? Please mark the box in the appropriate column to denote compliance status. Marking the box in the NO column indicates that a violation has been noted. Please mark the N/A box if not applicable to this location. This checklist is not all inclusive of regulations applicable to closed municipal solid waste landfills.

Y	N	N/A		Y	N	N/A	
			3745-27-14 Post closure care of MSW Landfills				
			(A) Post-closure care activities				(5) Monitoring and reporting requirements of OAC 3745-27-10, 3745-27-12, 3745-76
			(1) Leachate management, surface water management, explosive gas extraction and monitoring, ground water monitoring system				(6) Annual report
			(2) Integrity of cap system				(7) Record keeping
			(3) Repair leachate outbreaks				(D) Facility access
			(4) Quarterly inspections-report to Ohio EPA within 15 days				Provide access to facility for Ohio EPA and local health department inspections

Comments:

- Small erosion issue at north west corner near the pond.

Good ground cover - no issues to report.

Sunny - 80° F

Jack Madved Print Name of Inspector Completing Form	J. Madved Signature	9-10-15 Date
--	------------------------	-----------------

**STATE OF OHIO
ADJUTANT GENERAL'S DEPARTMENT
CAMP RAVENNA JOINT MILITARY TRAINING CENTER
1438 State Route 534 SW
Newton Falls, OH 44444**

23 June 2015

Environmental Office

Rod Beals, Environmental Supervisor
Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087-1924

Reference: Closed Ramsdell Quarry Landfill Status Report

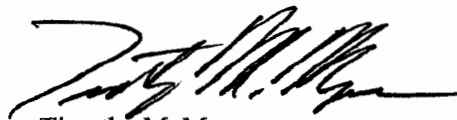
Dear Mr. Beals,

On June 15, 2015, the subject Landfill was inspected by Portage County General Health District (see attached inspection report).

The Camp Ravenna Joint Military Training Center Support Services Contractor, Vista Sciences Corporation, conducts weekly inspections of the conditions of the landfill cap. No deficiencies have been detected since January 1, 2006. These inspection reports are available for your viewing at the Vista office located at Camp Ravenna Environmental Office.

If you have any further questions or require further clarification concerning this subject, please feel free to contact the undersigned at (614) 336-6568 or timothy.m.morgan.nfg@mail.mil at any time. The OHARNG is committed to environmental excellence and compliance and will work with the Ohio EPA should any issues ensue. Thank you for your time and consideration in this matter.

Sincerely,



Timothy M. Morgan
Fort Ohio Environmental Supervisor

cc: Mark Leeper
Katie Tait
Kevin Sedlak
Timothy Morgan

PORTAGE COUNTY COMBINED GENERAL HEALTH DISTRICT

705 Oakwood Street
Suite 208
Ravenna, Ohio 44266

Phone: 330-296-9919
Fax: 330-297-3597
E-mail: pchd@portageco.com



DuWayne O. Porter, M.P.H., R.S.
Health Commissioner

Web: www.co.portage.oh.us/dept/healthdepartment

June 16, 2015

Al Brillinger
Vista Sciences Corp.
1438 St. Rt. 534 SW
Newton Falls, OH 44444

RE: Ramsdell Quarry Inspection

Dear Mr. Brillinger:

On June 15, 2015, I conducted a comprehensive inspection at Ramsdell Quarry. I was accompanied by Brad Kline, environmental technician. The weather was cloudy, 82° F and very humid. The thick vegetation on the slope is protecting the slope and there were no erosion issues.

No violations of Post Closure Rules were noted. Thank you for your cooperation.

If you have any questions, you can contact me at this office weekday mornings between 8:00 a.m. and 10:00 a.m. at (330) 296-9919 Ext. 116 or email at jmadved@portageco.com.

Sincerely,

Jack Madved, R.S.

JM:maa

cc: Portage County Commissioners
Bill Steiner, Director of Portage County Solid Waste Management
Colum McKenna, Northeast District of OEPA

Enclosure



Closed MSW Landfill Inspection Checklist

Facility Name <u>Ramsdell Quarry</u>	
Address <u>6-15-15</u>	
Date	Time
Inspection Representatives	
Facility <u>Brad Kline</u> <u>614-356-4918</u>	
Health District <u>Tack Madril</u> <u>Portage</u>	
Ohio EPA	
Other	

Inspection Type	Reason for Inspection	
<input checked="" type="checkbox"/> Comprehensive	<input type="checkbox"/> Required	<input type="checkbox"/> Other
<input type="checkbox"/> Focused	<input type="checkbox"/> Re-Inspection	

Is the above site being operated in compliance with the following regulations? Please mark the box in the appropriate column to denote compliance status. Marking the box in the NO column indicates that a violation has been noted. Please mark the N/A box if not applicable to this location. This checklist is not all inclusive of regulations applicable to closed municipal solid waste landfills.

Y	N	N/A		Y	N	N/A	
			3745-27-14 Post closure care of MSW Landfills				
			(A) Post-closure care activities				(5) Monitoring and reporting requirements of OAC 3745-27-10, 3745-27-12, 3745-76
			(1) Leachate management, surface water management, explosive gas extraction and monitoring, ground water monitoring system				(6) Annual report
			(2) Integrity of cap system				(7) Record keeping
			(3) Repair leachate outbreaks				(D) Facility access
			(4) Quarterly inspections-report to Ohio EPA within 15 days				Provide access to facility for Ohio EPA and local health department inspections

Comments:

No Violations noted.
- Heavy rains have not impacted the slope.
This shows good ground cover and soil protection.

Weather cloudy 82°F, high humidity

<u>J. Madril</u> Print Name of Inspector Completing Form	<u>J. Madril</u> Signature	Date
---	-------------------------------	------

**STATE OF OHIO
ADJUTANT GENERAL'S DEPARTMENT
CAMP RAVENNA JOINT MILITARY TRAINING CENTER
1438 State Route 534 SW
Newton Falls, OH 44444**

24 March 2015

Environmental Office

Rod Beals, Environmental Supervisor
Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087-1924

Reference: Closed Ramsdell Quarry Landfill Status Report

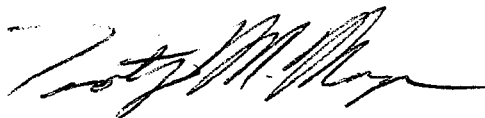
Dear Mr. Beals,

On March 16, 2015, the subject Landfill was inspected by Portage County General Health District (see attached inspection report).

The Camp Ravenna Joint Military Training Center Support Services Contractor, Vista Sciences Corporation, conducts weekly inspections of the conditions of the landfill cap. No deficiencies have been detected since January 1, 2006. These inspection reports are available for your viewing at the Vista office located at Camp Ravenna Environmental Office.

If you have any further questions or require further clarification concerning this subject, please feel free to contact the undersigned at (614) 336-6568 or timothy.m.morgan.nfg@mail.mil at any time. The OHARNG is committed to environmental excellence and compliance and will work with the Ohio EPA should any issues ensue. Thank you for your time and consideration in this matter.

Sincerely,



Timothy M. Morgan
Fort Ohio Environmental Supervisor

cc: Mark Leeper
Katie Tait
Kevin Sedlak
Timothy Morgan

PORTAGE COUNTY COMBINED GENERAL HEALTH DISTRICT

705 Oakwood Street
Suite 208
Ravenna, Ohio 44266

Phone: 330-296-9919
Fax: 330-297-3597
E-mail: pchd@portageco.com



DuWayne O. Porter, M.P.H., R.S.
Health Commissioner

Web: www.co.portage.oh.us/dept/healthdepartment

March 17, 2015

Al Brillinger
Vista Sciences Corp.
1438 St. Rt. 534 SW
Newton Falls, OH 44444

RE: Ramsdell Quarry Inspection

Dear Mr. Brillinger:

On March 16, 2015, I conducted a comprehensive inspection at Ramsdell Quarry. I was accompanied by you and Brad Kline, environmental technician. The weather was sunny and 53°F with snow still on the slopes. We discussed the break in the perimeter fence and the filling in of erosion on the northwest corner and small holes on the slope.

No violations of Post Closure Rules were noted. Thank you for your cooperation.

If you have any questions, you can contact me at this office weekday mornings between 8:00 a.m. and 10:00 a.m. at (330) 296-9919 Ext. 116 or email at jmadved@portageco.com.

Sincerely,

Jack Madved, R.S.

JM:maa

cc: Portage County Commissioners

Enclosure



Closed MSW Landfill Inspection Checklist

Facility Name <u>Ramsdell Quarry</u>	
Address	
Date <u>3-16-15</u>	Time
Facility <u>Brad Kline, Al Brillinger</u>	
Health District <u>Jack Madrol</u>	
Ohio EPA	
Other	

<input checked="" type="checkbox"/> Comprehensive	<input checked="" type="checkbox"/> Required	<input type="checkbox"/> Other
<input type="checkbox"/> Focused	<input type="checkbox"/> Re-Inspection	

Is the above site being operated in compliance with the following regulations? Please mark the box in the appropriate column to denote compliance status. Marking the box in the NO column indicates that a violation has been noted. Please mark the N/A box if not applicable to this location. This checklist is not all inclusive of regulations applicable to closed municipal solid waste landfills.

Y	N	N/A		Y	N	N/A	
			3745-27-14 Post closure care of MSW Landfills				
			(A) Post-closure care activities				(5) Monitoring and reporting requirements of OAC 3745-27-10, 3745-27-12, 3745-76
			(1) Leachate management, surface water management, explosive gas extraction and monitoring, ground water monitoring system				(6) Annual report
			(2) Integrity of cap system				(7) Record keeping
			(3) Repair leachate outbreaks				(D) Facility access
			(4) Quarterly inspections-report to Ohio EPA within 15 days				Provide access to facility for Ohio EPA and local health department inspections

Comments: Some small concerns are filled w/ soil -
To early for greening. for soil used for repairs.
No Violations Noted - Very Good.

Sunny - 53° F, snow on the ground

<u>J. Madrol</u> Print Name of Inspector Completing Form	<u>J. Madrol</u> Signature	<u>3-16-15</u> Date
---	-------------------------------	------------------------

**STATE OF OHIO
ADJUTANT GENERAL'S DEPARTMENT
CAMP RAVENNA JOINT MILITARY TRAINING CENTER
1438 State Route 534 SW
Newton Falls, OH 44444**

06 January 2015

Environmental Office

Nancy Zikmanis, Environmental Supervisor
Ohio Environmental Protection Agency
Division of Emergency and Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087-1924

Reference: Closed Ramsdell Quarry Landfill Status Report

Dear Ms. Zikmanis,

On December 29, 2014, the subject Landfill was inspected by Portage County General Health District (see attached inspection report).

The Camp Ravenna Joint Military Training Center Support Services Contractor, Vista Sciences Corporation, conducts weekly inspections of the conditions of the landfill cap. No deficiencies have been detected since January 1, 2006. These inspection reports are available for your viewing at the Vista office located at Camp Ravenna Environmental Office.

If you have any further questions or require further clarification concerning this subject, please feel free to contact the undersigned at (614) 336-6568 or timothy.m.morgan.nfg@mail.mil at any time. The OHARNG is committed to environmental excellence and compliance and will work with the Ohio EPA should any issues ensue. Thank you for your time and consideration in this matter.

Sincerely,



Timothy M. Morgan
Fort Ohio Environmental Supervisor

cc: Mark Leeper
Katie Tait
Kevin Sedlak
Timothy Morgan

PORTAGE COUNTY COMBINED GENERAL HEALTH DISTRICT

705 Oakwood Street
Suite 208
Ravenna, Ohio 44266

Phone: 330-296-9919
Fax: 330-297-3597
E-mail: pchd@portageco.com



DuWayne O. Porter, M.P.H., R.S.
Health Commissioner

Web: www.co.portage.oh.us/dept/healthdepartment

December 30, 2014

Al Brillinger
Vista Sciences Corp.
Camp Ravenna
1438 St. Rt. 534 SW
Newton Falls, OH 44444

RE: Ramsdell Quarry

Dear Sir:

On December 29, 2014, I conducted a comprehensive inspection at Ramsdell Quarry. I was accompanied by Brad Kline, environmental technician. The weather was cloudy and 35°F.

No violations of Post Closure Rules were noted. Thank you for your cooperation.

If you have any questions, you can contact me at this office weekday mornings between 8:00 a.m. and 10:00 a.m. at (330) 296-9919 Ext. 116 or email at jmadved@portageco.com.

Sincerely,

Jack Madved, R.S.

JM:df

Enclosure



Closed MSW Landfill Inspection Checklist

Facility Name <i>Ramsdell Quarry</i>	
Address	
Date <i>12-29-14</i>	Time
Inspection Representatives	
Facility <i>Brad Kline</i>	
Health District <i>Jack Madved</i>	
Ohio EPA	
Other	

Inspection Type	Reason for Inspection	
<input checked="" type="checkbox"/> Comprehensive	<input type="checkbox"/> Required	<input type="checkbox"/> Other
<input type="checkbox"/> Focused	<input type="checkbox"/> Re-Inspection	

Is the above site being operated in compliance with the following regulations? Please mark the box in the appropriate column to denote compliance status. Marking the box in the NO column indicates that a violation has been noted. Please mark the N/A box if not applicable to this location. This checklist is not all inclusive of regulations applicable to closed municipal solid waste landfills.

Y	N	N/A		Y	N	N/A	
			3745-27-14 Post closure care of MSW Landfills				
			(A) Post-closure care activities				(5) Monitoring and reporting requirements of OAC 3745-27-10, 3745-27-12, 3745-76
			(1) Leachate management, surface water management, explosive gas extraction and monitoring, ground water monitoring system			?	(6) Annual report
			(2) Integrity of cap system				(7) Record keeping
			(3) Repair leachate outbreaks				(D) Facility access
			(4) Quarterly inspections-report to Ohio EPA within 15 days				Provide access to facility for Ohio EPA and local health department inspections

Comments: *Weather - 35° F, Cloudy, no snow*

A 8' erosion rill at the NW corner at the pond needs attention. Some small holes on the cap need to be filled - no loss of cap integrity. New fence installed around the landfill.

<i>J. Madved</i> Print Name of Inspector Completing Form	<i>J. Madved</i> Signature	<i>12-29-14</i> Date
---	-------------------------------	-------------------------

Appendix D

RQL Access Logs

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Al Brillinger - VSC	9-11-15	11:10	11:30	weekly inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY, B.	10-1-15	11:10	4:00 PM	mowing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY, B.	10-2-15	8:00	4:00	"	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger	10-2-15	10:00	10:15	weekly inspection - check on mowing ops.	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY, B.	10-5-15	8:00	4:30 PM	mowing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY, B.	10-6-15	8:00	4:30 PM	mowing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
GARY, B.	10-7-15	10:00	4:30 PM	mowing	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger	10-15-15	1:45 PM	2:30 PM	Annual inspection Weekly inspection	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
					<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Al Brillinger - VSC	5-15-15	10:30	11:20	Inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger - VSC	6-12-15	11:00	11:45	Inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Kline - CHARNO Jack Madril - Portage County	6-15-15	10:00	11:30	Inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Stephen Sturgeon EQM	7/16/15	08:50	10:00	GW water level measurements	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
John Miller EQM	7/21/15	11:00	12:00	Well Maintenance (gw)	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Scott Spesshardt EQM	7/22/15	09:00	17:00	GW Sampling	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
RAV RUSSELL EQM	7/22/15	09:00	17:00	GW SAMPLING	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Erik Carbin EQM	7/22/15	14:45	16:45	GW Sampling	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Kline - CHARNO Katie Tait - CHARNO	9/10/15	11:30	12:35	Inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Jack Madril - Portage County	9/10/15	11:30	12:35	Inspection	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name/Company	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Drew Kicher / Ohio EPA	7/8/10	10 AM	noon	Site walkover	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Vanessa Stegerman / Dick	7/8/15	10 AM	Noon	site walkover	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Nick Rocco / EPA 7-8-15	7-8-15	10 AM	Noon	site walkover	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Vicki Dwyer	7/8/15	10 AM	Noon	site walkover	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Kathryn Tait	7/8/15	11 AM	Noon	Site Walk	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Kevin Sedlak	7/8/15	11:19	Noon	site walk	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Sue Wetkew	7/8/12	11 A	Noon	Site Walk	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Colleen Lear	7/16/15	08:50	10:00	Groundwater Level Measurements	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap

Sign In/Out Sheet for Ramsdell Quarry Landfill – Please sign in and out when entering and exiting the Ramsdell Quarry Landfill.
Please also note what activities were performed and what areas of the AOC were accessed.

Name	Date	Time In	Time Out	Description of Activities Performed (i.e., mowing, gw sampling, etc)	Areas Accessed (please choose and check)
Al Brillinger / VSC Becky Haney / VSC	12/19/14	2:15 p	2:45 p	Weekly Inspection / Quarterly Inspection	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Brad Kline / OHARNG Jack Medved / Portage county	12/29/14	1030	1145	Landfill Cap Inspection	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Rich Sprinzel / Leidos Jeff Becka / R: T Fence	12/30/14	1035	1125	Hi-Tensile Fence Repair (East Side)	<input type="checkbox"/> Quarry bottom x Fence <input type="checkbox"/> Groundwater monitoring wells <input type="checkbox"/> Landfill cap
Gary Brunswick / VSC	1/21/15	0900	1330	Landfill cap Repairs	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Al Brillinger	1/21/15	0930 13:00	10:00 13:30	Landfill Cap Repairs	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
Colleen Lear / EQM	3/11/15	1430	1445	clear entrance of snow	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap fence
EQM - C. Lear, S. Spesshardt E. Cortina, A. Driscoll, R. Russell B. DeSkins, S. Hicks, S. Surgeon	3/12/15	0828	1330	gw sampling	<input checked="" type="checkbox"/> Quarry bottom <input checked="" type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
J. Medved / Portage Co. B. Kline / OHARNG A. Brillinger / VSC	3/16/15	1015	1055	quarterly inspection	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
A. Brillinger / VSC	4-10-15	11:15	11:30	checking repaired areas	<input type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap
A. Brillinger / VSC	5-01-15	11:25	12:05	weekly inspection - check repaired areas	<input checked="" type="checkbox"/> Quarry bottom <input type="checkbox"/> Groundwater monitoring wells <input checked="" type="checkbox"/> Landfill cap

Appendix E

RQL Annual Inspection Photographs

RQL Annual Inspection photographs – October 15, 2015



West side of Ramsdell Quarry Landfill, looking south from west gate.



East side of Ramsdell Quarry Landfill, looking north from southeast corner.

RQL Annual Inspection photographs – October 15, 2015



East and south side of Ramsdell Quarry Landfill, looking southwest from east side.



East gate and north fence of Ramsdell Quarry Landfill, looking west from east gate.

Appendix F

FY 2015 Quarterly Land Use Control Index Maps

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 1st Qtr. FY 2015

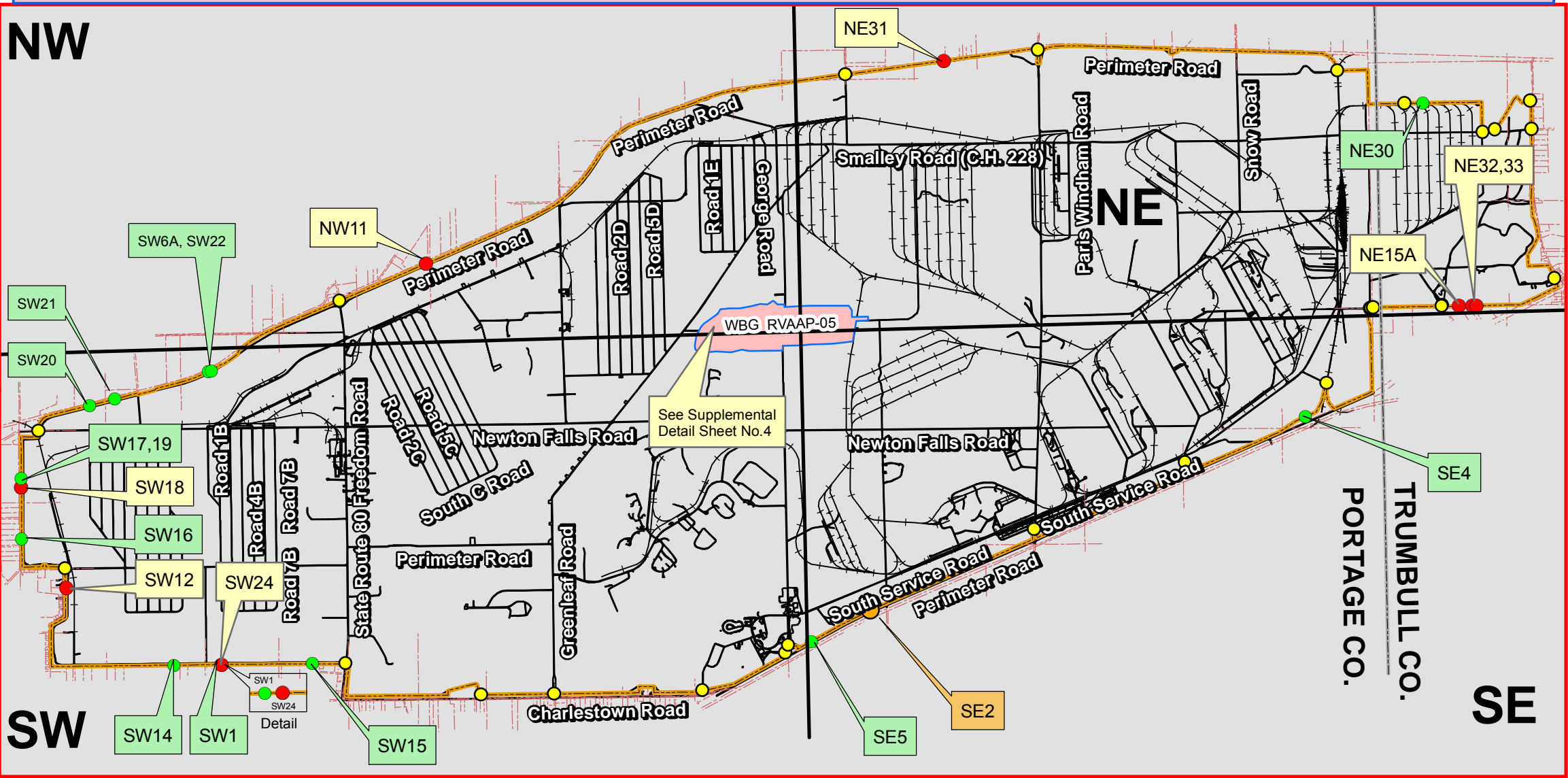


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION
SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (9 locations)
- Repaired (13 Locations)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

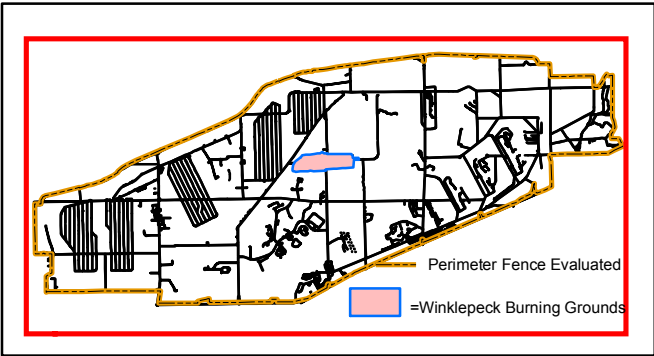
Detail Sheet
Callout

Detail Sheet
Repair Callout

Detail Sheet
Repair in Progress
Callout

SUMMARY TABLE							
Camp Ravenna Joint Military Training Center 1st Qtr FY2015 LUC Inspection				US Survey Ft			
Callout	Date	Path to Photo Location	Comments	Northing	Easting	Path to Repair Photo Location	Callout
NW11	11/26/2014	c:\My Documents\My ArcPad\P1010484.JPG	old abandoned rr utility pole leaning over top of fence	564883	2343968		NW11
SE02	12/16/2014	c:\My Documents\My ArcPad\P1010427.JPG	repair in progress	551498	2361141		SE02
SW12	11/18/2013	c:\My Documents\My ArcPad\P1010323.JPG	storm washout about 2 sections inlet needs cleared	552357	2330086		SW12
SW18	7/15/2014	c:\My Documents\My ArcPad\P1010412.JPG	hole under fence at culvert outlet	556241	2328345		SW18
SW24	11/20/2014	c:\My Documents\My ArcPad\P1010447.JPG	poacher hole	549402	2336086		SW24
NE15A	12/15/2014	c:\My Documents\My ArcPad\P1010530.JPG	poacher hole (repeat)	563240	2383872		NE15A
NE31	12/3/2014	c:\My Documents\My ArcPad\P1010522.JPG	utility pole fallen on top of fence	572718	2363965		NE31
NE32	12/15/2014	c:\My Documents\My ArcPad\P1010531.JPG	12in tree has fallen on to the fence	563254	2384389		NE32
NE33	12/15/2014	c:\My Documents\My ArcPad\P1010532.JPG	8in tree has fallen on to the fence	563257	2384533		NE33
NE30	7/21/2014	c:\My Documents\My ArcPad\P1010425.JPG	poacher hole	571083	2382464	c:\My Documents\My ArcPad\P1010523.JPG	NE30
SE04	11/25/2013	c:\My Documents\My ArcPad\P1010351.JPG	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933	c:\My Documents\My ArcPad\P1010533.JPG	SE04
SE05	04/22/2014	c:\My Documents\My ArcPad\P1010402.JPG	washout below undamaged fence	550299	2358851	c:\My Documents\My ArcPad\P1010537.JPG	SE05
SW01	02/07/2013	c:\My Documents\My ArcPad\P1010322.JPG	bottom open	549403	2336048	c:\My Documents\My ArcPad\P1010448.JPG	SW01
SW06A	7/16/2014	c:\My Documents\My ArcPad\P1010416.JPG	poacher hole in fence (repeat)	560708	2335572	c:\My Documents\My ArcPad\P1010472.JPG	SW06A
SW14	04/14/2014	c:\My Documents\My ArcPad\P1010379.JPG	poacher hole in fence	549386	2334237	c:\My Documents\My ArcPad\P1010450.JPG	SW14
SW15	7/15/2014	c:\My Documents\My ArcPad\P1010404.JPG	tree blow down	549438	2339580	c:\My Documents\My ArcPad\P1010445.JPG	SW15
SW16	7/15/2014	c:\My Documents\My ArcPad\P1010408.JPG	tree blow down/damaged fence	554267	2328362	c:\My Documents\My ArcPad\P1010453.JPG	SW16
SW17	7/15/2014	c:\My Documents\My ArcPad\P1010409.JPG	tree blow down/fence top damaged	556228	2328345	c:\My Documents\My ArcPad\P1010462.JPG	SW17
SW19	7/15/2014	c:\My Documents\My ArcPad\P1010413.JPG	tree blow down/top fence damaged	556581	2328342	c:\My Documents\My ArcPad\P1010464.JPG	SW19
SW20	7/15/2014	c:\My Documents\My ArcPad\P1010414.JPG	hole in bottom of fence below sign	559398	2330974	c:\My Documents\My ArcPad\P1010470.JPG	SW20
SW21	7/15/2014	c:\My Documents\My ArcPad\P1010415.JPG	hole at bottom of fence	559659	2331945	c:\My Documents\My ArcPad\P1010471.JPG	SW21
SW22	7/16/2014	c:\My Documents\My ArcPad\P1010417.JPG	poacher hole	560762	2335683	c:\My Documents\My ArcPad\P1010473.JPG	SW22
REPAIRED 1ST QTR							

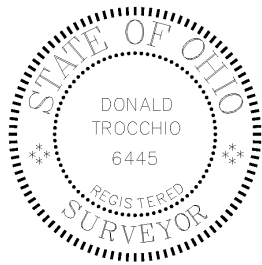
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

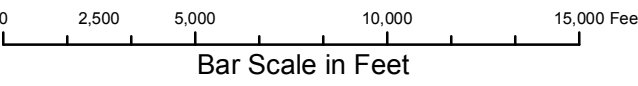


US Army Corps of
Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 2nd Qtr. FY 2015

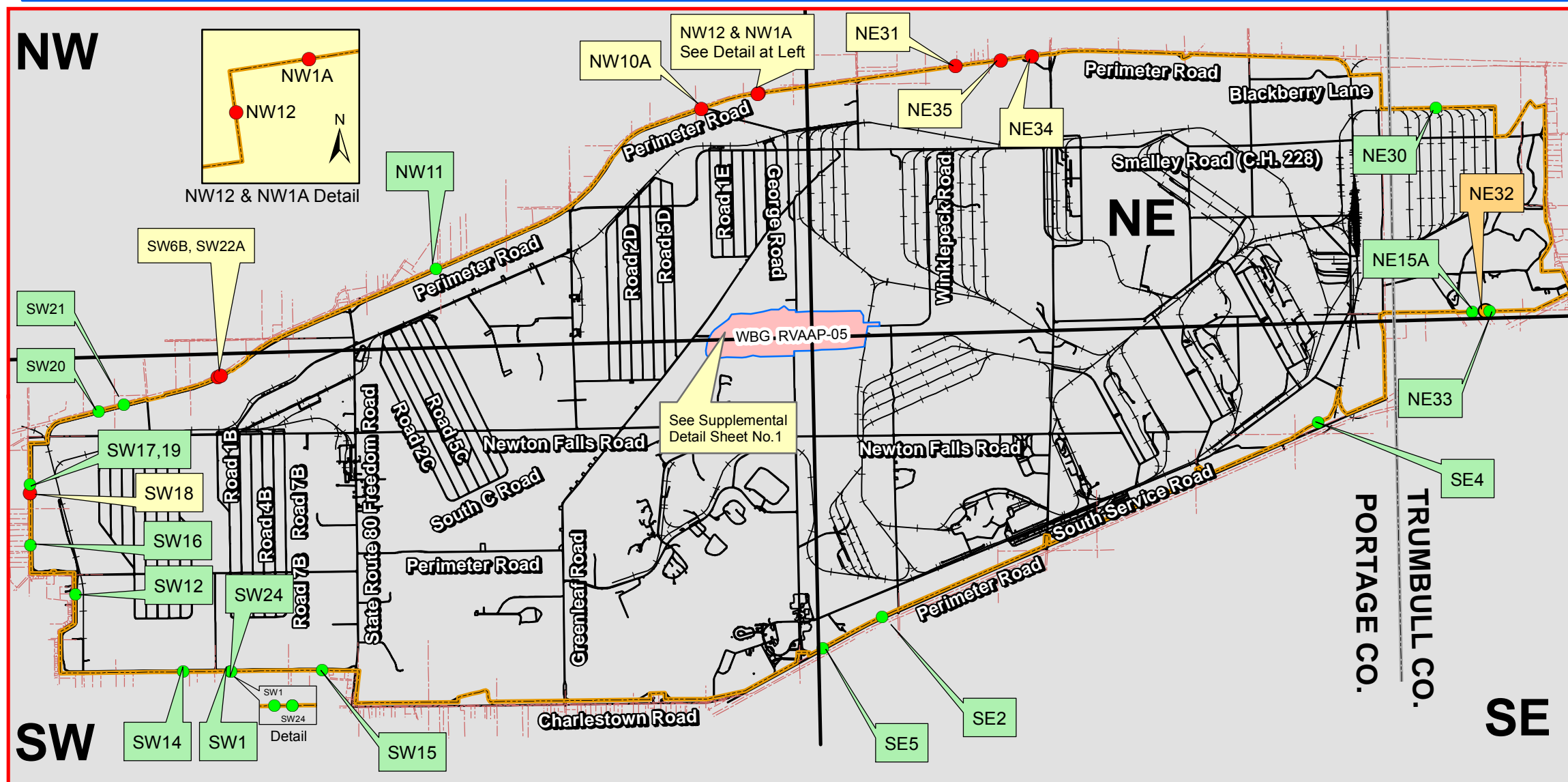


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

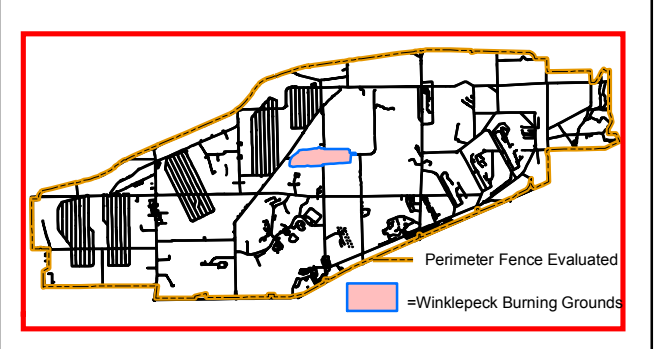
LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (9 locations)
- Repaired in FY2015
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet Callout	Detail Sheet Repair Callout	Detail Sheet Repair in Progress Callout
-------------------------	--------------------------------	---

NOTE: As observed during the second quarter LUC inspections, the following perimeter fence defects were repaired: NW11, NE15A, NE33, SE02, SW12, and SW24. Additionally, the following areas were reported to have been repaired on March 25, 2015 after the damaged areas had been inspected: NW12, SW22, NE34, NE35, SW6B, NW1A and NW10A.

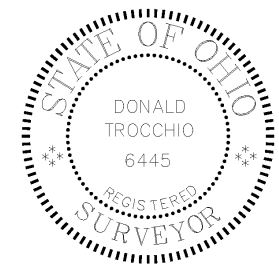
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



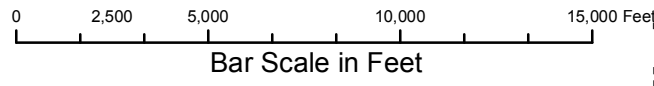
US Army Corps of
Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 3rd Qtr. FY 2015

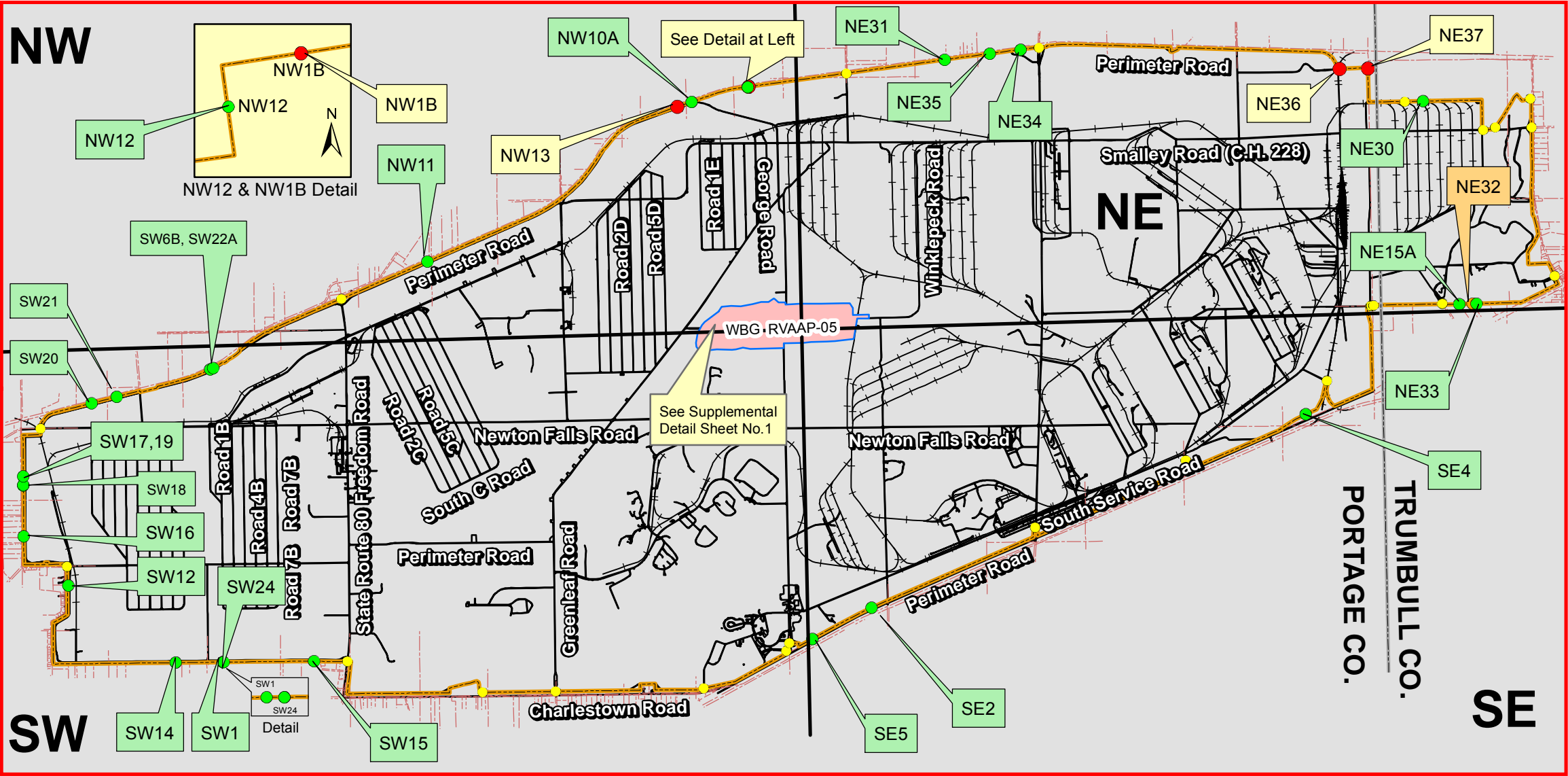


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

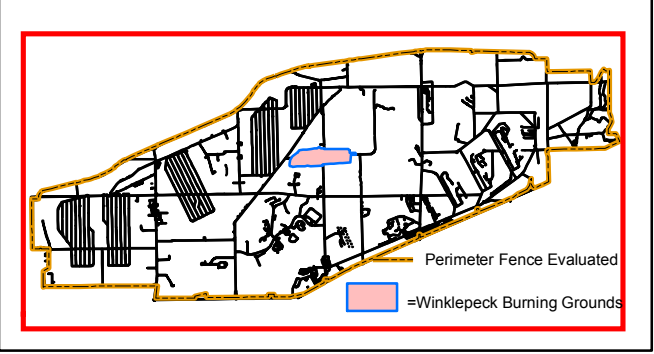
LUC Inspection of Perimeter Fence

- Opening in fence (2'≥) and/or fabric missing/damaged (4 locations)
- Repaired in FY2015 (25 Locations Total)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet Callout	Detail Sheet Repair Callout	Detail Sheet Repair in Progress Callout
-------------------------	--------------------------------	---

SEE ATTACHED SUMMARY TABLE AND DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

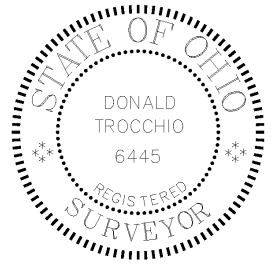
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



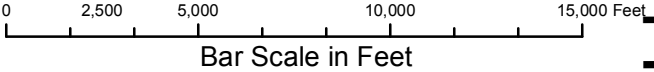
US Army Corps of
Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

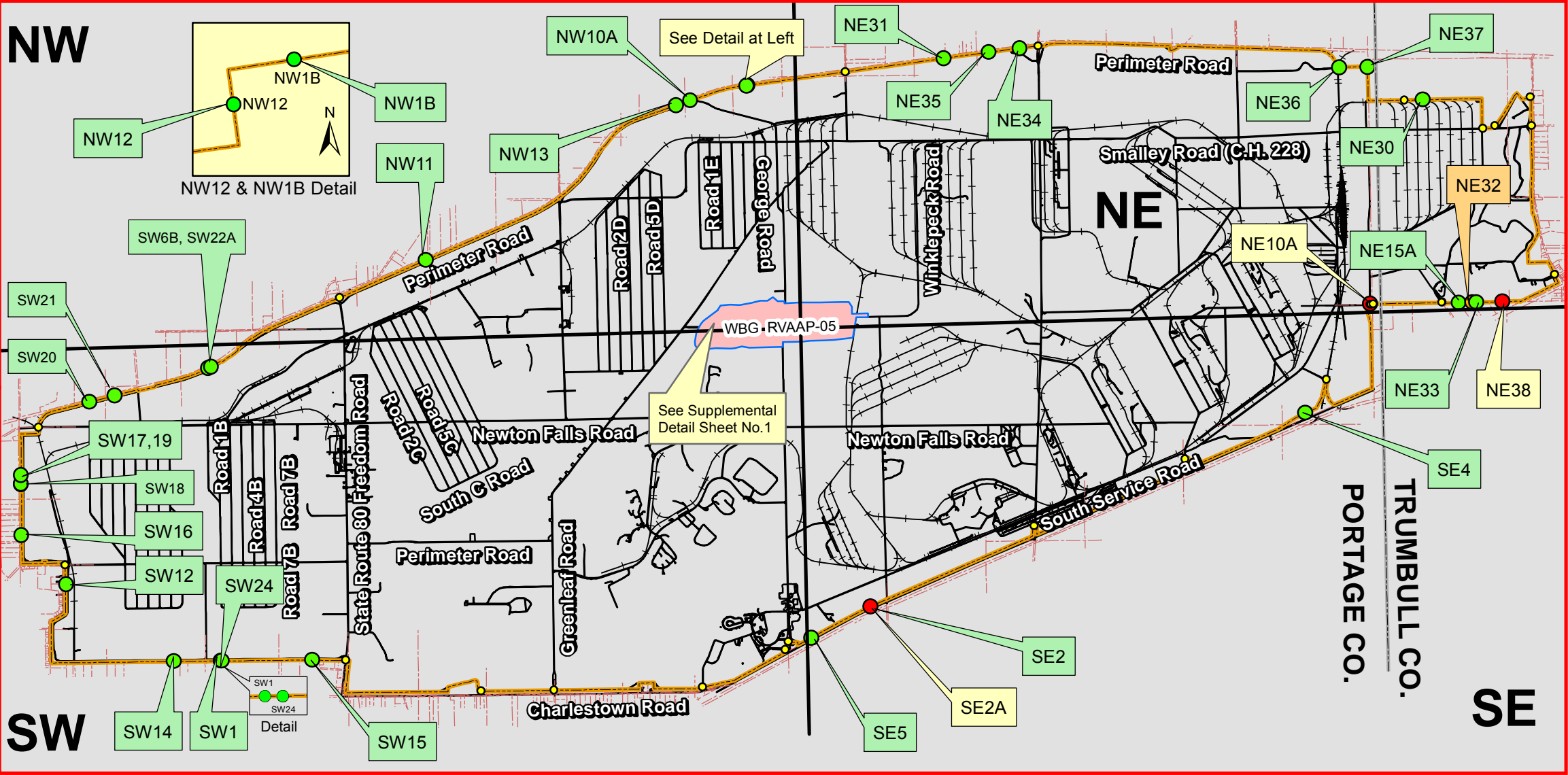


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

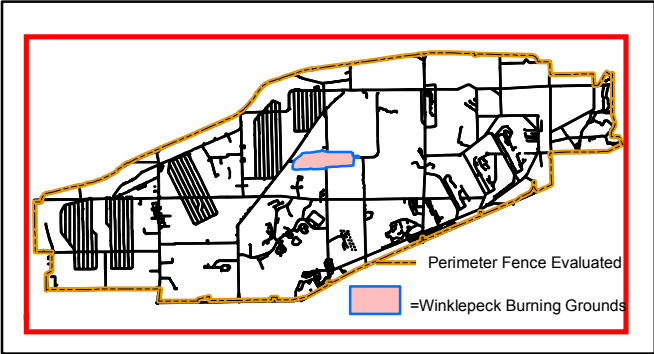
LUC Inspection of Perimeter Fence

- Opening in fence (2²) and/or fabric missing/damaged (3 locations)
- Repaired (29 Locations Total)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

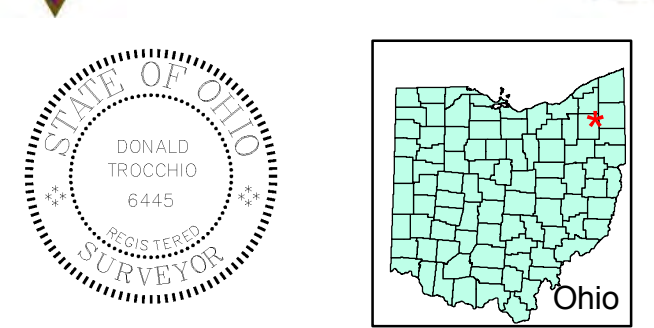
Detail Sheet Callout	Detail Sheet Repair Callout	Detail Sheet Repair in Progress Callout
-------------------------	--------------------------------	---

SEE ATTACHED SUMMARY TABLE AND DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Camp Ravenna
Joint Military Training Center



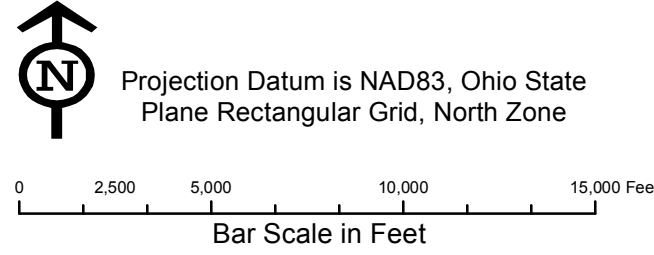
Portage & Trumbull County
LOCATOR MAP



Produced in August 2015 for:

US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



**VISTA
SCIENCES
CORPORATION**

Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

Appendix G

Final FY 2015 First Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds

REPORT DOCUMENTATION PAGE				<i>Form Approved OMB No. 0704-0188</i>	
<small>The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</small>					
PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.					
1. REPORT DATE (DD-MM-YYYY)		2. REPORT TYPE		3. DATES COVERED (From - To)	
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (Include area code)

Final
FY 2015 First Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



April 3, 2015

Final
FY 2015 First Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



April 3, 2015

LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
bgs	Below Ground Surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
EQM	Environmental Quality Management, Inc.
FWGWMPP	Facility-Wide Ground Water Monitoring Program Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
IRP	Installation Restoration Program
LUC	Land Use Control
MEC	Munitions and Explosives of Concern
MK	Mark
MRS	Munitions Response Site
MSG	Master Sergeant
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PS	Professional Surveyor
PMP	Property Management Plan
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
UXO	Unexploded Ordnance
WBG	Winklepeck Burning Grounds

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /
Former Ravenna Army Ammunition Plant (RVAAP)
Quarterly Land Use Control (LUC) Inspection Form
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on November 20, 24, 25 and 26, 2014 and December 1, 2, 3, 4, 15, 16 and 17, 2014.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective control and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark (MK) 19 Grenade Machinegun Range is prohibited with the following exceptions:
 - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
 - Ground surface repairs by authorized range personnel in support of authorized range activities; and
 - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
 1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
 2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.

