## Land Use Control Effectiveness Report - 2016 McClellan, Anniston, Alabama

#### **Prepared for:**



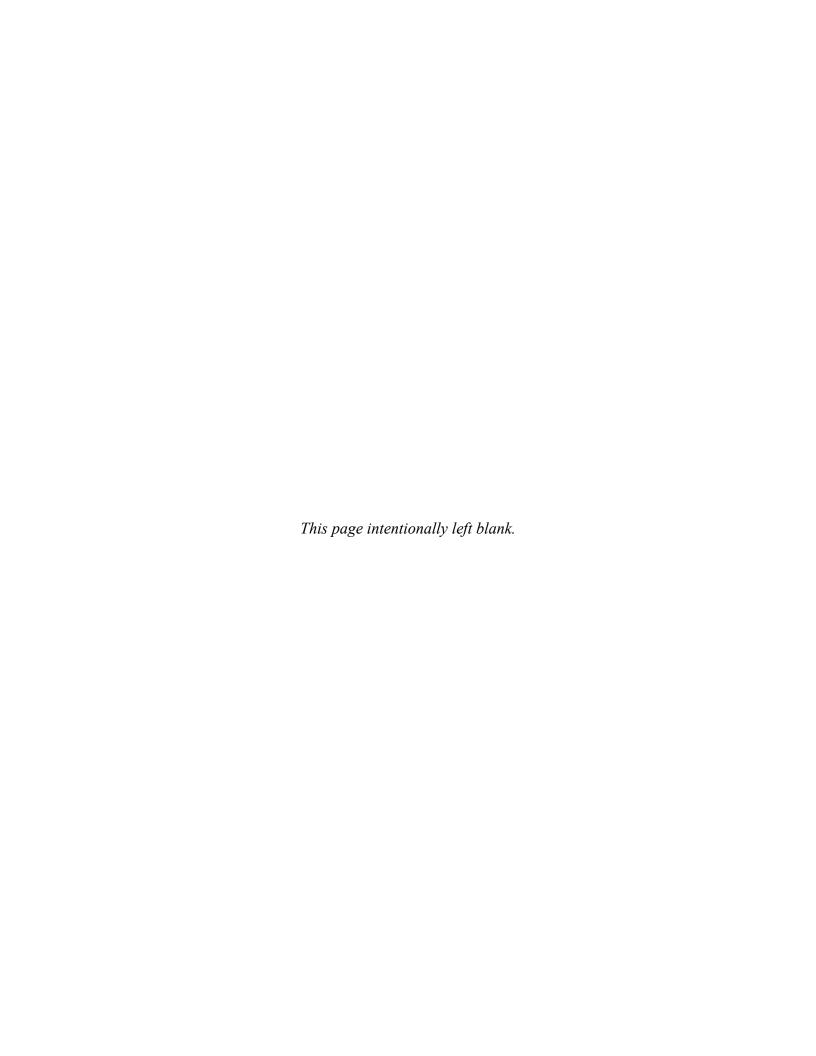
McClellan Development Authority McClellan, Anniston, Alabama

#### Prepared by:



Matrix Environmental Services, LLC 283 Rucker Street Anniston, Alabama 36205

> January 2017 Revised November 2017



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#### **LIST OF APPENDICES (on CD-ROM)**

Appendix A Security Checklists

Appendix B Landfill Cap Inspection Checklist Items for Landfill 1, Landfill 2, Landfill 4,

and Garbage Dump and Fill Area East of Reilly, Fill Area North of Landfill 2,

and Range 12: Iron Mountain Road Ranges Maintenance and Inspection Plan

Appendix C 2016 Annual Closure System Report, Landfill 3, Parcel 80(6) and Fill Area

Northwest of Reilly Airfield, Parcel 229(7)

#### LIST OF ACRONYMS AND ABBREVIATIONS

ADEM	Alabama Department of Environmental Management
ALDOT	Alabama Department of Transportation
Army	United States Department of the Army
BMP	Best Management Practice
CA	Cleanup Agreement AL4 210 020 562
CMI	Corrective Measures Implementation
Deed 13	Early Transfer Quitclaim Deed 13
ESCA	Environmental Services Cooperative Agreement
FOSET	Finding of Suitability for Early Transfer
GSA	General Services Administration

LUC Land Use Control

LUCER Land Use Control Effectiveness Report
LUCIP Land Use Control Implementation Plan
Matrix Matrix Environmental Services, LLC
MDA McClellan Development Authority
MEC Munitions and Explosives of Concern

MRA Munitions Response Area

RFI Resource Conservation and Recovery Act Facility Investigation

ROW Right-of-way



January 2017

#### 1.0 INTRODUCTION

This 2016 Annual Land Use Control Effectiveness Report (LUCER) has been prepared by Matrix Environmental Services, LLC (Matrix) on behalf of the McClellan Development Authority (MDA) to document the effectiveness of land use controls (LUCs) on certain parcels at McClellan owned by the MDA and for which the MDA is responsible for LUC enforcement. This report is intended to satisfy the requirements stipulated in the Cleanup Agreement No. AL4 210 020 562 (CA), amended most recently in February 2014, between the Alabama Department of Environmental Management (ADEM) and the MDA (ADEM, 2014); and the Environmental Services Cooperative Agreement (ESCA) between the United States Department of the Army (Army) and the MDA.

