

**Draft**  
**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:***



**December 7, 2015**

**Draft**

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

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***(Letter will be inserted upon approval)***

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**DOCUMENT DISTRIBUTION**

For the  
Draft 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

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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

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

122		
123	ACM	Asbestos Containing Material
124	AOC	Area of Concern
125	AR	Army Regulation
126	ARNG	Army National Guard
127	bgs	below ground surface
128	Camp Ravenna	Camp Ravenna Joint Military Training Center
129	CERCLA	Comprehensive Environmental Response, Compensation, and Liability
130		Act
131	C.F.R.	Code of Federal Regulations
132	DFFOs	Director's Final Findings and Orders
133	FWSAP	Facility-Wide Sampling and Analysis Plan
134	FWGWMPP	Facility-Wide Groundwater Monitoring Program Plan
135	FY	Fiscal Year
136	GIS	Geographical Information System
137	IRP	Installation Restoration Program
138	LUC	Land Use Control
139	MK	Mark
140	MEC	Munitions and Explosives of Concern
141	MRS	Munitions Response Site
142	NCP	National Contingency Plan
143	NBC	Nuclear, Biological, Chemical
144	Ohio EPA	Ohio Environmental Protection Agency
145	OHARNG	Ohio Army National Guard
146	PMP	Property Management Plan
147	RD	Remedial Design
148	RDX	Research Department Explosive
149	ROD	Record of Decision
150	RQL	Ramsdell Quarry Landfill
151	RVAAP	Ravenna Army Ammunition Plant
152	SOP	Standard Operating Procedure
153	TNT	Trinitrotoluene
154	U.S.C.	United States Code
155	USP&FO	United States Property and Fiscal Officer
156	UXO	Unexploded Ordnance
157	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.

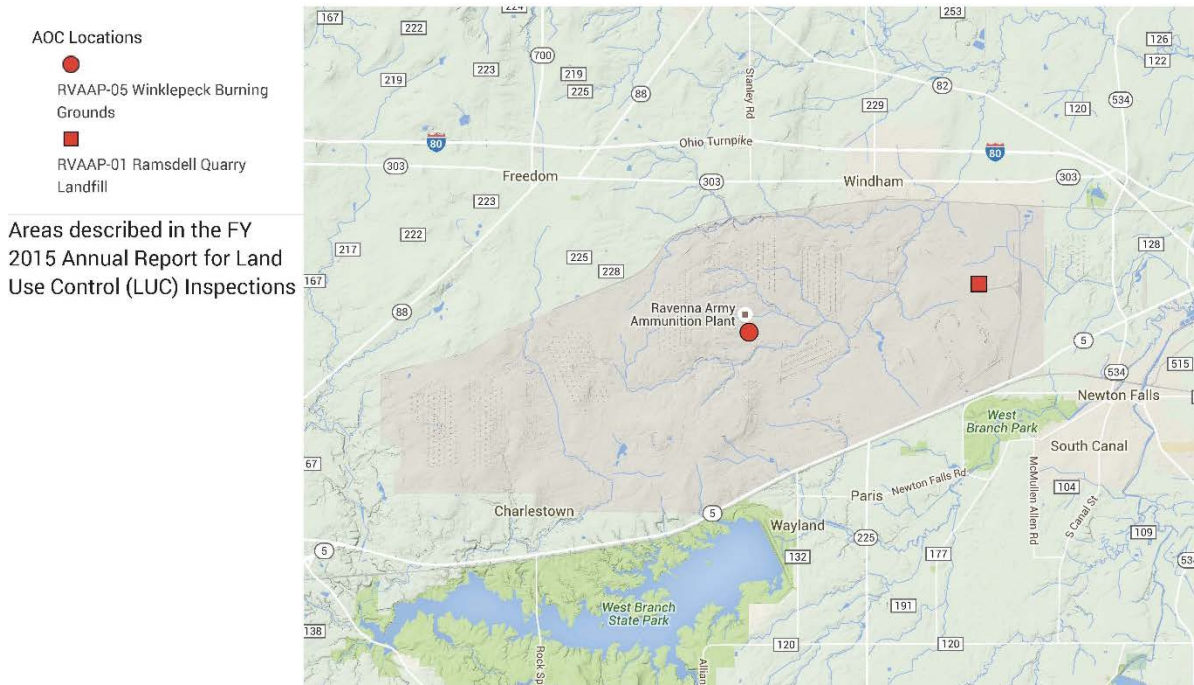
Section 4.0 – Conclusions

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).

338 **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 3<sup>rd</sup> and 5<sup>th</sup>, 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 TBD, 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 3<sup>rd</sup> and 5<sup>th</sup>, 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.