Review of LUCs – Management/Effectiveness/Corrective Action

1. AOC Map

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on November 20, 2014 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

2. Camp Ravenna Perimeter Fence

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. In FY 2014 over 4500' of the perimeter fence at the west end of the facility was replaced and/or had barbed wire repairs completed. Also in FY 2014, a large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 was replaced. As observed during the FY 2015 1st quarter inspection, the fence has been repaired at 13 locations (See Attachment 1, Figure 1 Index Map and Summary Table, and associated Detail Sheets) since the previous quarterly inspection in July 2014. The Camp Ravenna Fence Repair Log presented in Attachment 2 lists repairs to the perimeter fence that were carried out after the July inspection.

3. Activities and Land Use

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on December 15, 2014 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

Winklepeck Burning Grounds/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. Additionally, mowing has occurred since the previous inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on December 15, 2014, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter are scheduled for May 2015.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on December 18, 2014 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide groundwater sampling event occurred in July 2014. The next scheduled FWGWMPP sampling event is currently scheduled for the end of January 2015.

4. Inspections and Reporting

a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

Quarterly Inspections have been completed for FY 2013 and FY 2014. This is the first Quarterly Inspection to be conducted for FY 2015. All Quarterly Inspections for FY 2013, FY 2014 and FY 2015 were conducted in accordance with the approved PMP dated August 2012.

b.) An annual report is required. Has the annual report been completed and submitted?

The Final FY 2014 Annual Report was submitted for stakeholder review on January 12, 2014.

5. Training (as applicable to WBG)

a.) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for WBG. Using units also receive an in-brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office. LUC training specific to WBG was held on February 12 and 26, 2014 for Camp Ravenna units/staff, on May 6, 2014 for EQM (contractor) and for additional Camp Ravenna staff on June 4, 2014.

b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

6. Description of any observed/noted LUC violation(s):

The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

7. Date of Notification of LUC violation (if applicable):

The Army was notified via e-mail on November 24, December 1, December 4 and December 16, 2014 of six new fence defects discovered during the 1st Quarter FY 2015 facility perimeter fence evaluation.

8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired since the last inspection. Additionally, a repair log is provided in Attachment 2 which documents repairs completed by Vista maintenance staff during the first quarter since the previous inspection in July 2014.

A large section of fence (posts and fabric) was replaced on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 in February 2014. In February 2014 over 4500' of barbed wire repair and/or perimeter fence installation at the west end of the facility were completed. These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

9. Additional Notes/Comments:

As requested by the Ohio EPA, WBG photographs taken during the LUC Inspection are included with this report (Attachment 2, Supplemental Detail Sheet No. 1).

Original Inspection Completed by:

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: December 23, 2014

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

**FY 2015 First Quarter
Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 1

Figure 1 Index Map

Summary Table

Detailed Quadrant Maps

Index Map

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 1st Qtr. FY 2015

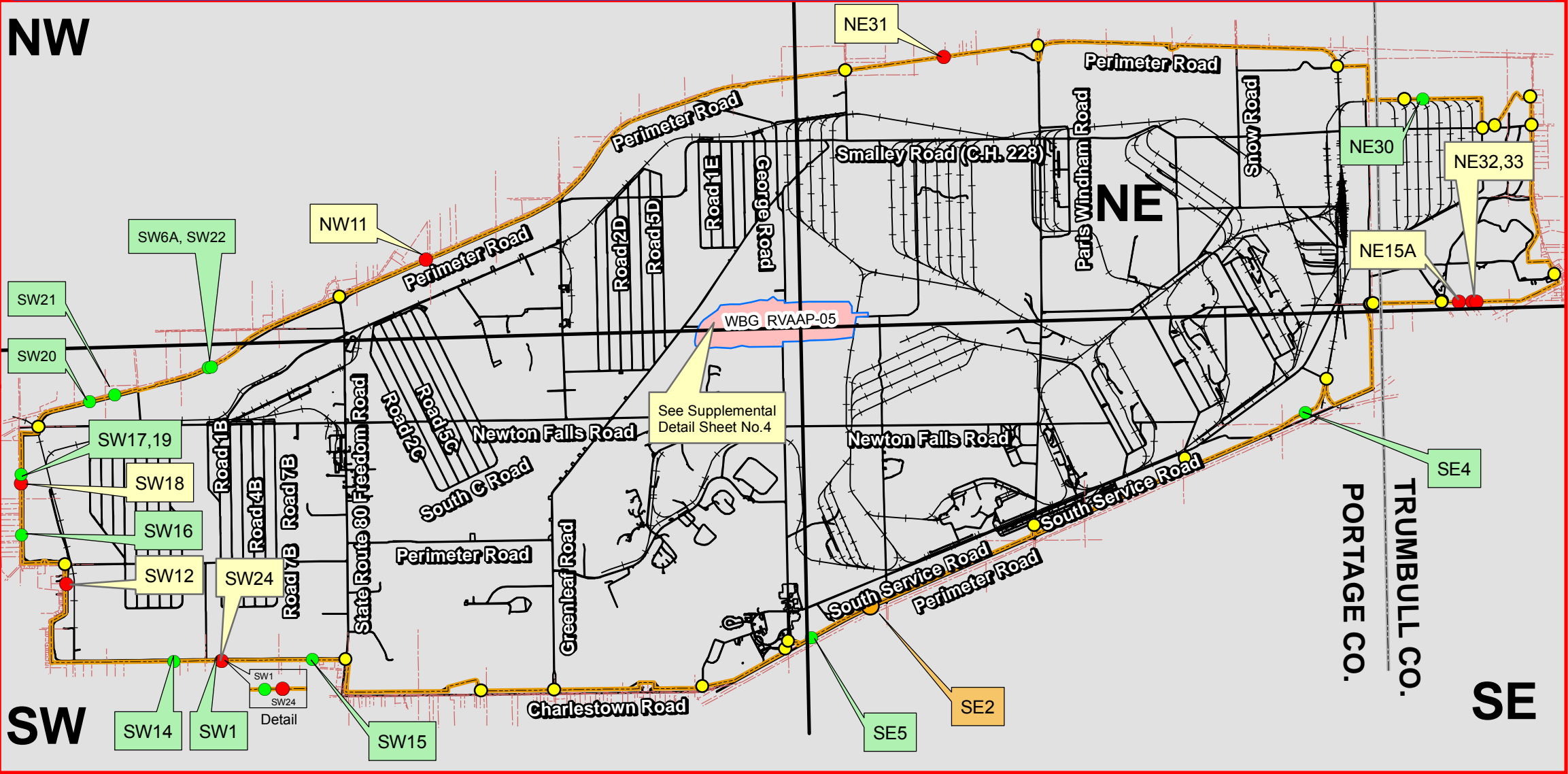


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION
SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

- Legend**
- LUC Inspection of Perimeter Fence**
- Opening in fence (2'±) and/or fabric missing/damaged (9 locations)
 - Repaired (13 Locations)
 - Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
 - Repair in progress (1 location)
 - Perimeter Fence Evaluated (29.8 miles)

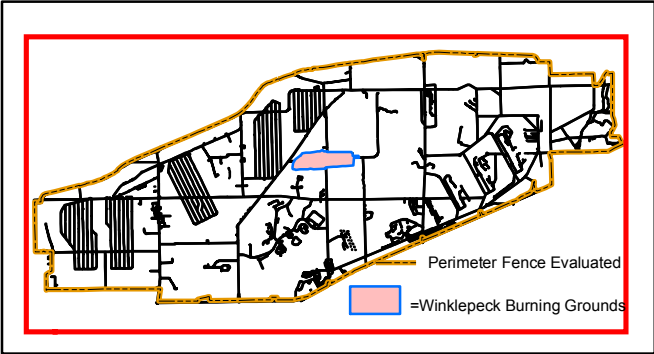
Detail Sheet
Callout

Detail Sheet
Repair Callout

Detail Sheet
Repair in Progress
Callout

SUMMARY TABLE							
Camp Ravenna Joint Military Training Center 1st Qtr FY2015 LUC Inspection				US Survey Ft			
Callout	Date	Path to Photo Location	Comments	Northing	Easting	Path to Repair Photo Location	Callout
NW 11	11/26/2014	c:\My Documents\My ArcPad\P1010484.JPG	old abandoned rr utility pole leaning over top of fence	564883	2343968		NW 11
SE02	12/16/2014	c:\My Documents\My ArcPad\P1010427.JPG	repair in progress	551498	2361141		SE02
SW12	11/18/2013	c:\My Documents\My ArcPad\P1010323.JPG	storm washout about 2 sections inlet needs cleared	552357	2330086		SW12
SW18	7/15/2014	c:\My Documents\My ArcPad\P1010412.JPG	hole under fence at culvert outlet	556241	2328345		SW18
SW24	11/20/2014	c:\My Documents\My ArcPad\P1010447.JPG	poacher hole	549402	2336086		SW24
NE15A	12/15/2014	c:\My Documents\My ArcPad\P1010530.JPG	poacher hole (repeat)	563240	2383872		NE15A
NE31	12/3/2014	c:\My Documents\My ArcPad\P1010522.JPG	utility pole fallen on top of fence	572718	2363965		NE31
NE32	12/15/2014	c:\My Documents\My ArcPad\P1010531.JPG	12in tree has fallen on to the fence	563254	2384389		NE32
NE33	12/15/2014	c:\My Documents\My ArcPad\P1010532.JPG	8in tree has fallen on to the fence	563257	2384533		NE33
NE30	7/21/2014	c:\My Documents\My ArcPad\P1010425.JPG	poacher hole	571083	2382464	c:\My Documents\My ArcPad\P1010523.JPG	NE30
SE04	11/25/2013	c:\My Documents\My ArcPad\P1010351.JPG	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933	c:\My Documents\My ArcPad\P1010533.JPG	SE04
SE05	04/22/2014	c:\My Documents\My ArcPad\P1010402.JPG	washout below undamaged fence	550299	2358851	c:\My Documents\My ArcPad\P1010537.JPG	SE05
SW01	02/07/2013	c:\My Documents\My ArcPad\P1010322.JPG	bottom open	549403	2336048	c:\My Documents\My ArcPad\P1010448.JPG	SW01
SW06A	7/16/2014	c:\My Documents\My ArcPad\P1010416.JPG	poacher hole in fence (repeat)	560708	2335572	c:\My Documents\My ArcPad\P1010472.JPG	SW06A
SW14	04/14/2014	c:\My Documents\My ArcPad\P1010379.JPG	poacher hole in fence	549386	2334237	c:\My Documents\My ArcPad\P1010450.JPG	SW14
SW15	7/15/2014	c:\My Documents\My ArcPad\P1010404.JPG	tree blow down	549438	2339580	c:\My Documents\My ArcPad\P1010445.JPG	SW15
SW16	7/15/2014	c:\My Documents\My ArcPad\P1010408.JPG	tree blow down/damaged fence	554267	2328362	c:\My Documents\My ArcPad\P1010453.JPG	SW16
SW17	7/15/2014	c:\My Documents\My ArcPad\P1010409.JPG	tree blow down/fence top damaged	556228	2328345	c:\My Documents\My ArcPad\P1010462.JPG	SW17
SW19	7/15/2014	c:\My Documents\My ArcPad\P1010413.JPG	tree blow down/top fence damaged	556581	2328342	c:\My Documents\My ArcPad\P1010464.JPG	SW19
SW20	7/15/2014	c:\My Documents\My ArcPad\P1010414.JPG	hole in bottom of fence below sign	559398	2330974	c:\My Documents\My ArcPad\P1010470.JPG	SW20
SW21	7/15/2014	c:\My Documents\My ArcPad\P1010415.JPG	hole at bottom of fence	559659	2331945	c:\My Documents\My ArcPad\P1010471.JPG	SW21
SW22	7/16/2014	c:\My Documents\My ArcPad\P1010417.JPG	poacher hole	560762	2335683	c:\My Documents\My ArcPad\P1010473.JPG	SW22
REPAIRED 1ST QTR							

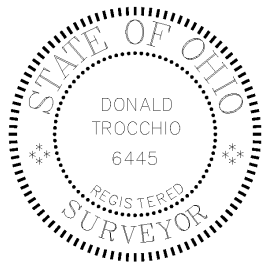
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

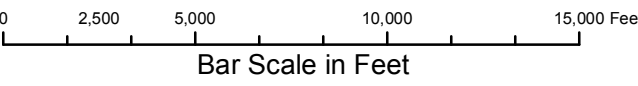


**US Army Corps of
Engineers**
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

Summary Table

SUMMARY TABLE

Camp Ravenna Joint Military Training Center 1st Qtr FY2015 LUC Inspection

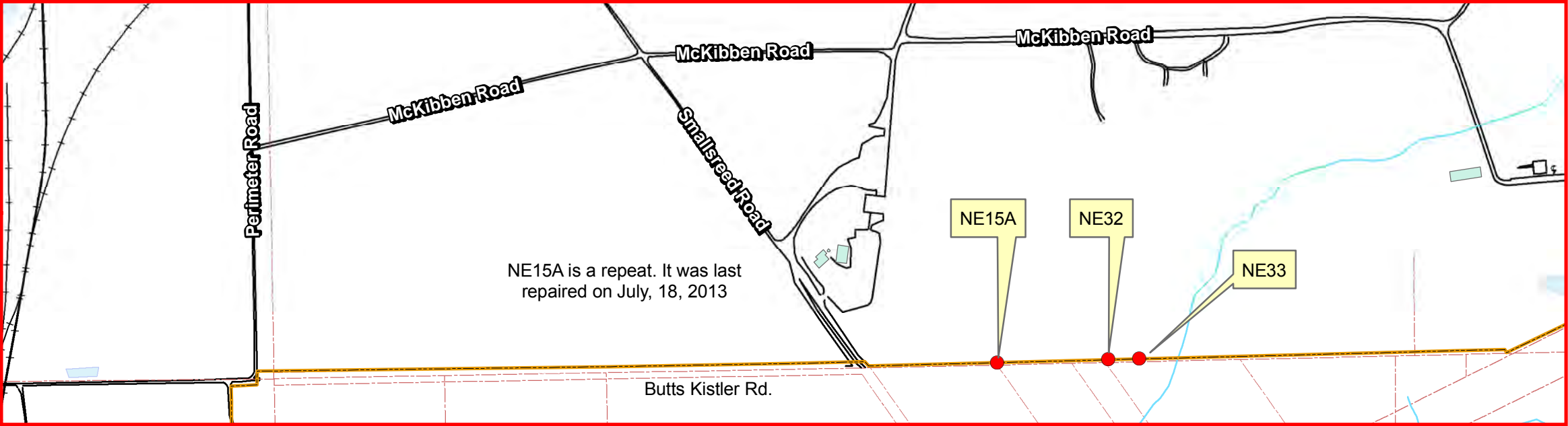
US Survey Ft

Callout	Date	Path to Photo Location	Comments	Northing	Easting	Path to Repair Photo Location	Callout
NW11	11/26/2014	c:\My Documents\My ArcPad\P1010484.JPG	old abandoned rr utility pole leaning over top of fence	564883	2343968		NW11
SE02	12/16/2014	c:\My Documents\My ArcPad\P1010427.JPG	repair in progress	551498	2361141		SE02
SW12	11/18/2013	c:\My Documents\My ArcPad\P1010323.JPG	storm washout about 2 sections inlet needs cleared	552357	2330086		SW12
SW18	7/15/2014	c:\My Documents\My ArcPad\P1010412.JPG	hole under fence at culvert outlet	556241	2328345		SW18
SW24	11/20/2014	c:\My Documents\My ArcPad\P1010447.JPG	poacher hole	549402	2336086		SW24
NE15A	12/15/2014	c:\My Documents\My ArcPad\P1010530.JPG	poacher hole (repeat)	563240	2383872		NE15A
NE31	12/3/2014	c:\My Documents\My ArcPad\P1010522.JPG	utility pole fallen on top of fence	572718	2363965		NE31
NE32	12/15/2014	c:\My Documents\My ArcPad\P1010531.JPG	12in tree has fallen on to the fence	563254	2384389		NE32
NE33	12/15/2014	c:\My Documents\My ArcPad\P1010532.JPG	8in tree has fallen on to the fence	563257	2384533		NE33
NE30	7/21/2014	c:\My Documents\My ArcPad\P1010425.JPG	poacher hole	571083	2382464	c:\My Documents\My ArcPad\P1010523.JPG	NE30
SE04	11/25/2013	c:\My Documents\My ArcPad\P1010351.JPG	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933	c:\My Documents\My ArcPad\P1010533.JPG	SE04
SE05	04/22/2014	c:\My Documents\My ArcPad\P1010402.JPG	washout below undamaged fence	550299	2358851	c:\My Documents\My ArcPad\P1010537.JPG	SE05
SW01	02/07/2013	c:\My Documents\My ArcPad\P1010322.JPG	bottom open	549403	2336048	c:\My Documents\My ArcPad\P1010448.JPG	SW01
SW06A	7/16/2014	c:\My Documents\My ArcPad\P1010416.JPG	poacher hole in fence (repeat)	560708	2335572	c:\My Documents\My ArcPad\P1010472.JPG	SW06A
SW14	04/14/2014	c:\My Documents\My ArcPad\P1010379.JPG	poacher hole in fence	549386	2334237	c:\My Documents\My ArcPad\P1010450.JPG	SW14
SW15	7/15/2014	c:\My Documents\My ArcPad\P1010404.JPG	tree blow down	549438	2339580	c:\My Documents\My ArcPad\P1010445.JPG	SW15
SW16	7/15/2014	c:\My Documents\My ArcPad\P1010408.JPG	tree blow down/damaged fence	554267	2328362	c:\My Documents\My ArcPad\P1010453.JPG	SW16
SW17	7/15/2014	c:\My Documents\My ArcPad\P1010409.JPG	tree blow down/fence top damaged	556228	2328345	c:\My Documents\My ArcPad\P1010462.JPG	SW17
SW19	7/15/2014	c:\My Documents\My ArcPad\P1010413.JPG	tree blow down/top fence damaged	556581	2328342	c:\My Documents\My ArcPad\P1010464.JPG	SW19
SW20	7/15/2014	c:\My Documents\My ArcPad\P1010414.JPG	hole in bottom of fence below sign	559398	2330974	c:\My Documents\My ArcPad\P1010470.JPG	SW20
SW21	7/15/2014	c:\My Documents\My ArcPad\P1010415.JPG	hole at bottom of fence	559659	2331945	c:\My Documents\My ArcPad\P1010471.JPG	SW21
SW22	7/16/2014	c:\My Documents\My ArcPad\P1010417.JPG	poacher hole	560762	2335683	c:\My Documents\My ArcPad\P1010473.JPG	SW22

REPAIRED 1ST QTR

NE (Northeast) Quadrant

DETAIL SHEET FOR NE15A



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

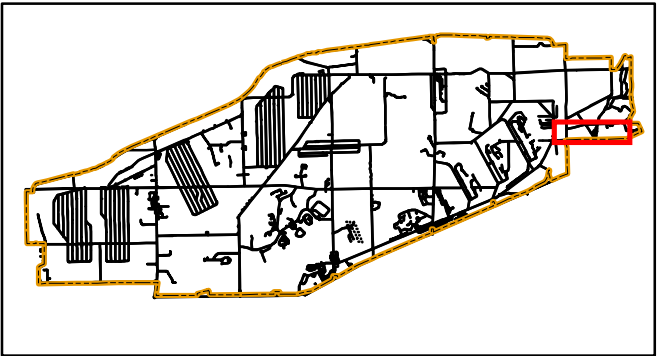
PHOTO NE15A discovered 12/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
 - Repaired
 - Perimeter Fence Evaluated
- REPAIR CALLOUT



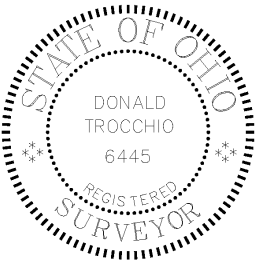
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



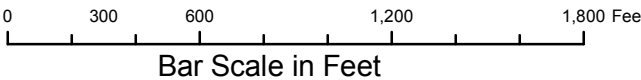
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

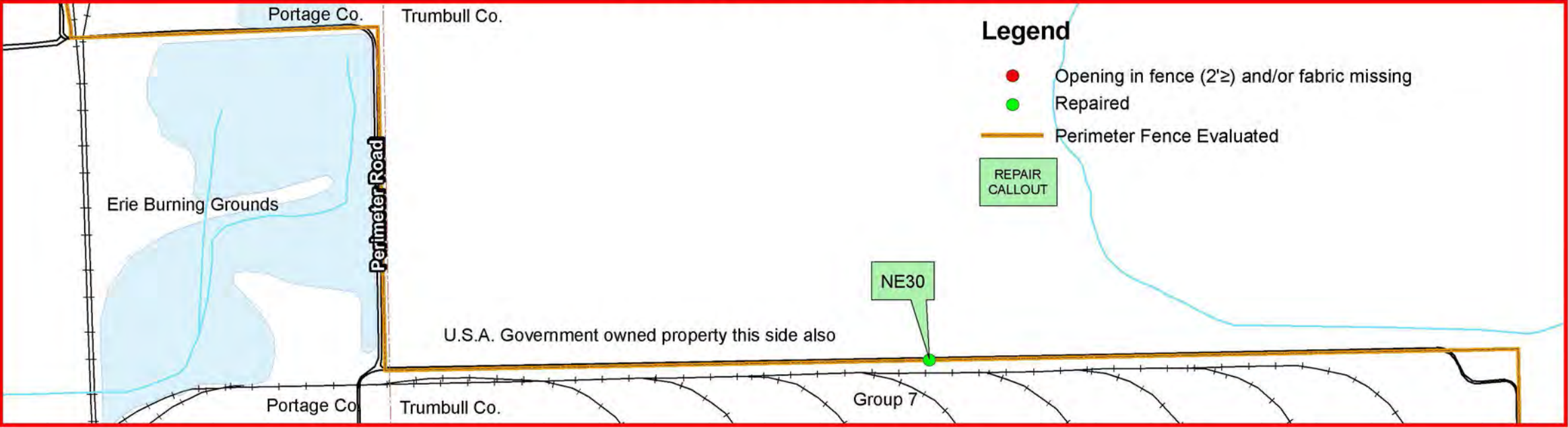


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE15A

DETAIL SHEET FOR NE30



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE30 repaired 12/04/2014



PHOTO NE30 discovered 07/21/2014



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



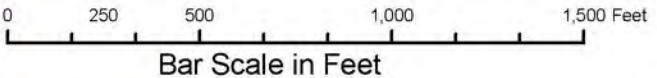
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

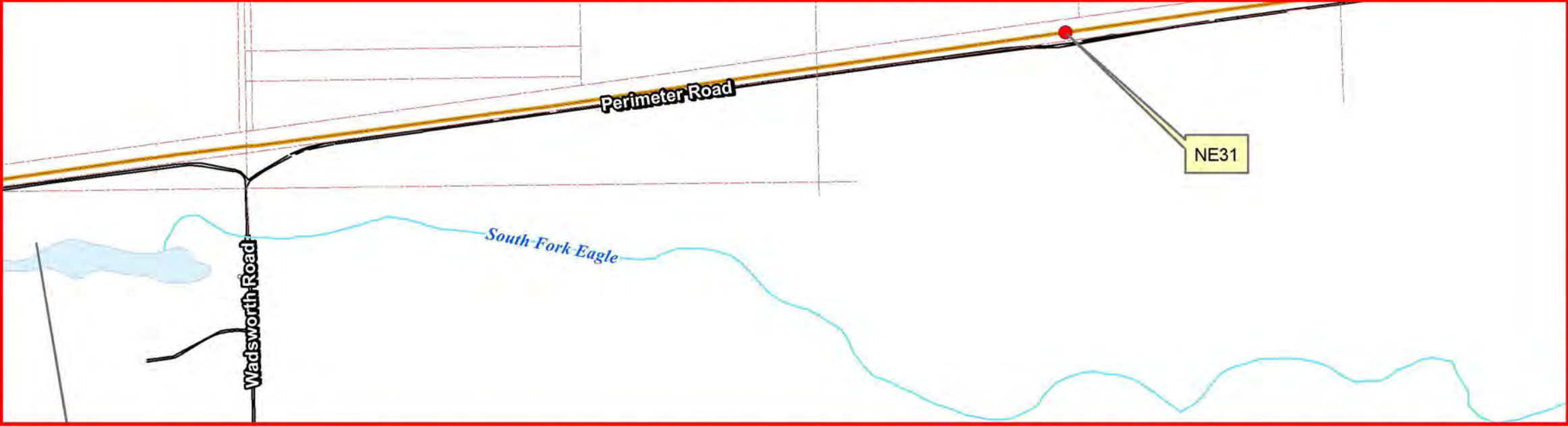


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE30

DETAIL SHEET FOR NE31



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE31 discovered 12/03/2014

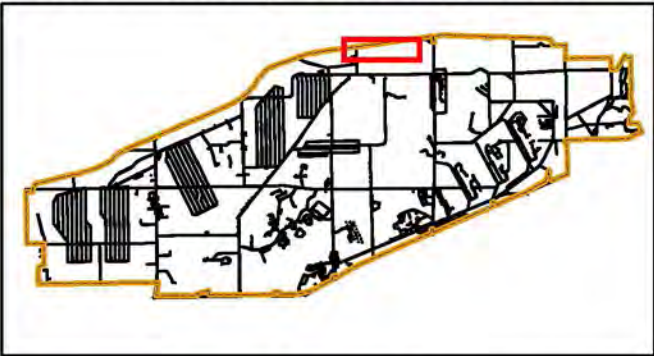
Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated

REPAIR
CALLOUT



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



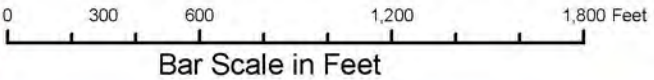
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

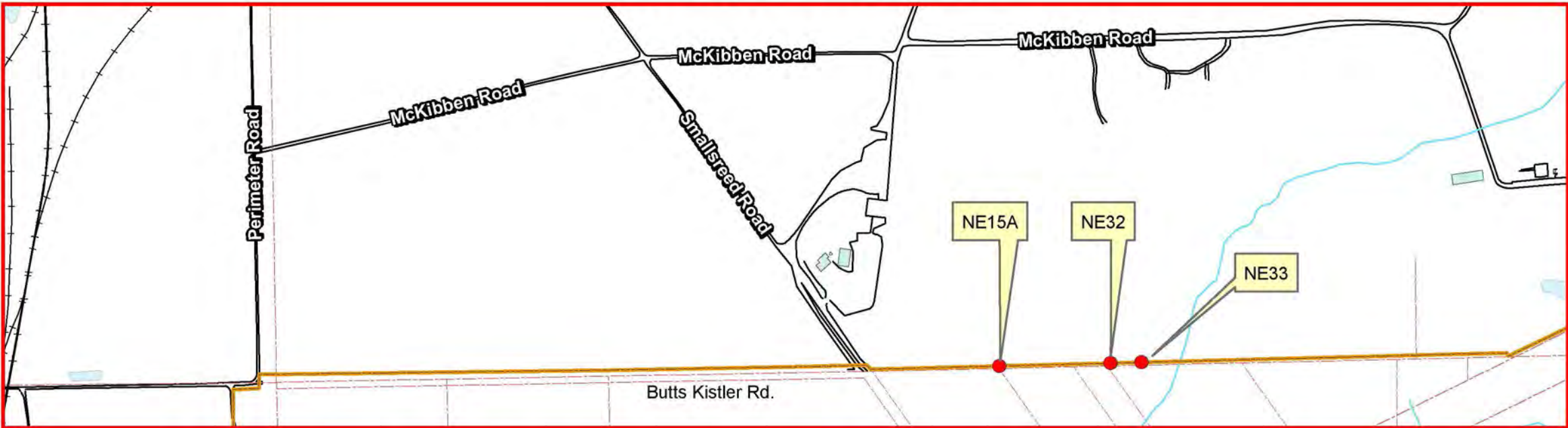


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE31

DETAIL SHEET FOR NE32



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

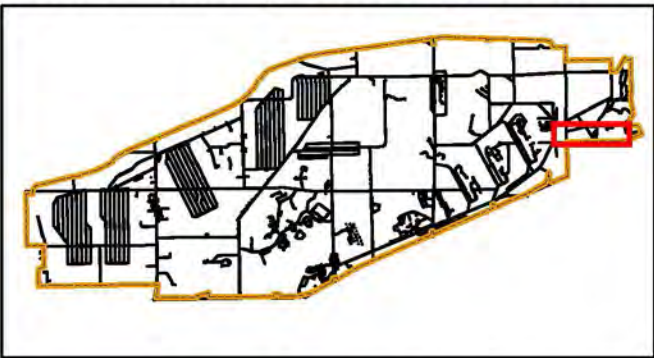
PHOTO NE32 discovered 12/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



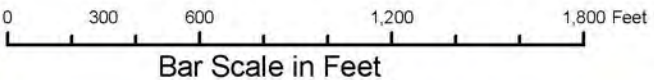
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

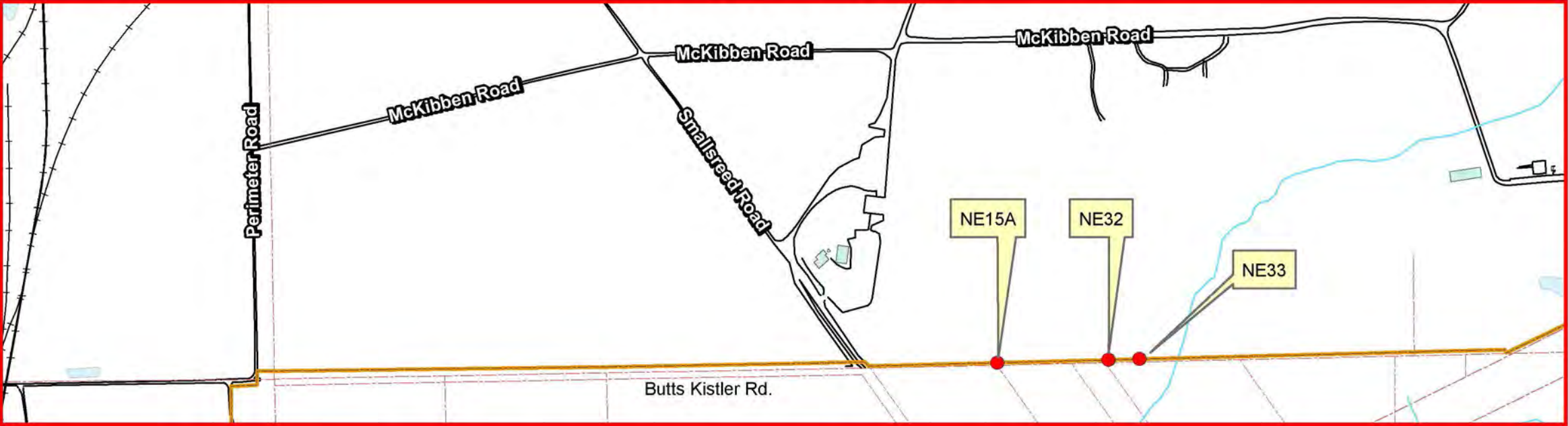


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE32

DETAIL SHEET FOR NE33



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

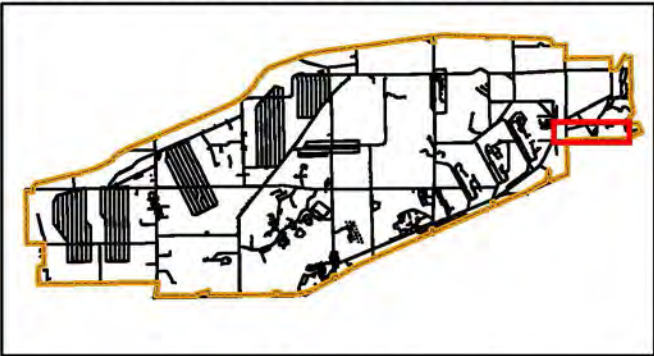
PHOTO NE33 discovered 12/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated
- REPAIR CALLOUT



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



US Army Corps of
Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet



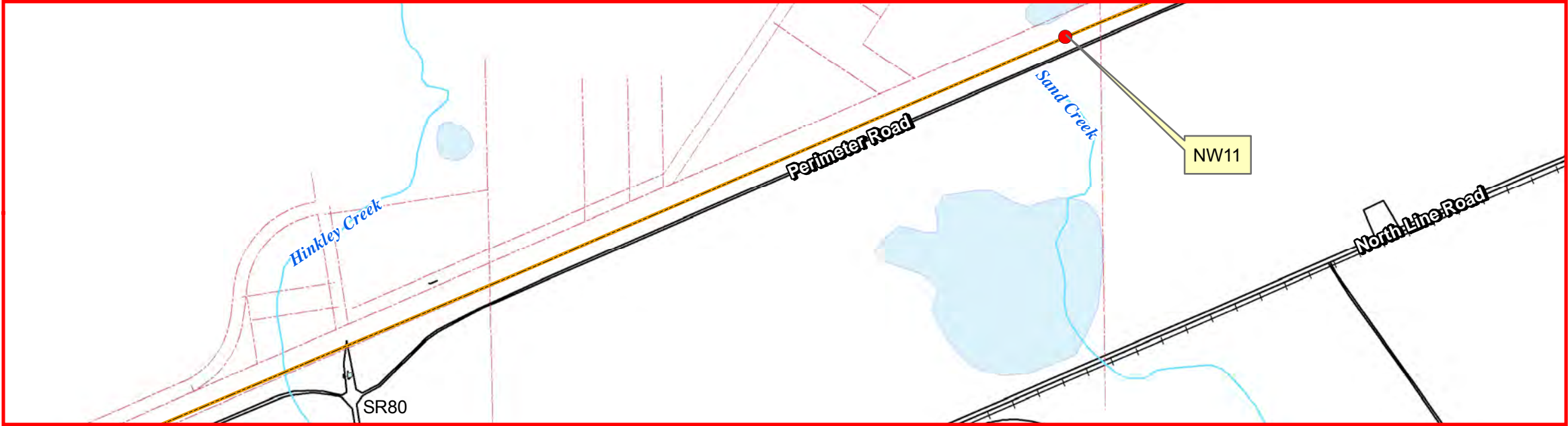
Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE33

NW (Northwest) Quadrant

DETAIL SHEET FOR NW11



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW11 discovered 11/26/2014

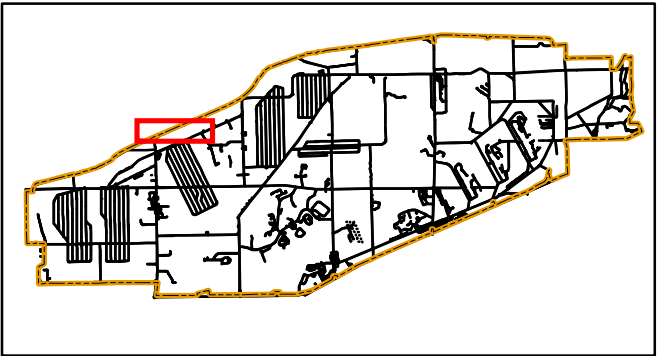
Legend

- Opening in fence (2'±) and/or fabric missing/damaged
- Repaired
- Perimeter Fence Evaluated

REPAIR
CALLOUT



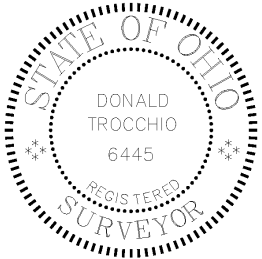
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet



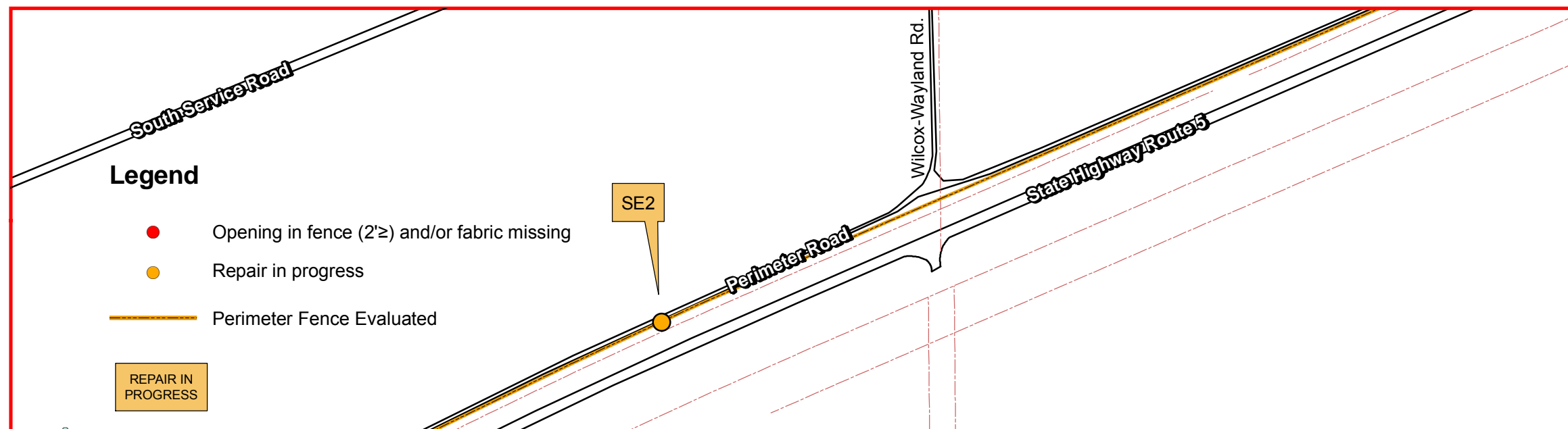
Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW11

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

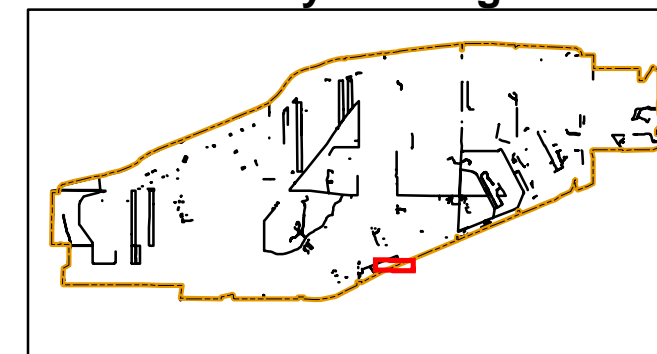
PHOTO SE2 repairs in progress 12/16/2014



PHOTO SE2 discovered 07/18/2013



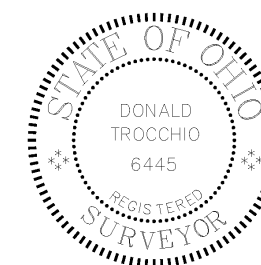
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



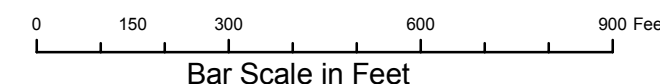
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



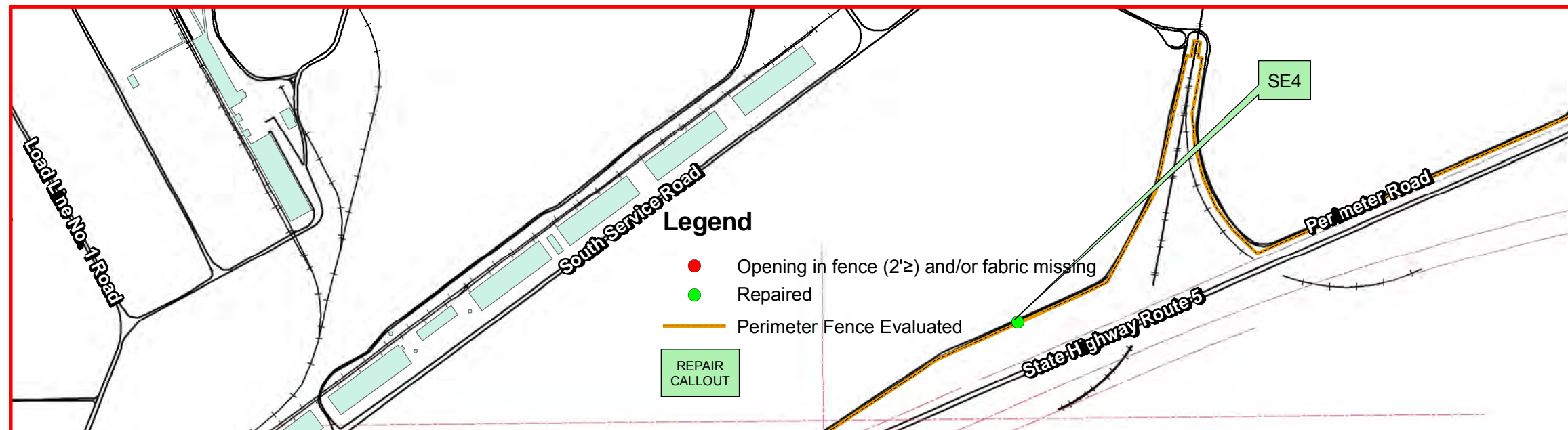
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE4



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

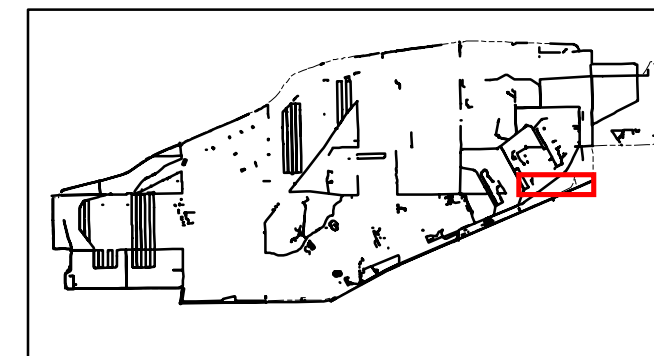
PHOTO SE4 repaired 12/16/2014



PHOTO SE4 discovered 02/27/2014



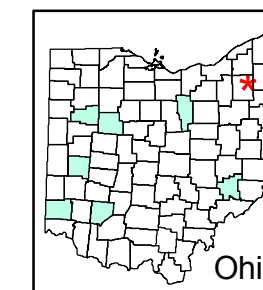
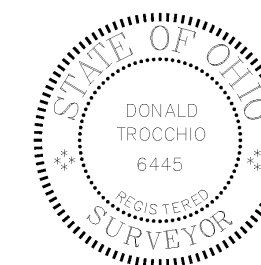
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