The CA (Section IV.C.) requires land use controls on certain parcels described in the Army's Finding of Suitability for Early Transfer (FOSET) or in Environmental Covenants. Interim land use controls are further described in the Deed Notices that are attached to the Deed for the FOSET Parcels that have been transferred from the Army to the MDA (Early Transfer Quitclaim Deed, also known as "Deed 13"). The CA requires that the MDA maintain and enforce the provisions of the Deed 13 notices until investigation and corrective measures required under the CA have been completed, and final remedies implemented. This LUCER documents the enforcement of the LUCs described in Deed 13, the CA, and Environmental Covenants filed in Calhoun County Probate. Table 1 presents a summary of LUCs by site/parcel.

The ESCA, Attachment E.1., Section 2.1.3 (6) requires the MDA to "Implement, administer, and enforce LUCs. Such implementation and administration of land use controls may be evidenced by the filing by the MDA with ADEM and the Army of an annual compliance report. The report shall certify, after inspection, that all components of land use controls are in place, and reporting any apparent violations of the land use controls, and describing actions, if any, taken in response to such violations."

This report has been prepared to fulfill the requirements specified above. The following sections describe the LUCs established for each applicable parcel, a description of the status of the LUCs, inspection summaries, and any noted violations.



#### 2.0 LAND USE CONTROLS

The MDA has assumed responsibility for conducting site-wide security patrols in the Main Cantonment Area, Alpha Munitions Response Area (MRA), and Bravo MRA. Dynamic Security, Matrix' security contractor, performed the role of Matrix Security officer. Security performed daily inspections and any incidents or concerns were noted on an Incident Report Form, which is turned into Matrix office personnel no later than the next business day. The inspection forms are filed in the LUC notebook and are retained in the Matrix Anniston office. Examples of these forms are included in Appendix A. The inspection forms are available for review upon request. In addition to site-wide security, the MDA is responsible for enforcement of LUCs and interim LUCs at the following sites:

- Landfill 1, Parcel 78(6) (Landfill 1)
- Landfill 2, Parcel 79(6) (Landfill 2)
- Landfill 3, Parcel 80(6) (Landfill 3)
- Landfill 4, Parcel 81(5) (Landfill 4)
- Industrial Landfill, Parcel 175(5) (Industrial Landfill)
- Former Post Garbage Dump, Parcel 126(7) (Garbage Dump)
- Fill Area North of Landfill 2, Parcel 230(7) (Fill Area North of Landfill 2)
- Fill Area East of Reilly, Parcel 227(7) (Fill Area East of Reilly)
- Fill Area Northwest of Reilly Airfield, Parcel 229(7) (Fill Area Northwest of Reilly)
- Training Area T-38 Former Technical Reaction Area, Parcel 186(6) (Training Area T-38)
- Range 31: Former Defendum Field Firing Range No. 2, Parcel 215Q
- Antitank Range, Parcel 230Q-X and Antitank Range: Former Rifle Range, Parcel 149Q
- MRS 13, Tracts A and B
- Training Area T-6 (Naylor Field), Parcel 183(6) (Training Area T-6)
- Cane Creek Training Area, Parcel 510(7) (Cane Creek Training Area)
- Small Weapons Repair Shop, Parcel 066(7) (Small Weapons Repair Shop)
- Chemical Laundry and Motor Pool Area 1500, Parcel 94(7) (Chemical Laundry)
- Former Motor Pool Area 3100, Parcels 24(7), 25(7), 73(7), 212(7), and 146(7) (Motor Pool Area 3100)
- Former Washrack, Building 1740, Soldier's Chapel, Parcel 127(7) (Soldier's Chapel)
- Reilly Lake
- General Services Administration (GSA) Warehouse Area, Parcels 151(4), 2(4), 3(4), 4(4), 67(4), 69(4), 91(4), 111(4), 128(4), 129(4), and 238(4) (GSA Warehouse Area)
- Alpha MRA and Bravo MRA (Multiple Parcels)
- Dog Kennel Area, Parcel 516(7)
- Blacktop Training Area, Parcel 511(7) and Fenced Yard in Blacktop Training Area, Parcel 512(7) (Blacktop Training Area), part of the Training Area T-5 Sites
- M1.01, M3 Miscellaneous Property and Eastern Bypass "Y" Area Junction (Golden Triangle and Y Area)
- Iron Mountain Road Ranges, Parcels 069Q, 070Q, 071Q, 075Q, 221-Q-X, 222Q-X (Iron Mountain Road Ranges)
- Training Area T-31, Parcels 184(7) and 185(7), 100Q/101Q
- Former Rifle/Machine Gun Range, Parcels 100Q and 101Q



- Training Area T-24A Parcels 112Q, 213Q and 214Q
- Baby Bains Gap Road Ranges: Range 18, Parcel 74Q, Range 23, Parcel 79Q, Range 28, Parcel 86Q, Former Range 25-East, Parcel 223Q, and Former Pistol Range, Parcel 227Q
- Baby Bains Gap Road Ranges: Range 25, Parcels 83Q, 118Q-X

The following sections include a parcel-by-parcel description of LUCs as specified in Deed 13, the CA, and Environmental Covenants. Also included are summaries of the inspections performed during 2016 and violations with associated corrective actions taken, as well as summaries of the landfill cap inspections performed in 2016.