\_\_\_\_\_/\_\_\_\_\_  
(signature) (date)

\_\_\_\_\_  
(printed name)

\_\_\_\_\_  
(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](http://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



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## **Appendix A**

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### **Weekly RQL Inspection Reports**

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



# WEEKLY INSPECTION OF RAMSDALL 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	<del>Good</del> None	
c. Animal Disturbances	<del>Good</del> None	
d. Woody Vegetation	<del>Good</del> 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 <del>at</del> 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 RAMSDELL 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: <u>Windshield</u> 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> (am/pm) Completed <u>8:50</u> (am/pm)		
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 &amp; 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: July 31, 2015		
Inspected by: Al Brillinger		
Weather Conditions / Recent Precipitation: Sunny, 84°, no rain prev. 24 hrs.		
Time: Started 12:20 (am/pm) Completed 12:40 (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	East gate latch adjusted so that pad lock fits in latch to lock it.
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:		

# WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>July 24, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>partly sunny 84°, no recent precip</u>		
Time: Started <u>2:00</u> (am/pm) Completed <u>2:20</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>east gate needs chain for lock, west gate ok</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:		
<u>East gate needs chain for lock; lock doesn't fit in latch</u>		

# WEEKLY INSPECTION OF RAMSDELL QUARRY LANDFILL

Date: <u>July 17, 2015</u>		
Inspected by: <u>AI 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: <u>July 2, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>66°, cloudy no rain prev. 24 hrs</u>		
Time: Started <u>10:15</u> ( <u>am/pm</u> ) Completed <u>10:45</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>gates locked</u>
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	<u>grass 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:		
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		
<b>Inspected</b>	<b>Status/Condition</b>	<b>Comments</b>
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 RAMSDELL 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		
<b>Inspected</b>	<b>Status/Condition</b>	<b>Comments</b>
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 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Site Walk</span> 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: <u>April 10, 2015</u>		
Inspected by:		
Weather Conditions / Recent Precipitation: <u>57°, Rain (heavy at times) previous 2 days</u>		
Time: Started <u>11:10</u> ( <u>am</u> /pm) Completed <u>11:35</u> ( <u>am</u> /pm)		
Type of inspection: <u>Windshield</u> Site Walk ( <u>partial</u> ) Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>good</u>	
2. Entrance		
a. Gate/Chain	<u>gates locked</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>good</u>	
b. Standing Water on Cap	<u>none noted</u>	
c. Animal Disturbances	<u>none</u>	
d. Woody Vegetation	<u>good</u>	
e. Gully Erosion/Soil Cover	<u>good</u>	<u>minor settling in repaired area *</u>
f. Runoff, Siltation	<u>good</u>	
g. Leachate	<u>none noted</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>* trough-shaped area repaired in Jan 2015 showing continued settlement</u>		
6. Description of Repairs/Remedial Action needed:		
<u>* areas repaired w/ soil in Jan 2015 need seeding.</u>		

# 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 (&gt;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 &amp; snow-covered</u>		
<u>    snow cover &gt; 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: <u>February 13, 2015</u>		
Inspected by: <u>Al Brillinger</u>		
Weather Conditions / Recent Precipitation: <u>10°, site is snow-covered &amp; frozen</u>		
Time: Started <u>12:35</u> (am/pm) Completed <u>12:50</u> (am/pm)		
Type of inspection: <u>Windshield</u> Site Walk Other		
Inspected	Status/Condition	Comments
1. Vehicular Access	<u>fair</u>	<u>Ramsdell Rd. is plowed, gate access is not</u>
2. Entrance		
a. Gate/Chain	<u>good</u>	
3. Landfill Site/Cap Integrity		
a. Vegetative Cover	<u>not visible</u>	<u>site is snow-covered</u>
b. Standing Water on Cap	<u>not visible</u>	<u>" "</u>
c. Animal Disturbances	<u>not visible</u>	<u>" "</u>
d. Woody Vegetation	<u>good</u>	
e. Gully Erosion/Soil Cover	<u>not visible</u>	<u>site is snow-covered</u>
f. Runoff, Siltation	<u>not visible</u>	<u>" " "</u>
g. Leachate	<u>not visible</u>	<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:		
<u>• top wire of eastern 5-wire fence still broken</u>		
<u>(1 spot)</u>		

# 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"> <li>Ramsdell Rd not plowed. &gt;12" snow on road;</li> <li>walked Ramsdell Rd from west gate to east gate,</li> <li>surveyed fence &amp; landfill w/ binoculars</li> </ul>		
6. Description of Repairs/Remedial Action needed:		
<ul style="list-style-type: none"> <li>none</li> </ul>		

# 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 LWC 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 Hanev / 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:



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## **Appendix B**

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### **RQL Soil Repair Memo**

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# 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.