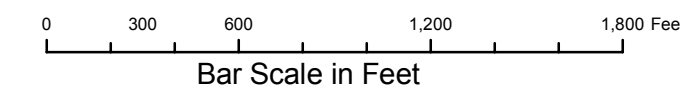
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



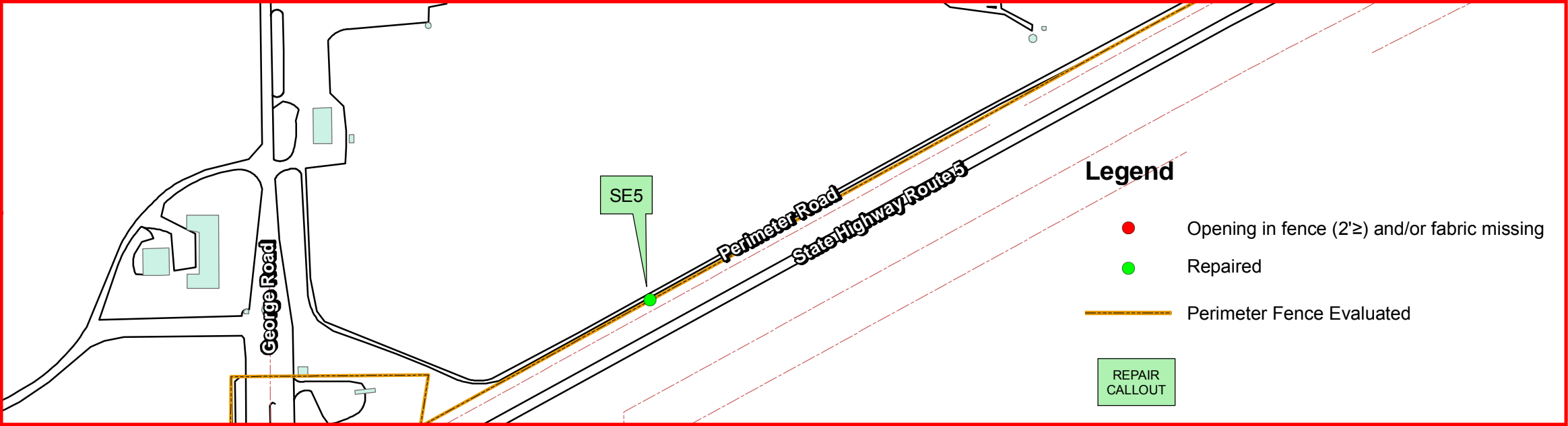
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



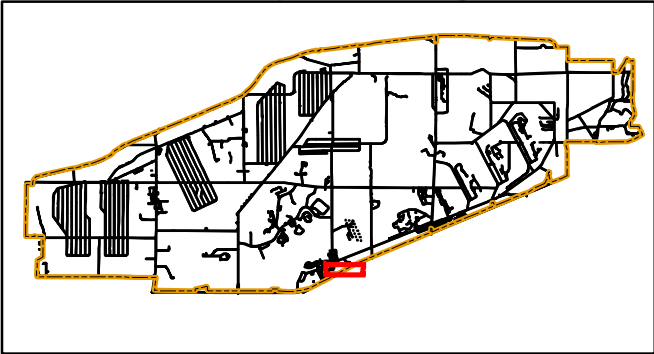
Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE5



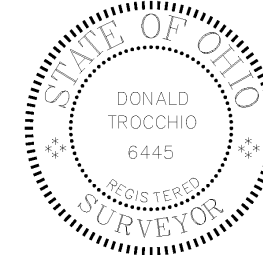
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SE5 repaired 12/16/2014



PHOTO SE5 discovered 04/22/2014



Produced in December 2014 for:



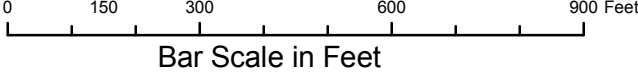
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

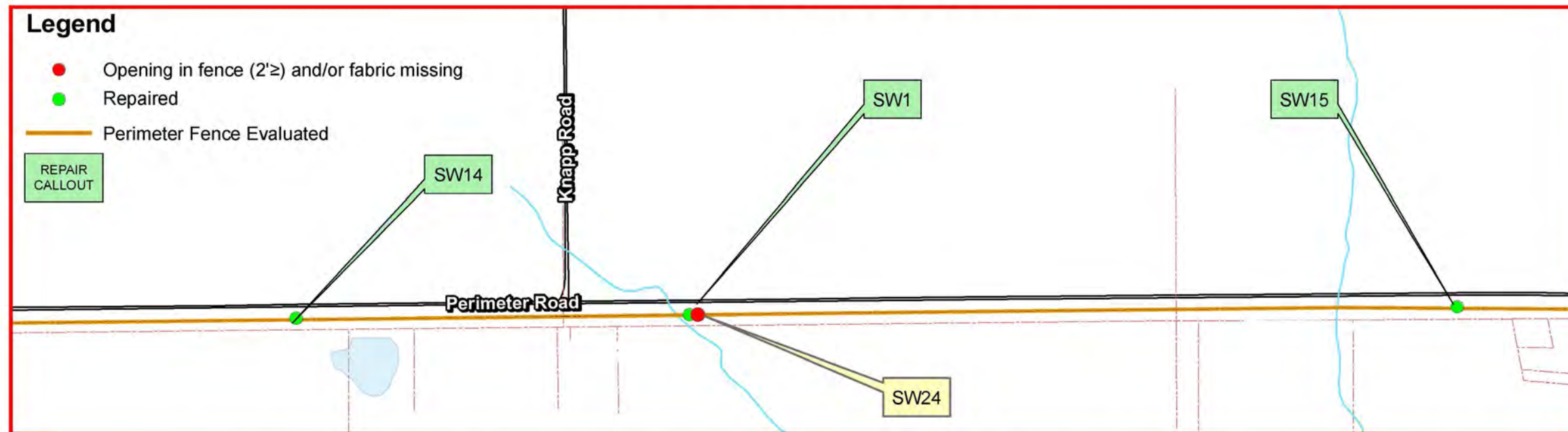


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don TROCCHIO, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE5

SW (Southwest) Quadrant

DETAIL SHEET FOR SW1



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

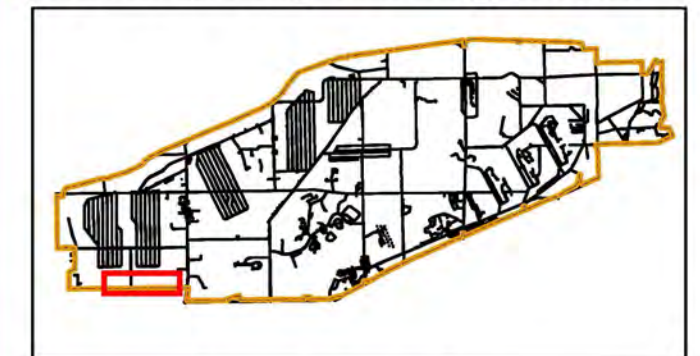
PHOTO SW1 repaired 11/20/2014



PHOTO SW1 discovered 02/07/2013



Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in November 2014 for:



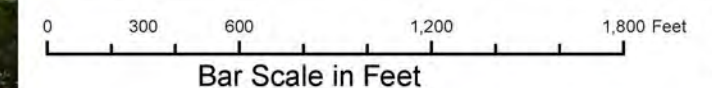
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



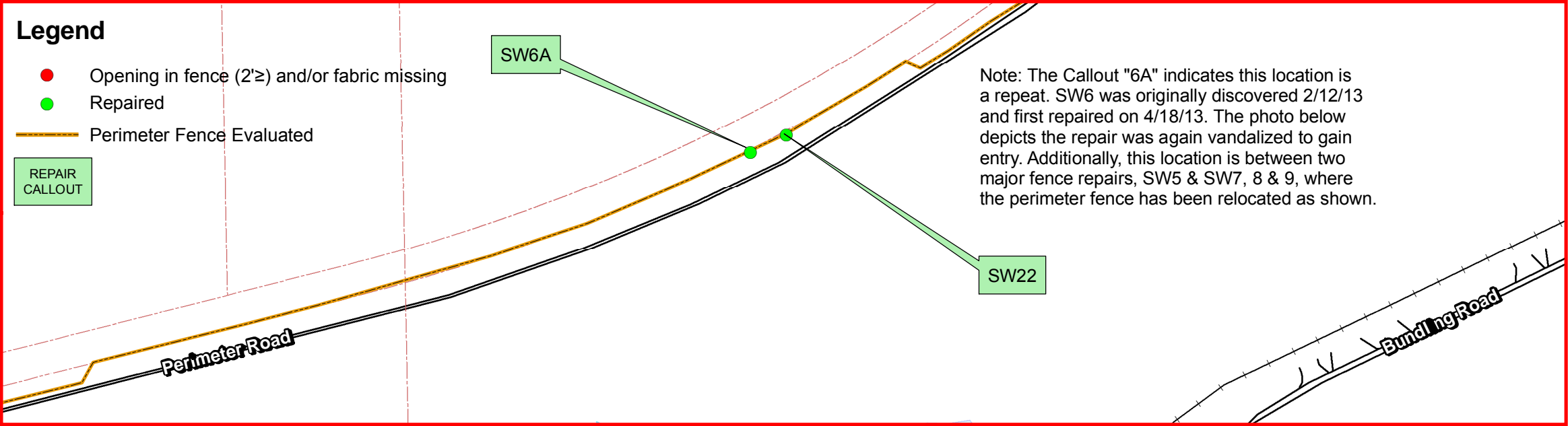
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW1

DETAIL SHEET FOR SW6A



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

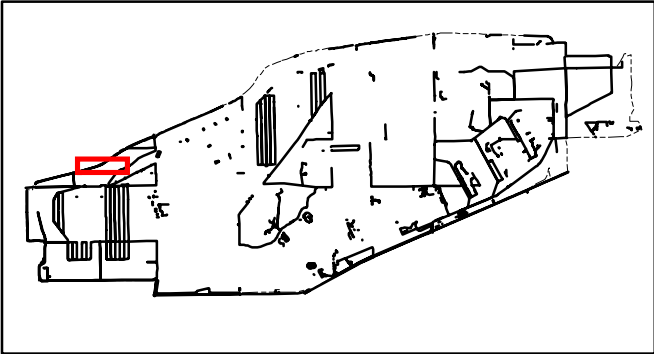
PHOTO SW6A repaired 11/25/2014



PHOTO SW6A discovered 07/16/2014



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



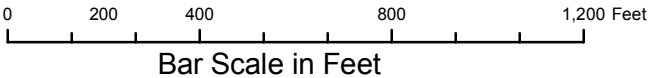
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



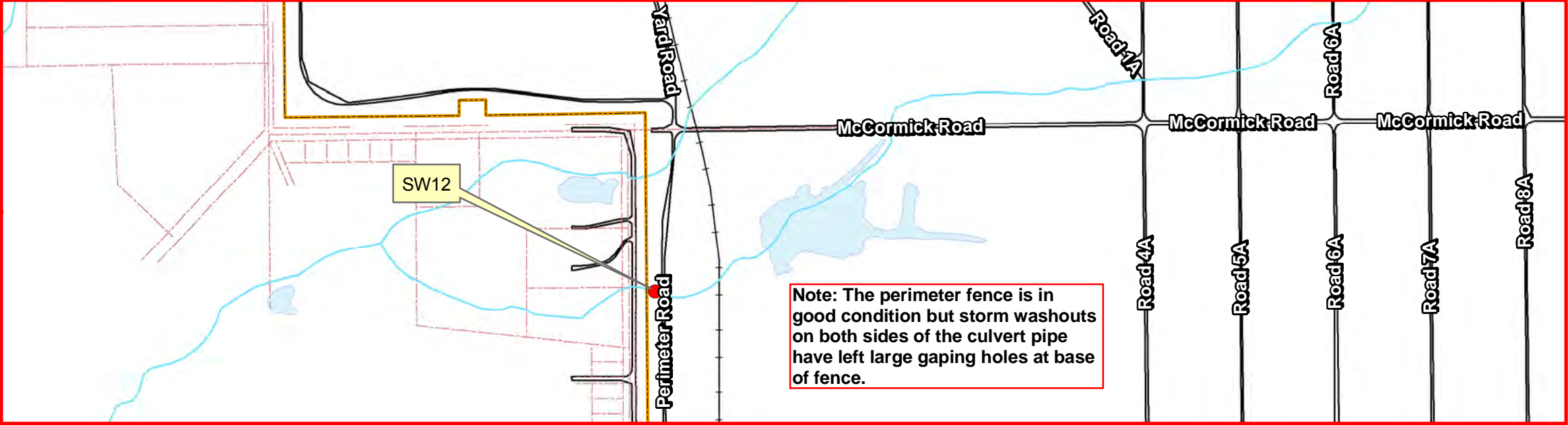
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW12 discovered 11/18/2013

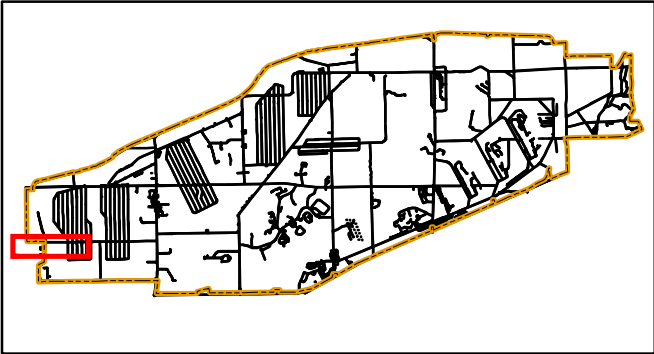
Legend

- Opening in fence (2'≥) and/or fabric missing
- Repaired
- Perimeter Fence Evaluated

REPAIR
CALLOUT



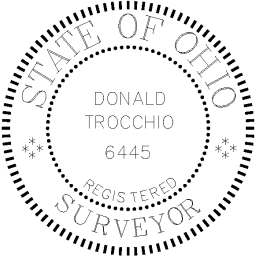
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in November 2014 for:



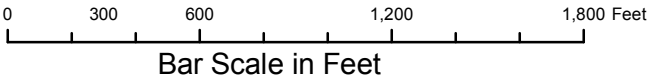
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

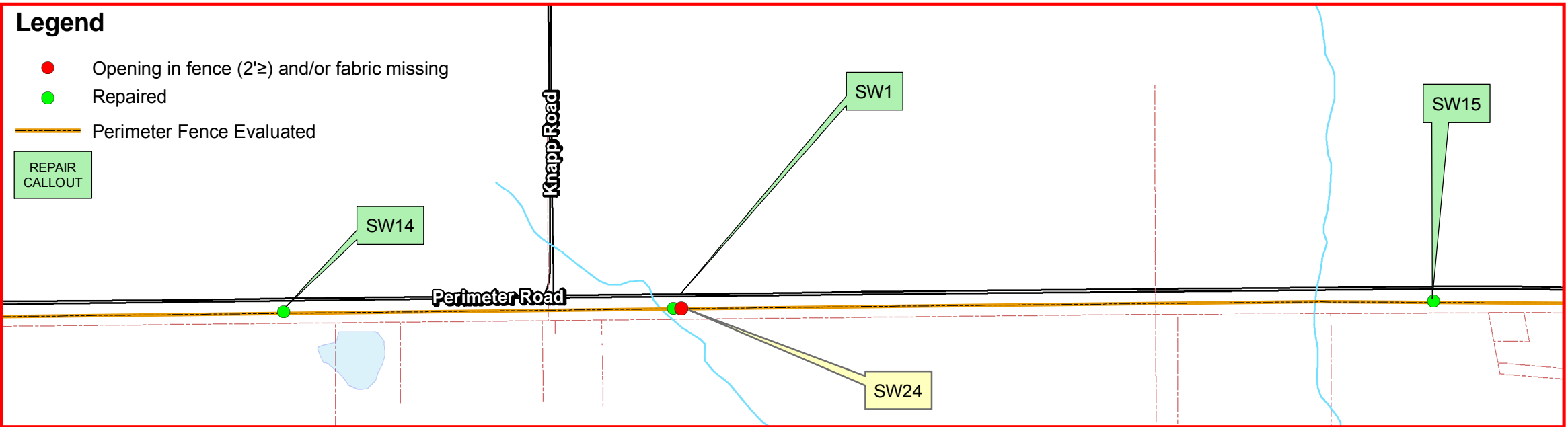


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW14



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

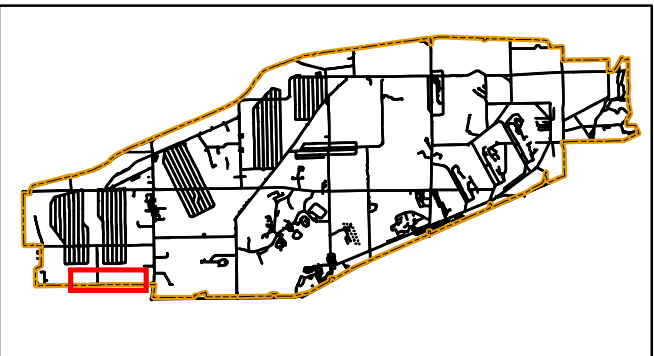
PHOTO SW14 repaired 11/20/2014



PHOTO SW14 discovered 04/14/2014



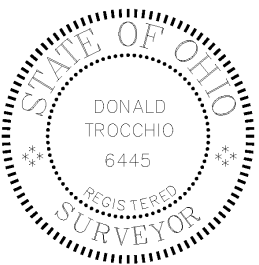
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in November 2014 for:



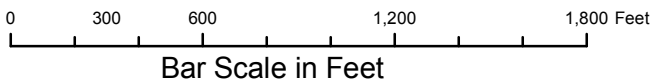
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

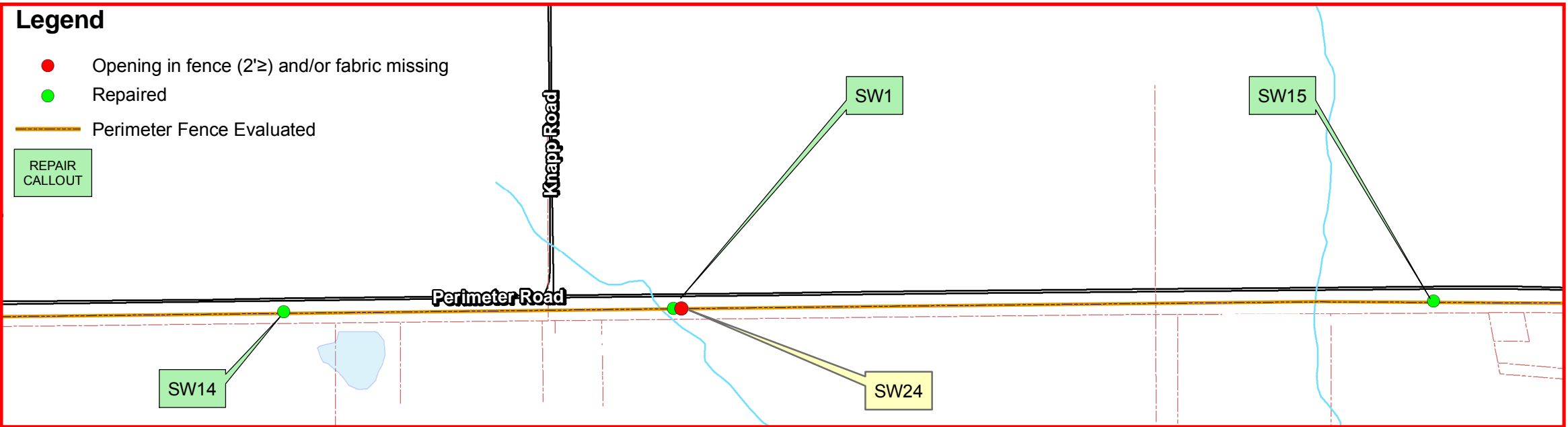


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW14

DETAIL SHEET FOR SW15



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

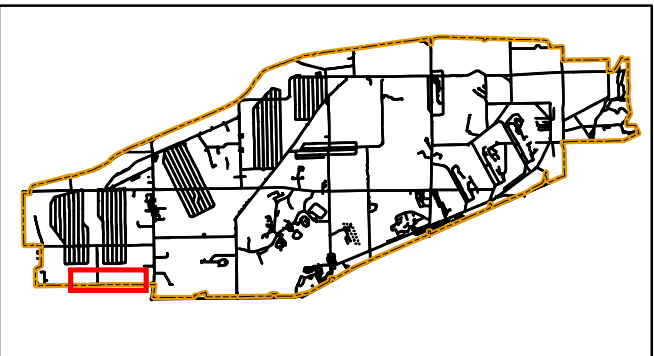
PHOTO SW15 repaired 11/20/2014



PHOTO SW15 discovered 07/15/2014



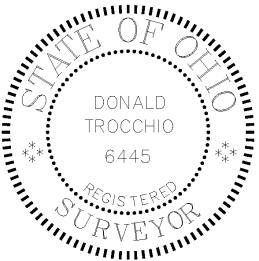
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in November 2014 for:



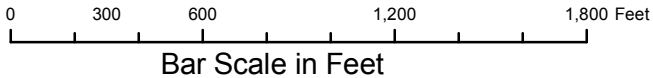
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

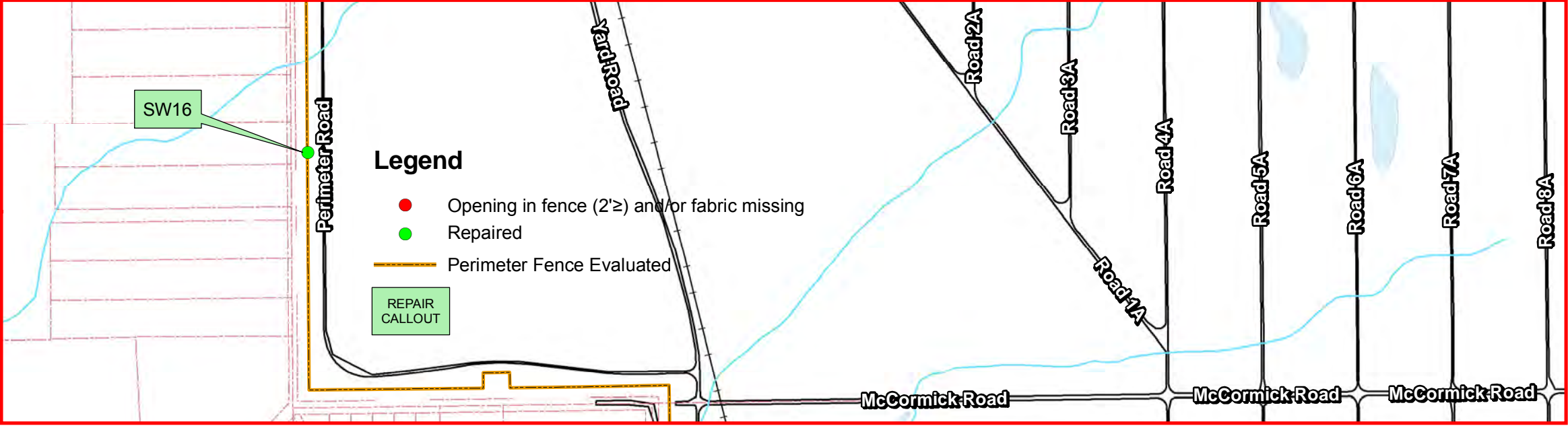


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

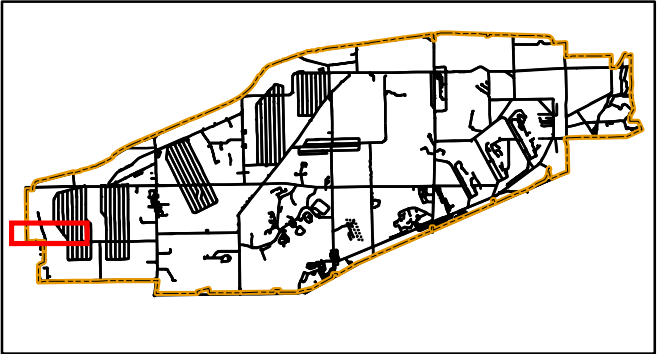
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW15

DETAIL SHEET FOR SW16



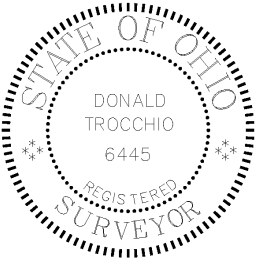
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW16 repaired 11/24/2014



PHOTO SW16 discovered 07/15/2014



Produced in November 2014 for:



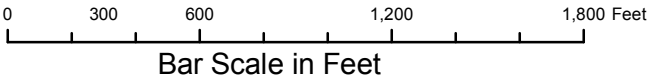
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

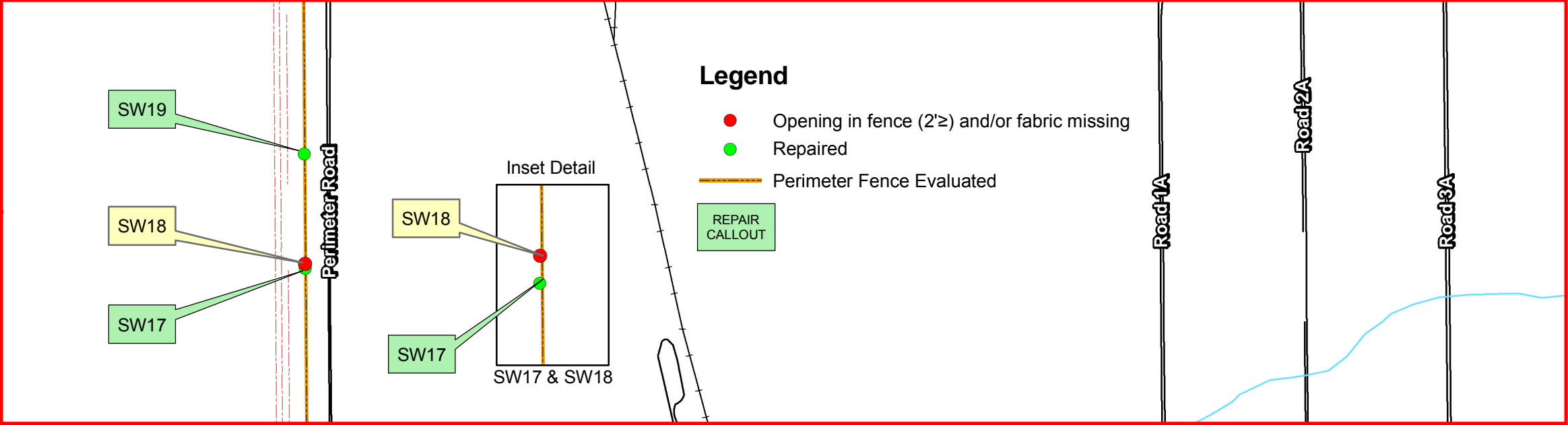


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW16

DETAIL SHEET FOR SW17



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

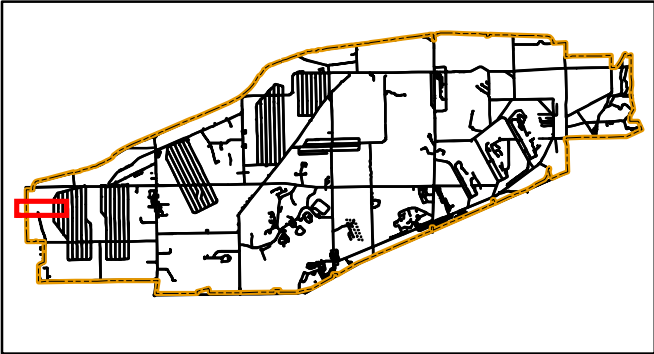
PHOTO SW17 repaired 11/25/2014



PHOTO SW17 discovered 07/15/2014



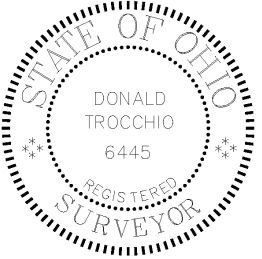
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

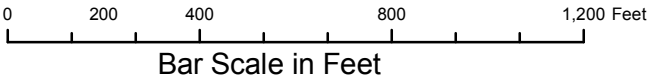


US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



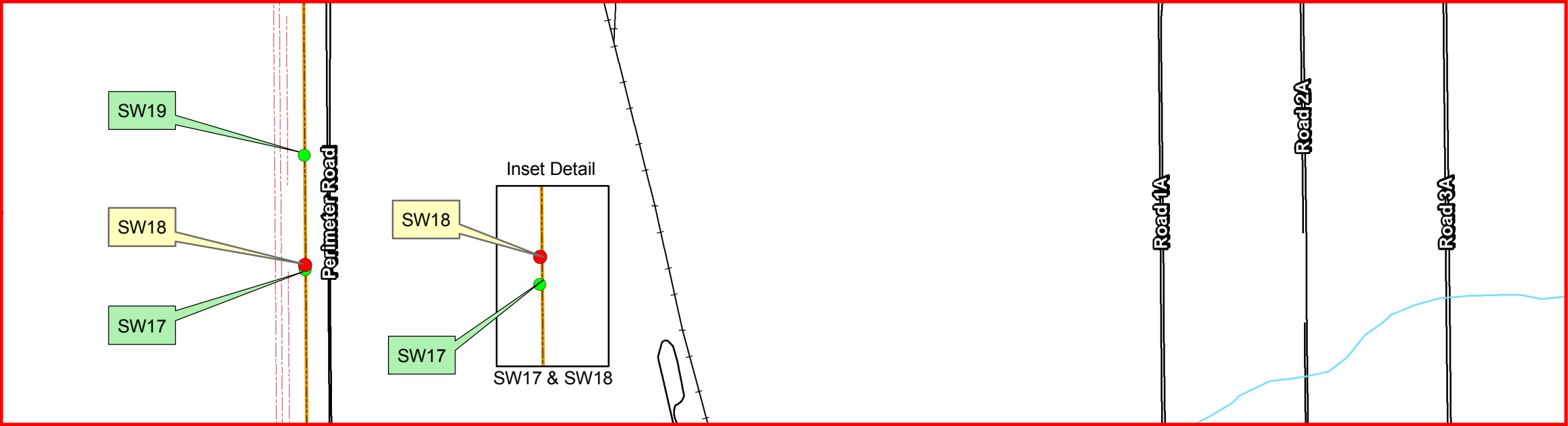
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW17

DETAIL SHEET FOR SW18



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

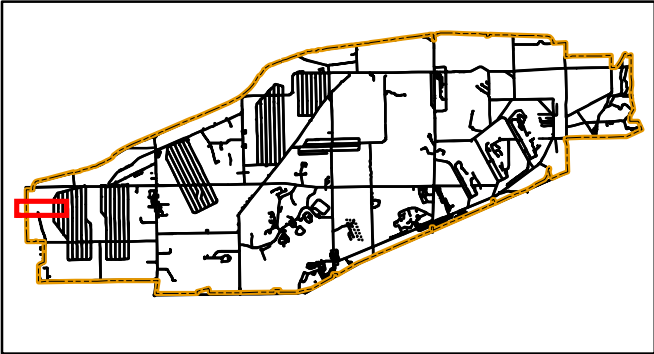
PHOTO SW18 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated



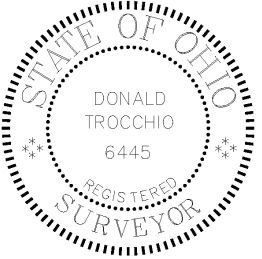
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:



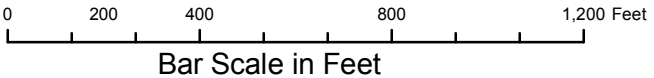
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

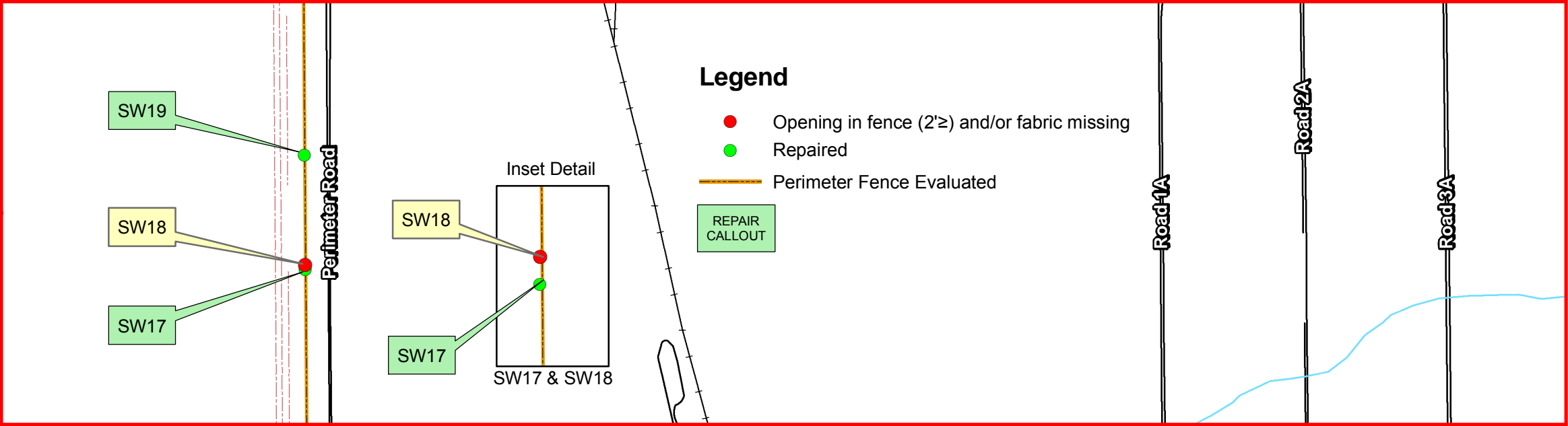


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

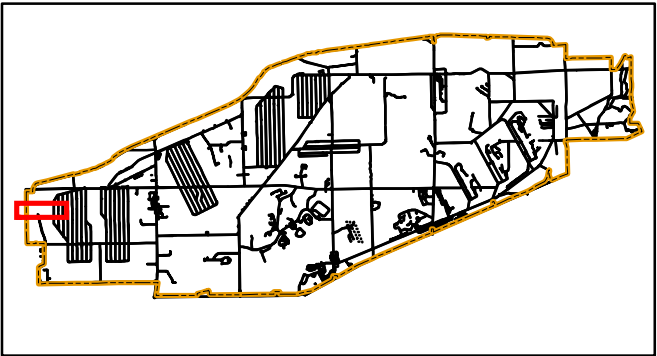
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW18

DETAIL SHEET FOR SW19



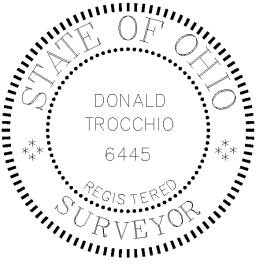
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW19 repaired 11/25/2014



PHOTO SW19 discovered 07/15/2014



Produced in December 2014 for:



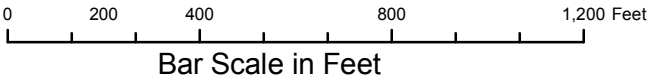
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

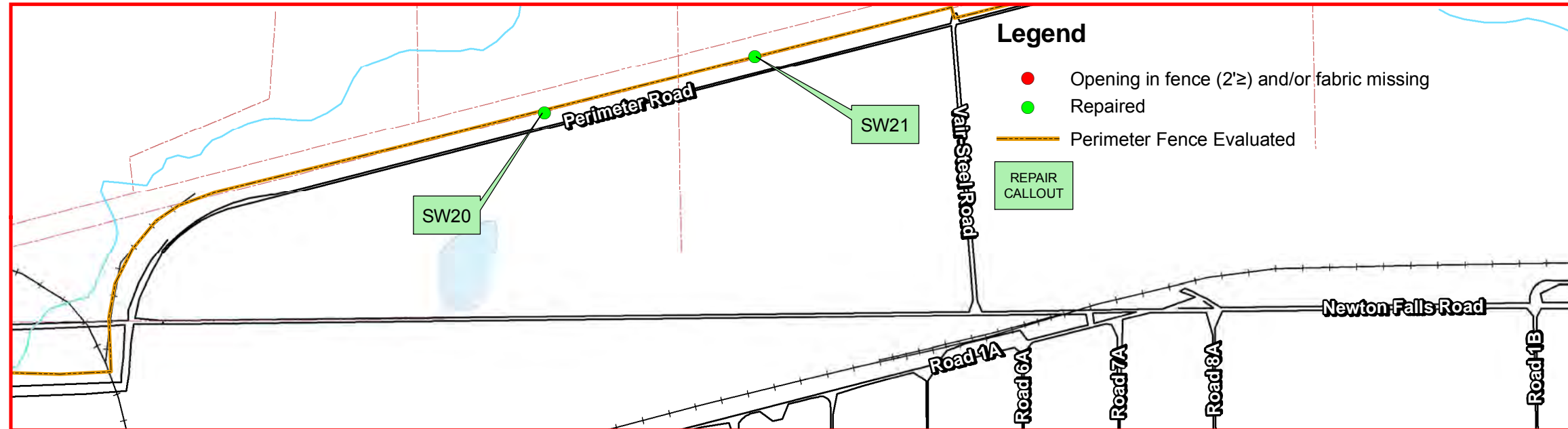


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW19

DETAIL SHEET FOR SW20



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

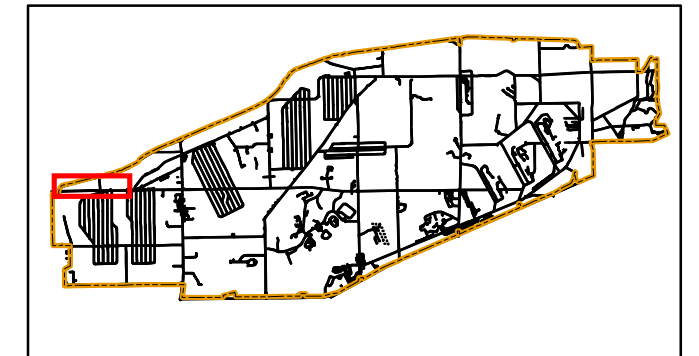
PHOTO SW20 repaired 11/25/2014



PHOTO SW20 discovered 07/15/2014



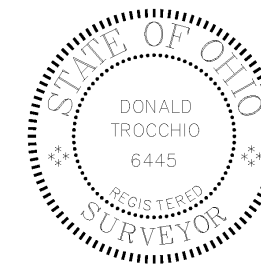
Camp Ravenna Joint Military Training Center



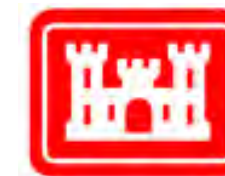
Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

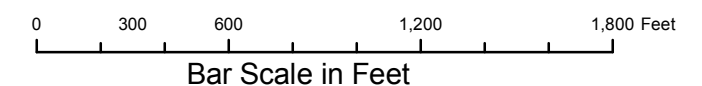


**US Army Corps of
Engineers**
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



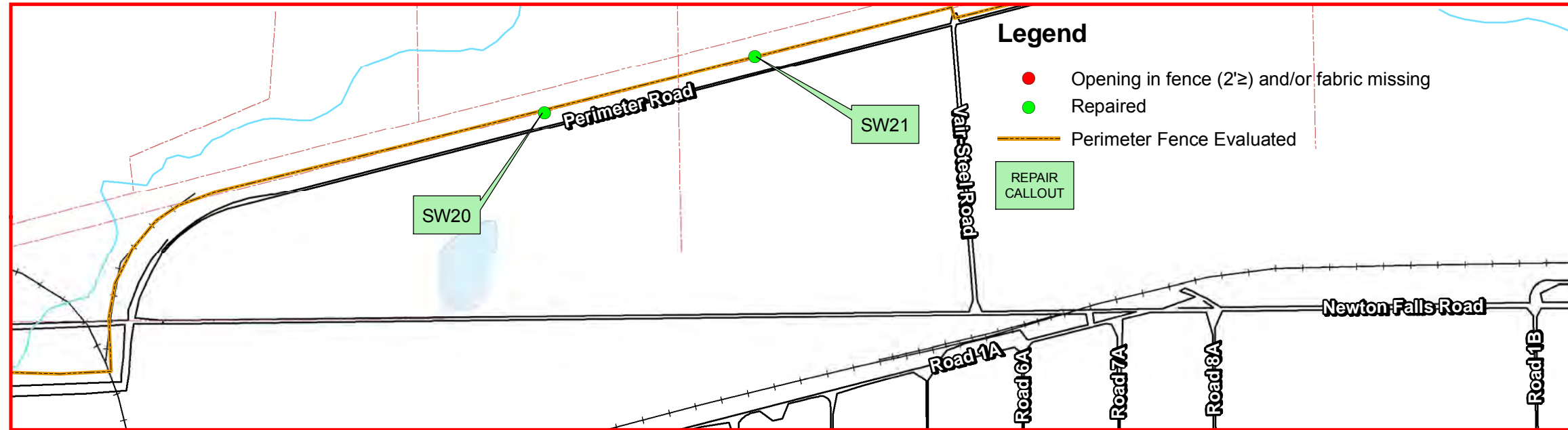
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW20

DETAIL SHEET FOR SW21



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

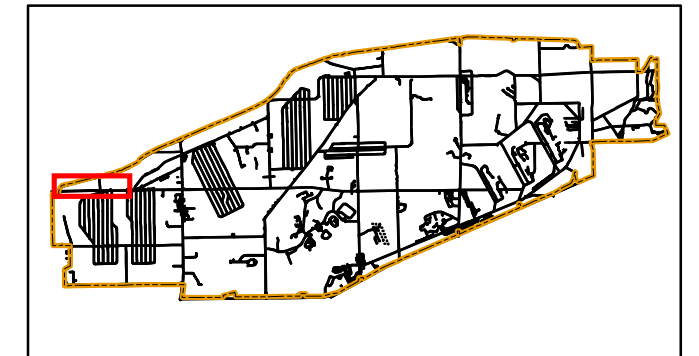
PHOTO SW21 repaired 11/25/2014



PHOTO SW21 discovered 07/15/2014



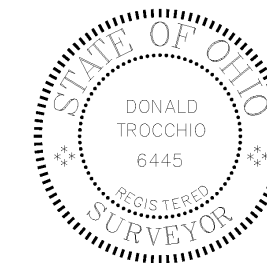
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

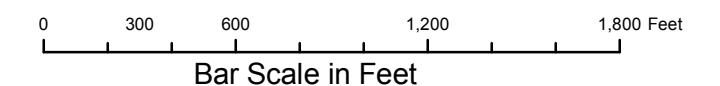


**US Army Corps of
Engineers**
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



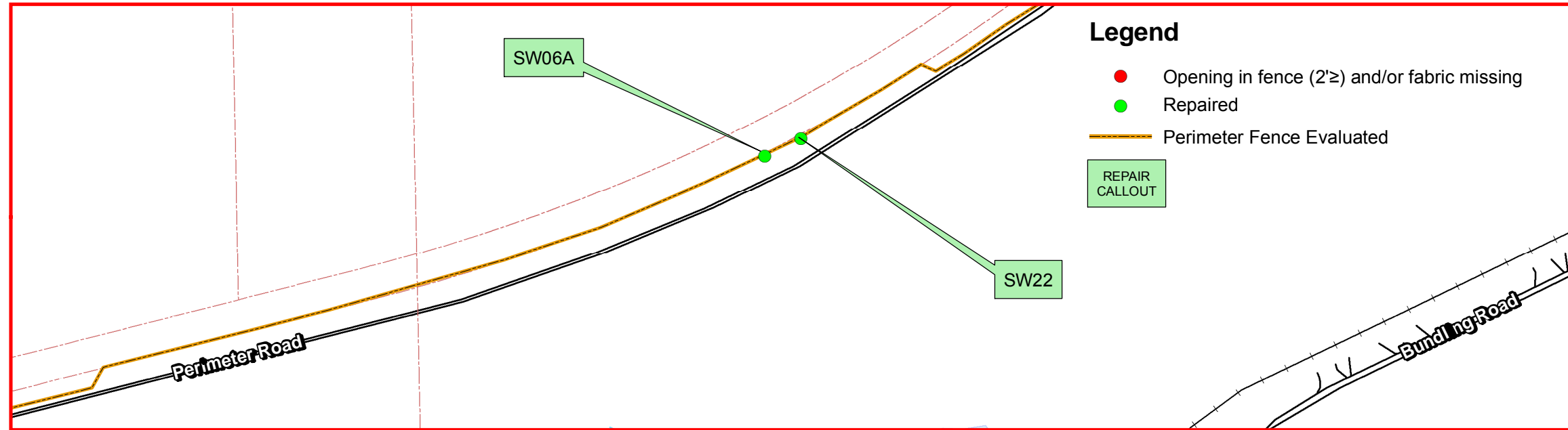
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