#### 2.1 Landfill 1, Parcel 78(6)

The MDA submitted Environmental Covenant, Number FY-12-02.00 associated with Landfill 1 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on October 17, 2012.

LUCs at Landfill 1 specify a restriction on residential use. Residential use includes housing, daycare facilities, playgrounds, and schools for persons under age 18. A property use restriction of surface use only; a prohibition on digging or excavation of soils; and, installation of wells for uses other than monitoring is not allowed. In addition, the installation of signs and monuments is required.

Landfill 1 was not used for residential purposes in 2016, nor is residential use anticipated in the future. Monuments were installed in January 2007 and signs were installed in January 2011 to mark the boundary of the landfill and prohibit digging. Monuments were in good condition. One no digging sign was reattached during the inspection. No digging was performed during 2016 nor is any anticipated in the future. A cap inspection was conducted at Landfill 1 on October 13, 2016. The cap and vegetative cover appeared to be in good condition. No signs of subsidence, erosion, or disturbances were observed. Finally, no monitoring wells are located at Landfill 1 and none were installed. The Landfill Cap Inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.2 Landfill 2, Parcel 79(6)

The MDA submitted Environmental Covenant, Number FY-12-05.00 associated with Landfill 2 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on October 17, 2012.

LUCs at Landfill 2 specify a restriction on residential use (defined in Section 2.1). A property use restriction of surface use only; a prohibition on digging or excavation of soils; and, installation of wells for uses other than monitoring is not allowed. In addition, the installation of signs and monuments is required.

Landfill 2 was not used for residential purposes in 2016, nor is residential use anticipated in the future. Monuments were installed in July 2008 and signs were installed in January 2011 to mark the boundary of the landfill and prohibit digging. Monuments and signs at Landfill 2 were in good condition. No digging was performed during 2016 nor is any anticipated in the future. A



cap inspection was conducted at Landfill 2 on October 13, 2016. The cap appeared to be in good condition. Vegetative cover across Landfill 2 was observed to be in good condition. No signs of subsidence, erosion, or disturbances were observed. Finally, no monitoring wells are located at Landfill 2 and none were installed. The Landfill Cap Inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.3 Landfill 3, Parcel 80(6)

LUCs at Landfill 3 include a restriction on the consumptive or other use of groundwater and direct contact with groundwater unless proper safety and disposal measures as approved by ADEM are implemented and the prohibition of residential use of the site. No consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future. No direct contact with groundwater occurred in 2016, and none is anticipated in the future with the exception of remediation activities.

LUCs also include a restriction on residential use of this parcel and a restriction on digging or disturbance of soils without ADEM approval. Boundary markers were placed in 2007, and LUCs applicable to the cap have been implemented.

No residential use of the parcel occurred during 2016, and none is anticipated in the future. No digging was performed in Parcel 80(6) in 2016 nor is any anticipated in the future. Monuments and signs were observed to be in good condition. Pursuant to the CA and the Post-Closure Care Program for Landfill 3 (as modified by the 2012 LUCER), cap inspection and repair work information is documented in the 2016 Annual Closure System Report, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) (2016 Landfill 3 Closure System Report), which is provided in Appendix C of this report. The inspection occurred on October 14, 2016, and a summary of these cap inspections performed and copy of the cap inspection reports are also included in the 2016 Landfill 3 Closure System Report in Appendix C.

#### 2.4 Landfill 4, Parcel 81(5)

LUCs at Landfill 4 include a restriction on use of groundwater for consumption or bathing pending completion of ADEM-required groundwater monitoring. In addition, there is a restriction on digging or disturbance of soils without ADEM approval and a requirement for the installation of signs and monuments around the landfill. Monuments and signs have been installed around the landfill to mark the boundary of the landfill and prohibit digging.

Monuments and signs at Landfill 4 were in good condition. Fencing encloses much of the perimeter of the landfill and is in good condition. No consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future. Groundwater sampling associated with long-term operations and maintenance of this ADEM-approved closed landfill was conducted in accordance with Landfill Solid Waste Disposal Permit #08-02. No other direct contact with groundwater occurred in 2016, and none is anticipated in the future. No digging or soil disturbance occurred in 2016, nor is any anticipated in the future. A cap inspection was conducted at Landfill 4 on October 30, 2016. The cap surface was maintained and mowed in October 2016 prior to the cap inspection. No signs of erosion or exposed debris were observed. Four areas of minor subsidence were observed south of the centrally located drainage ditch. One



additional area of disturbance was observed in the northeastern section of the landfill. The areas of subsidence will be repaired during the final closure of the Industrial Landfill. The Landfill Cap Inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.5 Industrial Landfill, Parcel 175(5)

The Industrial Landfill is a cell within Landfill 4. LUCs at the Industrial Landfill include a restriction on use of groundwater for consumption or bathing pending completion of ADEM-required groundwater monitoring. In addition, digging or disturbance of soils without ADEM approval is prohibited. Signs and monuments have been installed around the landfill and appear to be in good condition. Fencing encloses a portion of the perimeter of the landfill and is in good condition.

No consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future. Operations are conducted under Landfill Solid Waste Disposal Permit #08-02 and National Pollutant Discharge Elimination System (NPDES) Permit AL0055999. Groundwater sampling associated with long-term operations and maintenance of this ADEM-approved closed landfill was conducted in accordance with Landfill Solid Waste Disposal Permit #08-02. No other direct contact with groundwater below the parcel occurred in 2016, and none is anticipated in the future.

The Industrial Landfill is an actively-permitted landfill and is used by the MDA for disposal of construction debris from redevelopment activities at McClellan. Waste disposal is conducted in accordance with an ADEM-approved Landfill Solid Waste Disposal Permit #08-02. Monuments and signs at the Industrial Landfill were installed in conjunction with the monuments and signs placed around Landfill 4. No digging signs were reattached or replaced during inspection operations in October 2016. A cap inspection was conducted at Landfill 4 (including the active cell, the Industrial Landfill) on October 30, 2016. The cap surface was maintained and mowed in October 2016 prior to the cap inspection. Vegetative cover appeared brown and dormant. The lack of rain has stunted the vegetation growth and caused much of the vegetation to appear brown in color. No signs of erosion or exposed debris were observed during the inspection. No areas of subsidence, erosion, or exposed debris were noted. The Landfill Cap Inspection Checklist Items report for the Landfill 4 cap inspection is provided in Appendix B.

#### 2.6 Former Post Garbage Dump, Parcel 126(7)

The MDA submitted Environmental Covenant, Number FY-11-01.00 associated with the Former Post Garbage Dump, Fill Area East of Reilly Airfield, and the Fill Area Northwest of Reilly Airfield to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 23, 2011.

LUCs at the Former Post Garbage Dump include a restriction on residential use, a restriction of use of the property to surface use, a restriction on digging or disturbance of soils, and the prohibition of installing new monitoring wells or the consumptive or other use of groundwater.

The Former Post Garbage Dump was not used for residential purposes in 2016, nor is residential use anticipated in the future. Monuments were installed in January 2007 and signs were installed



in January 2011 to mark the boundary of the landfill and prohibit digging. Monuments and signs at the Former Post Garbage Dump were in good condition. No digging signs were reattached or replaced during inspection operations in October 2016. The Former Post Garbage Dump is east of Reilly Lake and access is controlled by locked gates that control vehicular access to Reilly Lake. These gates are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. No digging was performed in 2016 nor is any anticipated in the future. A cap inspection was conducted at Garbage Dump on October 13, 2016. The cap and vegetative cover appeared to be in good condition. No signs of subsidence, erosion, or exposed debris were observed. Finally, no monitoring wells are located at Former Post Garbage Dump and none were installed. The Landfill Cap Inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.7 Fill Area North of Landfill 2, Parcel 230(7)

The MDA submitted Environmental Covenant, Number FY-13-01.00 associated with the Fill Area North of Landfill 2 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on April 18, 2014.

LUCs for the Fill Area North of Landfill 2 specify a restriction on residential use. A property use restriction of surface use only; a prohibition on digging or excavation of soils; and, installation of wells for uses other than monitoring is not allowed. In addition, access control and the installation of signs and monuments is required.

A portion of the Fill Area is within the Alpha MRA boundary and access is controlled by locked gates which are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. Munitions and Explosives of Concern (MEC) warning signs are posted along the perimeter of the Alpha MRA which includes the Fill Area North of Landfill 2. The Fill Area North of Landfill 2 was not used for residential purposes in 2016, nor is residential use anticipated in the future. Monuments were installed on October 8 and 9, 2012 and signs were installed in November 2012 to mark the boundary of the landfill and prohibit digging. No digging or soil disturbance occurred in 2016 nor is any anticipated in the future.

A cap inspection was conducted for the Fill Area North of Landfill 2 on October 14, 2016. The cap and vegetative cover appeared to be dormant due to drought like conditions. No signs of subsidence, erosion, or exposed debris were observed. No monitoring wells are located at the Fill Area North of Landfill 2 and none were installed. The Landfill Cap inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.8 Fill Area East of Reilly Airfield, Parcel 227(7)

The MDA submitted Environmental Covenant, Number FY-11-01.00 associated with the Former Post Garbage Dump, Fill Area East of Reilly Airfield, and the Fill Area Northwest of Reilly Airfield to ADEM for review and approval. ADEM granted approval of the LUCs and the Covenant was filed in Probate on September 23, 2011.