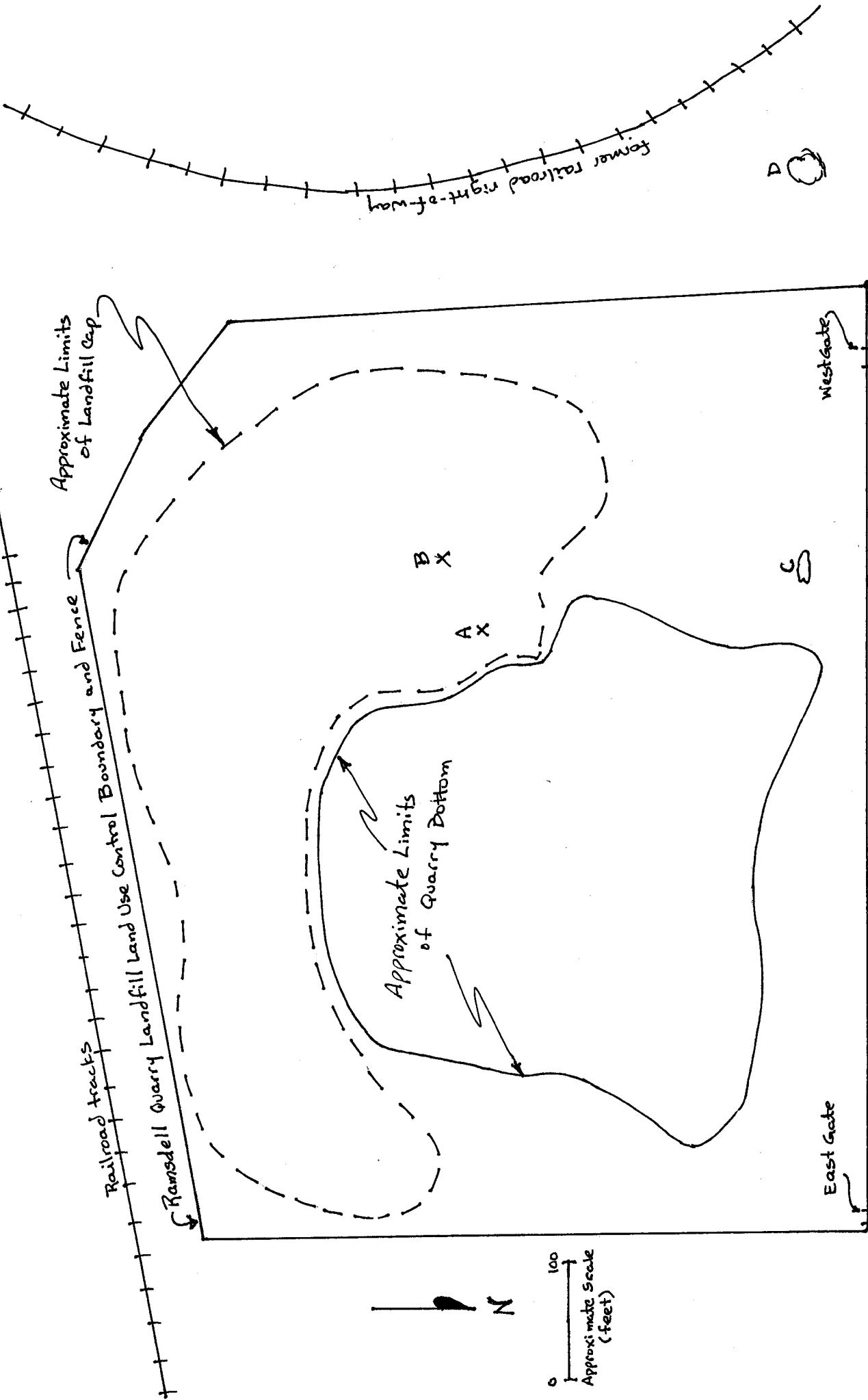
Two (2) of the areas (labeled "A" and "B" on the attached figure) were located on the Ramsdell Quarry Landfill cap, and consisted of shallow (<1 ft. deep and < 2 feet in diameter) depressions. The third location (labelled "C" on attached figure) was located north of the landfill cap in the northwest 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
<b>Organics - Pesticide/PCB</b>						
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
<b>Organics - Volatile</b>						
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)

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## **Appendix C**

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### **Quarterly RQL Inspection Reports**

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**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

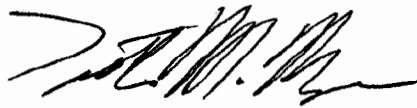
Dear Mr. Princic,

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](mailto: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](mailto:pchd@portageco.com)



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

Web: [www.co.portage.oh.us/dept/healthdepartment](http://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](mailto: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
Inspected by: [Signature]		
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	
			<b>3745-27-14 Post closure care of MSW Landfills</b>				
			(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				(8) 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	[Signature] 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

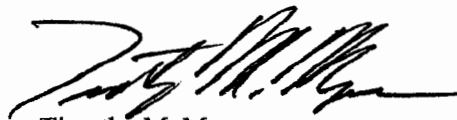
Dear Mr. Beals,

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](mailto: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](mailto:pchd@portageco.com)



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

Web: [www.co.portage.oh.us/dept/healthdepartment](http://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](mailto: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 614-356-4918</u>	
Health District <u>Tack Madril 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	
			<b>3745-27-14 Post closure care of MSW Landfills</b>				
			(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>T. Madril</u> Print Name of Inspector Completing Form	<u>J. Madril</u> Signature	Date
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**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

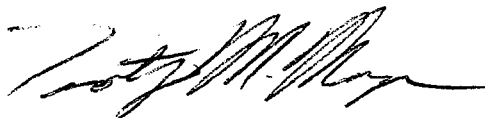
Dear Mr. Beals,

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](mailto: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](http://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](mailto:jmadved@portageco.com).