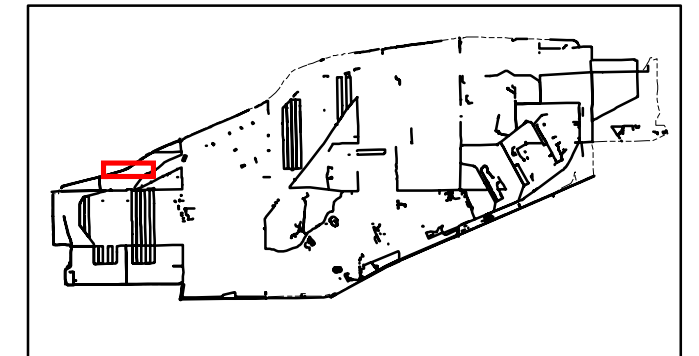
Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW21

DETAIL SHEET FOR SW22



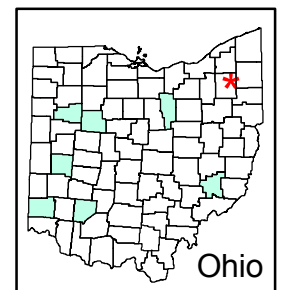
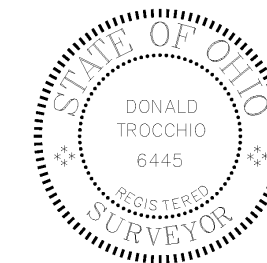
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015 PERIMETER FENCE INSPECTION

PHOTO SW22 repaired 11/25/2014



PHOTO SW22 discovered 07/16/2014



Produced in December 2014 for:



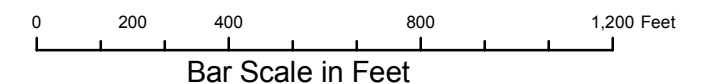
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



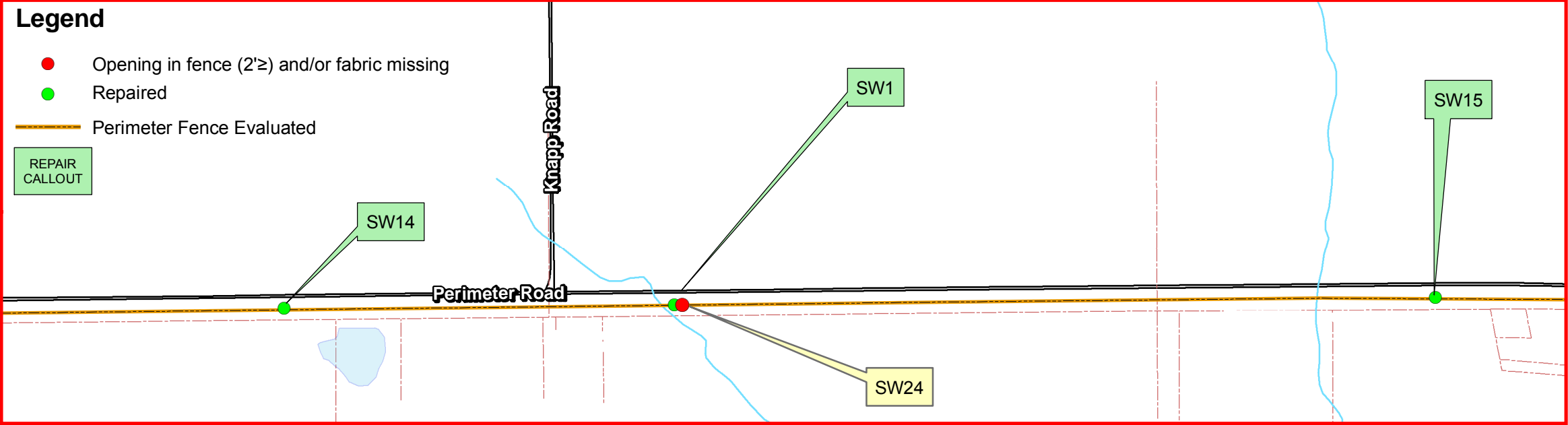
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW24

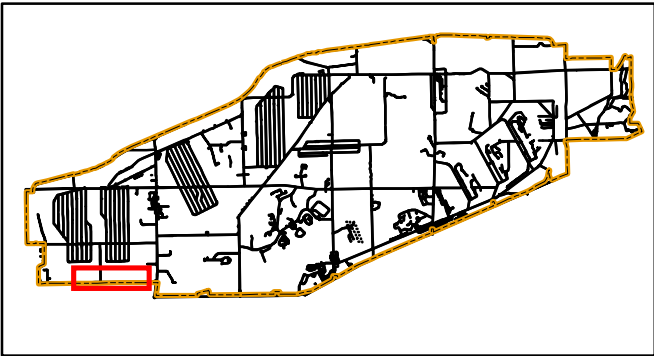


LAND USE CONTROL (LUC) INSPECTION 1st QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW24 discovered 11/20/2014



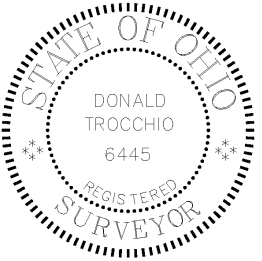
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in November 2014 for:



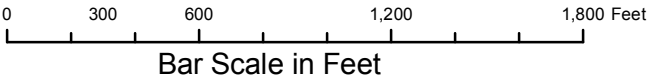
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW24

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

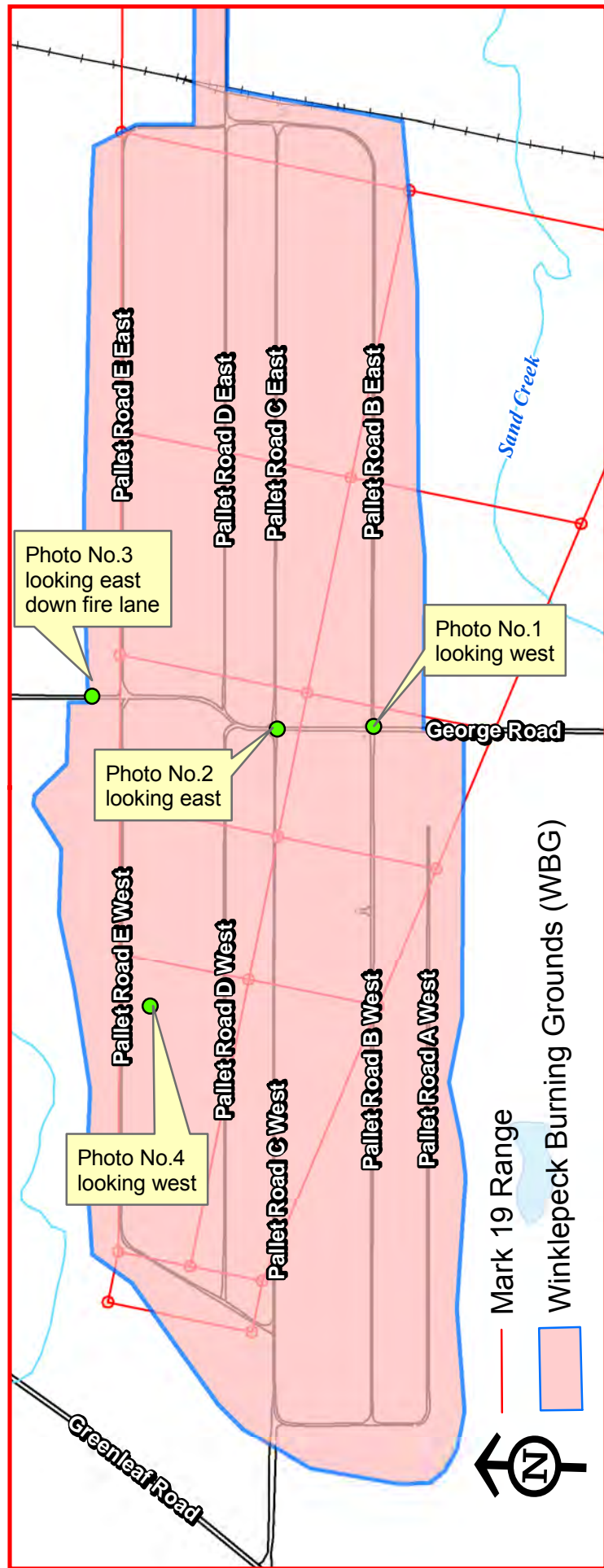
**Quarterly Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 2

Supplemental Detail Sheet No. 1

Camp Ravenna Fence Repair Log

Supplemental Detail Sheet No. 1



SUPPLEMENTAL DETAIL SHEET NO.1 LAND USE CONTROL (LUC) INSPECTION PERIMETER FENCE INSPECTION 1st QUARTER FY2015

PHOTO NO.2 12/15/2014



PHOTO NO.4 12/15/2014



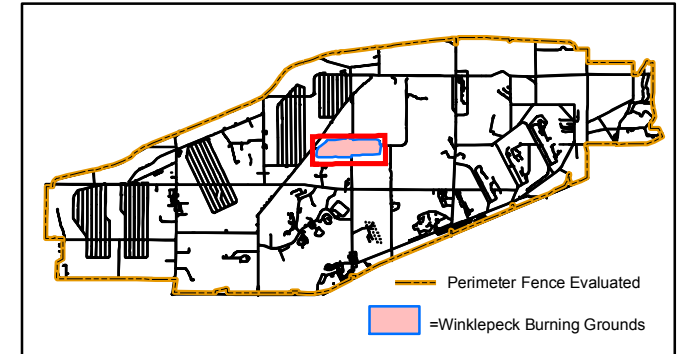
PHOTO No.1 12/15/2014



PHOTO NO.3 12/15/2014

PHOTO IMAGES WITHIN THE WINKLEPECK BURNING GROUNDS (RVAAP-05)

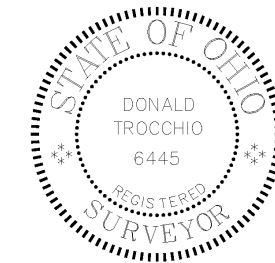
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in December 2014 for:

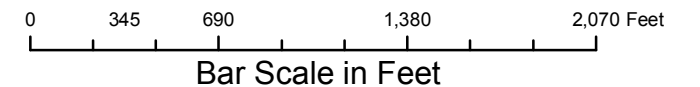


US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
 Louisville, KY 40202

Louisville District

Projection Datum is NAD83, Ohio State
 Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
 1438 State Route 534 SW
 Newton Falls, OH 44444
 Don Trocchio, PS
 don.trocchio@us.army.mil

MGRS 17T NF01946150 (NAD83)

Camp Ravenna Fence Repair Log

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL

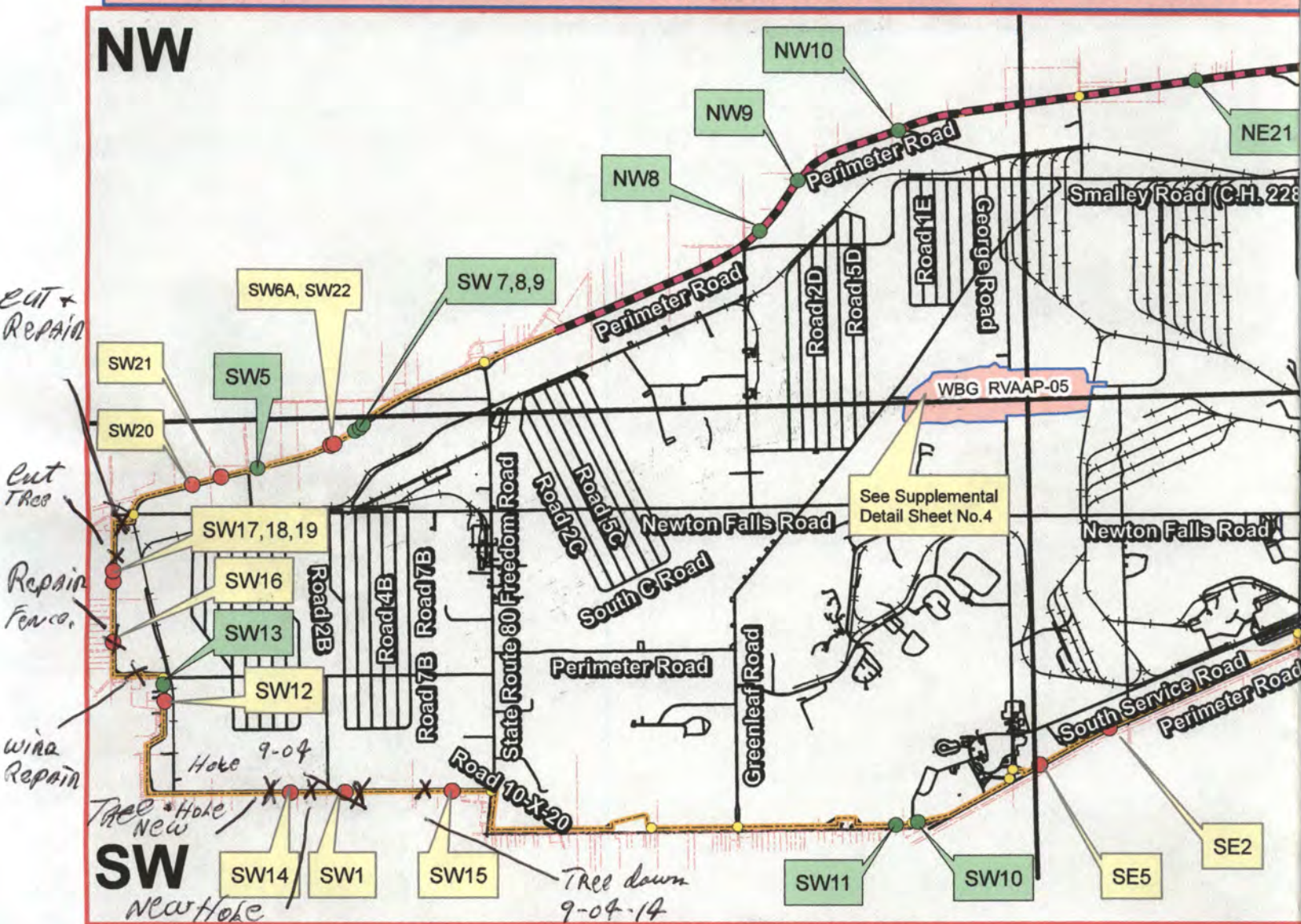


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
- Repaired (25 locations)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- New fence fabric installed to date (about 6.3 miles)
See also Supplemental Index Map No. 1
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet
Callout

Detail Sheet
Repair Callout

Callout	Date	Inspector
NE30	7/21/2014	c/w
SW1	02/07/2013	c/w
SW2	7/16/2014	c/w
SW12	11/18/2013	c/w
SW14	04/14/2014	c/w
SW15	7/15/2014	c/w
SW16	7/15/2014	c/w
SW17	7/15/2014	c/w
SW18	7/15/2014	c/w
SW19	7/15/2014	c/w
SW20	7/15/2014	c/w
SW21	7/15/2014	c/w
SW22	7/16/2014	c/w
SE02	7/22/2014	c/w
SE04	11/25/2013	c/w
SE05	04/22/2014	c/w
SW05	02/12/2013	c/w
SW07	02/13/2013	c/w
SW08	02/12/2013	c/w
SW09	02/12/2013	c/w
SW10	07/15/2013	c/w
SW11	11/18/2013	c/w
SW13	11/18/2013	c/w
NE05	02/13/2013	c/w
NE19	07/17/2013	c/w
NE20	07/18/2013	c/w
NE21	11/21/2013	c/w
NE23	11/29/2013	c/w
NA09	11/19/2013	c/w
NA10	11/21/2013	c/w
SE03	11/25/2013	c/w
NE06	03/03/2014	c/w
NE18	07/17/2013	c/w
NE22	11/25/2013	c/w
NE24	03/03/2014	c/w
NE25	03/03/2014	c/w
NE26	03/03/2014	c/w
NE27	03/03/2014	c/w
NE28	03/03/2014	c/w
NE29	03/05/2014	c/w
NA05	07/16/2013	c/w
RE		
RE		
RE		

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL

NW

SW

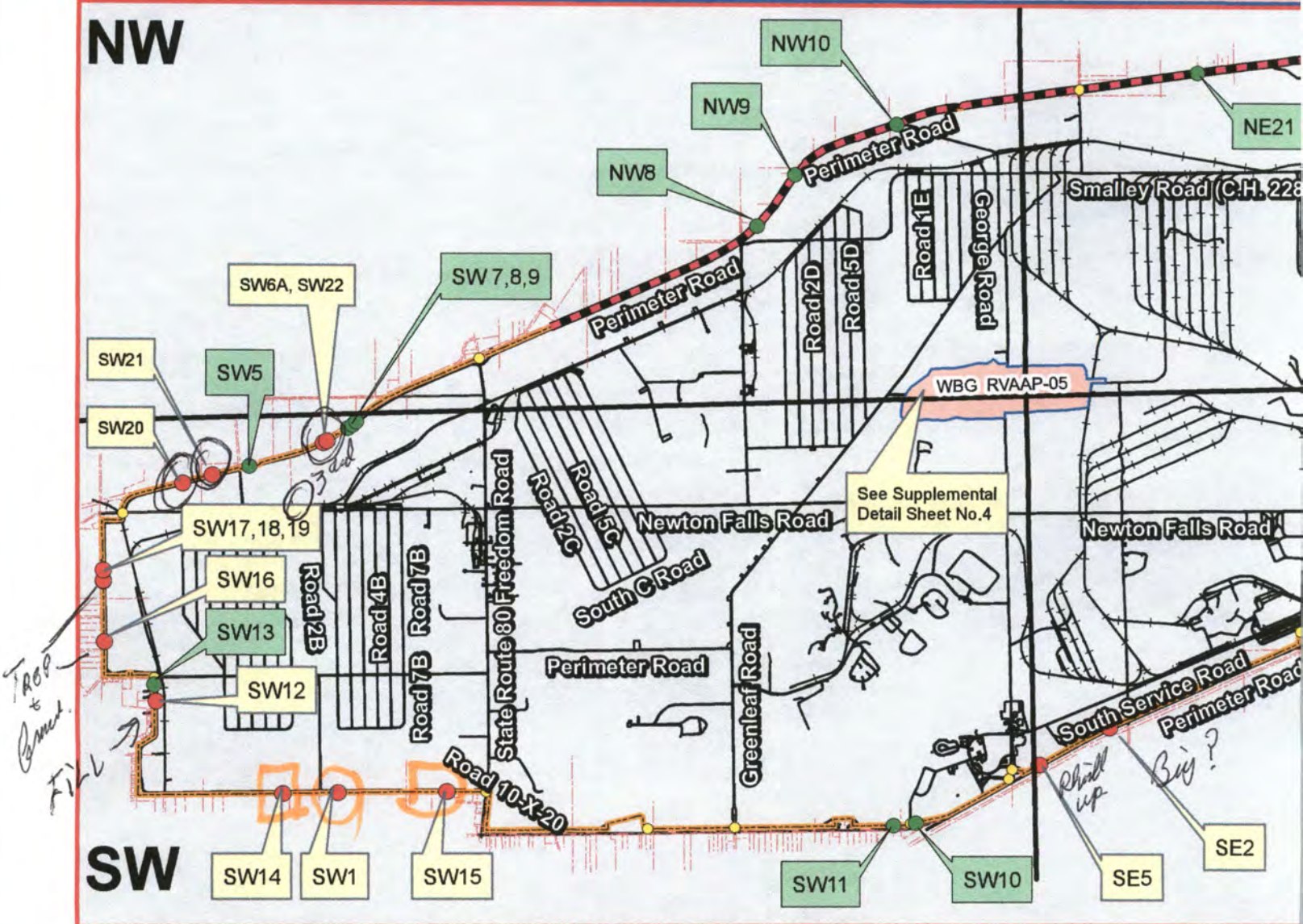


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'±) and/or fabric missing/damaged (16 locations)
- Repaired (25 locations)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- New fence fabric installed to date (about 6.3 miles)
See also Supplemental Index Map No.1
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet
Callout

Detail Sheet
Repair Callout

Callout	Date	Inspector
NE21	7/21/2014	C. V.
SW1	6/30/2013	C. V.
SW2	7/15/2014	C. V.
SW3	11/18/2013	C. V.
SW4	6/14/2014	C. V.
SW5	7/15/2014	C. V.
SW6	7/15/2014	C. V.
SW7	7/15/2014	C. V.
SW8	7/15/2014	C. V.
SW9	7/15/2014	C. V.
SW10	7/15/2014	C. V.
SW11	7/15/2014	C. V.
SW12	7/15/2014	C. V.
SW13	7/15/2014	C. V.
SW14	7/15/2014	C. V.
SW15	7/15/2014	C. V.
SW16	7/15/2014	C. V.
SW17	7/15/2014	C. V.
SW18	7/15/2014	C. V.
SW19	7/15/2014	C. V.
SW20	7/15/2014	C. V.
SW21	7/15/2014	C. V.
SW22	7/15/2014	C. V.
SE2	7/22/2014	C. V.
SE5	11/25/2013	C. V.
SE9	6/22/2014	C. V.
SW23	6/21/2013	C. V.
SW24	6/21/2013	C. V.
SW25	6/21/2013	C. V.
SW26	6/21/2013	C. V.
SW27	6/21/2013	C. V.
SW28	6/21/2013	C. V.
SW29	6/21/2013	C. V.
SW30	6/21/2013	C. V.
SW31	6/21/2013	C. V.
SW32	6/21/2013	C. V.
SW33	6/21/2013	C. V.
SW34	6/21/2013	C. V.
SW35	6/21/2013	C. V.
SW36	6/21/2013	C. V.
SW37	6/21/2013	C. V.
SW38	6/21/2013	C. V.
SW39	6/21/2013	C. V.
SW40	6/21/2013	C. V.
SW41	6/21/2013	C. V.
SW42	6/21/2013	C. V.
SW43	6/21/2013	C. V.
SW44	6/21/2013	C. V.
SW45	6/21/2013	C. V.
SW46	6/21/2013	C. V.
SW47	6/21/2013	C. V.
SW48	6/21/2013	C. V.
SW49	6/21/2013	C. V.
SW50	6/21/2013	C. V.
SW51	6/21/2013	C. V.
SW52	6/21/2013	C. V.
SW53	6/21/2013	C. V.
SW54	6/21/2013	C. V.
SW55	6/21/2013	C. V.
SW56	6/21/2013	C. V.
SW57	6/21/2013	C. V.
SW58	6/21/2013	C. V.
SW59	6/21/2013	C. V.
SW60	6/21/2013	C. V.
SW61	6/21/2013	C. V.
SW62	6/21/2013	C. V.
SW63	6/21/2013	C. V.
SW64	6/21/2013	C. V.
SW65	6/21/2013	C. V.
SW66	6/21/2013	C. V.
SW67	6/21/2013	C. V.
SW68	6/21/2013	C. V.
SW69	6/21/2013	C. V.
SW70	6/21/2013	C. V.
SW71	6/21/2013	C. V.
SW72	6/21/2013	C. V.
SW73	6/21/2013	C. V.
SW74	6/21/2013	C. V.
SW75	6/21/2013	C. V.
SW76	6/21/2013	C. V.
SW77	6/21/2013	C. V.
SW78	6/21/2013	C. V.
SW79	6/21/2013	C. V.
SW80	6/21/2013	C. V.
SW81	6/21/2013	C. V.
SW82	6/21/2013	C. V.
SW83	6/21/2013	C. V.
SW84	6/21/2013	C. V.
SW85	6/21/2013	C. V.
SW86	6/21/2013	C. V.
SW87	6/21/2013	C. V.
SW88	6/21/2013	C. V.
SW89	6/21/2013	C. V.
SW90	6/21/2013	C. V.
SW91	6/21/2013	C. V.
SW92	6/21/2013	C. V.
SW93	6/21/2013	C. V.
SW94	6/21/2013	C. V.
SW95	6/21/2013	C. V.
SW96	6/21/2013	C. V.
SW97	6/21/2013	C. V.
SW98	6/21/2013	C. V.
SW99	6/21/2013	C. V.
SW100	6/21/2013	C. V.

SW15 - Clip off Balmain
go over
cut trunk

SW1 - Small - fabric - clips
Bottom

SW16 - Top Bar Small fabric -

SW17 - Cut from outside / top Bar

SW18 - R.R. to + PINS

SW19 - Pre cut - Top Rib + joints

Appendix H

Final FY 2015 Second Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds

Final
FY 2015 Second Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



July 23, 2015

Final
FY 2015 Second Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio**

Contract No. W912QR-13-C-0031

Prepared for:



**U.S. Army Corps of Engineers
Louisville District**

Prepared by:



July 23, 2015

LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
bgs	Below Ground Surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
EQM	Environmental Quality Management, Inc.
FWGWMPP	Facility-Wide Ground Water Monitoring Program Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
IRP	Installation Restoration Program
LUC	Land Use Control
MEC	Munitions and Explosives of Concern
MK	Mark
MRS	Munitions Response Site
MSG	Master Sergeant
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PS	Professional Surveyor
PMP	Property Management Plan
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
UXO	Unexploded Ordnance
WBG	Winklepeck Burning Grounds

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /
Former Ravenna Army Ammunition Plant (RVAAP)
Quarterly Land Use Control (LUC) Inspection Form
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on February 18, March 16, 17, 18, 19, 24, 25, 26, 30, and 31, 2015.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective control and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark (MK) 19 Grenade Machinegun Range is prohibited with the following exceptions:
 - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
 - Ground surface repairs by authorized range personnel in support of authorized range activities; and
 - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
 1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
 2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.

Review of LUCs – Management/Effectiveness/Corrective Action

1. AOC Map

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on March 16, 2015 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

2. Camp Ravenna Perimeter Fence

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. In FY 2014, over 4500' of the perimeter fence at the west end of the facility was replaced and/or had barbed wire repairs completed. Also in FY 2014, a large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 was replaced. As observed during the FY 2015 2nd quarter inspection, the fence has been repaired at 6 locations since the previous quarterly inspection in November/December 2014. These locations are NW11, NE15A, NE33, SE02, SW12 and SW24. Additionally, seven perimeter fence locations were repaired on March 25, 2015 after the inspection on those areas had already been conducted. These locations are NW12, SW22, NE34, NE35, SW6B, NW1A, and NW10A. Attachment 1, Figure 1 Index Map and Summary Table, and associated Detail Sheets present the damaged fence areas and photographs of repaired areas. Photographs of the areas repaired on March 25, 2015 will be presented in the next quarterly LUC inspection report. The Camp Ravenna Fence Repair Log presented in Attachment 2 lists repairs to the perimeter fence that were carried out after the November/December 2014 inspection.

3. Activities and Land Use

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on March 26, 2015 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

The WBG/MK19 Range has been utilized for training purposes (i.e. MK19 Range firing/activities) since the last inspection. Additionally, mowing has occurred since the previous inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on March 26, 2015, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter are scheduled for May 2015.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on April 1, 2015 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide groundwater elevation measuring event at the WBG took place on March 9, 2015. The next scheduled FWGWMPP sampling event is currently scheduled for the end of July 2015.

4. Inspections and Reporting

a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

Quarterly Inspections have been completed for FY 2013 and FY 2014. This is the second Quarterly Inspection to be conducted for FY 2015. All Quarterly Inspections for FY 2013, FY 2014 and FY 2015 were conducted in accordance with the approved PMP dated August 2012.

b.) An annual report is required. Has the annual report been completed and submitted?

The Final FY 2014 Annual Report was submitted on January 12, 2015 and approved on March 17, 2015.

5. Training (as applicable to WBG)

a.) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for WBG. Using units also receive an in-brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access Winklepeck are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office. LUC training specific to WBG was held on March 3rd and 5th, 2015 for Camp Ravenna units/staff. Training will be conducted for additional Camp Ravenna staff and contractors that missed the March training dates as needed.

b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

6. Description of any observed/noted LUC violation(s):

The Camp Ravenna perimeter fence has missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

7. Date of Notification of LUC violation (if applicable):

The Army was notified via e-mail on March 18, 19 and 23, 2015 of seven new fence defects discovered during the 2nd Quarter FY 2015 facility perimeter fence evaluation. These locations are NW1A, NW10A, NW12, NE34, NE35, SW6B and SW22A (See Attachment 1, Figure 1 Index Map and Summary Table, and associated detail sheets).

8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

As observed during the second quarter LUC inspection, the following perimeter fence defects were repaired: NW11, NE15A, NE33, SE02, SW12 and SW24. Additionally, the following areas were reported to have been repaired on March 25, 2015 after the damaged areas had been inspected: NW12, SW22, NE34, NE35, SW6B, NW1A, and NW10A.

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired and/or reported since the last inspection. Additionally, a repair log is provided in Attachment 2 which documents repairs completed by the OHARNG maintenance staff during the second quarter of FY 2015.

A large section of fence (posts and fabric) was replaced on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 in February 2014. In February 2014, over 4500 feet of barbed wire repair and/or perimeter fence installation at the west end of the facility were completed. These efforts and the efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

9. Additional Notes/Comments:

As requested by the Ohio EPA, WBG photographs taken during the LUC Inspection are included with this report (Attachment 2, Supplemental Detail Sheet No. 1).

Original Inspection Completed by:

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: April 6, 2015

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

**FY 2015 Second Quarter
Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 1

Figure 1 Index Map

FY 2015 Callout/Repair Summary Table

Detailed Quadrant Maps

Figure 1 Index Map

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 2nd Qtr. FY 2015

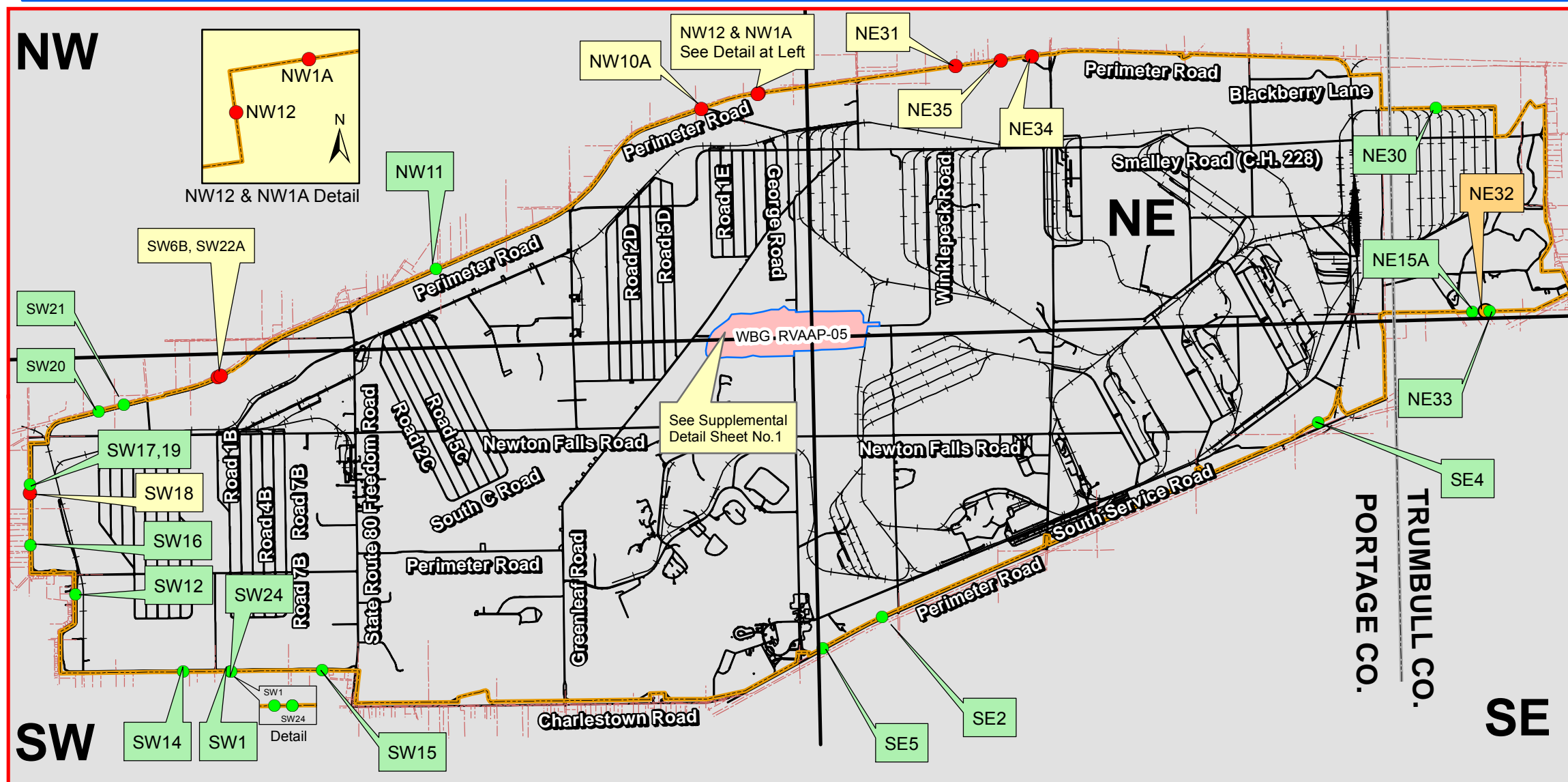


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Legend

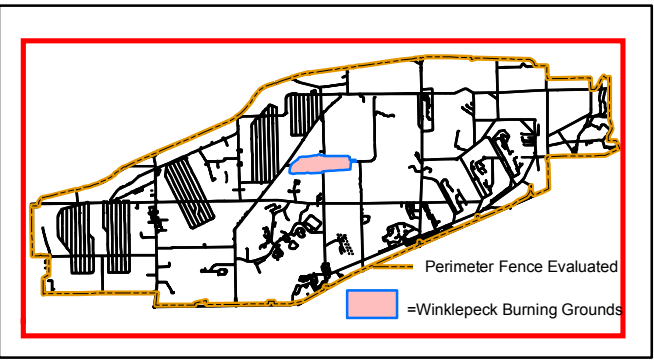
LUC Inspection of Perimeter Fence

- Opening in fence (2 \geq) and/or fabric missing/damaged (9 locations)
- Repaired in FY2015
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

Detail Sheet Callout	Detail Sheet Repair Callout	Detail Sheet Repair in Progress Callout
-------------------------	--------------------------------	---

NOTE: As observed during the second quarter LUC inspections, the following perimeter fence defects were repaired: NW11, NE15A, NE33, SE02, SW12, and SW24. Additionally, the following areas were reported to have been repaired on March 25, 2015 after the damaged areas had been inspected: NW12, SW22, NE34, NE35, SW6B, NW1A and NW10A.

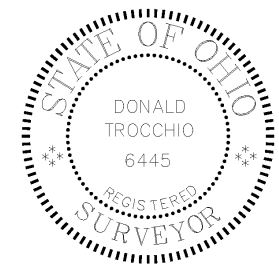
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



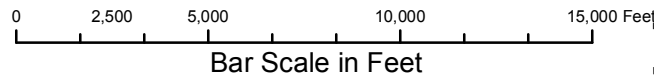
US Army Corps of
Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

FY 2015 Callout/Repair Summary Table

FY 2015 CALLOUT/REPAIR SUMMARY TABLE

Camp Ravenna Joint Military Training Center 2nd Qtr FY2015 LUC Inspection

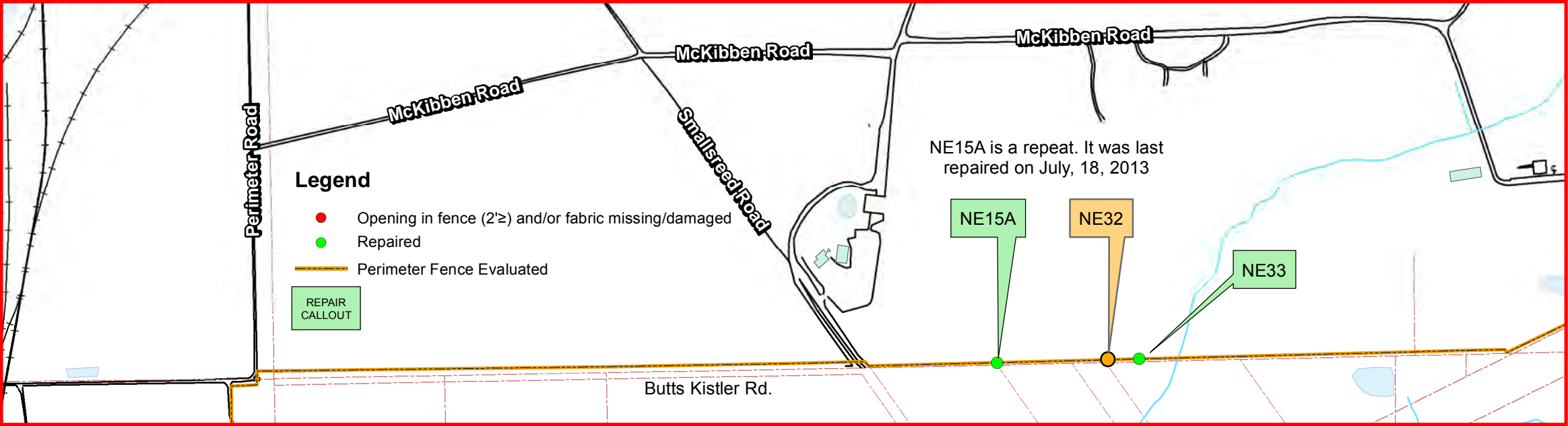
US Survey Ft

Callout	Date	Comments	Northing	Easting
NW1A	3/19/2015	repeat poacher hole	571637	2356382
NW10A	3/18/2015	repeat cut poacher hole in new fence	571046	2354186
NW12	3/19/2015	poacher hole	571617	2356355
NE31	3/18/2015	utility pole fallen on top of fence	572684	2363973
NE32	3/30/2015	12in tree has fallen on to the fence	563254	2384389
NE34	3/19/2015	poacher hole	573073	2366913
NE35	3/19/2015	repeat poacher hole of undocumented repair	572916	2365711
SW6B	3/17/2015	poacher hole in fence (repeat)	560708	2335572
SW18	7/15/2014	hole under fence at culvert outlet	556241	2328345
SW22A	3/17/2015	repeat poacher hole	560762	2335683
NE30	7/21/2014	poacher hole	571083	2382464
SE04	11/25/2013	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933
SE05	04/22/2014	washout below undamaged fence	550299	2358851
SW14	04/14/2014	poacher hole in fence	549386	2334237
SW15	7/15/2014	tree blow down	549438	2339580
SW16	7/15/2014	tree blow down/damaged fence	554267	2328362
SW17	7/15/2014	tree blow down/fence top damaged	556228	2328345
SW19	7/15/2014	tree blow down/top fence damaged	556581	2328342
SW20	7/15/2014	hole in bottom of fence below sign	559398	2330974
SW21	7/15/2014	hole at bottom of fence	559659	2331945
SW22	7/16/2014	poacher hole	560762	2335683
NW11	11/26/2014	old abandoned rr utility pole leaning over top of fence	564883	2343968
NE15A	12/15/2014	poacher hole (repeat)	563240	2383872
NE33	12/15/2014	8in tree has fallen on to the fence	563257	2384533
SE02	12/16/2014	washout	551498	2361141
SW12	11/18/2013	storm washout about 2 sections inlet needs cleared	552357	2330086
SW24	11/20/2014	poacher hole	549402	2336086

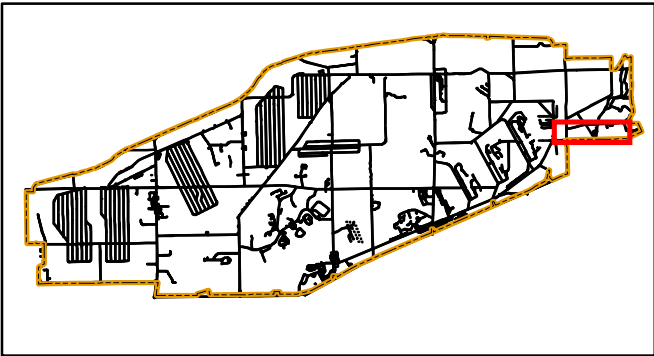
REPAIRED 1ST QTR
REPAIRED 2ND QTR
REPAIRED AFTER 2ND QTR INSPECTION

NE (Northeast) Quadrant

DETAIL SHEET FOR NE15A



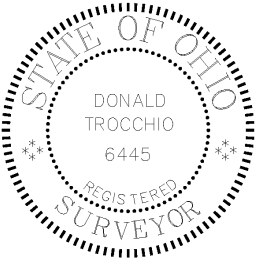
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE15A as observed on 03/30/2015



PHOTO NE15A discovered 12/15/2014



Produced in March 2015 for:



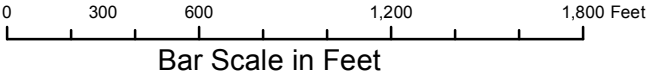
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



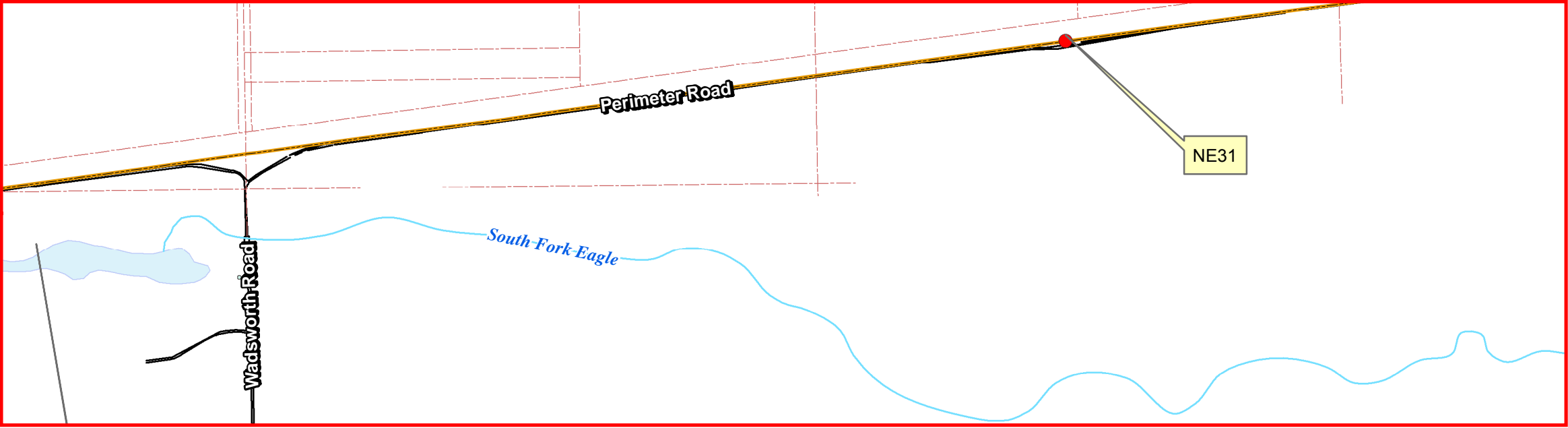
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE15A

DETAIL SHEET FOR NE31



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

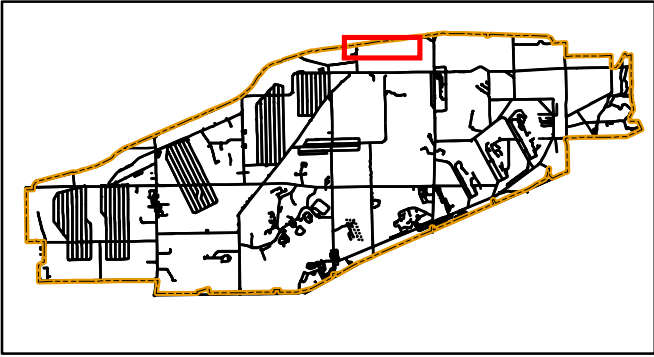
Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
 - Repaired
 - Perimeter Fence Evaluated
- REPAIR
CALLOUT

PHOTO NE31 discovered 12/03/2014



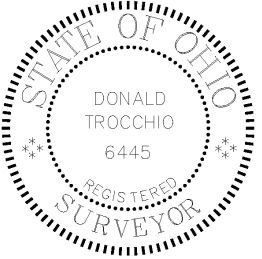
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



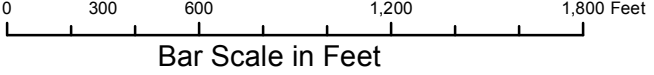
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