LUCs at the Fill Area East of Reilly Airfield include a restriction on residential use, a restriction of the use of the property to surface use, a restriction on digging or disturbance of soils, and the prohibition of installing new monitoring wells or the consumptive or other use of groundwater.

The Fill Area East of Reilly Airfield was not used for residential purposes in 2016, nor is residential use anticipated in the future. Monuments were installed in January 2007 and signs were installed in January 2011 to mark the boundary of the landfill and prohibit digging. Monuments and signs were in good condition. No digging was performed in 2016 nor is any anticipated in the future. The Fill Area is east of Reilly Lake and access is controlled by locked gates that control vehicular access to Reilly Lake. These gates are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. A cap inspection was conducted at the Fill Area East of Reilly on October 13, 2016. The cap and vegetative cover appeared to be in good condition. No signs of subsidence, erosion, or exposed debris were observed. The Landfill Cap Inspection Checklist Items report for the cap inspection is provided in Appendix B.

#### 2.9 Fill Area Northwest of Reilly Airfield, Parcel 229(7)

The MDA submitted Environmental Covenant, Number FY-11-01.00 associated with the Former Post Garbage Dump, Fill Area East of Reilly Airfield, and the Fill Area Northwest of Reilly Airfield to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 23, 2011.

LUCs at the Fill Area Northwest of Reilly Airfield include the prohibition of residential use of the property, restriction of use of the property to surface use, prohibiting digging or intrusive activities, and the prohibition of disturbing existing monitoring wells or installing new monitoring wells or the consumptive or other use of groundwater. The Fill Area Northwest of Reilly Airfield was not used for residential purposes in 2016, nor is residential use anticipated in the future. Boundary markers were placed in 2007 and signs were installed in January 2011 to mark the boundary of the landfill and prohibit digging.

No digging was performed in 2016 nor is any anticipated in the future. An area of erosion was observed at the base of the centrally located rock chute. A depression has been created and is holding water at the base of the chute. Pursuant to the CA and the Post-Closure Care Program (as modified by the 2012 LUCER) for Landfill 3 and the Fill Area Northwest of Reilly, cap inspection and repair work information is documented in the 2016 Landfill 3 Closure System Report, which is provided in Appendix C of this report. A summary of the cap inspections performed and copy of the cap inspection reports are also included in the 2016 Landfill 3 Closure System Report in Appendix C.

#### 2.10 Training Area T-38 Former Technical Reaction Area, Parcel 186(6)

The MDA submitted Environmental Covenant Number FY-12-01.00 associated with Training Area T-38, Former Technical Escort Reaction Area, Range 31: Former Defendum Field Firing Range No.2, Antitank Range, Antitank Range: Former Rifle Range and MRS 13, Tracts 13A and 13B to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.



LUCs at the Training Area T-38 include a restriction on the consumptive or other use of groundwater except for monitoring purposes, a restriction on public access and use of the property for any purpose is not allowed pending completion of the remedy. A locked gate at the entrance to T-38 prevents public access. The gate is checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. There was no evidence of public access to Training Area T-38 during 2016.

#### 2.11 Range 31: Former Defendum Field Firing Range No. 2, Parcel 215Q

The MDA submitted Environmental Covenant Number FY-12-01.00 associated with Training Area T-38, Former Technical Escort Reaction Area, Range 31: Former Defendum Field Firing Range No.2, Antitank Range, Antitank Range: Former Rifle Range and MRS 13, Tracts 13A and 13B to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.

LUCs at the Range 31: Former Defendum Field Firing Range No. 2 include a restriction on public access and use of the property for any purpose is not allowed pending completion of the remedy. Multiple locked gates prevent public access to this area. The gates are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. There was no evidence of public access to Range 31: Former Defendum Field Firing Range No.2 during 2016.

ADEM approved no further action for hazardous, toxic, and radioactive waste (HTRW) issues at Range 31: Former Defendum Field Firing Range No. 2 on July 31, 2013. The Covenant will be resubmitted for ADEM review and concurrence in the future to reflect this determination.

# 2.12 Antitank Range, Parcel 230Q-X and Antitank Range: Former Rifle Range, Parcel 1490

The MDA submitted Environmental Covenant Number FY-12-01.00 associated with Training Area T-38, Former Technical Escort Reaction Area, Range 31: Former Defendum Field Firing Range No.2, Antitank Range, Antitank Range: Former Rifle Range and MRS 13, Tracts 13A and 13B to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.

LUCs at the Antitank Range and Antitank Range: Former Rifle Range include restricted public access and use of the property for any purpose is not allowed pending completion of the remedy. Multiple locked gates prevent public access to this area. The gates are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. There was no evidence of public access to Antitank Range or the Antitank Range: Former Rifle Range during 2016.

#### 2.13 MRS 13, Tracts 13A and 13B

The MDA submitted Environmental Covenant Number FY-12-01.00 associated with Training Area T-38, Former Technical Escort Reaction Area, Range 31: Former Defendum Field Firing



Range No.2, Antitank Range, Antitank Range: Former Rifle Range and MRS 13, Tracts 13A and 13B to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.