Sincerely,

A handwritten signature in black ink, appearing to read "J. Madved", written in a cursive style.

Jack Madved, R.S.

JM:maa

cc: Portage County Commissioners

Enclosure

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

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	
			<b>3745-27-14 Post closure care of MSW Landfills</b>
			(A) Post-closure care activities
			(1) Leachate management, surface water management, explosive gas extraction and monitoring, ground water monitoring system
			(2) Integrity of cap system
			(3) Repair leachate outbreaks
			(4) Quarterly inspections-report to Ohio EPA within 15 days

Y	N	N/A	
			(5) Monitoring and reporting requirements of OAC 3745-27-10, 3745-27-12, 3745-76
			(6) Annual report
			(7) Record keeping
			(D) Facility access
			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](mailto: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](mailto:pchd@portageco.com)



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

Web: [www.co.portage.oh.us/dept/healthdepartment](http://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](mailto: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	
			<b>3745-27-14 Post closure care of MSW Landfills</b>				
			(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
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## **Appendix D**

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## **RQL Access Logs**

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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 RISSE 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
Vanderson 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	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

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## **Appendix E**

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### **RQL Annual Inspection Photographs**

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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.





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.

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## **Appendix F**

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### **FY 2015 Quarterly Land Use Control Index Maps**

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

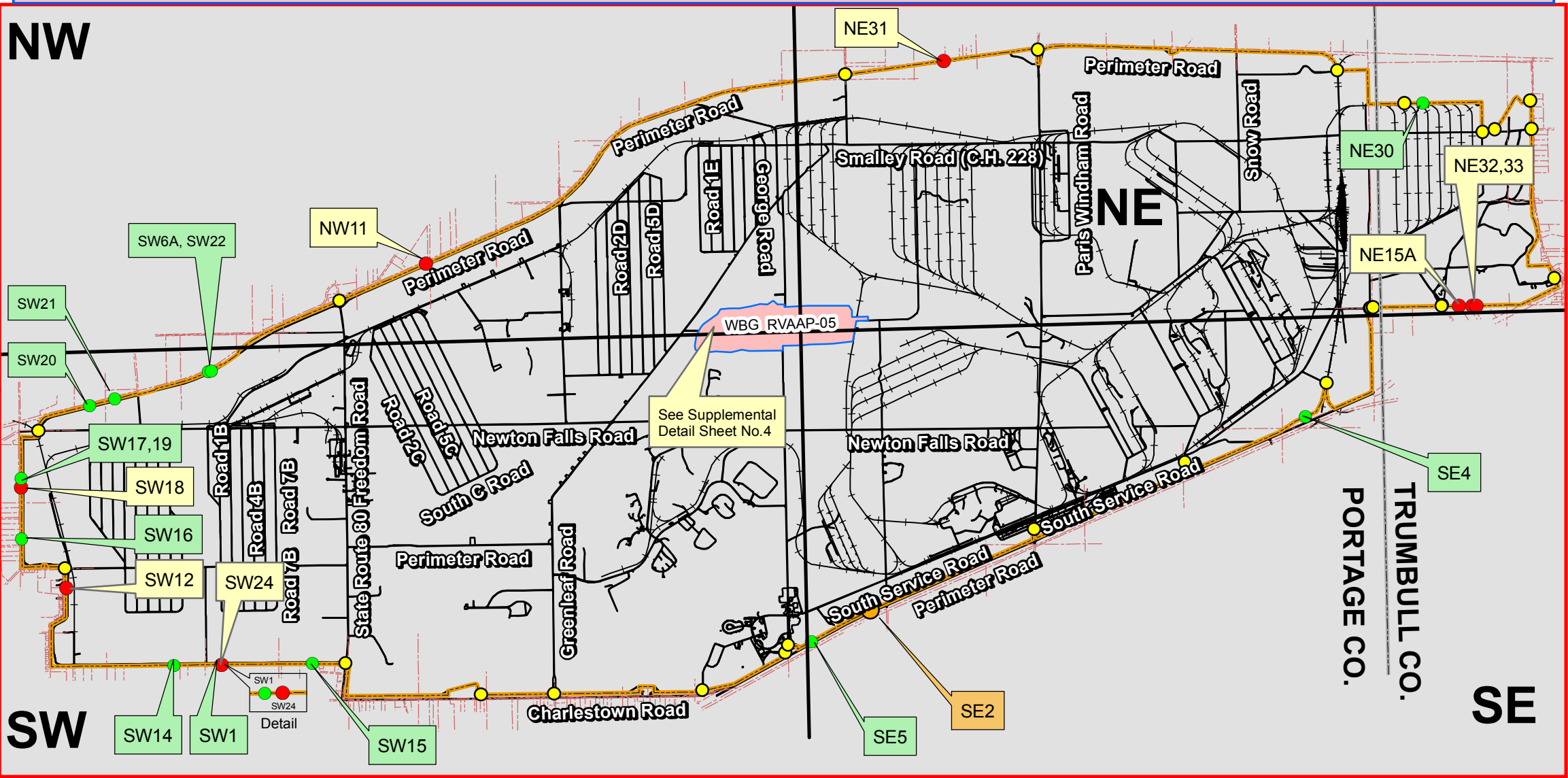


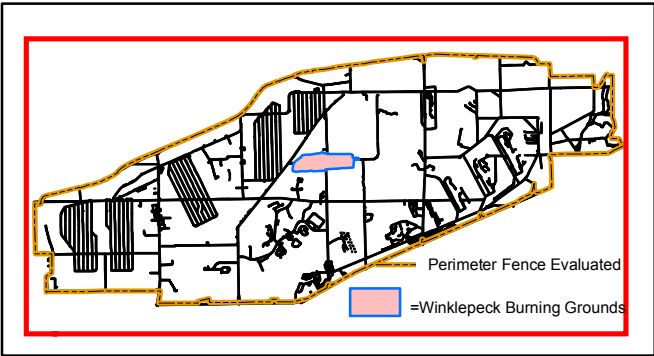
FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION  
SEE ATTACHED DETAIL SHEETS FOR EACH DESIGNATED CALLOUT LOCATION

- 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							

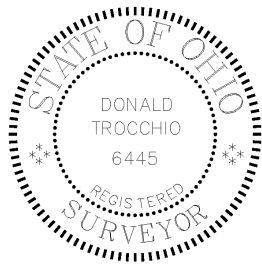
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
**LOCATOR MAP**



Ohio Army National Guard



Produced in December 2014 for:

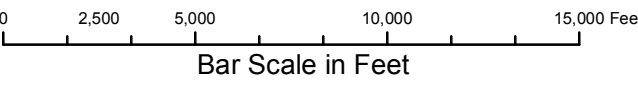


**US Army Corps of  
Engineers**  
600 Dr. Martin Luther King Jr. Place  
Louisville, KY 40202

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

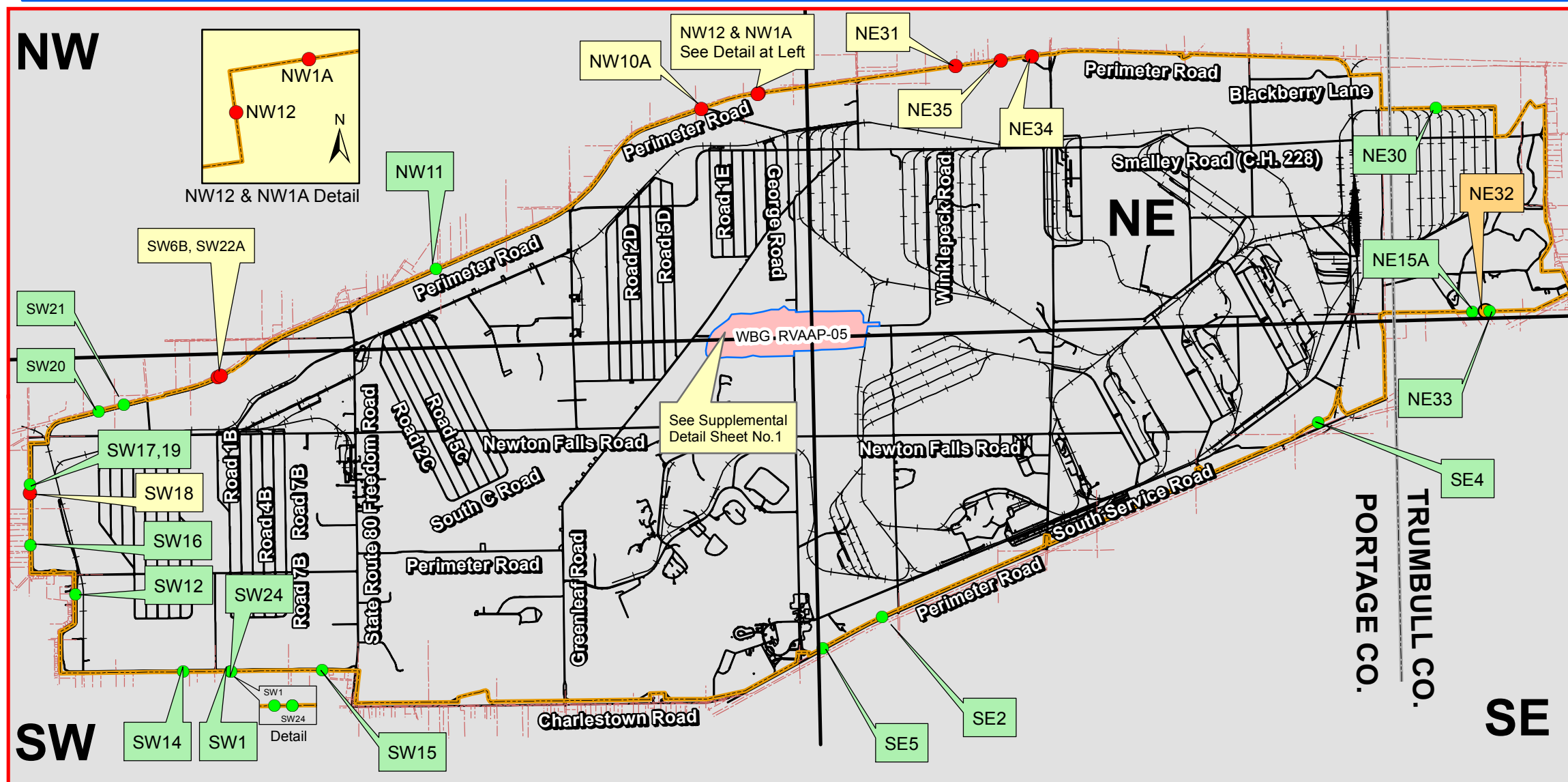


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

SEE ATTACHED DETAIL SHEETS FOR EACH  
DESIGNATED CALLOUT LOCATION

Legend

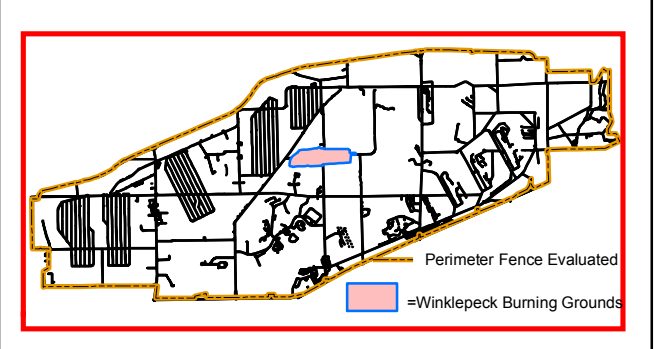
LUC Inspection of Perimeter Fence

- Opening in fence (2 $\geq$ ) 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.

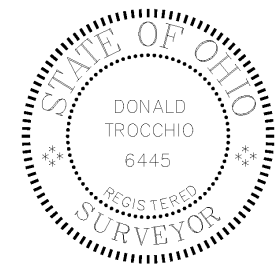
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in March 2015 for:



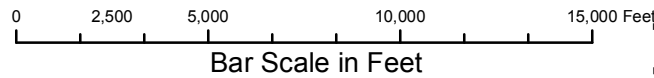
US Army Corps of  
Engineers

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

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

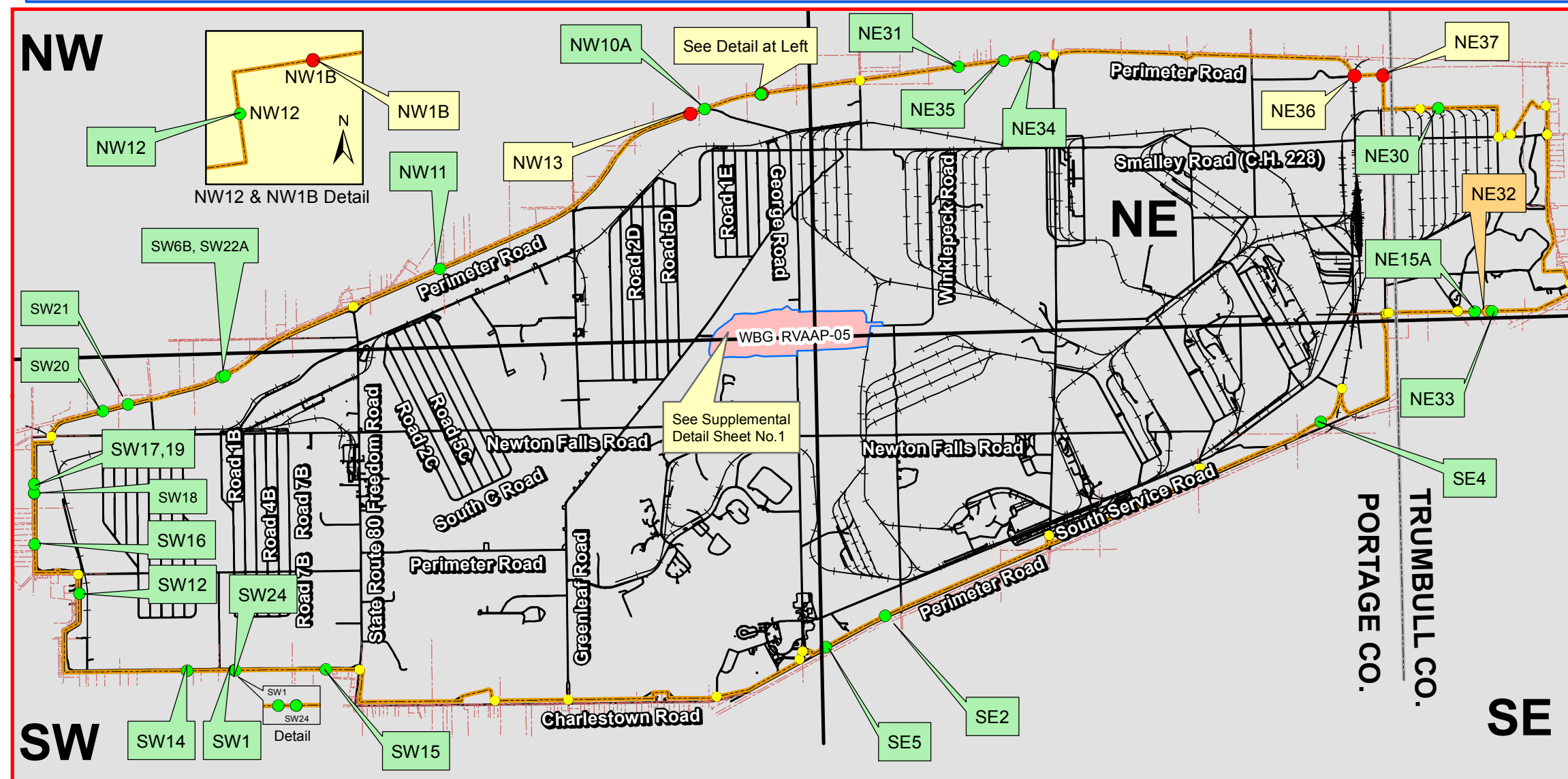


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

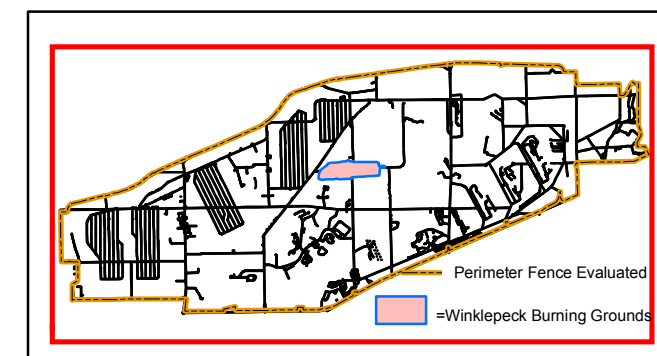
LUC Inspection of Perimeter Fence

- 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

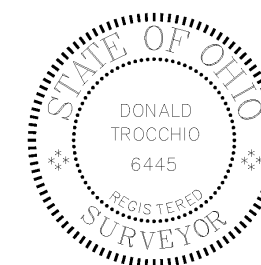
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in June 2015 for:



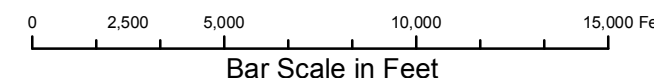
US Army Corps of  
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600 Dr. Martin Luther King Jr. Place  
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Louisville District