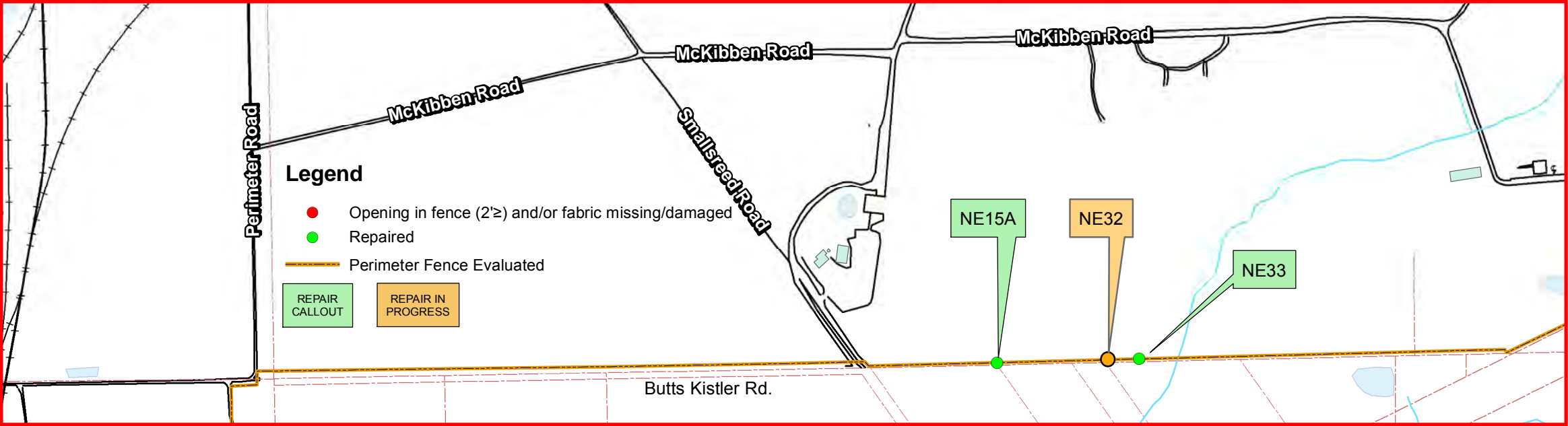
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE31

DETAIL SHEET FOR NE32



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

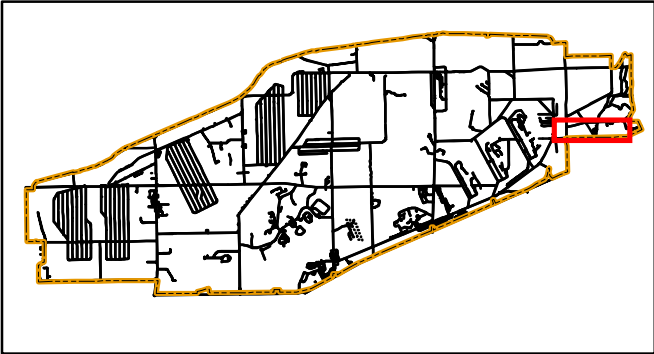
PHOTO NE32 as observed on 03/30/2015



PHOTO NE32 discovered 12/15/2014



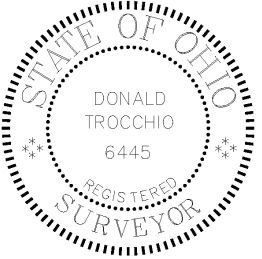
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



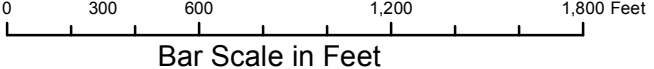
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



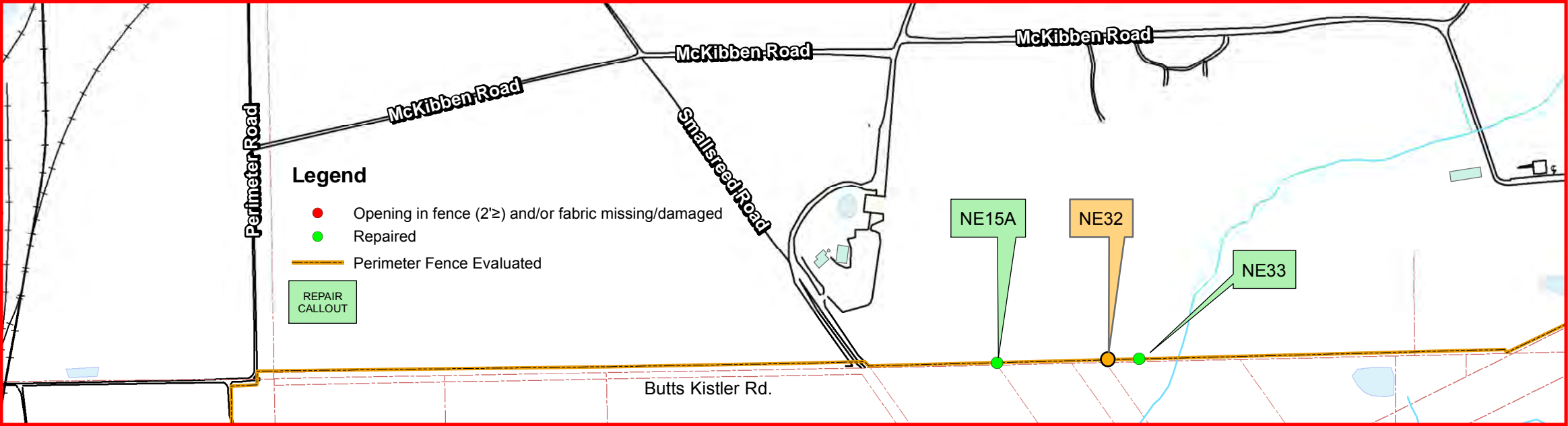
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



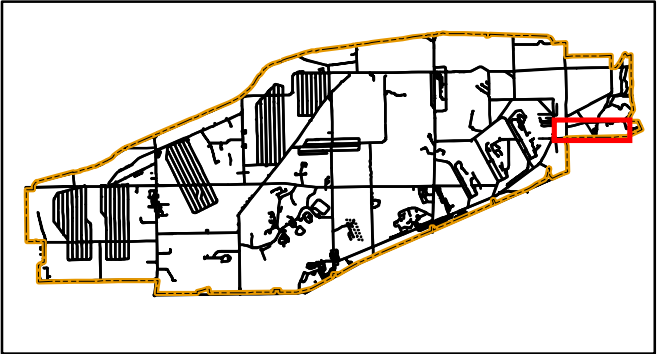
Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE32

DETAIL SHEET FOR NE33



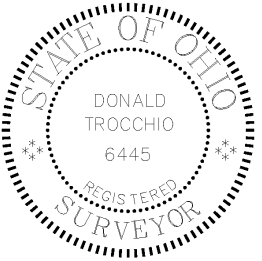
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE33 as observed on 03/30/2015



PHOTO NE33 discovered 12/15/2014



Produced in March 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

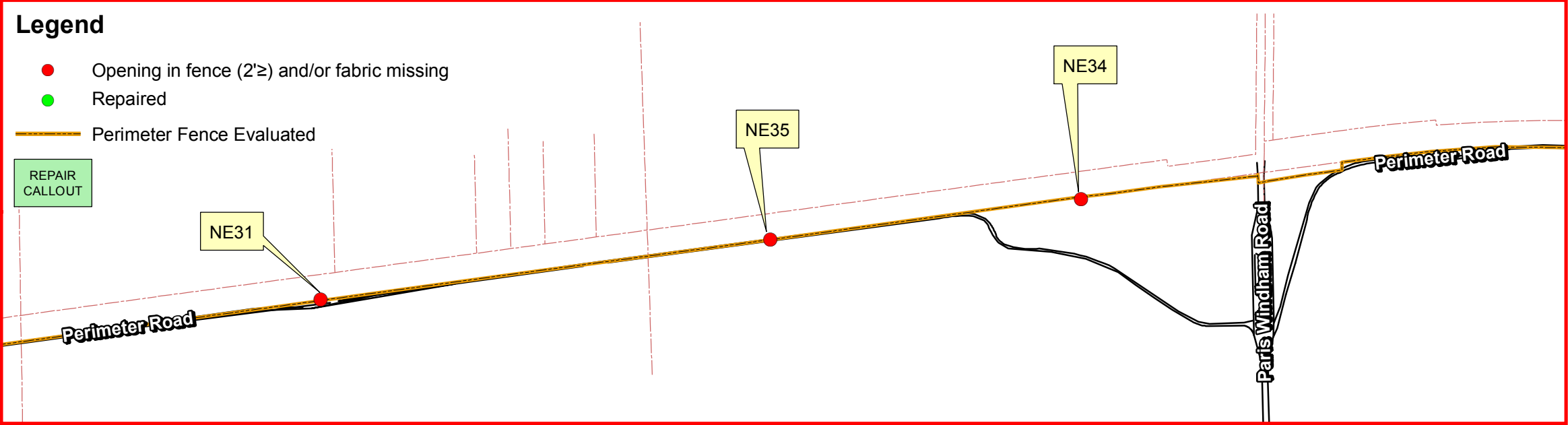
0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE33

DETAIL SHEET FOR NE34



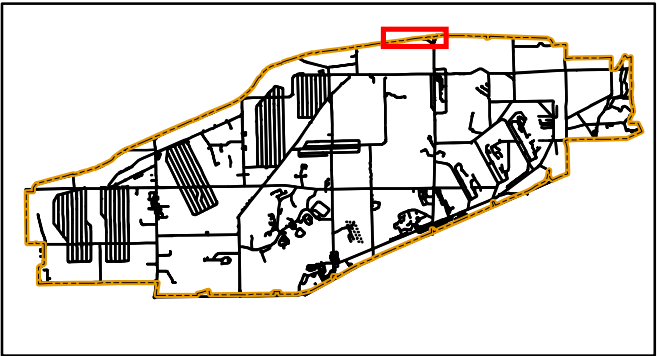
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE34 discovered 03/19/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



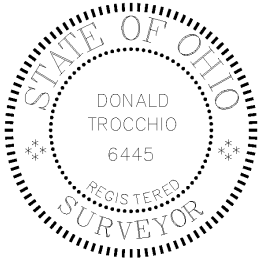
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



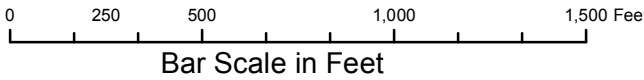
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



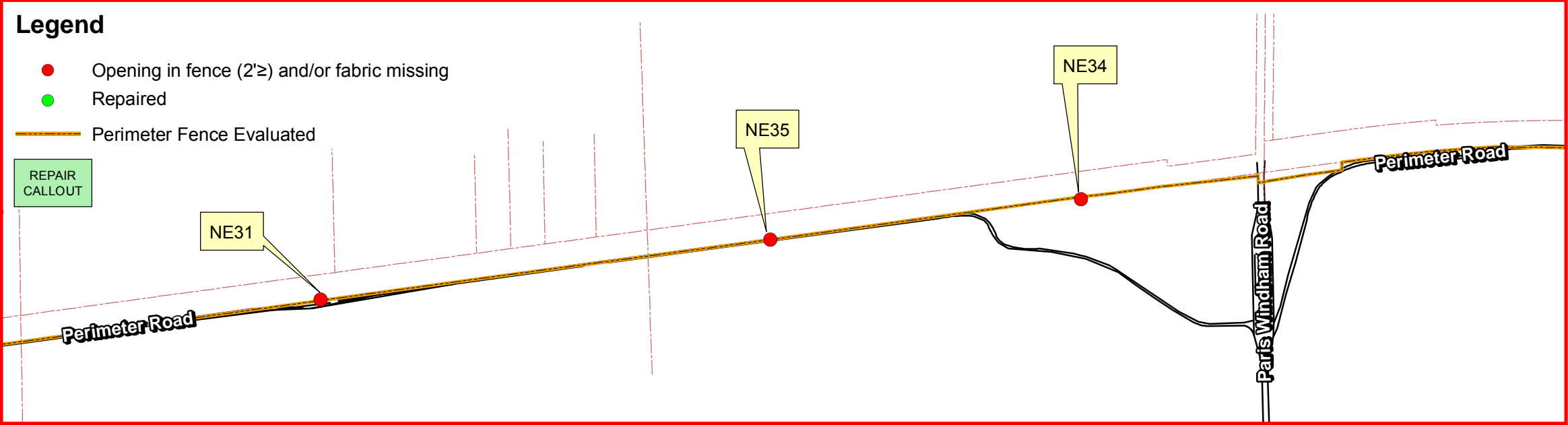
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE34

DETAIL SHEET FOR NE35



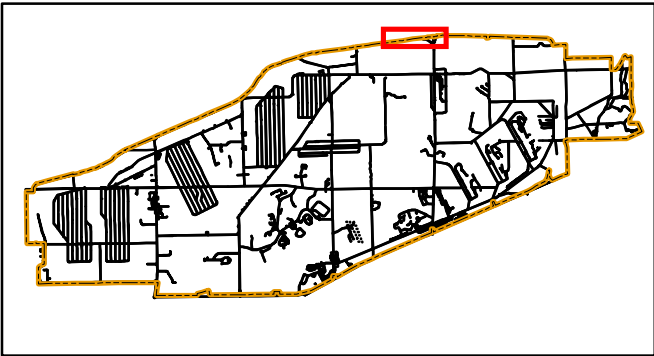
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE35 discovered 03/19/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



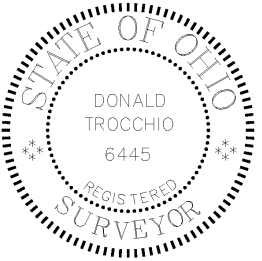
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



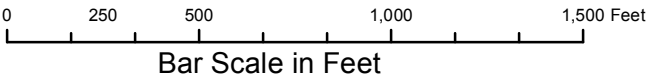
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

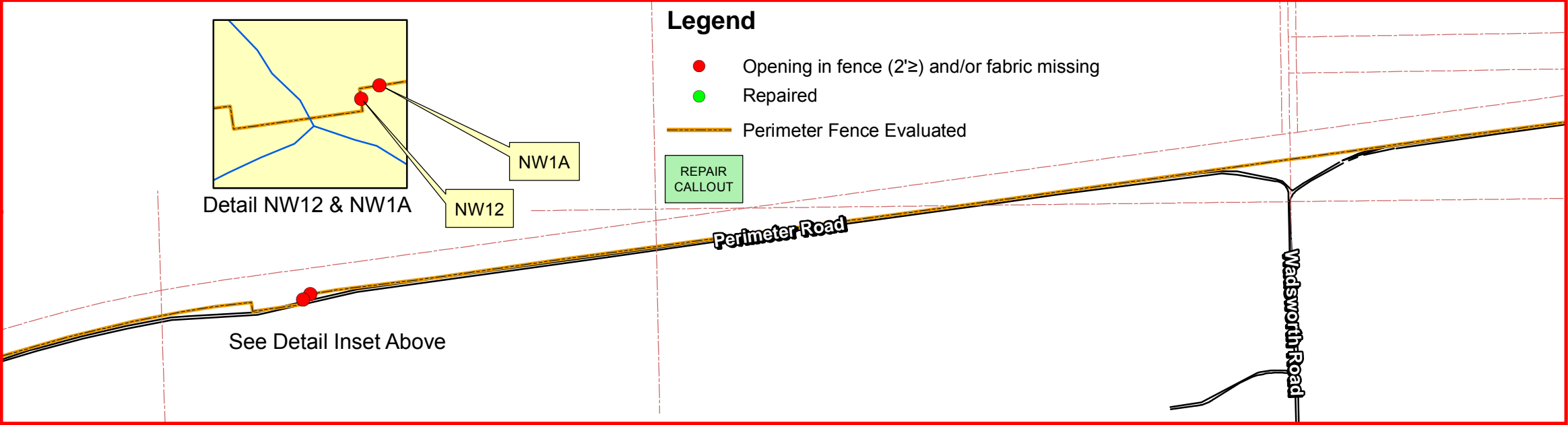


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

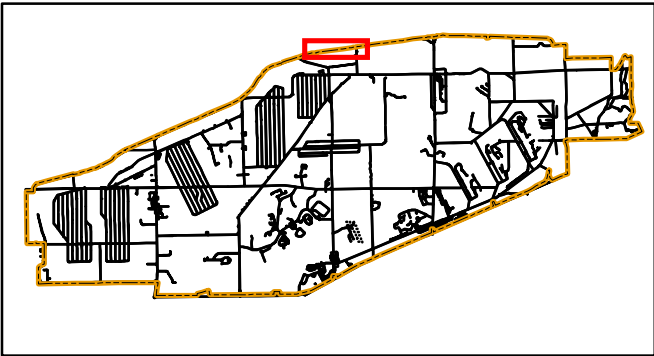
DETAIL SHEET FOR NE35

NW (Northwest) Quadrant

DETAIL SHEET FOR NW1A



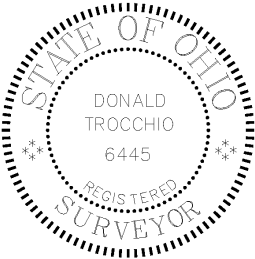
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Ohio

LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW1A discovered 03/19/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



Produced in March 2015 for:



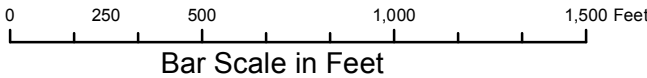
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



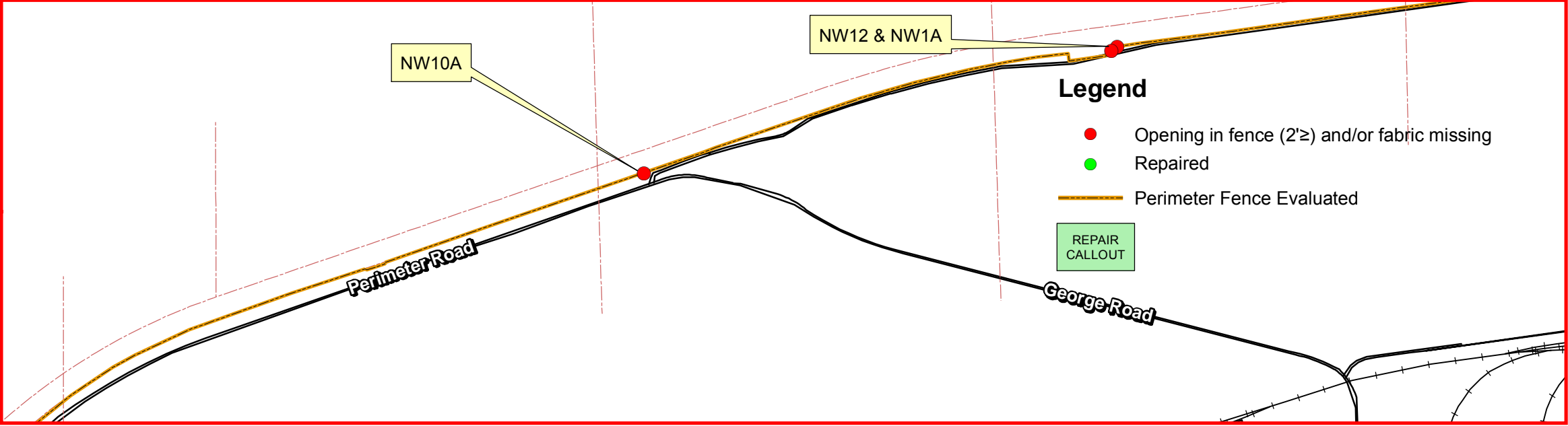
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW1A

DETAIL SHEET FOR NW10A

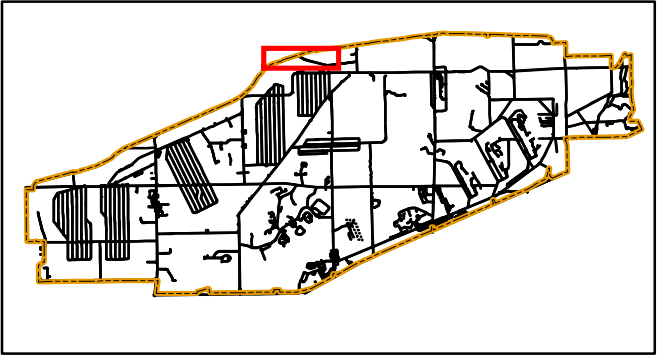


LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW10A discovered 03/18/2015



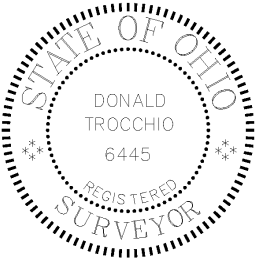
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



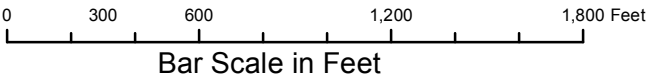
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

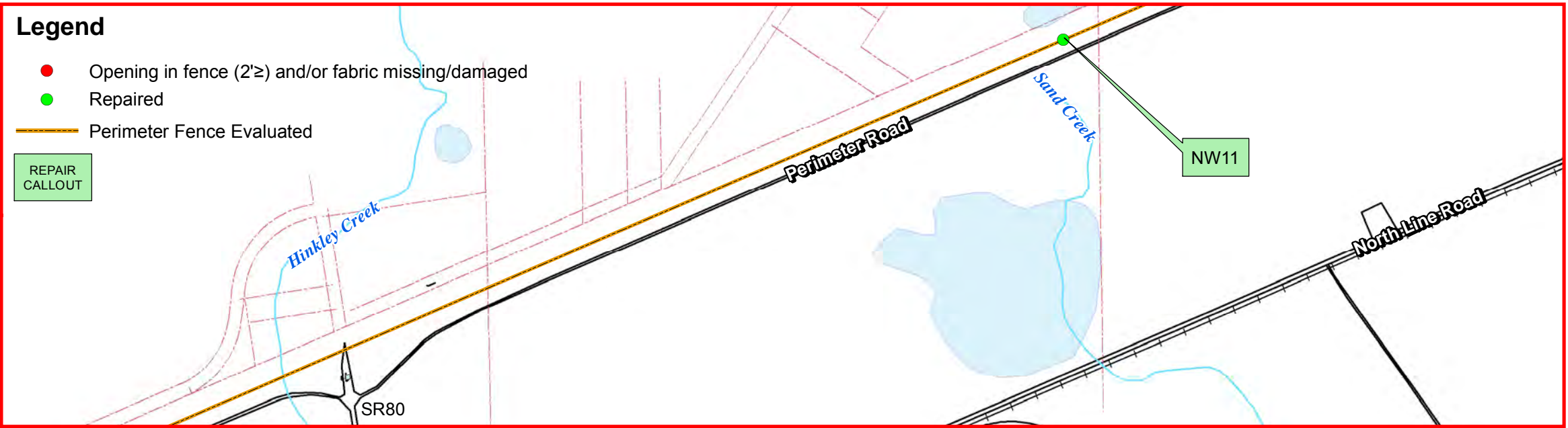


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW10A

DETAIL SHEET FOR NW11



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015 PERIMETER FENCE INSPECTION

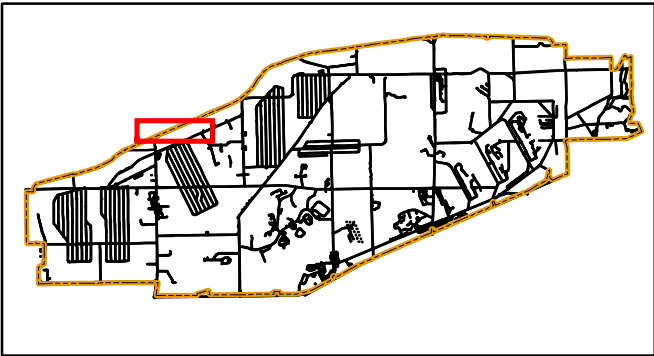
PHOTO NW11 as observed on 03/18/2015



PHOTO NW11 discovered 11/26/2014



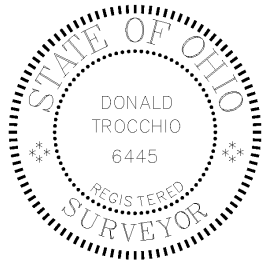
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

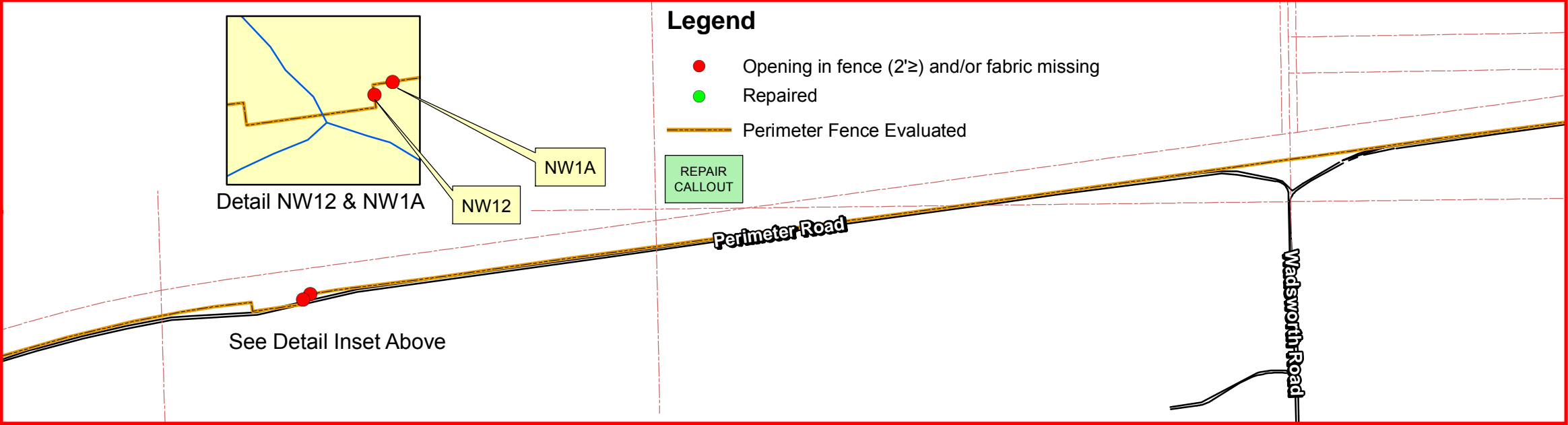
0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW11

DETAIL SHEET FOR NW12



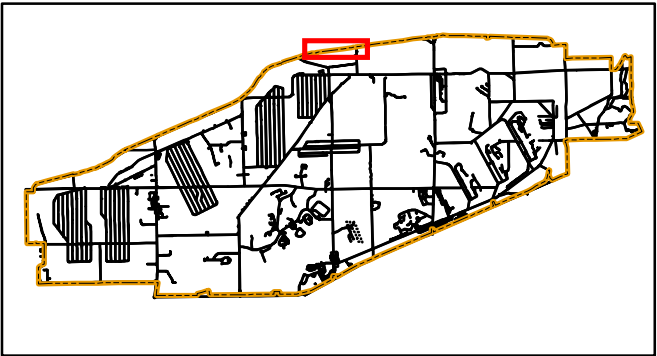
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW12 discovered 03/19/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



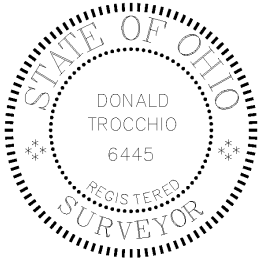
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 250 500 1,000 1,500 Feet
Bar Scale in Feet

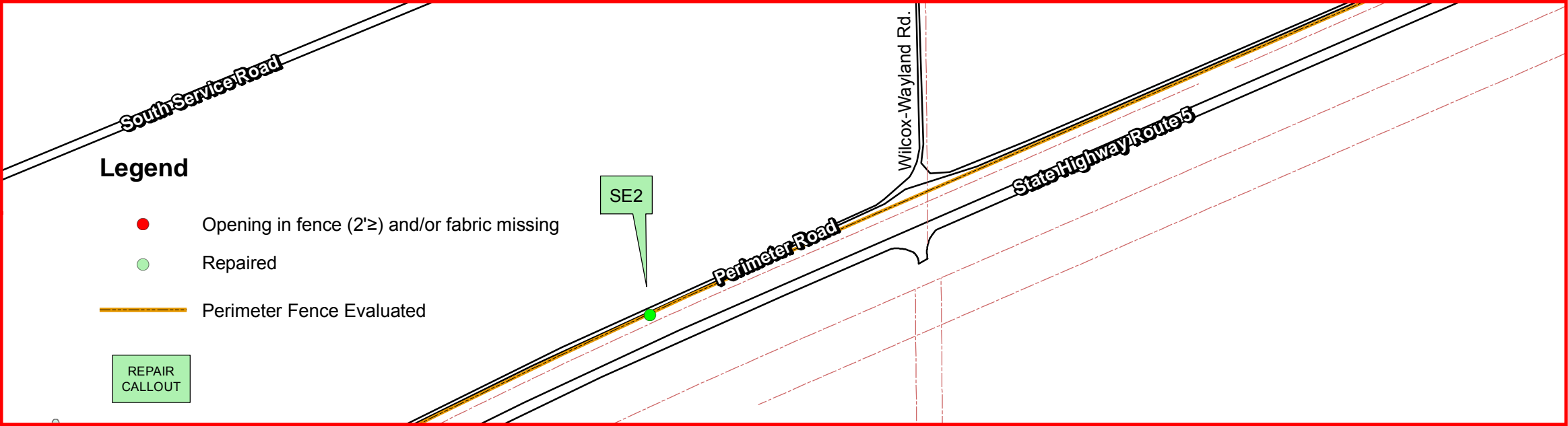


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW12

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

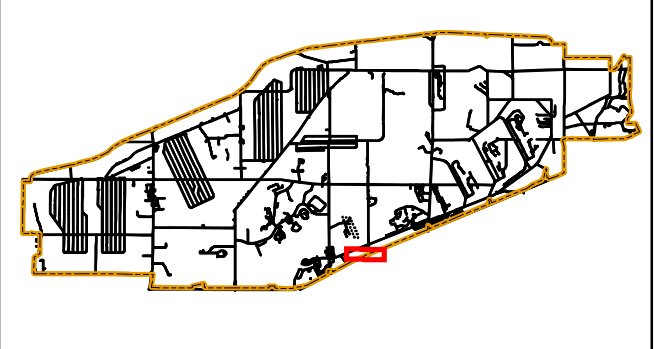
PHOTO SE2 as observed on 03/26/2015, Date of repair is 04/10/2015



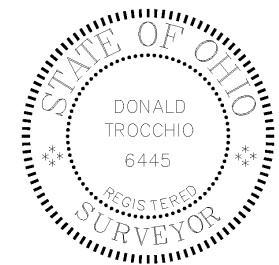
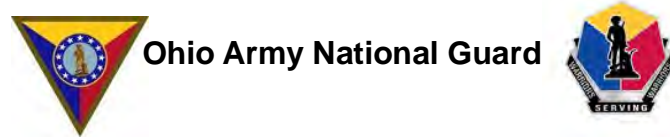
PHOTO SE2 discovered 07/18/2013



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Produced in March 2015 for:

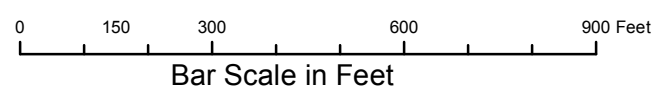


US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

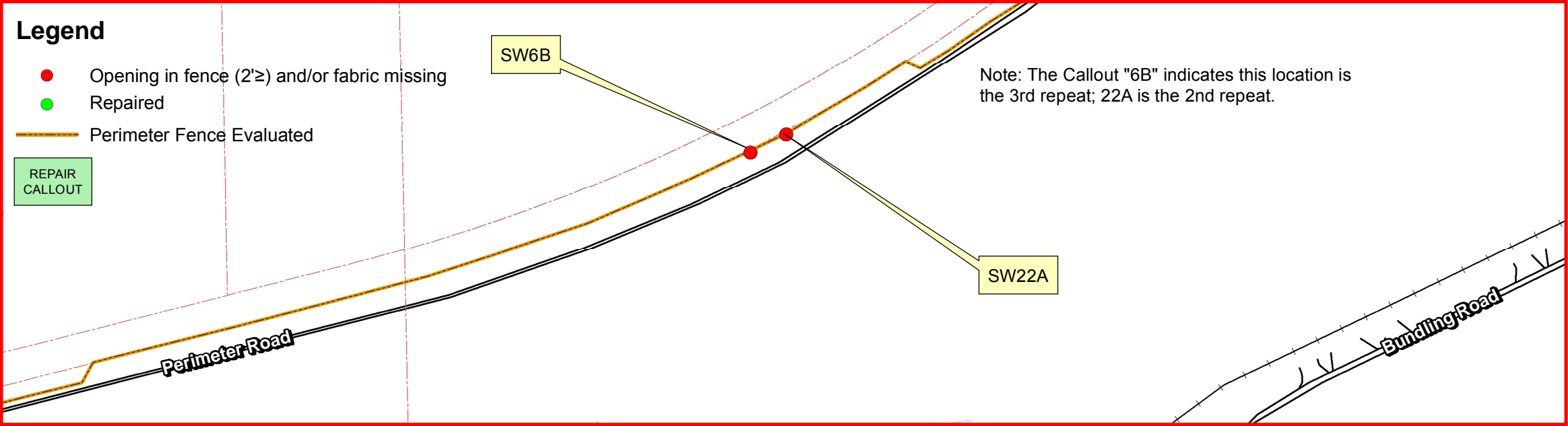


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE2

SW (Southwest) Quadrant

DETAIL SHEET FOR SW6B



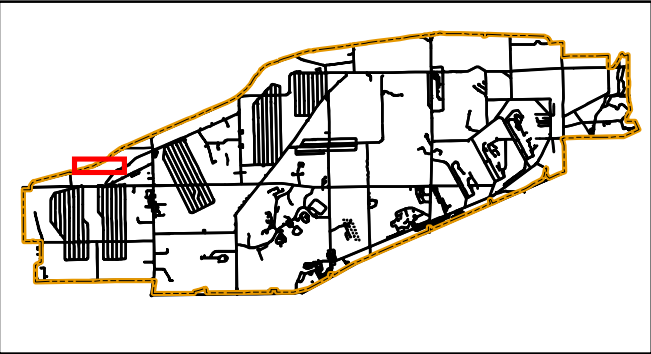
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW6B discovered 03/17/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



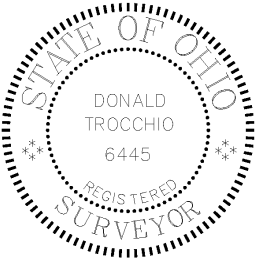
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

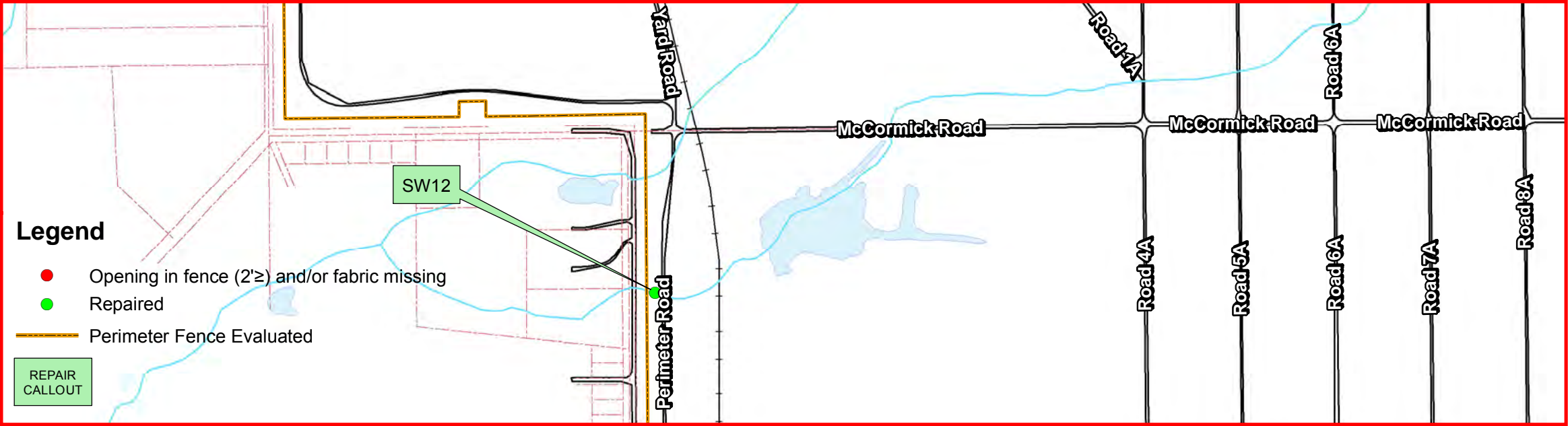
0 200 400 800 1,200 Feet
Bar Scale in Feet



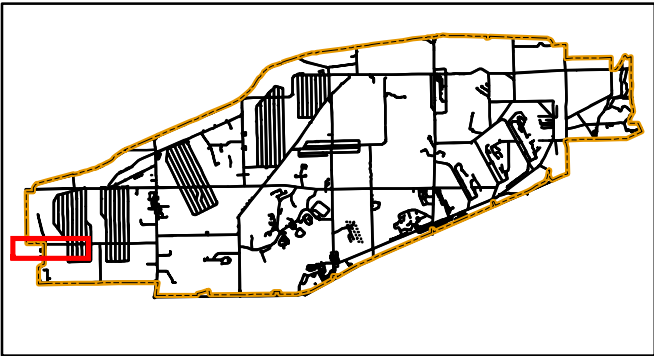
Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW6B

DETAIL SHEET FOR SW12



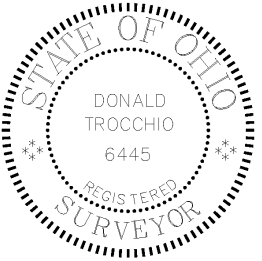
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO SW12 as observed on 03/16/2015. Repair date is February 2015.



PHOTO SW12 discovered 11/18/2013



Produced in March 2015 for:

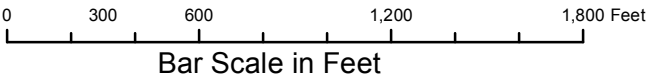


**US Army Corps of
Engineers**
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



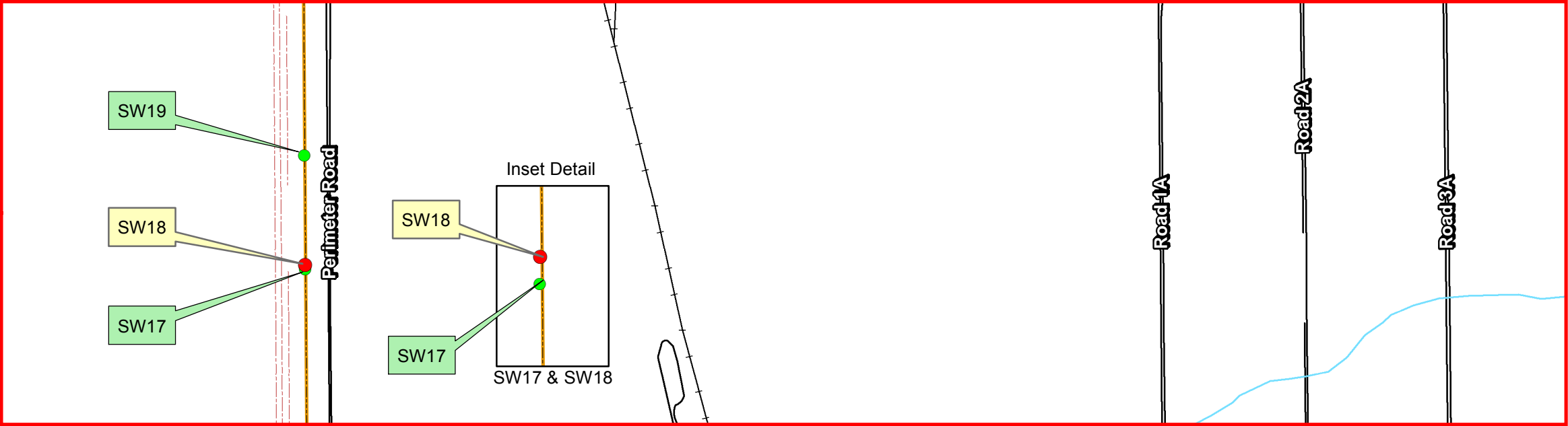
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW12

DETAIL SHEET FOR SW18



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

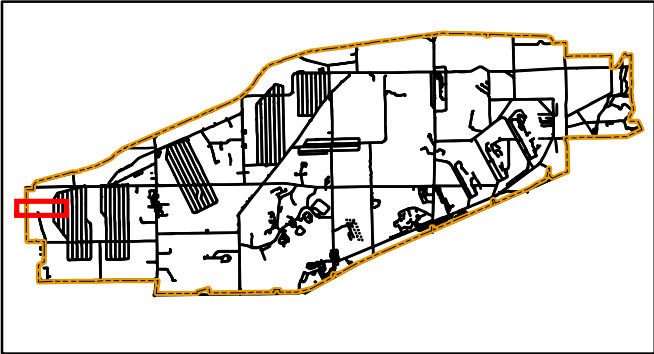
PHOTO SW18 discovered 07/15/2014

Legend

- Opening in fence (2'≥) and/or fabric missing/damaged
- Perimeter Fence Evaluated

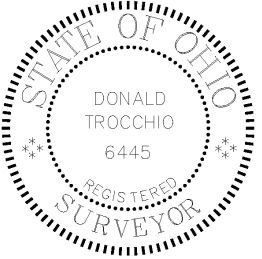


Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP

Ohio Army National Guard



Produced in March 2015 for:



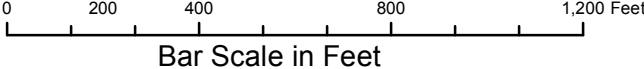
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



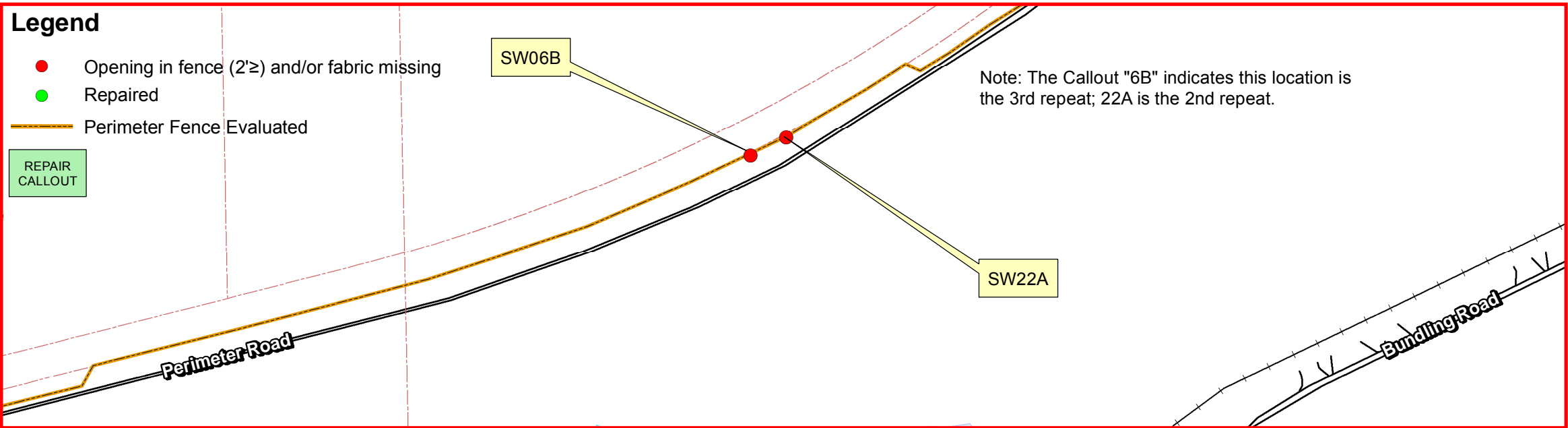
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW18

DETAIL SHEET FOR SW22A



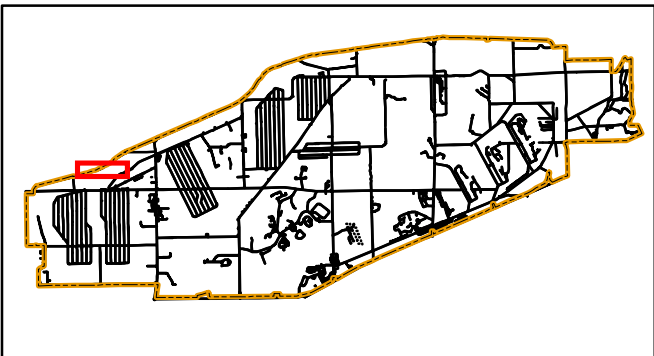
LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015 PERIMETER FENCE INSPECTION

PHOTO SW22A discovered 03/17/2015

NOTE: Repairs to this callout were completed on March 25, 2015. A photograph of this repair will be presented in the FY 2015 3rd Quarter LUC Inspection Report.