LUCs at MRS 13, Tracts 13A and 13B include a restriction on public access and use of the property for any purpose is not allowed pending completion of characterization and any required response actions. Multiple locked gates and warning signs prevent public access to this area. The gates are checked daily and recorded on an inspection form that is signed and dated by the Matrix Security officer. There was no evidence of public access to MRS 13, Tracts 13A and 13B during 2016.

# 2.14 Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)

The MDA submitted Environmental Covenant Number FY-12-06.00 associated with Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on March 7, 2013.

LUCs at the Training Area T-6 and Cane Creek Training Area include a restriction on public access and use of the property for any purpose pending completion of the remedy, prohibition on consumptive use or direct contact with groundwater, prohibition on installation of any well for extraction of groundwater for purposes of consumptive or other uses, and prohibition on disturbing groundwater monitoring wells. There was no evidence of unauthorized public access to Training Area T-6 during 2016. These areas abut the Bravo MRA and the locked gate restricting access are checked by Matrix Security officers daily and recorded on an inspection form.

#### 2.15 Small Weapons Repair Shop, Parcel 66(7)

The MDA submitted Environmental Covenant Number FY-12-07.00 associated with Former Small Weapons Repair Shop, Parcel 66(7) to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on March 7, 2013.

LUCs at the Small Weapons Repair Shop include restriction on consumptive use or direct contact with groundwater, prohibition on installation of any well for extraction of groundwater for consumptive or other uses, and prohibition on disturbing groundwater monitoring wells. No consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future.

#### 2.16 Chemical Laundry and Motor Pool Area 1500, Parcel 94(7)

The MDA submitted Environmental Covenant Number FY-12-08.00 associated with the Chemical Laundry to ADEM. ADEM provided concurrence of the LUCs and the Covenant was filed in Probate on August 13, 2014.

LUCs at the Chemical Laundry include a restriction on the consumptive use or other use of groundwater as well as direct contact with groundwater within the confines of the Covenant



Boundary. Site groundwater for potable, irrigation, industrial, and agricultural uses is not allowed. In addition, installation of monitoring wells for uses other than groundwater monitoring is not allowed. Existing monitoring wells are required to remain in place and undisturbed. No consumptive or other use of groundwater occurred in 2016, nor was direct contact made. No contact or consumptive use of groundwater is anticipated in the future. Existing monitoring wells appear to be intact and undisturbed.

LUCs also specify if and when property is developed in accordance with the planned use, (1) intrusive activities may require appropriate precautions in accordance with local, state and federal regulations; and (2) if and when a building is constructed in accordance with the planned use, an evaluation of the potential for vapor intrusion will be performed at that time in accordance with local, state and federal regulations to determine if vapor mitigation measures are required. No intrusive activities took place at this parcel during 2016.

#### 2.17 Former Motor Pool Area 3100, Parcels 24(7), 25(7), 73(7), 212(7), and 146(7)

The MDA submitted Environmental Covenant Number FY-12-03.00 associated with the Motor Pool Area 3100 and the Soldier's Chapel (discussed in Section 2.18) to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.

LUCs at the Motor Pool Area 3100 include a restriction on the use of groundwater for potable water, irrigation, industrial and agricultural applications, and prohibition on installation of any well for extraction of groundwater for purposes of consumptive or other uses. No potable, irrigation, industrial or agricultural use of groundwater occurred in 2016, and none is anticipated in the future. In 2009, the MDA entered into a lease agreement with Auburn University. The lease includes a clause that restricts Auburn University's use of Motor Pool Area 3100 to surface use only.

#### 2.18 Former Washrack, Building 1740, Soldier's Chapel, Parcel 127(7)

The MDA submitted Environmental Covenant Number FY-12-03.00 associated with the Soldier's Chapel and the Former Motor Pool 3100 (discussed in Section 2.17) to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on September 21, 2012.

LUCs at the Soldier's Chapel include a restriction on the consumptive use or direct contact with groundwater and prohibition on installation of any well for extraction of groundwater for purposes of consumptive or other uses. No direct contact, and no consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future.

#### 2.19 Reilly Lake

LUCs at Reilly Lake as specified in Deed 13 include restrictions on swimming, wading, fishing, or harvesting aquatic animals in the lake wetlands, and streams. In addition, Deed 13 restricts consumption of fish or other aquatic animals in the lake, streams, and wetlands. However, during a Resource Conservation and Recovery Act Facility Investigation (RFI) it was determined that constituents detected in surface water and fish tissue do not pose an unacceptable risk to



human health and the environment; thereby finding the lake, wetlands, and stream suitable for swimming, wading, fishing, harvesting, and consuming aquatic animals.

The Draft Final RFI (MES, January 2005), recommended LUCs for the Former Post Garbage Dump (Parcel 126(7)) and Fill Area East of Reilly (Parcel 227(7)) (Sections 2.6 and 2.8), however, LUCs for the Reilly Lake area were not recommended. On April 17, 2006, ADEM concurred with this recommendation and the RFI was subsequently finalized and dated May 2006. Upon selling or conveyance of the property, the transfer deed will rescind the deed restrictions in accordance with the RFI recommendations.