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



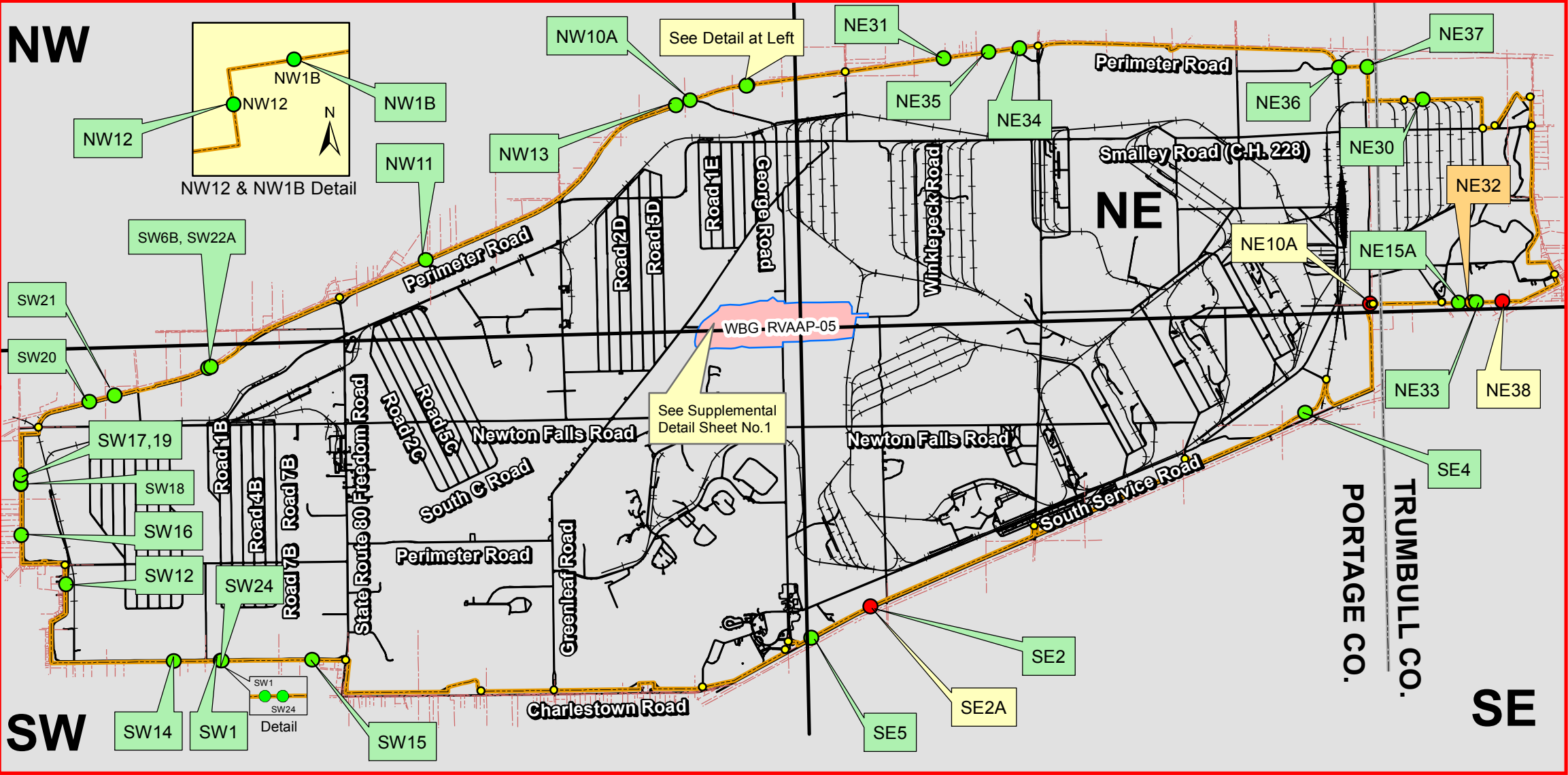


FIGURE 1 INDEX MAP TO FACILITY PERIMETER FENCE INSPECTION

Legend

LUC Inspection of Perimeter Fence

- Opening in fence (2<sup>2</sup>) 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)

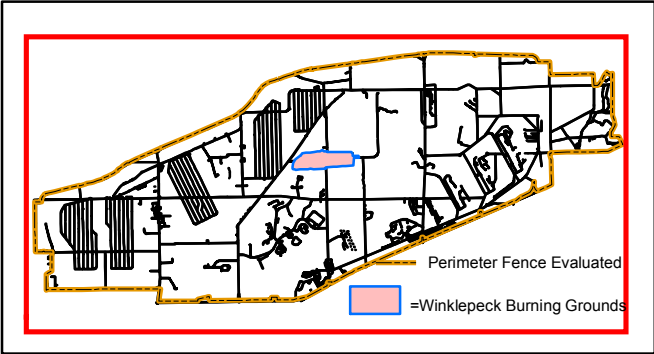
Detail Sheet  
Callout

Detail Sheet  
Repair Callout

Detail Sheet  
Repair in Progress  
Callout

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

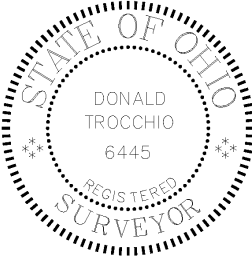
Camp Ravenna  
Joint Military Training Center



Portage & Trumbull County  
LOCATOR MAP



Ohio Army National Guard



Produced in August 2015 for:



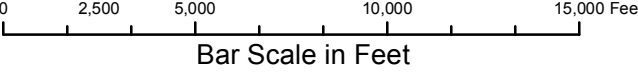
US Army Corps of  
Engineers

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  
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MGRS 17T NF01946150 (NAD83)

FIGURE 1 INDEX MAP

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## **Appendix G**

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### **Final FY 2015 First Quarter Land Use Control Inspection for**

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### **RVAAP-05 Winklepeck Burning Grounds**

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(The Final 2015 Annual Land Use Control Monitoring Report, RVAAP-01

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Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds will

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include the entire Ohio EPA approved version of the FY 2015 First Quarter Land

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Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds)

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## **Appendix H**

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

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(The Final 2015 Annual Land Use Control Monitoring Report, RVAAP-01 Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds will include the entire Ohio EPA approved version of the FY 2015 Second Quarter Land Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds)

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## **Appendix I**

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

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(The Final 2015 Annual Land Use Control Monitoring Report, RVAAP-01  
Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds will  
include the entire Ohio EPA approved version of the FY 2015 Third Quarter Land  
Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds)

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## **Appendix J**

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

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(The Final 2015 Annual Land Use Control Monitoring Report, RVAAP-01  
Ramsdell Quarry Landfill and RVAAP-05 Winklepeck Burning Grounds will  
include the entire Ohio EPA approved version of the FY 2015 Fourth Quarter Land  
Use Control Inspection for RVAAP-05 Winklepeck Burning Grounds)

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## **Appendix K**

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### **FY 2015 Perimeter Fence Defect Call Outs Identified and Repaired**

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