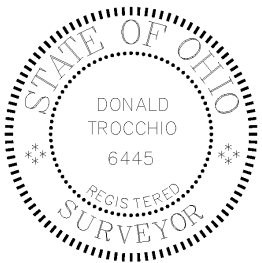
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

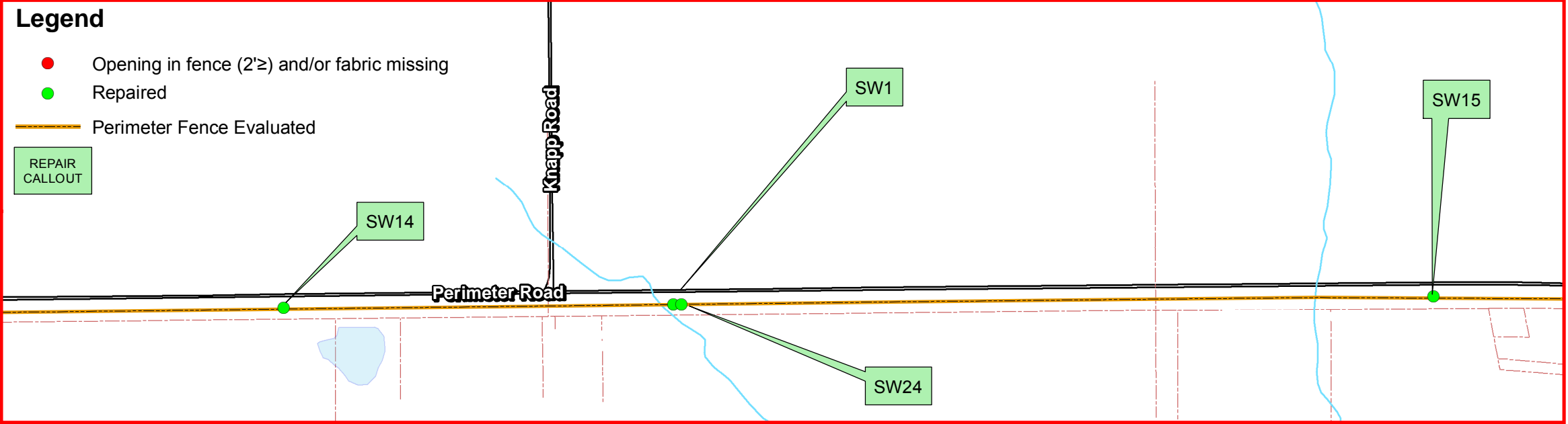
0 200 400 800 1,200 Feet
Bar Scale in Feet



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW22A

DETAIL SHEET FOR SW24



LAND USE CONTROL (LUC) INSPECTION 2nd QUARTER FY2015
PERIMETER FENCE INSPECTION

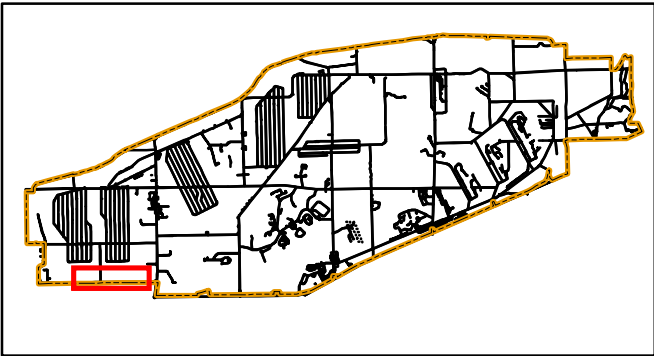
PHOTO SW24 as observed on 03/16/2015



PHOTO SW24 discovered 11/20/2014



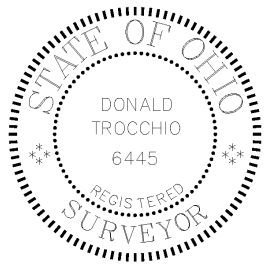
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



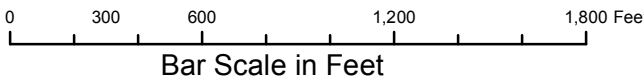
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW24

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

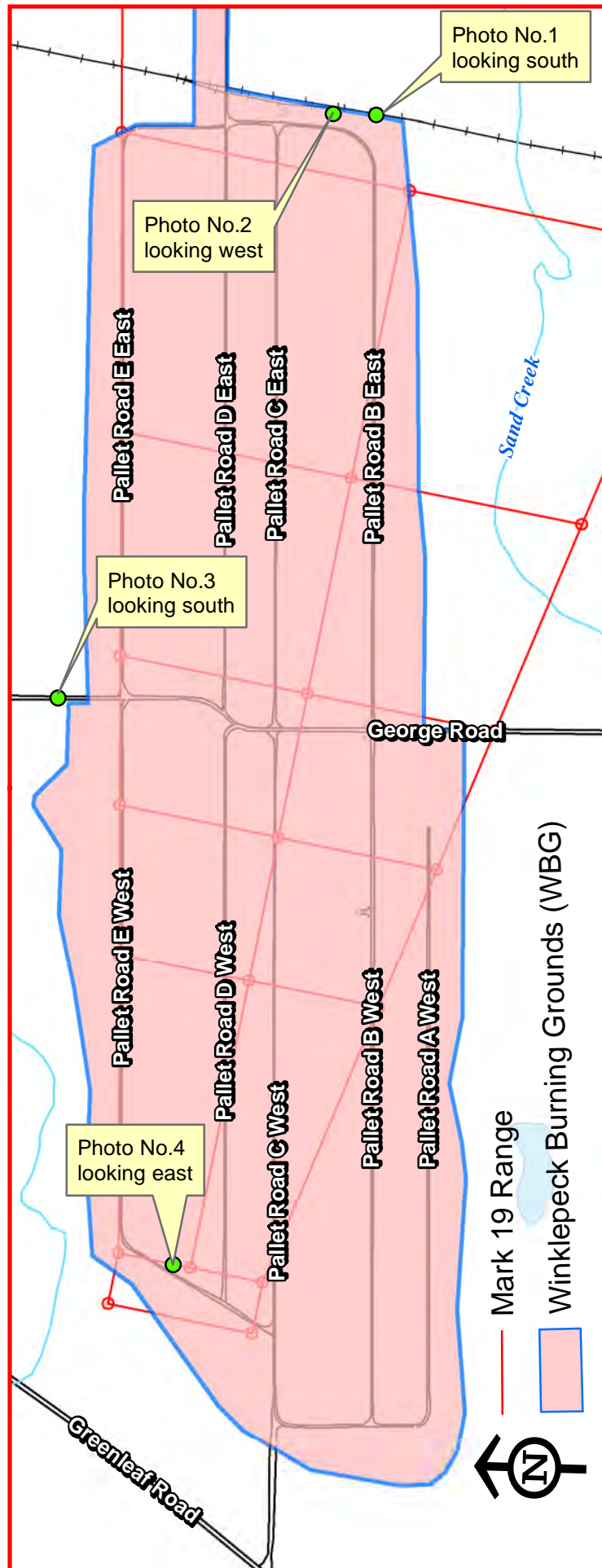
**Quarterly Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 2

Supplemental Detail Sheet No. 1

Camp Ravenna Fence Repair Log

Supplemental Detail Sheet No. 1



SUPPLEMENTAL DETAIL SHEET NO.1

LAND USE CONTROL (LUC) INSPECTION

PERIMETER FENCE INSPECTION

2nd QUARTER FY2015

PHOTO NO.2 03/26/2015



PHOTO NO.4 03/26/2015



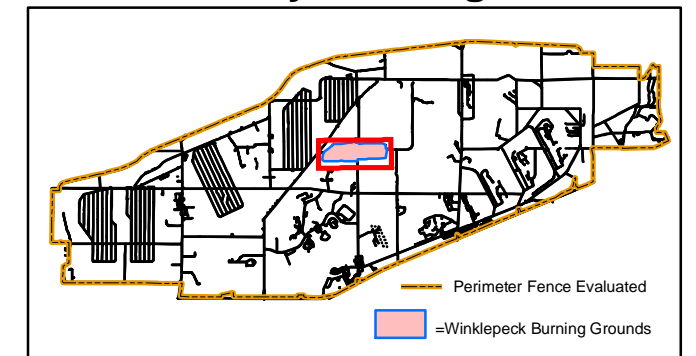
PHOTO No.1 03/26/2015



PHOTO NO.3 03/26/2015

PHOTO IMAGES WITHIN THE
WINKLEPECK BURNING GROUNDS (RVAAP-05)

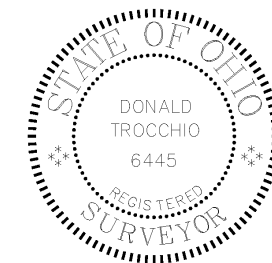
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:

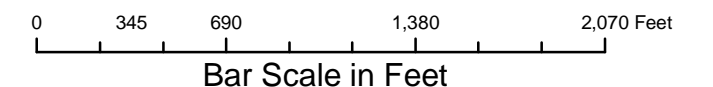


**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District

Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.1

Camp Ravenna Fence Repair Log

Repair Log

FY 2015 Second Quarter Land Use Control for RVAAP-05, Winklepeck Burning Grounds

Camp Ravenna, Ohio

[illegible]

Appendix I

Final FY 2015 Third Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds

Final
FY 2015 Third Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



October 30, 2015

REPORT DOCUMENTATION PAGE					<i>Form Approved OMB No. 0704-0188</i>	
<small>The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.</small>						
PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.						
1. REPORT DATE (DD-MM-YYYY)		2. REPORT TYPE			3. DATES COVERED (From - To)	
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER		
				5b. GRANT NUMBER		
				5c. PROGRAM ELEMENT NUMBER		
6. AUTHOR(S)				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)					8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)					10. SPONSOR/MONITOR'S ACRONYM(S)	
					11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT						
13. SUPPLEMENTARY NOTES						
14. ABSTRACT						
15. SUBJECT TERMS						
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON	
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER (Include area code)	

Final
FY 2015 Third Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



October 30, 2015

***Place Holder for
Ohio EPA Approval Letter***

(Letter will be inserted upon approval)

DOCUMENT DISTRIBUTION

For the
Final FY 2015 Third Quarter Land Use Control Inspections,
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Name/Organization	Number of Printed Copies	Number of Electronic Copies
Mark Leeper, ARNG-ILE Clean Up	0	1
Kevin Sedlak, ARNG and Katie Tait, OHARNG	0	0
Andrew Kocher, Ohio EPA Project Manager – NEDO-DERR	1	3
Justin Burke, Ohio EPA – CDO-DERR	0	Email w/o attachments0
Quyet La, USACE - Louisville	0	1
Administrative Record – RVAAP Restoration Program	2	2

ARNG-ILE = Army National Guard Environmental Programs Division

OHARNG = Ohio Army National Guard

Ohio EPA-NEDO-DERR = Ohio Environmental Protection Agency-Northeast District Office –Division of Environmental Response and Revitalization

Ohio EPA-CDO-DERR = Ohio Environmental Protection Agency-Central District Office –Division of Environmental Response and Revitalization

USACE = United States Army Corps of Engineers

RVAAP = Ravenna Army Ammunition Plant

LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
bgs	Below Ground Surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
EQM	Environmental Quality Management, Inc.
FWGWMPP	Facility-Wide Ground Water Monitoring Program Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
IRP	Installation Restoration Program
LUC	Land Use Control
MEC	Munitions and Explosives of Concern
MK	Mark
MRS	Munitions Response Site
MSG	Master Sergeant
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PS	Professional Surveyor
PMP	Property Management Plan
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
UXO	Unexploded Ordnance
WBG	Winklepeck Burning Grounds

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /
Former Ravenna Army Ammunition Plant (RVAAP)
Quarterly Land Use Control (LUC) Inspection Form
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on May 27 and 28, and June 1, 2, 3, 4, 8, 9, 10, 11 and 15, 2015.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective control and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark (MK) 19 Grenade Machinegun Range is prohibited with the following exceptions:
 - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
 - Ground surface repairs by authorized range personnel in support of authorized range activities; and
 - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
 1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
 2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.

Review of LUCs – Management/Effectiveness/Corrective Action

1. AOC Map

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on May 28, 2015 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

2. Camp Ravenna Perimeter Fence

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. In FY 2014, over 4500' of the perimeter fence at the west end of the facility was replaced and/or had barbed wire repairs completed. Also in FY 2014, a large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 was replaced. As observed during the FY 2015 3rd quarter inspection, the fence has been repaired at 8 locations since the previous quarterly inspection in February/March 2015. These locations are NW10A, NW12, NE31, NE34, NE35, SW6B, SW18 and SW22A. Attachment 1, Figure 1 Index Map and Summary Table, and associated Detail Sheets present the damaged fence areas and photographs of repaired areas.

3. Activities and Land Use

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on June 11, 2015 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

The WBG/MK19 Range has been utilized for training purposes (i.e., MK19 Range firing/activities) since the last inspection. Additionally, mowing has occurred since the previous inspection. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on June 11, 2015, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter were conducted in May 2015.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.

2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

- f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on June 15, 2015 with Mr. Scott Spesshardt of EQM, he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide groundwater sampling event took place in March 2015. The next FWGWMPP sampling event is currently scheduled for July 2015.

4. Inspections and Reporting

- a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

Quarterly Inspections have been completed for FY 2013 and FY 2014. This is the third Quarterly Inspection to be conducted for FY 2015. All Quarterly Inspections for FY 2013, FY 2014 and FY 2015 were conducted in accordance with the approved PMP dated August 2012.

- b.) An annual report is required. Has the annual report been completed and submitted?

The Final FY 2014 Annual Report was submitted on January 12, 2015 and approved on March 17, 2015.

5. Training (as applicable to WBG)

- a.) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for WBG. Using units also receive an in-brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access WBG are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office. LUC training specific to WBG was held on March 3rd and 5th, 2015 for Camp Ravenna units/staff. US Army Corps of Engineer personnel received the LUC briefing on June 2, 2015 prior to accessing the southern portions of the Winklepeck Burning Grounds AOC to conduct their MEC probability assessment for the adjacent Open Demolition Area # 2 MRS. Training will be conducted for additional Camp Ravenna staff and contractors that missed the March training dates as needed.

- b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

6. Description of any observed/noted LUC violation(s):

The Camp Ravenna perimeter fence has 5 missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. These areas have been assigned the following call-out numbers: NW1B, NW13, NE32, NE36 and NE37. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

7. Date of Notification of LUC violation (if applicable):

The Army was notified via e-mail on June 3, 4 and 8, 2015 of four new fence defects discovered during the 3rd Quarter FY 2015 facility perimeter fence evaluation. These locations are NW13, NW1B, NW36 and NW37 (See Attachment 1, Figure 1 Index Map and Summary Table, and associated detail sheets).

8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

As observed during the third quarter LUC inspection, the following perimeter fence defects were repaired: NE31, NE34, NE35, SW6B, SW18, SW22A, NW10A and NW12.

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired and/or reported since the last inspection.

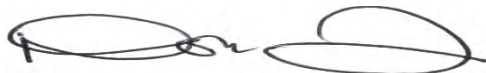
These efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection.

9. Additional Notes/Comments:

As requested by the Ohio EPA, WBG photographs taken during the LUC Inspection are included with this report (Attachment 2, Supplemental Detail Sheet No. 1).

Original Inspection Completed by:

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: June 23, 2015

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

**FY 2015 Third Quarter
Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 1

Figure 1 Index Map

FY 2015 Callout/Repair Summary Table

Detailed Quadrant Maps

Figure 1 Index Map

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 3rd Qtr. FY 2015

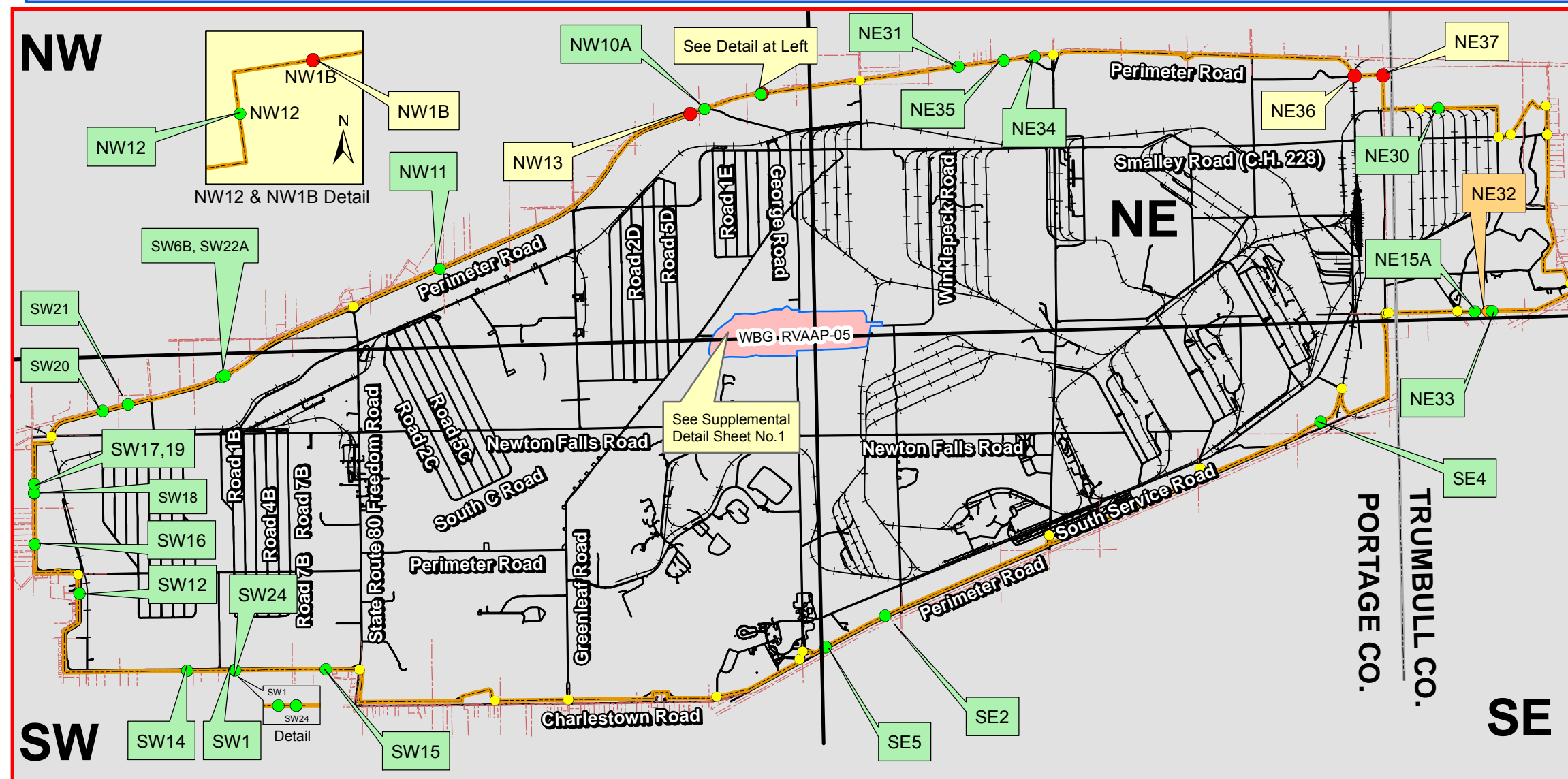


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2'≥) and/or fabric missing/damaged (4 locations)
- Repaired in FY2015 (25 Locations Total)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

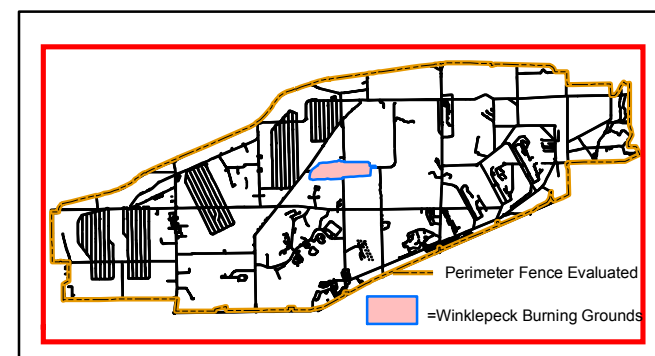
Detail Sheet
Callout

Detail Sheet
Repair Callout

Detail Sheet
Repair in Progress
Callout

SEE ATTACHED SUMMARY TABLE AND DETAIL SHEETS FOR EACH
DESIGNATED CALLOUT LOCATION

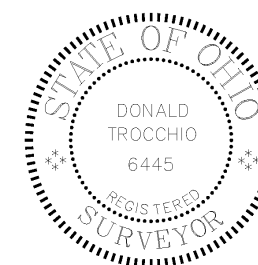
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



US Army Corps of
Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 2,500 5,000 10,000 15,000 Feet
Bar Scale in Feet



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

FY 2015 Callout/Repair Summary Table

FY 2015 3rd QUARTER CALLOUT/REPAIR SUMMARY TABLE
Camp Ravenna Joint Military Training Center 3rd Qtr FY2015 LUC Inspection

Callout	Date	Comments	US Survey Ft	
			Northing	Easting
NW1B	6/3/2015	repeat poacher hole (3)	571637	2356382
NW13	6/2/2015	poacher hole	570866	2353636
NE32	3/30/2015	12in tree has fallen on to the fence	563254	2384389
NE36	6/4/2015	poacher hole	572329	2379236
NE37	6/4/2015	poacher hole	572335	2380333
NE30	7/21/2014	poacher hole	571083	2382464
SE04	11/25/2013	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933
SE05	04/22/2014	washout below undamaged fence	550299	2358851
SW14	4/14/2014	poacher hole in fence	549386	2334237
SW15	7/15/2014	tree blow down	549438	2339580
SW16	7/15/2014	tree blow down/damaged fence	554267	2328362
SW17	7/15/2014	tree blow down/fence top damaged	556228	2328345
SW19	7/15/2014	tree blow down/top fence damaged	556581	2328342
SW20	7/15/2014	hole in bottom of fence below sign	559398	2330974
SW21	7/15/2014	hole at bottom of fence	559659	2331945
SW22	7/16/2014	poacher hole	560762	2335683
NW11	11/26/2014	old abandoned rr utility pole leaning over top of fence	564883	2343968
NE15A	12/15/2014	poacher hole (repeat)	563240	2383872
NE33	12/15/2014	8in tree has fallen on to the fence	563257	2384533
SE02	12/16/2014	washout	551498	2361141
SW12	11/18/2013	storm washout about 2 sections inlet needs cleared	552357	2330086
SW24	11/20/2014	poacher hole	549402	2336086
NE31	3/18/2015	utility pole fallen on top of fence	572684	2363973
NE34	3/19/2015	poacher hole	573073	2366913
NE35	3/19/2015	repeat poacher hole of undocumented repair	572916	2365711
SW6B	3/17/2015	poacher hole in fence (repeat)	560708	2335572
SW18	7/15/2014	hole under fence at culvert outlet	556241	2328345
SW22A	3/17/2015	repeat poacher hole	560762	2335683
NW10A	3/18/2015	repeat cut poacher hole in new fence	571046	2354186
NW12	3/19/2015	poacher hole	571617	2356355

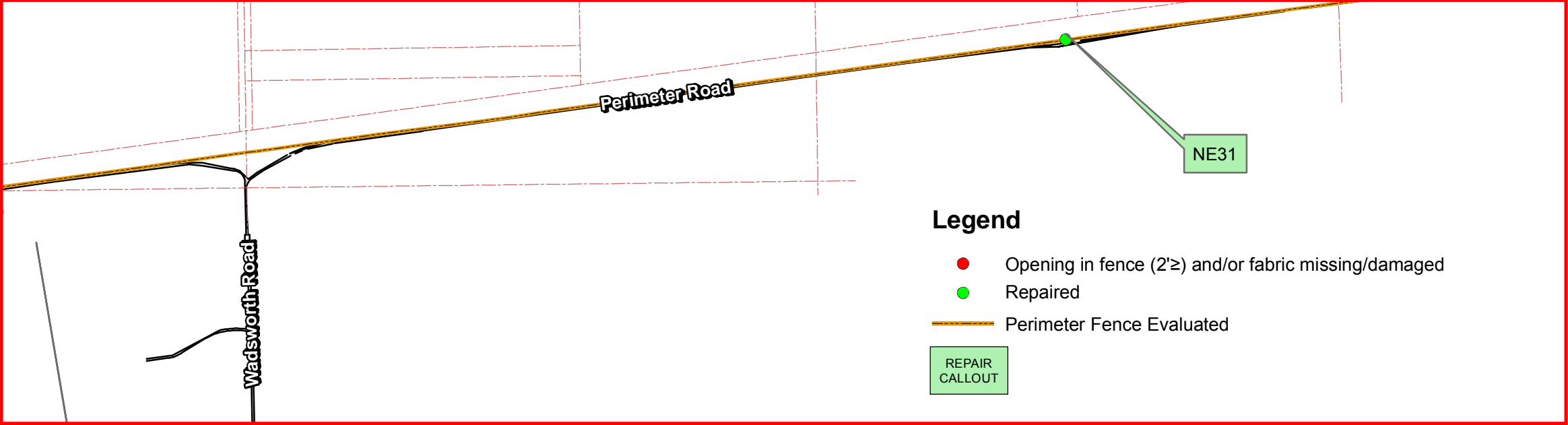
REPAIRED 1ST QTR

REPAIRED 2ND QTR

REPAIRED 3RD QTR

NE (Northeast) Quadrant

DETAIL SHEET FOR NE31



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

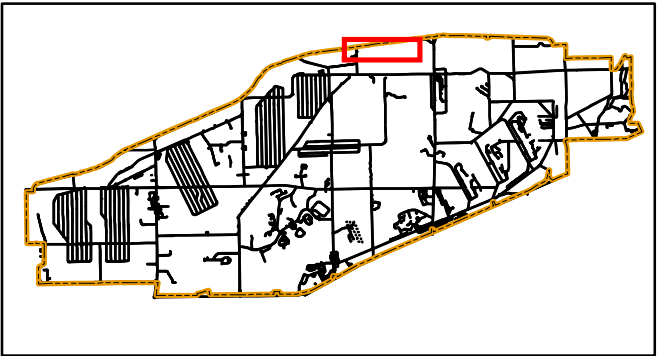
REPAIR PHOTO NE31 dated 06/03/2015



PHOTO NE31 discovered 12/03/2014



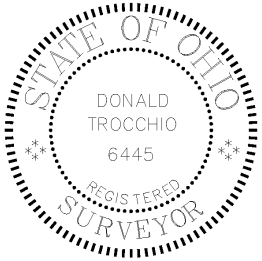
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



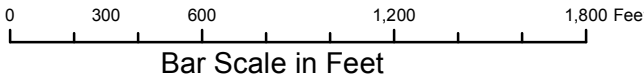
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



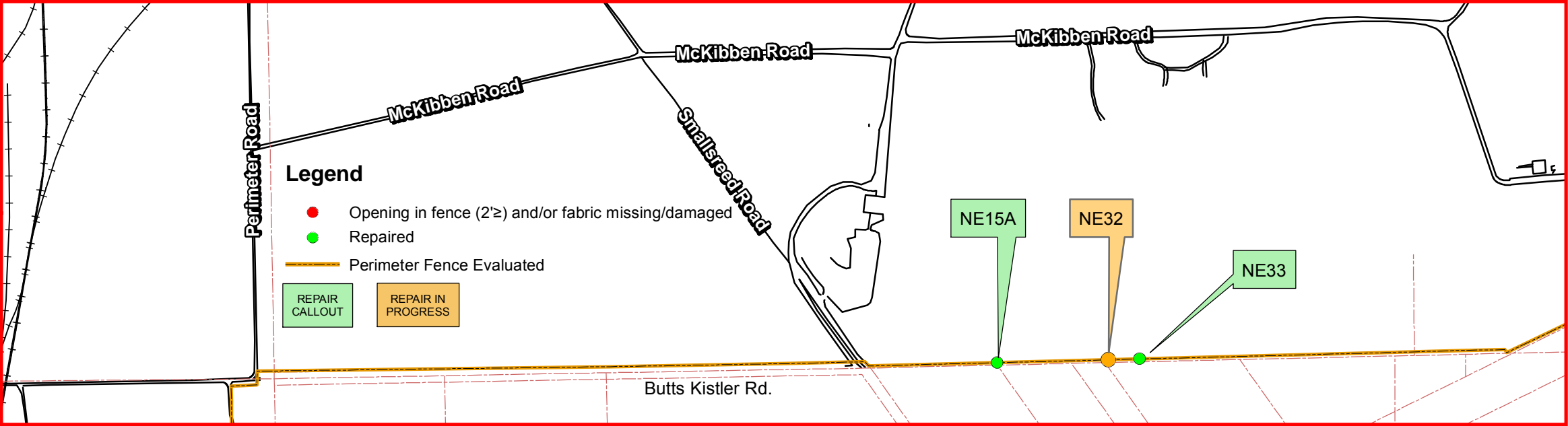
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE31

DETAIL SHEET FOR NE32



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

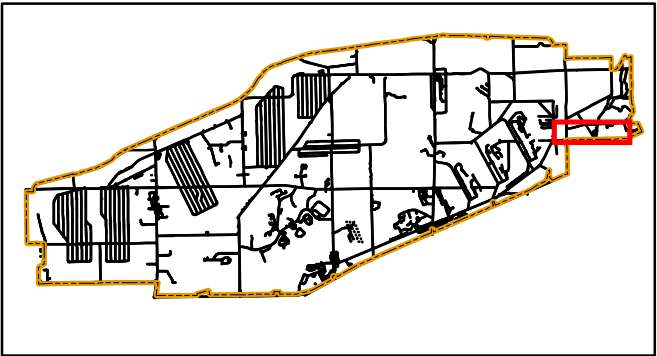
PHOTO NE32 dated 06/08/2015 showing partial repair



PHOTO NE32 discovered 12/15/2014



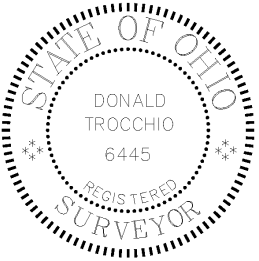
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



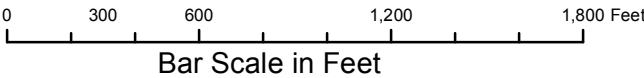
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



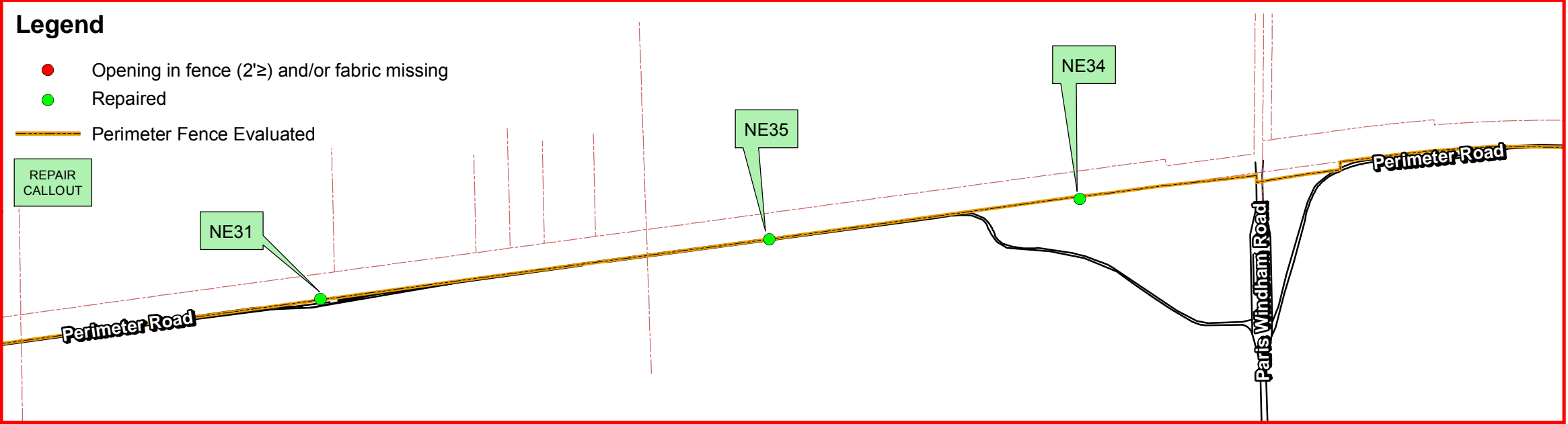
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE32

DETAIL SHEET FOR NE34



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

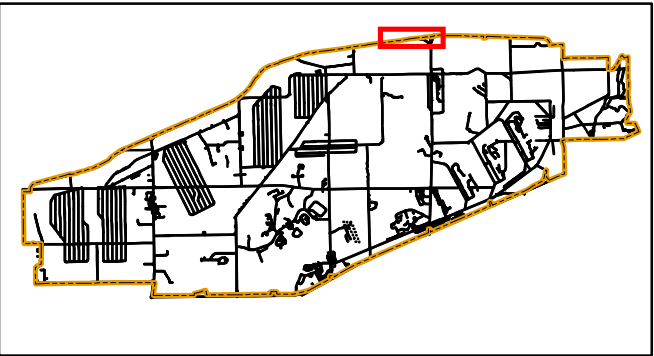
REPAIR PHOTO NE34 dated 06/03/2015



PHOTO NE34 discovered 03/19/2015



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

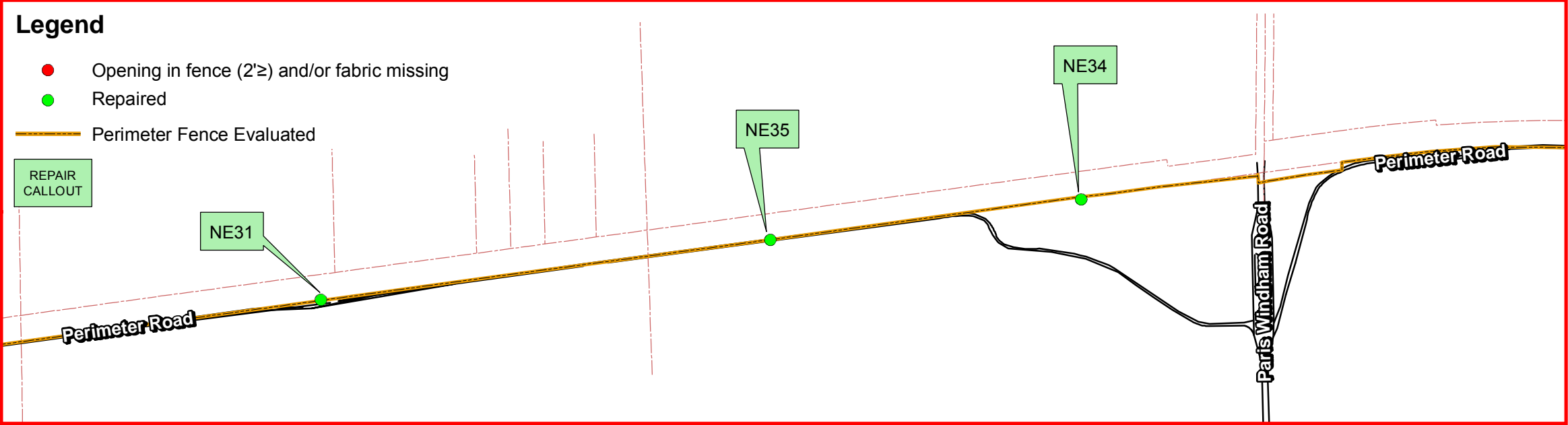
0 250 500 1,000 1,500 Feet
Bar Scale in Feet



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE34

DETAIL SHEET FOR NE35



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

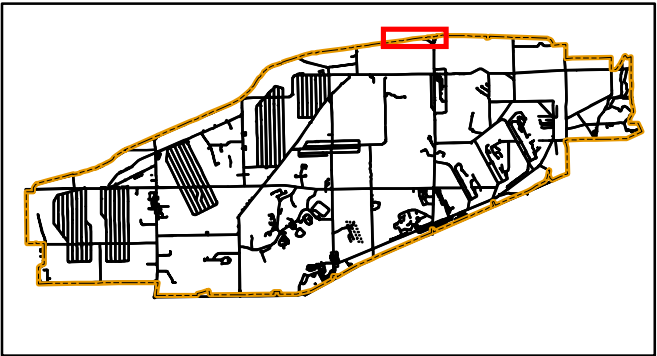
REPAIR PHOTO NE35 dated 06/03/2015



PHOTO NE35 discovered 03/19/2015



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



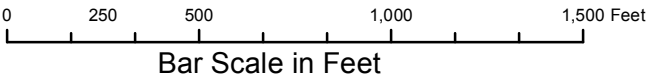
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



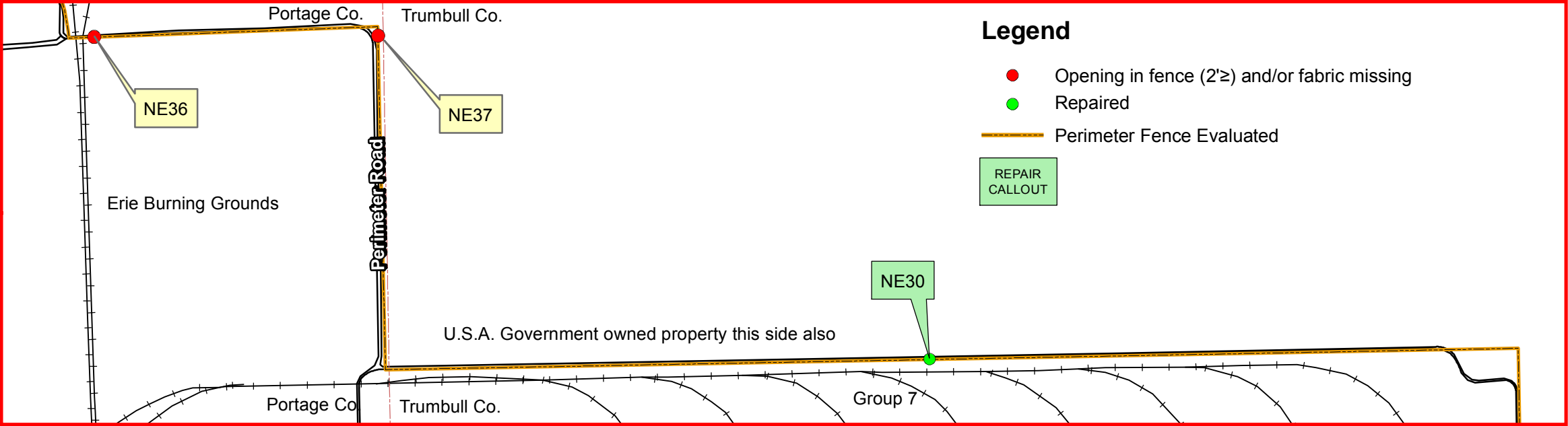
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE35

DETAIL SHEET FOR NE36

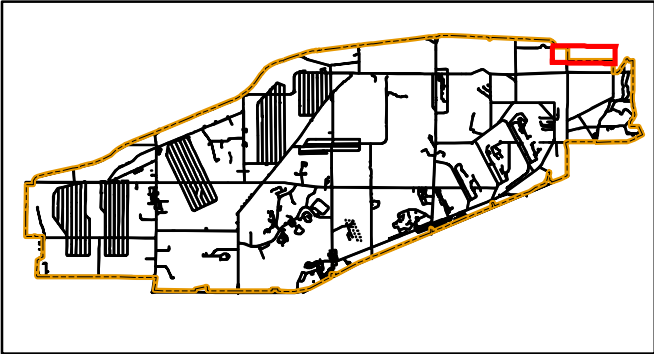


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE36 discovered 06/04/2015



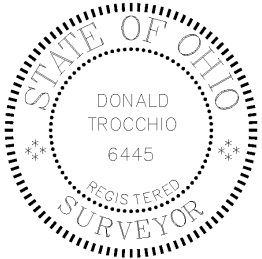
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



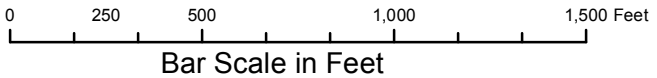
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



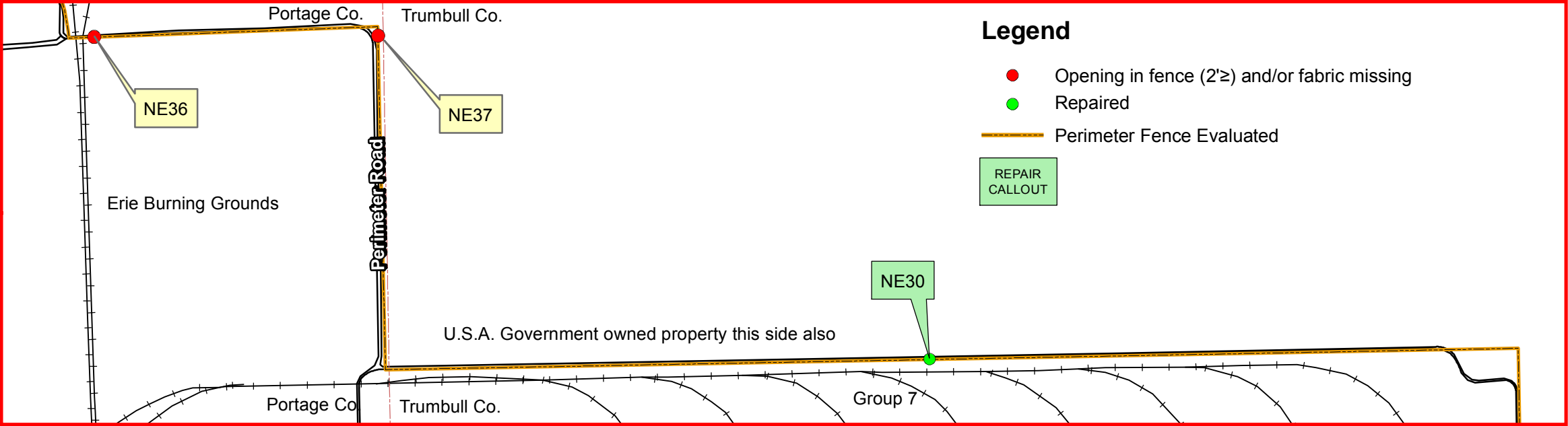
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

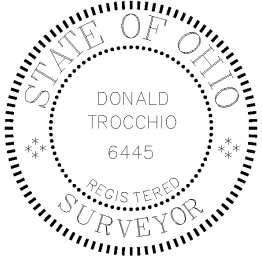
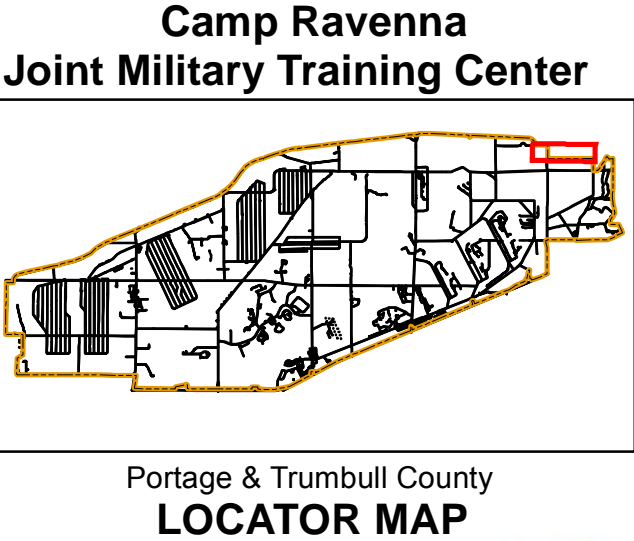
DETAIL SHEET FOR NE36

DETAIL SHEET FOR NE37



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE37 discovered 06/04/2015



Produced in June 2015 for:

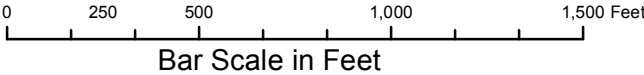


US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

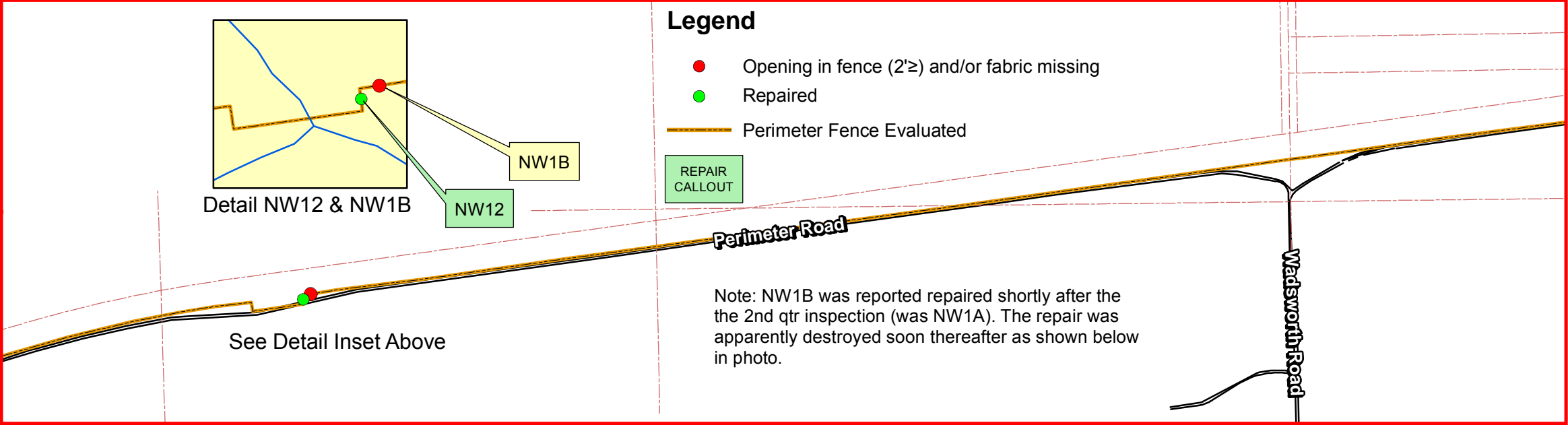


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE37

NW (Northwest) Quadrant

DETAIL SHEET FOR NW1B

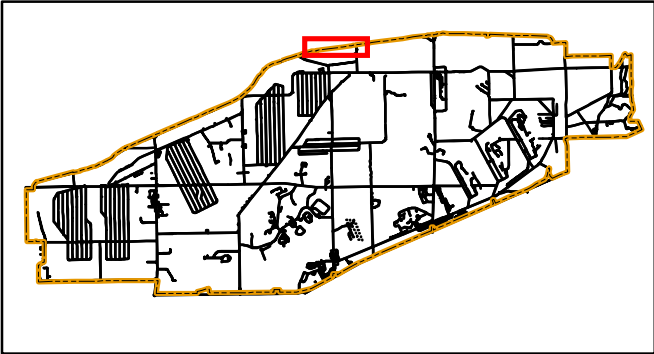


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW1B dated 06/03/2015



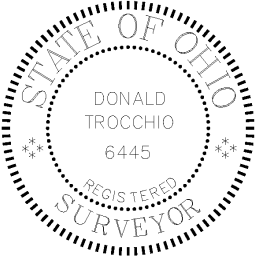
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



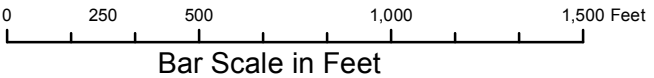
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

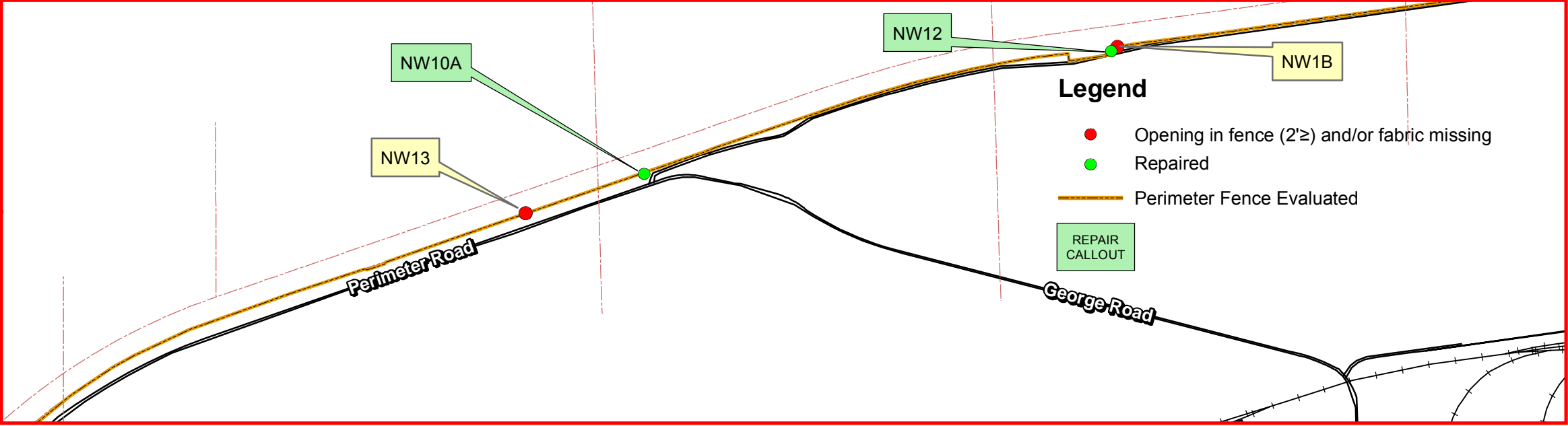


Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW1B

DETAIL SHEET FOR NW10A



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

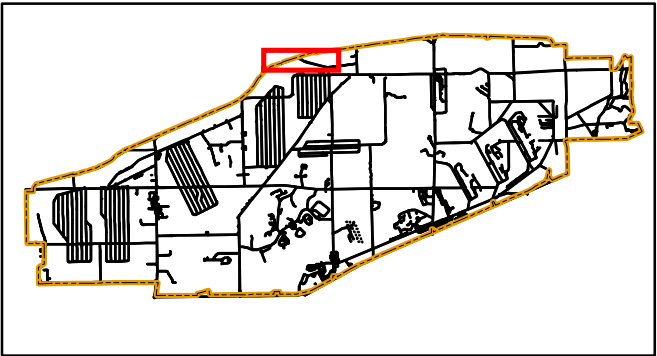
REPAIR PHOTO NW10A dated 06/02/2015



PHOTO NW10A discovered 03/18/2015



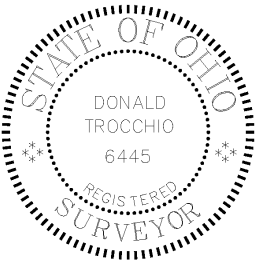
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



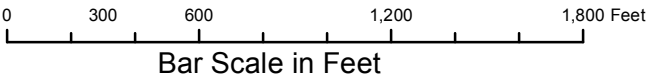
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

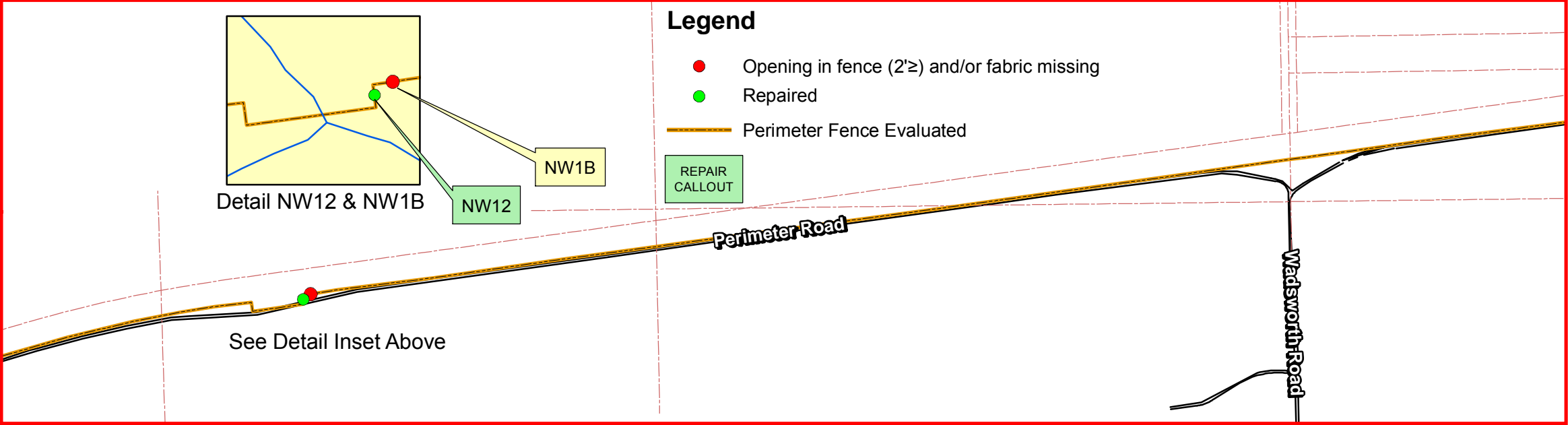


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

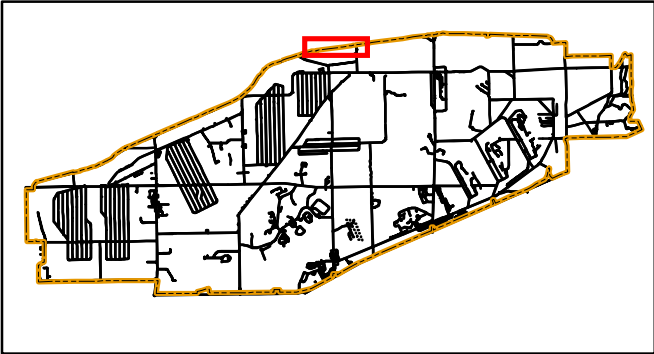
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW10A

DETAIL SHEET FOR NW12



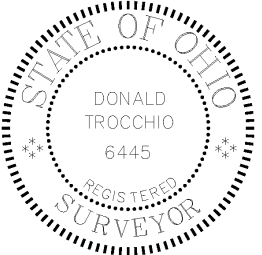
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

REPAIR PHOTO NW12 dated 06/03/2015



PHOTO NW12 discovered 03/19/2015



Produced in June 2015 for:



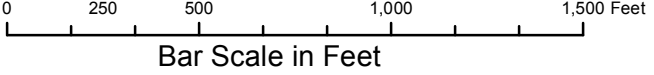
US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



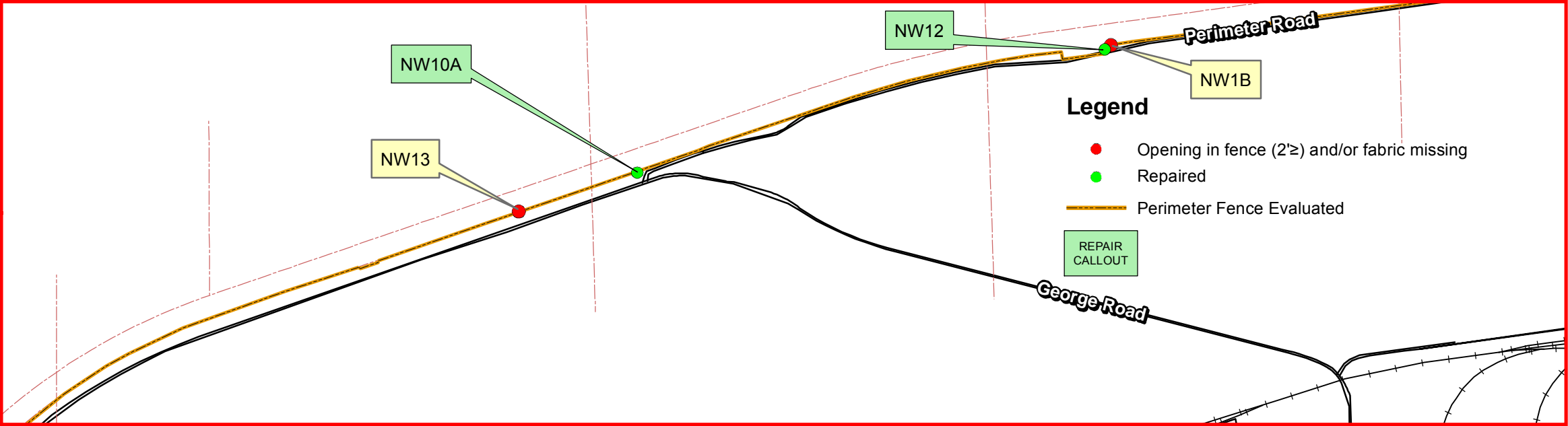
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW12

DETAIL SHEET FOR NW13

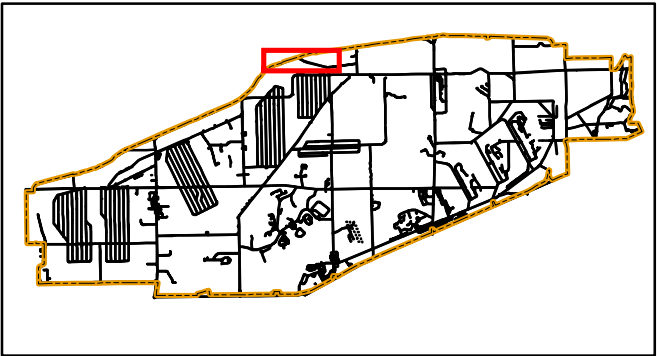


LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NW13 discovered 06/02/2015



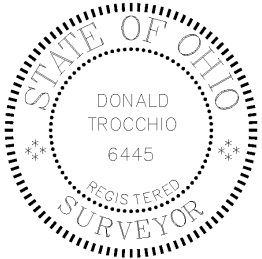
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

0 300 600 1,200 1,800 Feet
Bar Scale in Feet



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

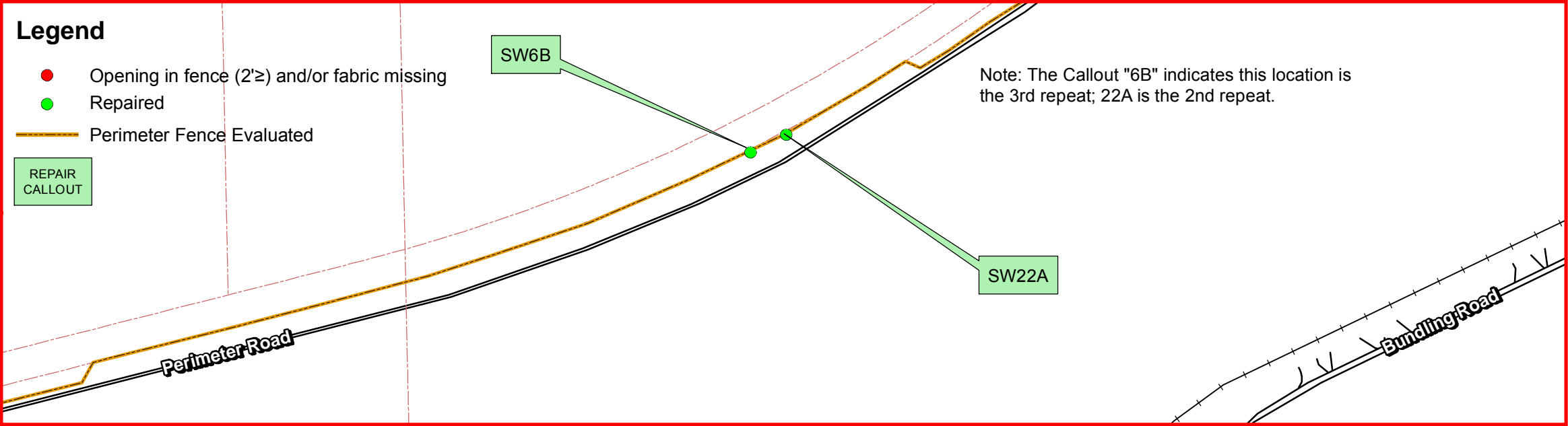
DETAIL SHEET FOR NW13

SE (Southeast) Quadrant

(No Detail Sheets for FY 2015 3rd Quarter LUC Inspection Report)

SW (Southwest) Quadrant

DETAIL SHEET FOR SW6B



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

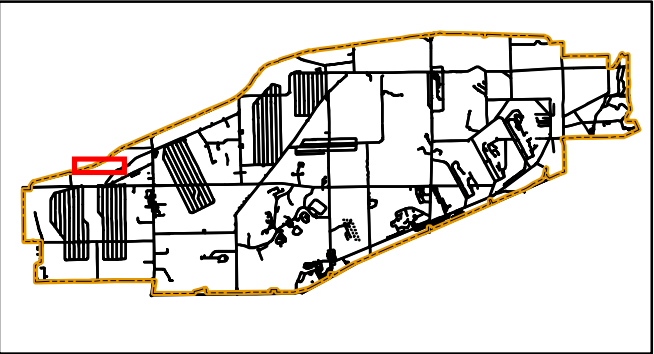
REPAIR PHOTO SW6B dated 06/01/2015



PHOTO SW6B discovered 03/17/2015



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

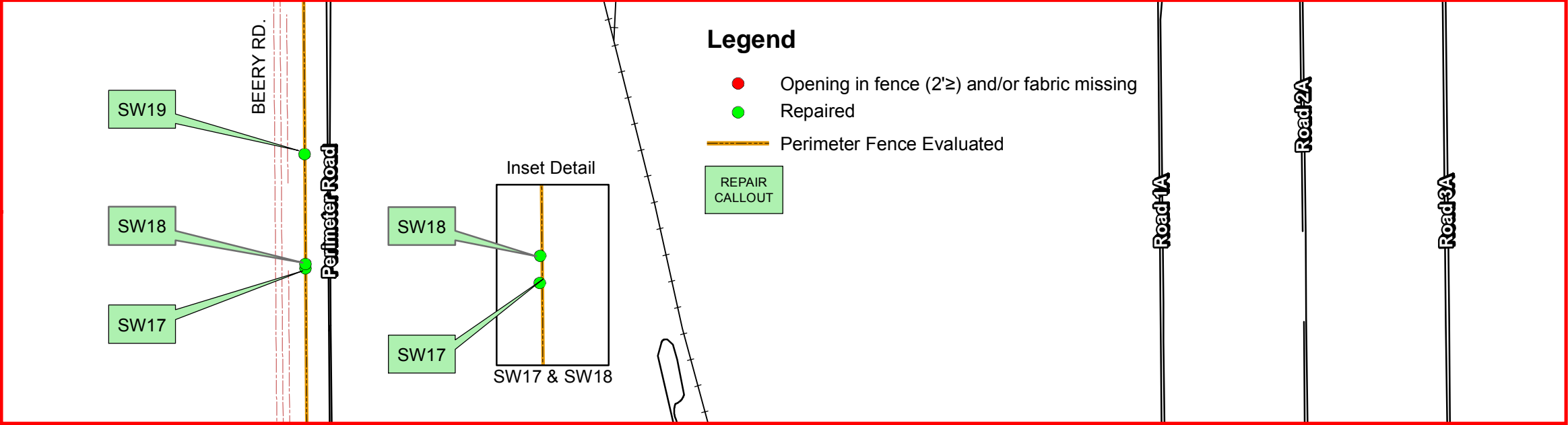
0 200 400 800 1,200 Feet
Bar Scale in Feet



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW6B

DETAIL SHEET FOR SW18



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015
PERIMETER FENCE INSPECTION

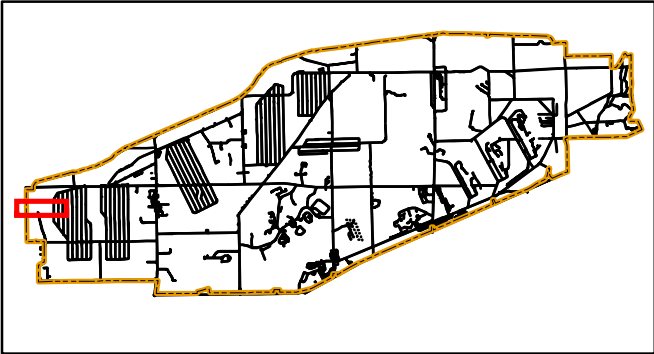
REPAIR PHOTO SW18 dated 06/01/2015



PHOTO SW18 discovered 07/15/2014



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



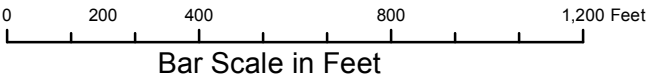
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



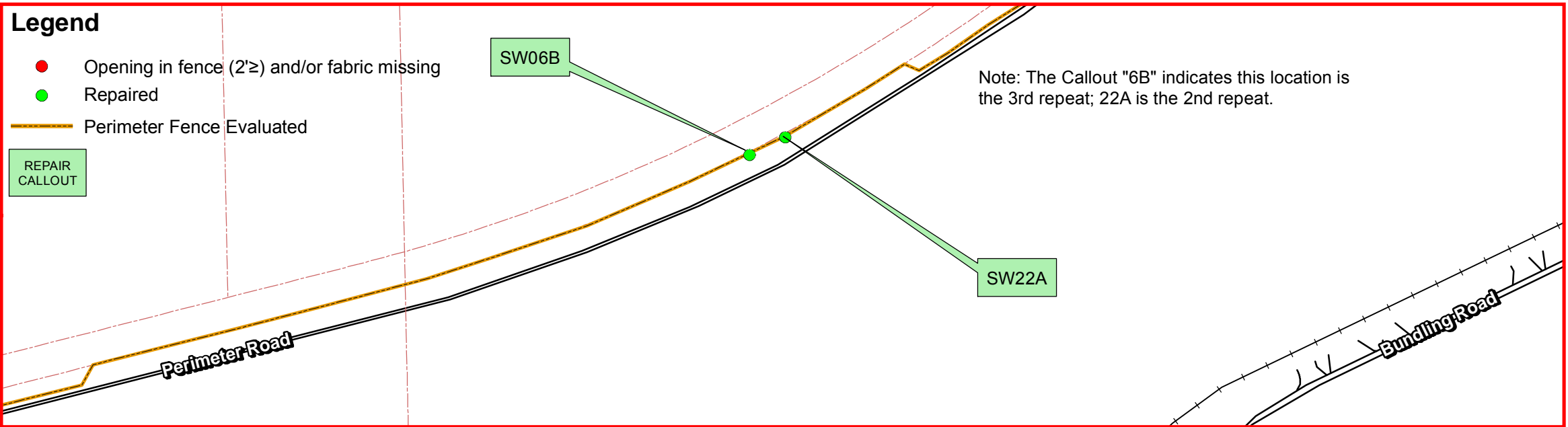
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW18

DETAIL SHEET FOR SW22A



LAND USE CONTROL (LUC) INSPECTION 3rd QUARTER FY2015 PERIMETER FENCE INSPECTION

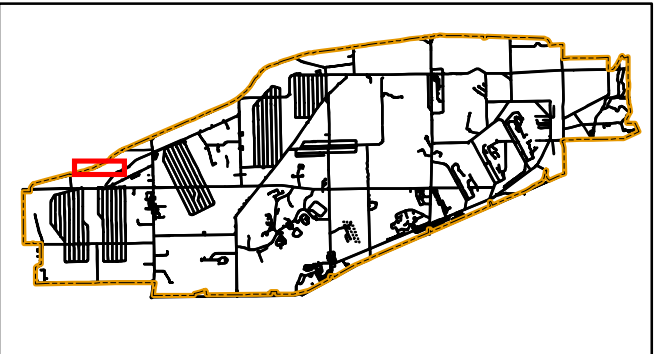
REPAIR PHOTO SW22A dated 06/01/2015



PHOTO SW22A discovered 03/17/2015



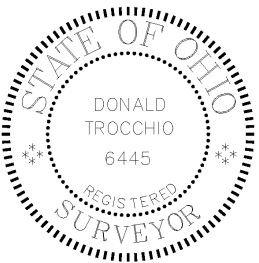
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



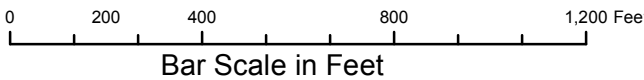
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SW22A

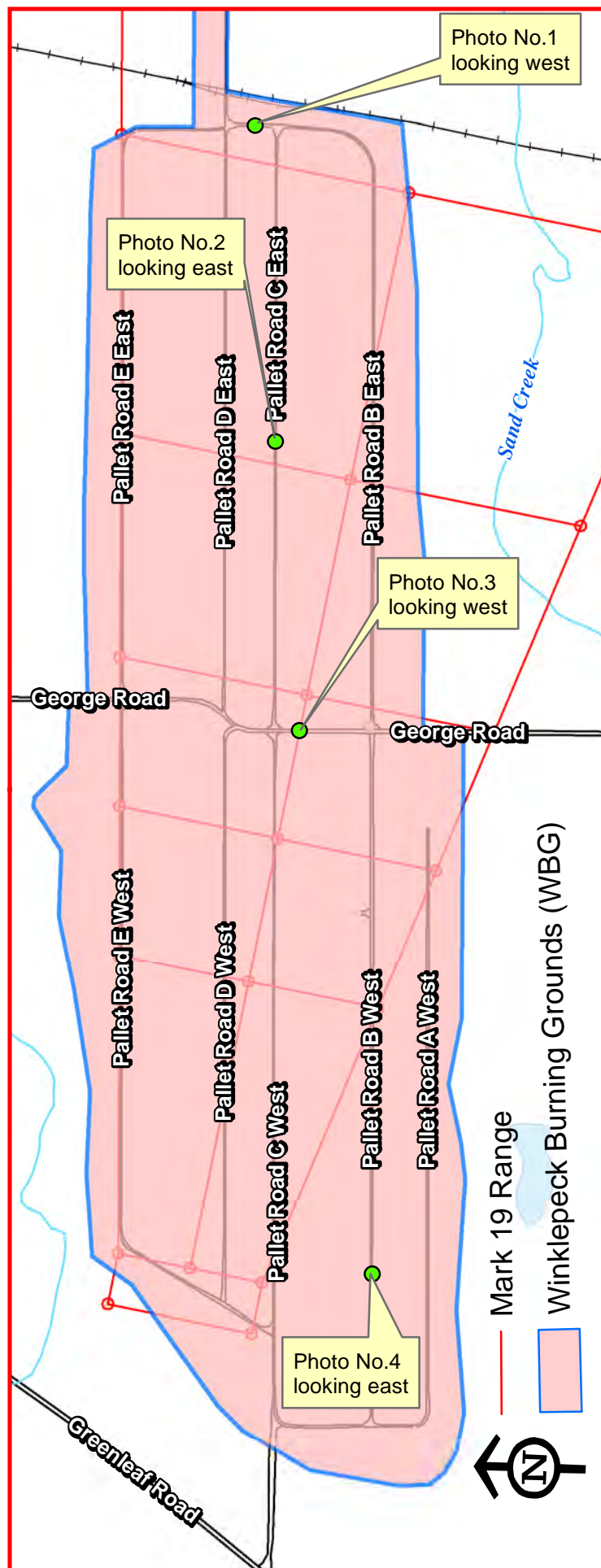
**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

**Quarterly Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 2

Supplemental Detail Sheet No. 1

Supplemental Detail Sheet No. 1



SUPPLEMENTAL DETAIL SHEET NO.1

LAND USE CONTROL (LUC) INSPECTION

PERIMETER FENCE INSPECTION

3rd QUARTER FY2015

PHOTO NO.2 06/10/2015



PHOTO NO.4 06/10/2015



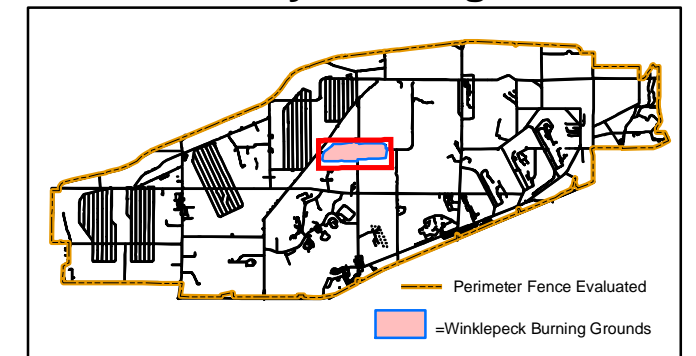
PHOTO No.1 06/10/2015



PHOTO NO.3 06/10/2015

PHOTO IMAGES WITHIN THE
WINKLEPECK BURNING GROUNDS (RVAAP-05)

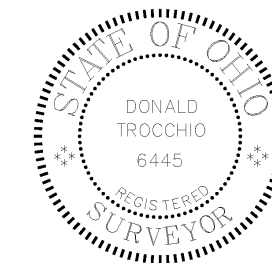
Camp Ravenna Joint Military Training Center



Portage & Trumbull County LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:

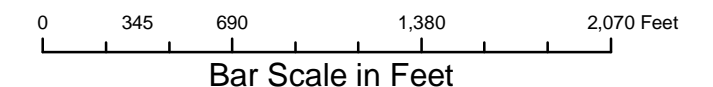


US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District

Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.1

Appendix J

Final FY 2015 Fourth Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds

Final
FY 2015 Fourth Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



600 E. Montana Ave.
Las Cruces, NM 88001

December 18, 2015

DISCLAIMER STATEMENT

This document is a work prepared for the United States Government by Vista Sciences Corporation. In no event shall either the United States Government or U.S. Army Corps of Engineers have any responsibility or liability for any consequences of any use, misuse, inability to use, or reliance on the information contained herein, nor does either warrant or otherwise represent in any way the accuracy, adequacy, efficacy, or applicability of the contents hereof.

Final
FY 2015 Fourth Quarter Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds

Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Contract No. W912QR-13-C-0031

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:



600 E. Montana Ave.
Las Cruces, NM 88001

December 18, 2015

(Placeholder for Ohio EPA Approval Letter)

Final Document Distribution

Name/Organization	Number of Printed Copies	Number of Electronic Copies
Mark Leeper, ARNG-ILE-CR	0	1
Kevin Sedlak, ARNG – Camp Ravenna	0	0
Katie Tait, OHARNG – Camp Ravenna	0	0
Drew Kocher, Ohio EPA Project Manager – NEDO-DERR	1	3
Justin Burke, Ohio EPA – CO - DERR	0	Email w/o attachment
Quyet C. La, USACE – Louisville District	0	1
Gail Harris, AR Manager – Camp Ravenna	2	2

AR = Administrative Record

ARNG = Army National Guard

ARNG-ILE-CR = Army National Guard – Installations Logistics Environmental – Cleanup Restoration

CO = Central Office

DERR = Division of Environmental Response and Revitalization

EPA = Environmental protection Agency

NEDO = Northeast District Office

OHARNG = Ohio Army National Guard

USACE = U.S. Army Corps of Engineers

LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
ARNG-ILE	Army National Guard Environmental Programs Division
bgs	below ground surface
Camp Ravenna	Camp Ravenna Joint Military Training Center
EQM	Environmental Quality Management, Inc.
FWGWMPP	Facility-Wide Ground Water Monitoring Program Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
IRP	Installation Restoration Program
LUC	Land Use Control
MEC	Munitions and Explosives of Concern
MK	Mark
MRS	Munitions Response Site
MSG	Master Sergeant
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PS	Professional Surveyor
PMP	Property Management Plan
RVAAP	Ravenna Army Ammunition Plant
SOP	Standard Operating Procedure
UXO	Unexploded Ordnance
WBG	Winklepeck Burning Grounds

**Camp Ravenna Joint Military Training Center (Camp Ravenna) /
Former Ravenna Army Ammunition Plant (RVAAP)
Quarterly Land Use Control (LUC) Inspection Form
RVAAP-05 Winklepeck Burning Grounds**

In accordance with the Camp Ravenna/former RVAAP Property Management Plan (PMP) dated August 2012 and Appendix A-1, an inspection of RVAAP-05 Winklepeck Burning Grounds (WBG) was conducted by Don Trocchio on July 27 - 30, and August 3 - 6, 10 - 13, 2015.

The quarterly inspections required by the PMP include the following:

- Review of LUC training and documentation as applicable to WBG.
- Evaluation of the Camp Ravenna perimeter fence to ensure that it is maintained in a manner that is protective and effective control and deters trespassers.
- Evaluation of activities at WBG to ensure that all activities executed within WBG are in compliance with Ohio Army National Guard (OHARNG) range safety regulations/standard operation procedure (SOP), established digging restrictions, and established exposure limits. All digging, intrusive activities, or excavation on the WBG Area of Concern (AOC) outside of the Unexploded Ordnance (UXO)/ Munitions and Explosives of Concern (MEC)-cleared areas within the Mark (MK) 19 Grenade Machinegun Range is prohibited with the following exceptions:
 - Routine maintenance of roads, ditches, culverts and activities listed in A-1.4 of the PMP (maintenance of targetry and associated lifting mechanisms, range maintenance activities including removal of practice rounds, vegetation management, compatible natural resource management activities, nuisance wildlife control, drainage maintenance, wetland delineation, grassland management, scientific research and sampling activities);
 - Ground surface repairs by authorized range personnel in support of authorized range activities; and
 - Digging along target array areas by authorized range personnel to a depth of 1 foot below ground surface (bgs).

This shall also include evaluation of required range signage. The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations.

- Evaluation of groundwater activities to ensure that any groundwater activities are being conducted in a manner consistent with established LUCs. Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:
 1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent Facility-Wide Sampling and Analysis Plan (FWSAP) as part of the AOC-specific Installation Restoration Program (IRP) or Facility-Wide Ground Water Monitoring Program Plan (FWGWMPP).
 2. The abandonment and replacement of monitoring wells damaged by activities conducted on Camp Ravenna and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio Environmental Protection Agency (Ohio EPA) guidance, the most recent FWSAP, and applicable Ohio Administrative Code requirements.

LUC deficiencies or inconsistent land uses that are identified must be reported and identified on the quarterly inspection form/report. These deficiencies must also be reported immediately to the Army, along with suggestions on how to remedy the deficiencies.

Review of LUCs – Management/Effectiveness/Corrective Action

1. AOC Map

Is the AOC map current with respect to AOC boundaries, land activities, and prescribed LUCs?

The AOC map was reviewed on July 28, 2015 by Don Trocchio, Professional Surveyor (PS), and it is current with respect to AOC boundaries, land activities and prescribed LUCs.

2. Camp Ravenna Perimeter Fence

Is the Camp Ravenna perimeter fence and associated gates being maintained in order to be an effective and protective control and deter trespassers?

The perimeter fence is currently being maintained by OHARNG staff to ensure it is an effective and protective land use control. In FY 2014, over 4500' of the perimeter fence at the west end of the facility was replaced and/or had barbed wire repairs completed. Also in FY 2014, a large section of fence (posts and fabric) on the northern perimeter from the Trumbull/Portage County line west to just west of former Post 34 was replaced. As observed during the FY 2015 4th quarter inspection, the fence has been repaired at 4 locations since the previous quarterly inspection in May/June 2015. These locations are NW1B, NW13, NE36 and NE37. Attachment 1, Figure 1 Index Map and Summary Table, and associated Detail Sheets present the damaged fence areas and photographs of repaired areas.

3. Activities and Land Use

a.) This AOC is restricted from residential land use. Has residential use occurred? Have other land use changes occurred?

Based on an interview with OHARNG Range Control Staff (Master Sergeant [MSG] Rex Hufenbach) on August 11, 2015 at the OHARNG Headquarters Building, no residential land use has occurred. Additionally, there has been no change in land use at the AOC since the previous inspection.

b.) What activities have occurred at WBG since the last inspection?

The WBG/MK19 Range has been utilized for training purposes (i.e., MK19 Range firing/activities) since the last inspection. Additionally, mowing has occurred since the previous inspection. FWGWMPP groundwater monitoring wells located within WBG were sampled in July 2015. All activities are in accordance with designated LUCs/restrictions.

c.) Are activities (digging, range maintenance etc.) at WBG being conducted in compliance with OHARNG range safety regulations/SOP and established digging restrictions?

Based on an interview with MSG Rex Hufenbach on August 11, 2015, all activities within WBG are being conducted in compliance with OHARNG Range Safety Regulations/SOP and established digging restrictions. All activities are in accordance with those set forth in the PMP.

d.) Is the required range signage in place and functional? The range is required to be marked with signage in conformance with the requirements of the current Department of Army regulations. If not, describe what corrective actions will be undertaken?

MSG Rex Hufenbach stated all signage is placed at 200-meter intervals and found to be upright and intact and in conformance with Army regulations. Annual repairs for signage along the surface danger zone perimeter were conducted in May 2015.

e.) Groundwater: Groundwater use or extraction of groundwater located at or underlying the WBG AOC or any portion thereof is prohibited, except for the following:

1. The installation, development, purging, and sampling of new or existing monitoring wells in accordance with the most recent FWSAP as part of the AOC-specific IRP or FWGWMPP.
2. The abandonment and replacement of monitoring wells damaged by Installation activities, and wells no longer utilized as part of IRP or FWGWMPP activities, in accordance with Ohio EPA guidance, the most recent FWSAP and applicable Ohio Administrative Code requirements.

f.) Have any groundwater activities been conducted and, if yes, are they within the established control parameters?

Facility-wide Ground Water Monitoring Well sampling is conducted by Environmental Quality Management, Inc. (EQM) on a semi-annual basis in this area. During an interview on August 13 15, 2015 with Mr. Kevin Sedlak (Restoration Project Manager, Army National Guard Environmental Programs Division [ARNG-ILE] Clean-up), he stated that all Ground Water Monitoring activity is conducted in accordance with the FWGWMPP and the parameters for groundwater monitoring as set forth in the PMP, Appendix A-1. A facility-wide groundwater sampling event took place in July 2015. The next FWGWMPP sampling event is currently scheduled for early 2016.

4. Inspections and Reporting

a.) Inspections are required on a quarterly basis. Are quarterly inspections being completed?

Quarterly Inspections have been completed for FY 2013 and FY 2014. This is the fourth Quarterly Inspection to be conducted for FY 2015. All Quarterly Inspections for FY 2013, FY 2014 and FY 2015 were conducted in accordance with the approved PMP dated August 2012.

b.) An annual report is required. Has the annual report been completed and submitted?

The Final FY 2014 Annual Report was submitted on January 12, 2015 and approved on March 17, 2015.

5. Training (as applicable to WBG)

a.) Was LUC training (specific to WBG) being conducted as applicable? Describe the training (content/who attended/who provided/documentation of training).

LUC training is provided annually to all Camp Ravenna staff and tenant units at Camp Ravenna. The LUC training is typically provided by Katie Tait and/or Tim Morgan, Camp Ravenna-Environmental. The training provides an overview of the history of the facility, the ongoing cleanup work, the location of the cleanup sites, any land use controls/restrictions on AOCs/Munitions Response Sites (MRS), and specific restrictions for WBG. Using units also receive an in-brief prior to firing on the range. Using units and tenant units at Camp Ravenna are not allowed down range. Environmental contractors who access WBG are also provided with an in-brief which informs them of the LUCs/restrictions at the AOC. They must read and sign the in-brief form. Training materials and rosters are on file in the Camp Ravenna Environmental Office. LUC training specific to WBG was held on March 3rd and 5th, 2015 for Camp Ravenna units/staff. US Army Corps of Engineer personnel received the LUC briefing on June 2, 2015 prior to accessing the southern portions of the Winklepeck Burning Grounds AOC to conduct their MEC probability assessment for the adjacent Open Demolition Area # 2 MRS. Ohio EPA personnel received the LUC briefing on July 22, 2015 prior to entering the site for environmental reconnaissance purposes. EnviroScience personnel received the LUC briefing on August 12, 2015 prior to entering the site for environmental reconnaissance purposes. Training will be conducted for additional Camp Ravenna staff and contractors that missed the March training dates as needed.

b.) If training was not provided, explain why and what corrective actions were initiated?

N/A

6. Description of any observed/noted LUC violation(s):

The Camp Ravenna perimeter fence has 4 missing sections/openings/holes in the fence fabric and areas that are in disrepair as documented in this report. These areas have been assigned the following call-out numbers: NE10A, NE32, NE38 and SE2A. See Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspection and attached Detail Sheets.

7. Date of Notification of LUC violation (if applicable):

The Army was notified via e-mail on August 6, 10 and 11, 2015 of three new fence defects discovered during the 4th Quarter FY 2015 facility perimeter fence evaluation. These locations are NE38, NE10A, SE2A (See Attachment 1, Figure 1 Index Map and Summary Table, and associated detail sheets).

8. Description of any corrective actions taken to remedy observed LUC violation(s) or recommended corrective actions:

As observed during the fourth quarter LUC inspection, the following perimeter fence defects were repaired: NE36, NE37, NW1B and NW13.

Attachment 1 – Figure 1 Index Map to Facility Perimeter Fence Inspections shows previous fence deficiencies that have been repaired and/or reported since the last inspection.

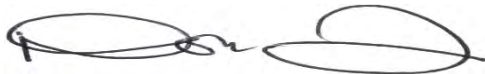
These efforts of the OHARNG staff to repair the identified deficiencies in the fence have improved the condition of the fence since the last inspection. A repair log (Attachment 2) was received on August 4, 2015 from State Maintenance that lists fence repairs they completed since the 3rd Quarter LUC Inspection. The Camp Ravenna Repair Log is included in Attachment 2.

9. Additional Notes/Comments:

As requested by the Ohio EPA, WBG photographs taken during the 4th Quarter LUC Inspection are included with this report (Attachment 2, Supplemental Detail Sheet No. 1).