# 2.20 GSA Warehouse Area, Parcels 151(4), 2(4), 3(4), 4(4), 67(4), 69(4), 91(4), 111(4), 128(4), 129(4), and 238(4)

The MDA submitted Environmental Covenant Number FY-12-04.00 associated with the GSA Warehouse Area to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on February 25, 2013.

LUCs on the GSA Warehouse Area include a restriction on consumptive or other use of groundwater and direct contact with groundwater, prohibition on installation of any well for extraction of groundwater for purposes of consumptive or other use, and restriction on the property to industrial and commercial reuse only. The property was used for industrial/commercial purposes in 2016. No consumptive or other use of groundwater occurred in 2016, and none is anticipated in the future. No direct contact with groundwater occurred in 2016, and none is anticipated in the future.

#### 2.21 Alpha and Bravo Munitions Response Areas

The MDA submitted Environmental Covenant Number FY-15-01.00 associated with the MRS-1 and Covenant Number FY-15.02.00 associated with Southern Alpha to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on October 5, 2015.

LUCs at MRS-1 and Southern Alpha include a prohibition on intrusive activities without explosives ordnance disposal (EOD) personnel or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the confines of an area three feet either side and including the area underneath both the Industrial Access Road and Bains Gap Road, and a prohibition on intrusive activities within the Cemetery Boundary in Southern Alpha.

The MDA submitted Environmental Covenant Number FY-16-01.00 associated with the MRS-5 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on March 22, 2016.

LUCs at MRS-5 include a prohibition on intrusive activities without explosives ordnance disposal (EOD) personnel or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the confines of the Covenant Boundary.



The MDA submitted Environmental Covenant Number FY-16-02.00 associated with the MRS-6 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on March 22, 2016.

LUCs at MRS-6 include a prohibition on intrusive activities without explosives ordnance disposal (EOD) personnel or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the confines of the Covenant Boundary.

The MDA submitted Environmental Covenant Number FY-16-03.00 associated with the MRS-12 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on March 22, 2016.

LUCs at MRS-12 include a prohibition on intrusive activities without explosives ordnance disposal (EOD) personnel or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the confines of the Covenant Boundary.

LUCs for the Alpha MRA and Bravo MRA pertain to MEC, and are intended to minimize the risk to human health and the environment, and to promote public safety. The LUCs require controlled access to the Alpha MRA and Bravo MRA as well as public education on the explosive hazards associated with munitions that may be present on the parcel and actions they should take should a MEC item be encountered. Gates have been installed to restrict vehicular access to these areas (Figure 1). Each gate is maintained under lock and key control. Signs are posted on the gates warning persons to keep out of the areas beyond the gates. Locked gates are inspected daily by Matrix Security officers, and results of the inspection recorded on an inspection form. The inspection forms are filed in the MES' offices and are available upon request.

MEC warning signs (Figure 2) are installed around the perimeter of the Alpha MRA and Bravo MRA, and are inspected by Matrix Security officers on a weekly basis. Missing or damaged signs are replaced. The MDA coordinates the community outreach program with the Army. A training video explaining the dangers of MEC is mandatory for anyone performing work on McClellan. The MDA and Matrix brief all contractors conducting work in these areas at McClellan on the possibility of encountering MEC, and describe procedures to implement should MEC happen to be encountered.

#### 2.22 Dog Kennel Area, Parcel 516(7)

LUCs have been established at the Dog Kennel Area to facilitate use of the site by Auburn University for use in their canine training program. The LUCs for the Dog Kennel Area pertain to unexploded ordnance, and are intended to minimize the risk to human health and the environment, and to promote public safety. Therefore, use of the Dog Kennel Area property is restricted to surface use. The tenant's personnel, including employees or authorized visitors, on site at the Dog Kennel Area must receive ordnance familiarization training. Additionally, "No Trespassing" signs are posted.



The MDA has incorporated provisions in the lease document prohibiting intrusive activity on the property. A training video explaining the dangers of MEC is mandatory for persons who enter and/or use the Dog Kennel Area. In 2009, MEC clearance activities associated with MRS-3 were conducted in the Dog Kennel Area.

# 2.23 Blacktop Training Area, Parcel 511(7) and Fenced Yard in Blacktop Training Area, Parcel 512(7)

LUCs at the Training Area T-5 Sites include a restriction on public access and a restriction barring use of the property for any purpose pending completion of characterization and any required response action. LUCs have been established at the Blacktop Training Area (part of the Training Area T-5 Sites) to facilitate use of the site by Auburn University for use in their canine training program. Use of the Blacktop Training Area property is restricted to surface use. There was no evidence of unauthorized public access to the Training Area T-5 Sites during 2016.

# 2.24 Golden Triangle and Y Area: M1.01, M3 Miscellaneous Property and Eastern Bypass "Y" Area Junction

LUCs at the Golden Triangle and Y Area, located in the northern portion of the Bravo Area, include a deed notice in the property transfer documents that informs future property owners of the historical military use and provides notification procedures in the event a MEC item is discovered. Construction support for MEC avoidance is required for the M1.01 Parcel and M3 Miscellaneous Property.