Original Inspection Completed by:

Signature:



Printed Name: Don Trocchio

Title: Professional Surveyor

Organization: Vista Sciences Corporation

Date: August 18, 2015

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

**FY 2015 Fourth Quarter
Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 1

Figure 1 Index Map

FY 2015 Callout/Repair Summary Table

Detailed Quadrant Maps

Figure 1 Index Map

WINKLEPECK BURNING GROUNDS (WBG) RVAAP-05 LAND USE CONTROL (LUC) INSPECTION 4th Qtr. FY 2015

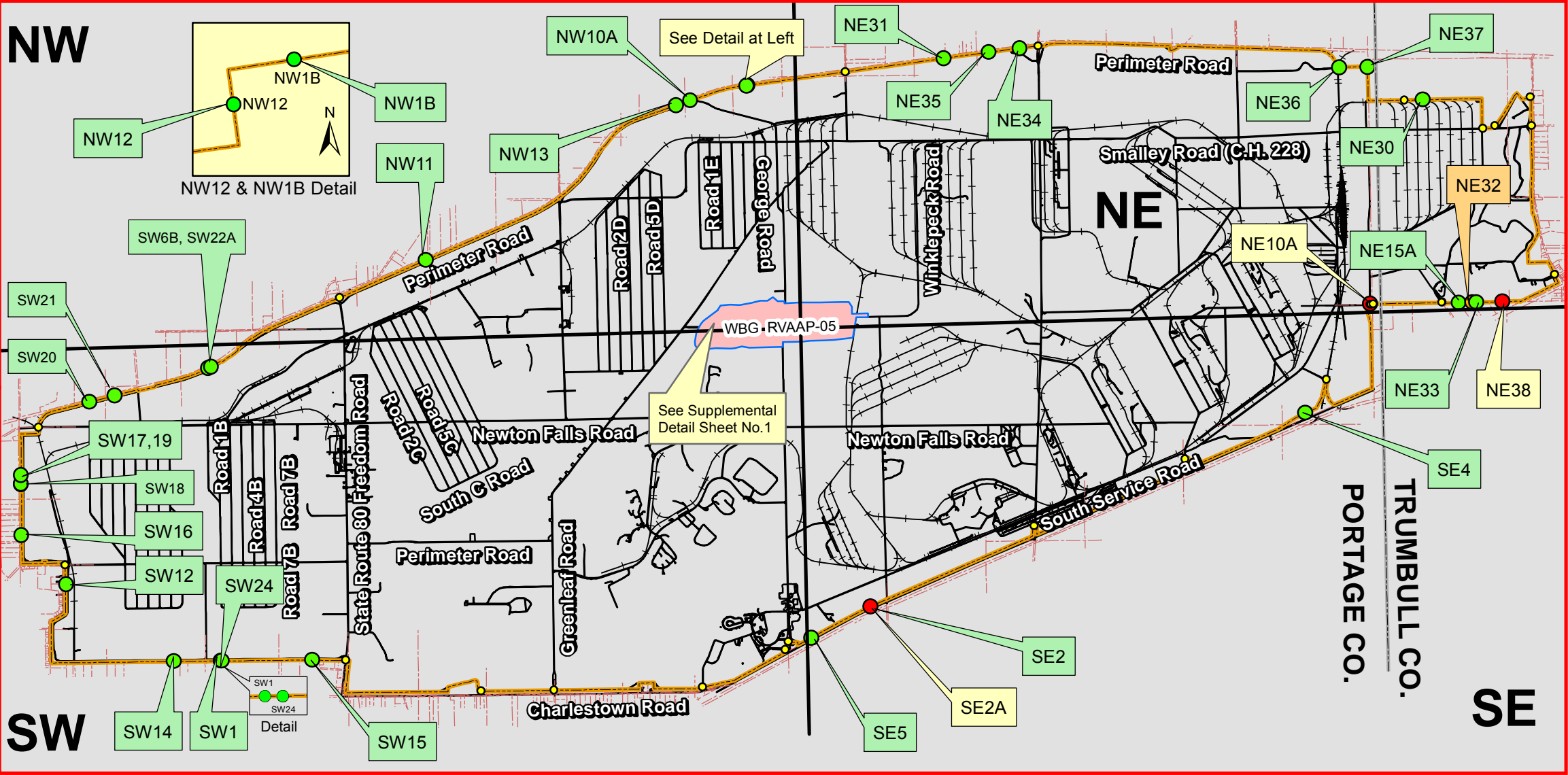


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

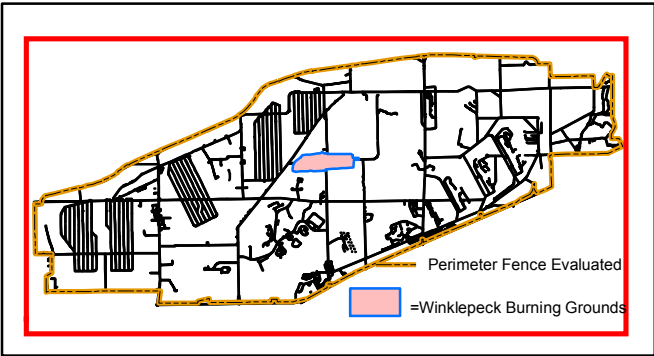
LUC Inspection of Perimeter Fence

- Opening in fence (2²) and/or fabric missing/damaged (3 locations)
- Repaired (29 Locations Total)
- Gates (26 locations for reference only, no detail sheets)
All gates appear to be maintained and are in working order
- Repair in progress (1 location)
- Perimeter Fence Evaluated (29.8 miles)

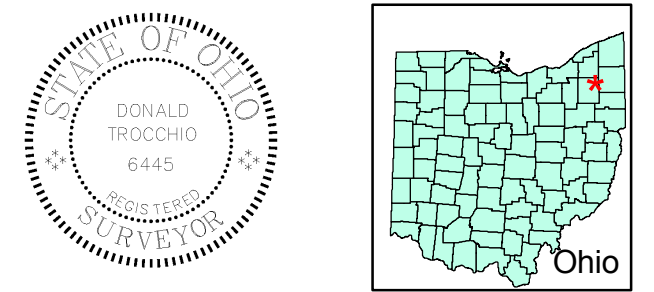
Detail Sheet Callout	Detail Sheet Repair Callout	Detail Sheet Repair in Progress Callout
-------------------------	--------------------------------	---

SEE ATTACHED SUMMARY TABLE AND DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

Camp Ravenna
Joint Military Training Center

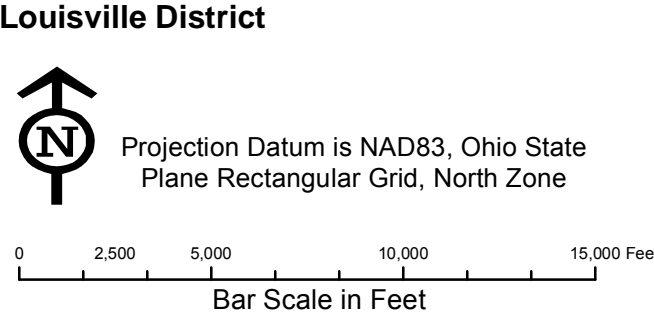


Portage & Trumbull County
LOCATOR MAP



Produced in August 2015 for:

US Army Corps of Engineers
600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202



VISTA SCIENCES CORPORATION

Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

FY 2015 Callout/Repair Summary Table

FY 2015 4th QUARTER CALLOUT/REPAIR SUMMARY TABLE
Camp Ravenna Joint Military Training Center 4th Qtr FY2015 LUC Inspection

Callout	Date	Comments	US Survey Ft	
			Northing	Easting
NE10A	8/6/2015	fence fabric and top rail damaged to permit access	563195	2380440
NE32	3/30/2015	12in tree has fallen on to the fence	563254	2384389
NE38	8/5/2015	12in tree blow down on top of fence	563279	2385540
SE2A	8/10/2015	washout 10x6 box culvert from debris plugged security cage	551498	2361141
NE30	7/21/2014	poacher hole	571083	2382464
SE04	11/25/2013	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933
SE05	04/22/2014	washout below undamaged fence	550299	2358851
SW14	04/14/2014	poacher hole in fence	549386	2334237
SW15	7/15/2014	tree blow down	549438	2339580
SW16	7/15/2014	tree blow down/damaged fence	554267	2328362
SW17	7/15/2014	tree blow down/fence top damaged	556228	2328345
SW19	7/15/2014	tree blow down/top fence damaged	556581	2328342
SW20	7/15/2014	hole in bottom of fence below sign	559398	2330974
SW21	7/15/2014	hole at bottom of fence	559659	2331945
SW22	7/16/2014	poacher hole	560762	2335683
NW11	11/26/2014	old abandoned rr utility pole leaning over top of fence	564883	2343968
NE15A	12/15/2014	poacher hole (repeat)	563240	2383872
NE33	12/15/2014	8in tree has fallen on to the fence	563257	2384533
SE02	12/16/2014	washout	551498	2361141
SW12	11/18/2013	storm washout about 2 sections inlet needs cleared	552357	2330086
SW24	11/20/2014	poacher hole	549402	2336086
NE31	3/18/2015	utility pole fallen on top of fence	572684	2363973
NE34	3/19/2015	poacher hole	573073	2366913
NE35	3/19/2015	repeat poacher hole of undocumented repair	572916	2365711
SW6B	3/17/2015	poacher hole in fence (repeat)	560708	2335572
SW18	7/15/2014	hole under fence at culvert outlet	556241	2328345
SW22A	3/17/2015	repeat poacher hole	560762	2335683
NW10A	3/18/2015	repeat cut poacher hole in new fence	571046	2354186
NW12	3/19/2015	poacher hole	571617	2356355
NE36	6/4/2015	poacher hole	572329	2379236
NE37	6/4/2015	poacher hole	572335	2380333
NW1B	6/3/2015	repeat poacher hole (3)	571637	2356382
NW13	6/2/2015	poacher hole	570866	2353636

REPAIRED 1ST QUARTER

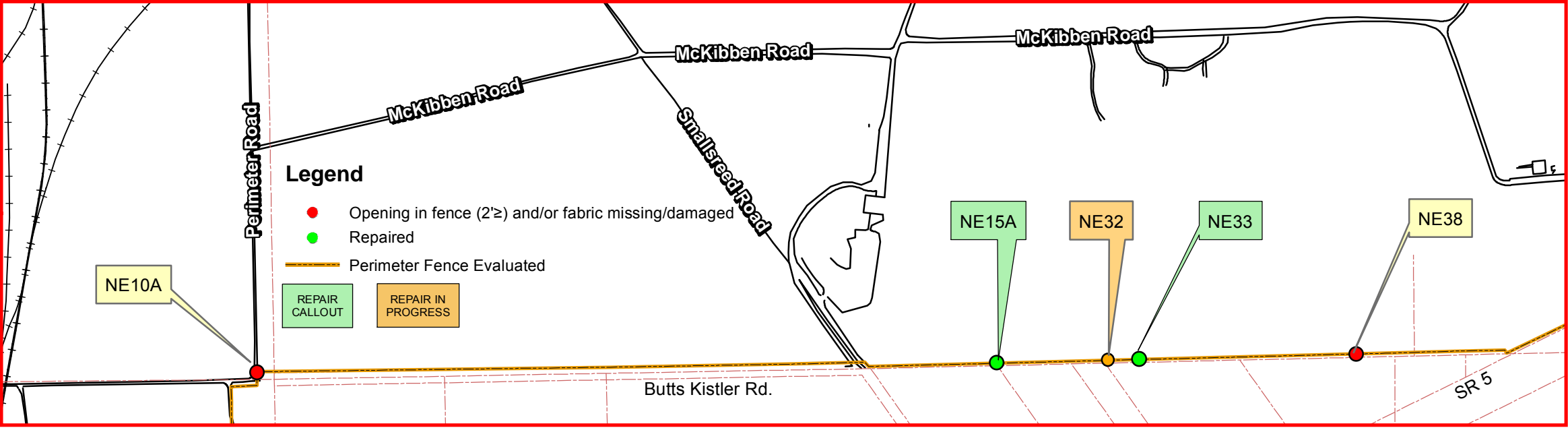
REPAIRED 2ND QUARTER

REPAIRED 3RD QUARTER

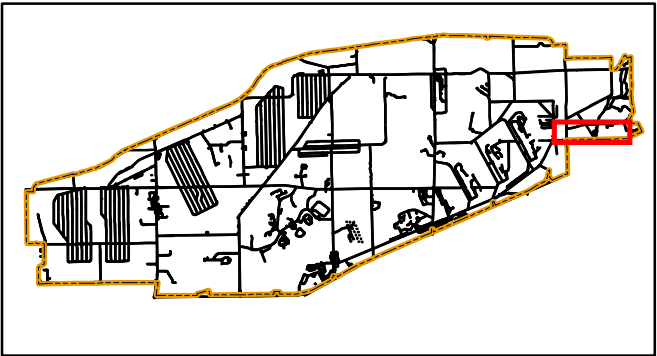
REPAIRED 4TH QUARTER

NE (Northeast) Quadrant

DETAIL SHEET FOR NE10A



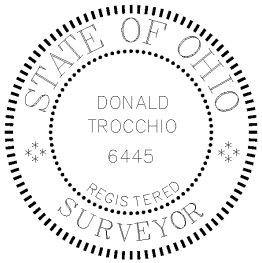
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE10A discovered 08/06/2015



PHOTO NE10A discovered 08/06/2015



Produced in August 2015 for:



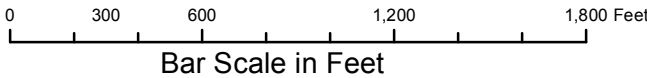
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



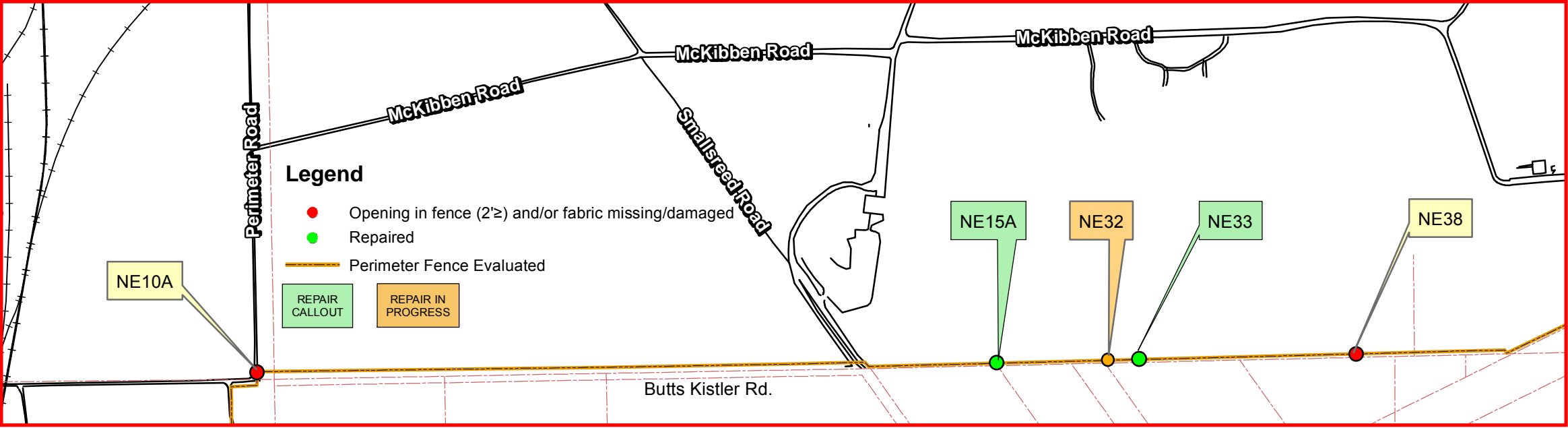
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE10A

DETAIL SHEET FOR NE32



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

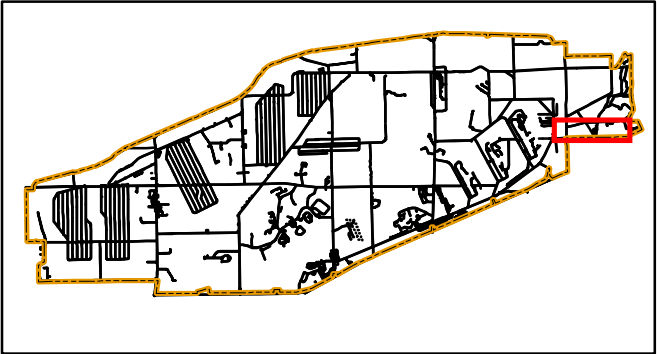
REPAIR PHOTO NE32 dated 08/05/2015 (In Progress)



PHOTO NE32 discovered 12/15/2014



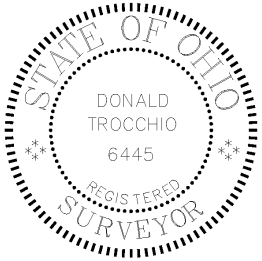
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



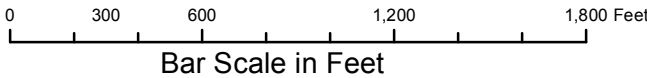
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



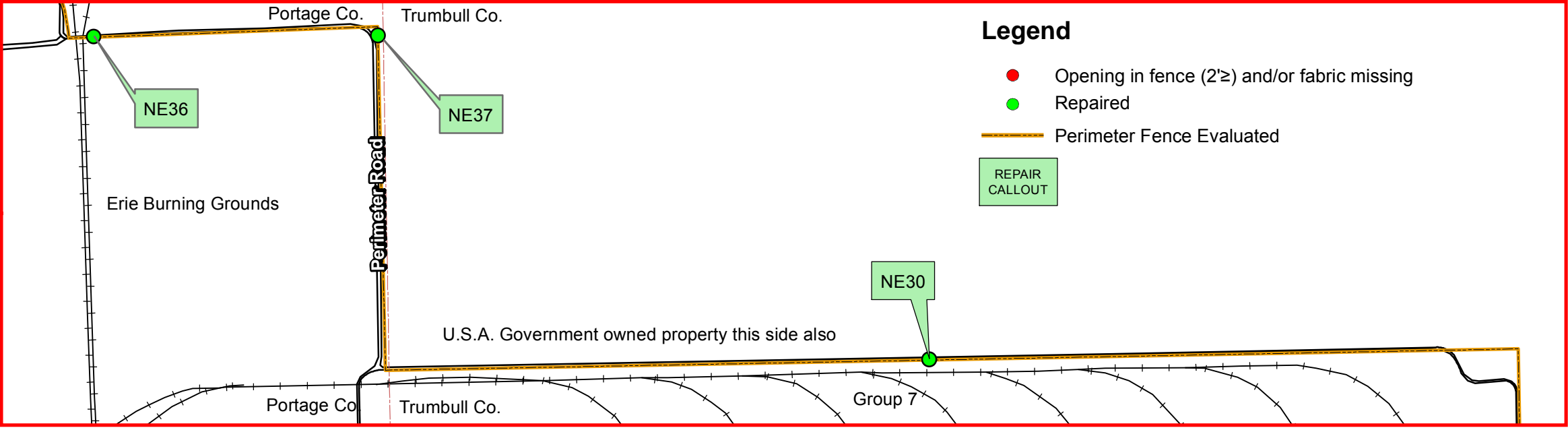
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE32

DETAIL SHEET FOR NE36



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

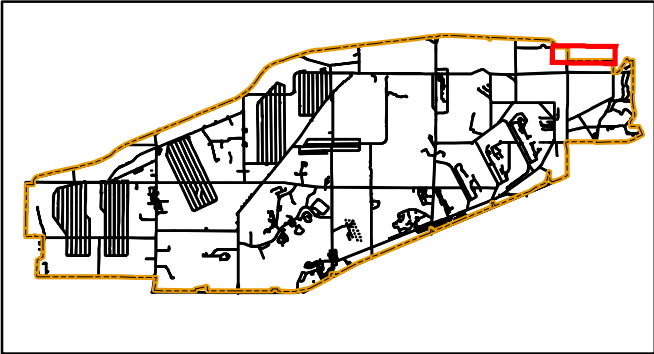
REPAIR PHOTO NE36 dated 08/04/2015



PHOTO NE36 discovered 06/04/2015



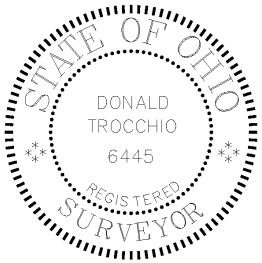
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



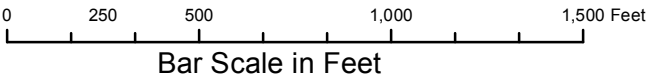
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



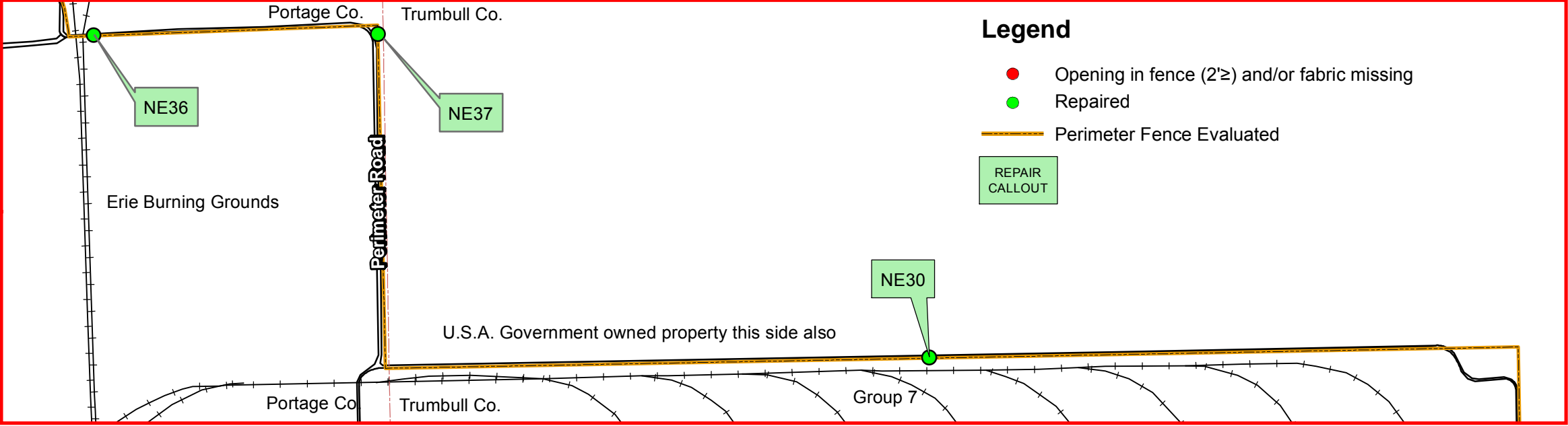
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE36

DETAIL SHEET FOR NE37



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

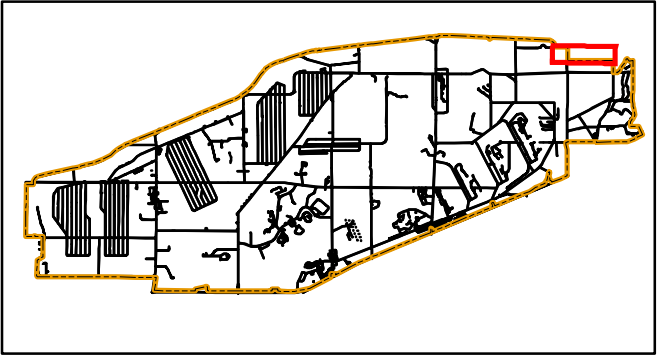
REPAIR PHOTO NE37 dated 08/04/2015



PHOTO NE37 discovered 06/04/2015



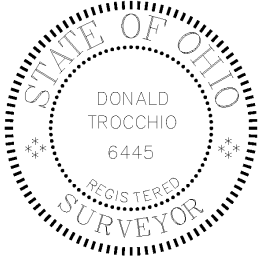
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



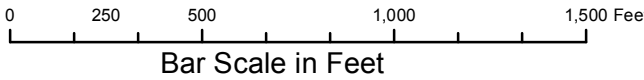
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



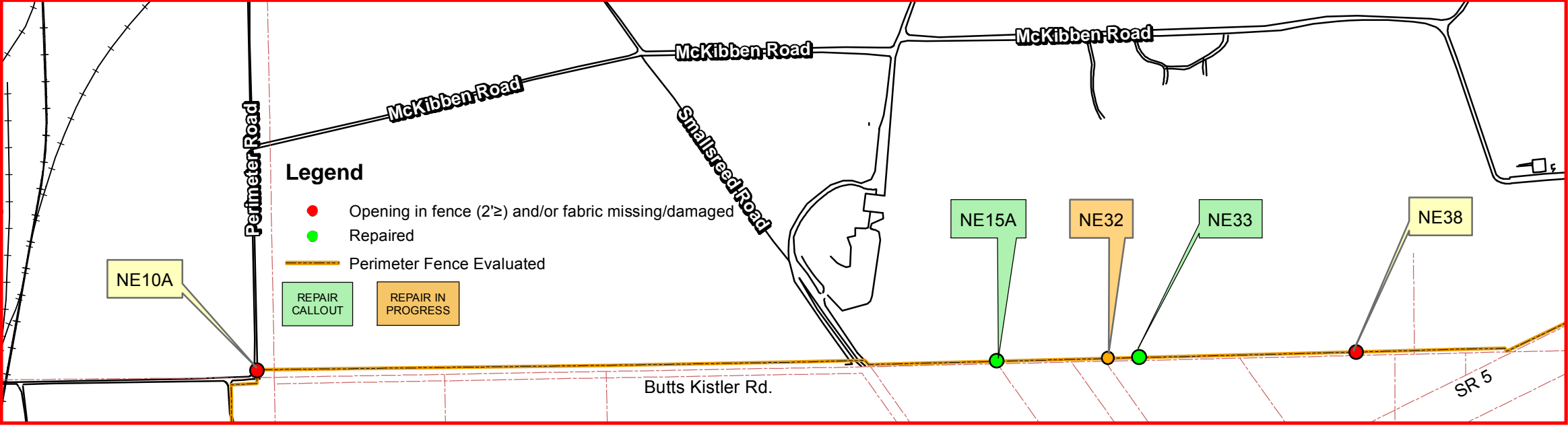
Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE37

DETAIL SHEET FOR NE38

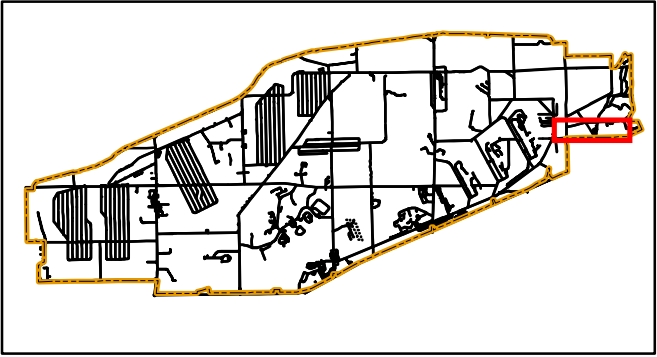


LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

PHOTO NE38 discovered 08/05/2015



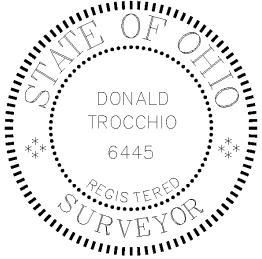
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



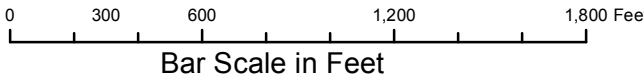
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

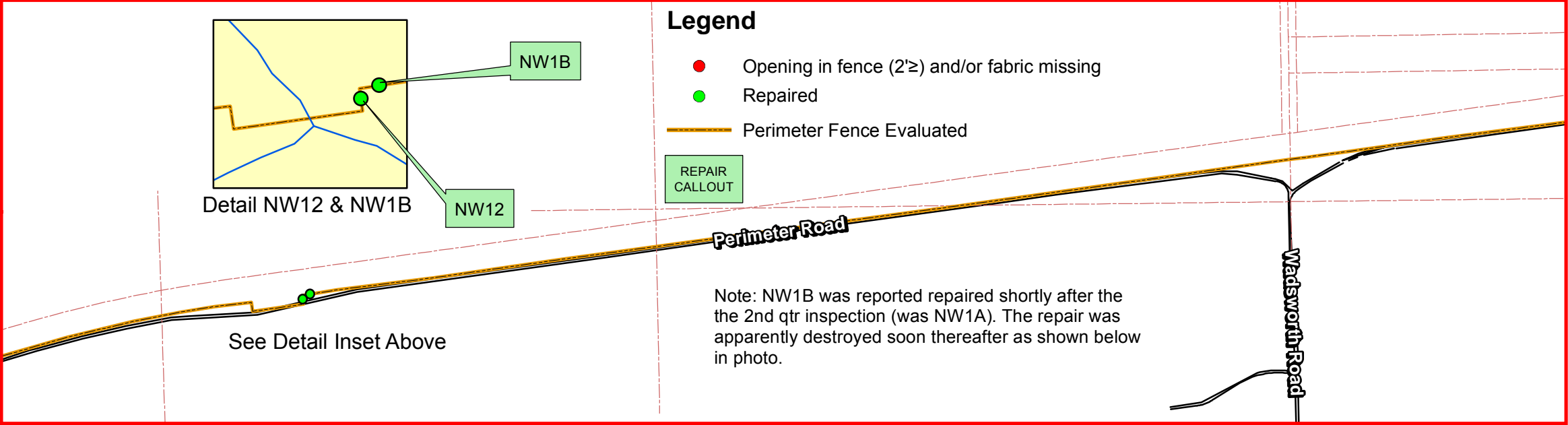


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NE38

NW (Northwest) Quadrant

DETAIL SHEET FOR NW1B



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

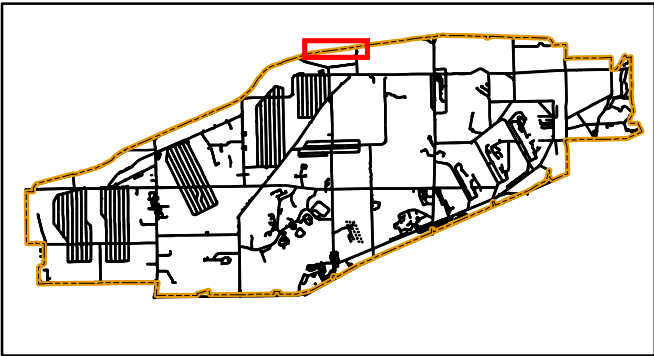
REPAIR PHOTO NW1B dated 08/03/2015



PHOTO NW1B dated 06/03/2015



Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



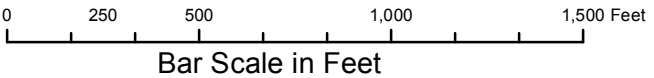
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone

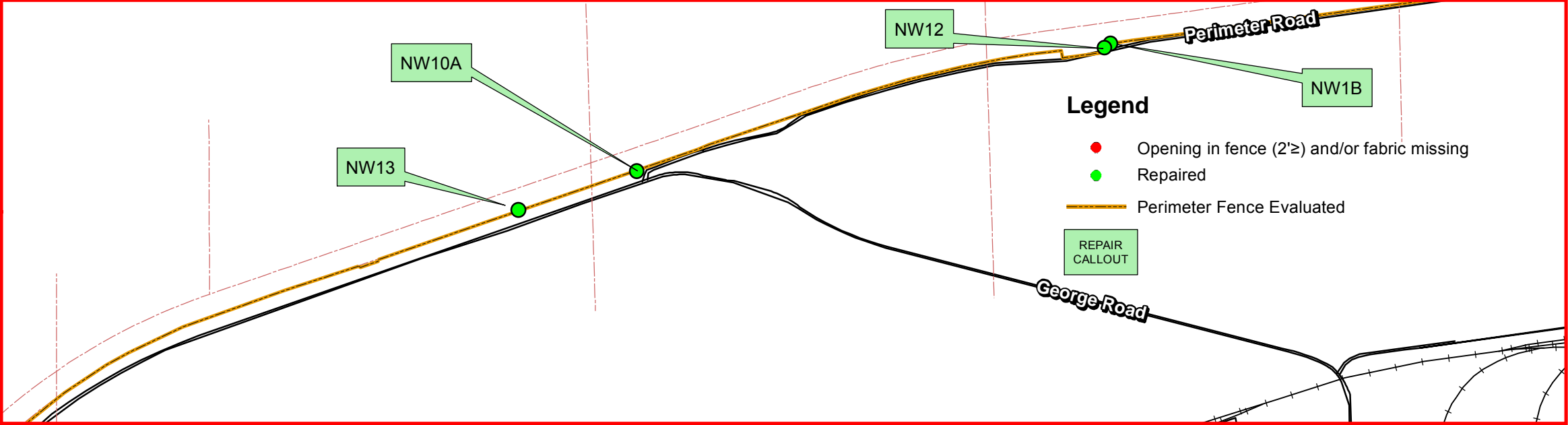


Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW1B

DETAIL SHEET FOR NW13



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

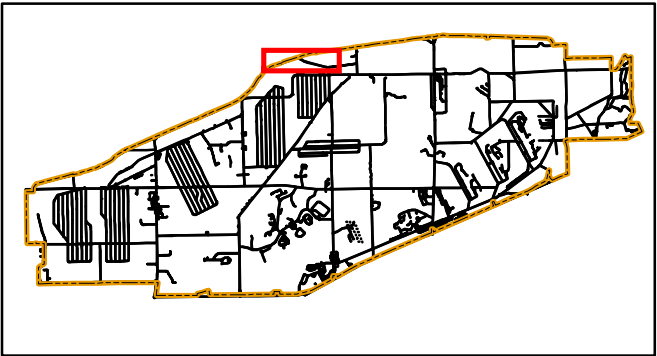
REPAIR PHOTO NW13 dated 08/05/2015



PHOTO NW13 discovered 06/02/2015



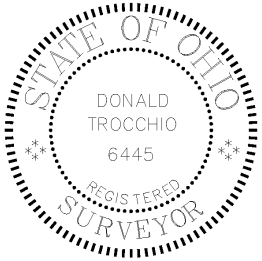
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



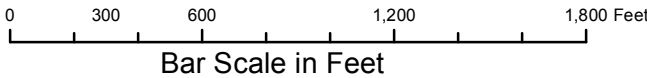
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



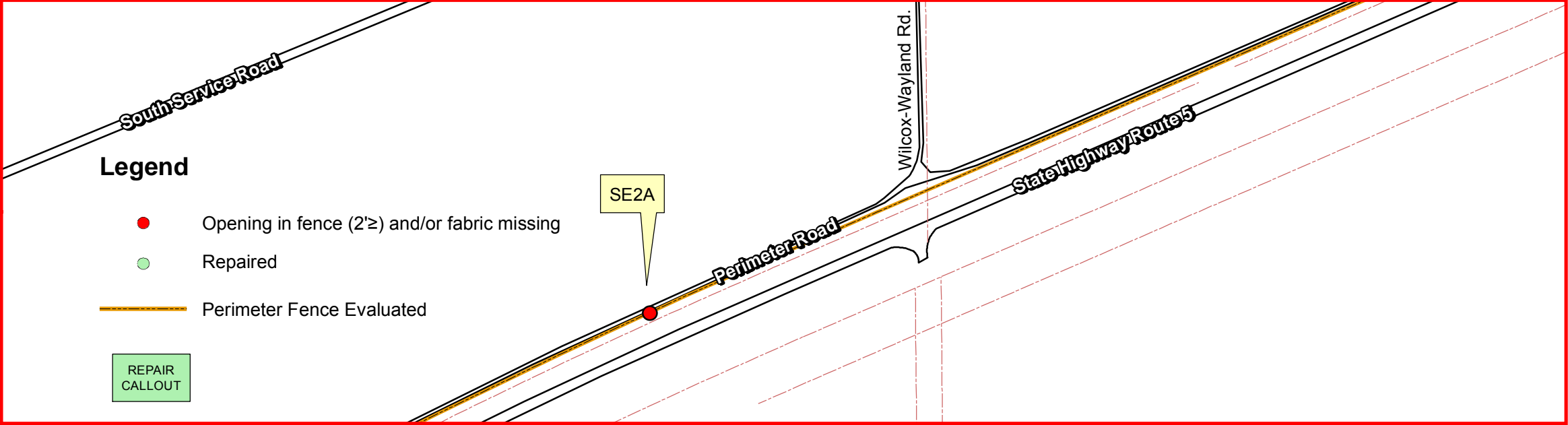
Camp Ravenna JMTc
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com

MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR NW13

SE (Southeast) Quadrant

DETAIL SHEET FOR SE2A



LAND USE CONTROL (LUC) INSPECTION 4th QUARTER FY2015
PERIMETER FENCE INSPECTION

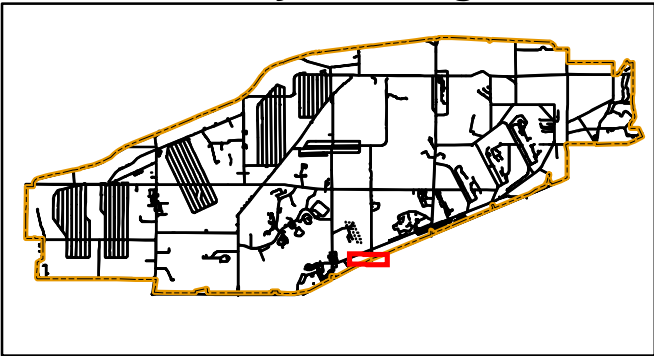
PHOTO SE2A discovered 08/10/2015



PHOTO SE2A discovered 08/10/2015



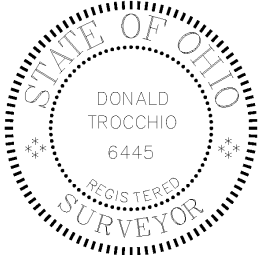
Camp Ravenna
Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



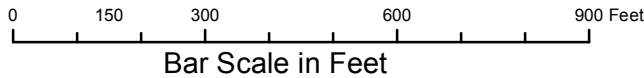
**US Army Corps of
Engineers**

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District



Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

DETAIL SHEET FOR SE2A

SW (Southwest) Quadrant

(No Detail Sheets for FY 2015 4th Quarter LUC Inspection Report)

**Camp Ravenna Joint Military Training Center
Former Ravenna Army Ammunition Plant**

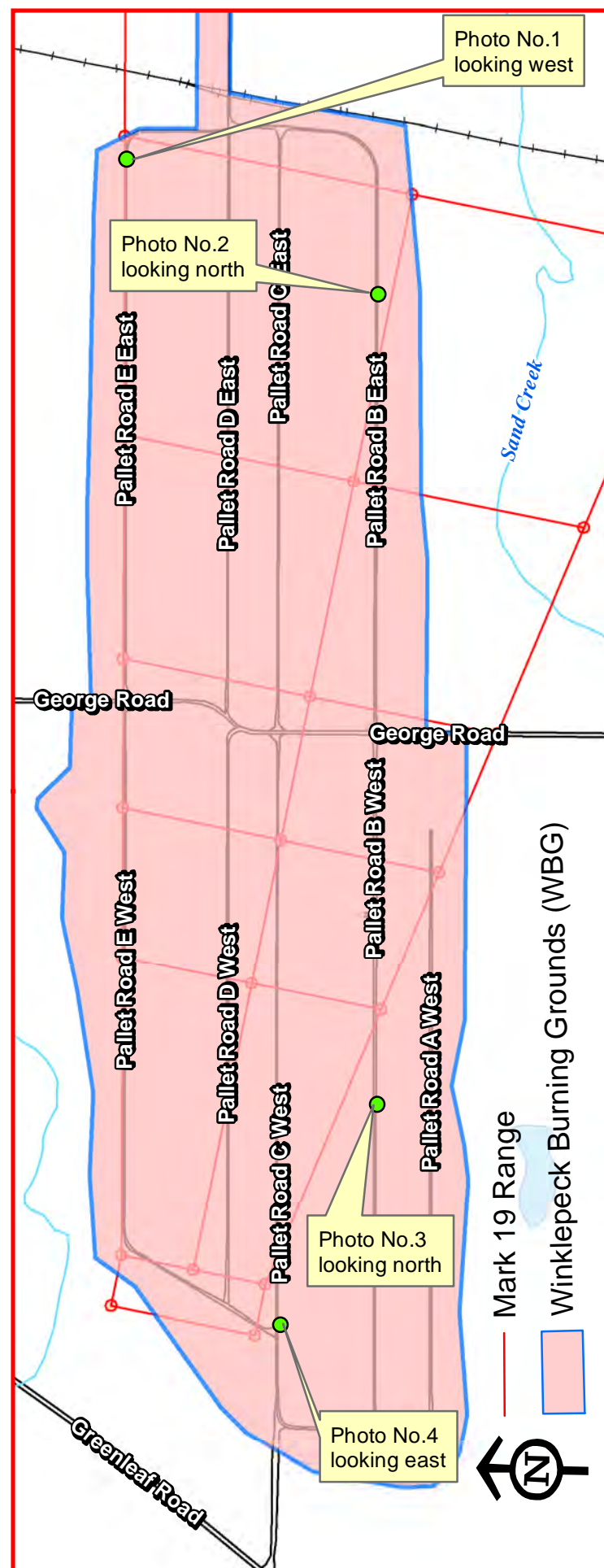
**Quarterly Land Use Control Inspection
RVAAP-05 Winklepeck Burning Grounds**

ATTACHMENT 2

Supplemental Detail Sheet No. 1

Camp Ravenna Fence Repair Log

Supplemental Detail Sheet No. 1



SUPPLEMENTAL DETAIL SHEET NO.1

LAND USE CONTROL (LUC) INSPECTION

PERIMETER FENCE INSPECTION

4th QUARTER FY2015

PHOTO NO.2 08/11/2015



PHOTO NO.4 08/11/2015



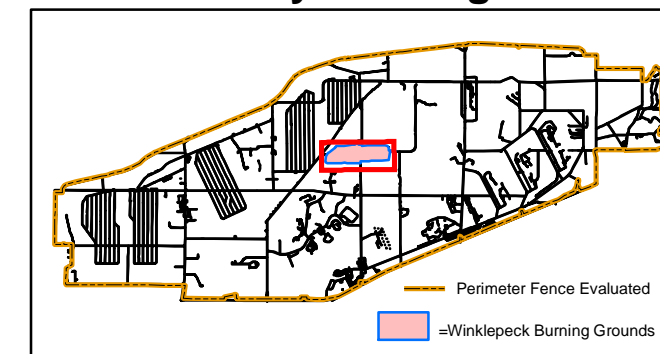
PHOTO No.1 08/11/2015



PHOTO NO.3 08/11/2015

PHOTO IMAGES WITHIN THE
WINKLEPECK BURNING GROUNDS (RVAAP-05)

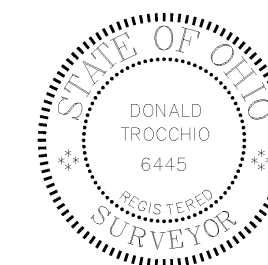
Camp Ravenna Joint Military Training Center



Portage & Trumbull County
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:

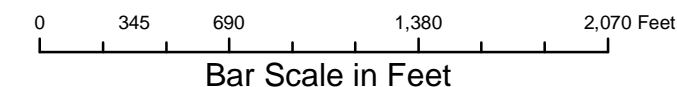


US Army Corps of Engineers

600 Dr. Martin Luther King Jr. Place
Louisville, KY 40202

Louisville District

Projection Datum is NAD83, Ohio State
Plane Rectangular Grid, North Zone



Camp Ravenna JMTC
1438 State Route 534 SW
Newton Falls, OH 44444
Don Trocchio, PS
don.trocchio@vistasciences.com
MGRS 17T NF01946150 (NAD83)

SUPPLEMENTAL DETAIL SHEET NO.1

Camp Ravenna Fence Repair Log

[illegible]

Appendix K

FY 2015 Perimeter Fence Defect Call Outs Identified and Repaired

FISCAL YEAR 2015 LAND USE CONTROL INSPECTION SUMMARY TABLE
Camp Ravenna Joint Military Training Center

Callout	Comments	US Survey Ft		Fiscal Year and Quarter Identified	Fiscal Year and Quarter Repaired
		Northing	Eastings		
NE10A	fence fabric and top rail damaged to permit access	563195	2380440	FY 2015 - 4 Qtr.	NC
NE15A	poacher hole (repeat)	563240	2383872	FY 2015 - 1 Qtr.	FY 2015 - 2 Qtr.
NE30	poacher hole	571083	2382464	FY 2014 - 4 Qtr.	FY 2015 - 1 Qtr.
NE31	utility pole fallen on top of fence	572684	2363973	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
NE32	12in tree has fallen on to the fence	563254	2384389	FY 2015 - 2 Qtr.	NC
NE33	8in tree has fallen on to the fence	563257	2384533	FY 2015 - 1 Qtr.	FY 2015 - 2 Qtr.
NE34	poacher hole	573073	2366913	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
NE35	repeat poacher hole of undocumented repair	572916	2365711	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
NE36	poacher hole	572329	2379236	FY 2015 - 3 Qtr.	FY 2015 - 4 Qtr.
NE37	poacher hole	572335	2380333	FY 2015 - 3 Qtr.	FY 2015 - 4 Qtr.
NE38	12in tree blow down on top of fence	563279	2385540	FY 2015 - 4 Qtr.	NC
NW1B	repeat poacher hole (3)	571637	2356382	FY 2015 - 3 Qtr.	FY 2015 - 4 Qtr.
NW10A	repeat cut poacher hole in new fence	571046	2354186	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
NW11	old abandoned rr utility pole leaning over top of fence	564883	2343968	FY 2015 - 1 Qtr.	FY 2015 - 2 Qtr.
NW12	poacher hole	571617	2356355	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
NW13	poacher hole	570866	2353636	FY 2015 - 3 Qtr.	FY 2015 - 4 Qtr.
SE02	washout	551498	2361141	FY 2015 - 1 Qtr.	FY 2015 - 2 Qtr.
SE2A	washout 10x6 box culvert from debris plugged security cage	551498	2361141	FY 2015 - 4 Qtr.	NC
SE04	washout logged as type 2 on 2-27-14 0271 photo	558980	2377933	FY 2014 - 1 Qtr.	FY 2015 - 1Qtr.
SE05	washout below undamaged fence	550299	2358851	FY 2014 - 3 Qtr.	FY 2015 - 1Qtr.
SW6B	poacher hole in fence (repeat)	560708	2335572	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
SW12	storm washout about 2 sections inlet needs cleared	552357	2330086	FY 2014 - 1 Qtr.	FY 2015 - 2 Qtr.
SW14	poacher hole in fence	549386	2334237	FY 2014 - 3 Qtr.	FY 2015 - 1Qtr.
SW15	tree blow down	549438	2339580	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW16	tree blow down/damaged fence	554267	2328362	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW17	tree blow down/fence top damaged	556228	2328345	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW18	hole under fence at culvert outlet	556241	2328345	FY 2014 - 4 Qtr.	FY 2015 - 3 Qtr.
SW19	tree blow down/top fence damaged	556581	2328342	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW20	hole in bottom of fence below sign	559398	2330974	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW21	hole at bottom of fence	559659	2331945	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW22	poacher hole	560762	2335683	FY 2014 - 4 Qtr.	FY 2015 - 1Qtr.
SW22A	repeat poacher hole	560762	2335683	FY 2015 - 2 Qtr.	FY 2015 - 3 Qtr.
SW24	poacher hole	549402	2336086	FY 2015 - 1 Qtr.	FY 2015 - 2 Qtr.

NOTE: NC = Indicates Repair Not Yet Completed