#### 2.25 Iron Mountain Road Ranges, Parcels 069Q, 070Q, 071Q, 075Q, 221-Q-X, 222Q-X

LUCs at the Iron Mountain Road Ranges include a restriction on public access and a restriction barring use of the property for any purpose pending completion of characterization and any required response action. The Alabama Department of Transportation (ALDOT) completed construction of a four lane bypass road (Veterans Memorial Parkway) adjacent to the sites in December 2015. Public access is controlled through the installation of a security fence on both sides of the new road. The gate used to control access to Iron Mountain Road Ranges is controlled and locked.

On September 27, 2012, the MDA submitted to ADEM a revised inspection and maintenance plan to address the erosion control requirements for the slope of Range 12 in Parcel 70Q. As stated in the *Range 12 (Parcel 70Q): Iron Mountain Road Ranges Maintenance and Inspection Plan* dated September 27, 2012, the MDA will perform annual inspections and routine maintenance as needed to the Best Management Practices (BMPs) already installed at the slope of Range 12 to ensure BMP effectiveness until the slope is stabilized. The annual inspection occurred on March 10, 2016. The deficiency in BMPs repaired in March 2015 was observed to be functioning properly. The t-posts were still in place and helping to stabilize the slope. No damage to the BMPs was observed during the inspection. The slope of Range 12 (Parcel 70Q) does show signs of erosion. The slope is very steep and limited in vegetative cover. The existing BMPs help to stabilize the area of erosion and limit the amount of soil that is washed downhill. No sediment was observed leaving the site and no sediment was observed having migrated to the base of the slope during the inspection. Native vegetation has taken root and is helping to



stabilize the slope. As Range 12 has not yet undergone lead remediation there may be significant disturbance to the surface in the future. Inspection documentation is included in Appendix B.

#### 2.26 Training Area T-31, Parcels 184(7) and 185(7)

LUCs at Training Area T-31 specify that public access is not allowed and use of the property for any purpose is not allowed pending completion of the remedy. There was no evidence of unauthorized public access to the Training Area T-31during 2016.

#### 2.27 Former Rifle/Machine Gun Range, Parcels 100Q and 101Q

LUCs at the Former Rifle/Machine Gun Range specify that public access is not allowed and use of the property for any purpose is not allowed pending completion of the remedy. There was no evidence of unauthorized public access or use of the Former Rifle/Machine Gun Range during 2016. We note ADEM concurred to no further action and unrestricted land reuse with regard to CERCLA-related hazardous substances for these parcels in April 2015. As such the next LUCER report will remove reference to Parcels 100Q and 101Q.

#### 2.28 Training Area T-24A Parcels 112Q, 213Q and 214Q

LUCs at the Training Area T-24A specify that public access is not allowed and use of the property for any purpose is not allowed pending completion of the remedy. There was no evidence of unauthorized public access or use of the Training Area T-24A during 2016. We note these are non-ESCA sites and are partially located on MDA property.

# 2.29 Baby Bains Gap Road Ranges: Range 18, Parcel 74Q, Range 23, Parcel 79Q, Range 28, Parcel 86Q, Former Range 25-East, Parcel 223Q, and Former Pistol Range, Parcel 227Q

LUCs at the Baby Bains Gap Road Ranges specify that public access is not allowed and use of the property for any purpose is not allowed pending completion of the remedy. There was no evidence of unauthorized public access or use of the Baby Bains Gap Road Ranges during 2016.

#### 2.30 Baby Bains Gap Road Ranges: Range 25, Parcels 83Q, 118Q-X

The MDA submitted Environmental Covenant Number FY-15-01.00 associated with Baby Bains Gap Road Ranges: Range 25, Parcels 83Q and 118Q-X and MRS-1 to ADEM for review. ADEM concurred with the LUCs and the Covenant was filed in Probate on October 5, 2015. LUCs at Baby Bains Gap Road Ranges: Range 25, Parcels 83Q and 118Q-X include a



restriction on residential use in entire Parcel 118Q-X and portions of Parcel 83Q as identified on the MRS-1 boundary map in the Covenant.



#### 3.0 LUC VIOLATIONS AND ACTIONS

LUC violations that occurred in 2016 are listed in Table 2. The security checks performed by the Matrix Security officer include checking for trespassers of any kind. The most common trespassers are poachers, walkers, and joggers. Both Federal and State Game Wardens occasionally patrol the areas frequented by poachers and have chased and apprehended poachers during sting operations. The Federal and State Game Wardens patrol throughout the site; including the Alpha and Bravo MRAs. The Wardens are trained in MEC awareness and patrol only on roadways and trails. The total elimination of poaching would be difficult due to the large area of the base, remoteness of many areas, the number of egress points through the woods onto the base, and the use of all-terrain vehicles by the poachers. The Matrix Security officers and Federal and State Game Wardens will continue to patrol known areas of poaching and trespassing.

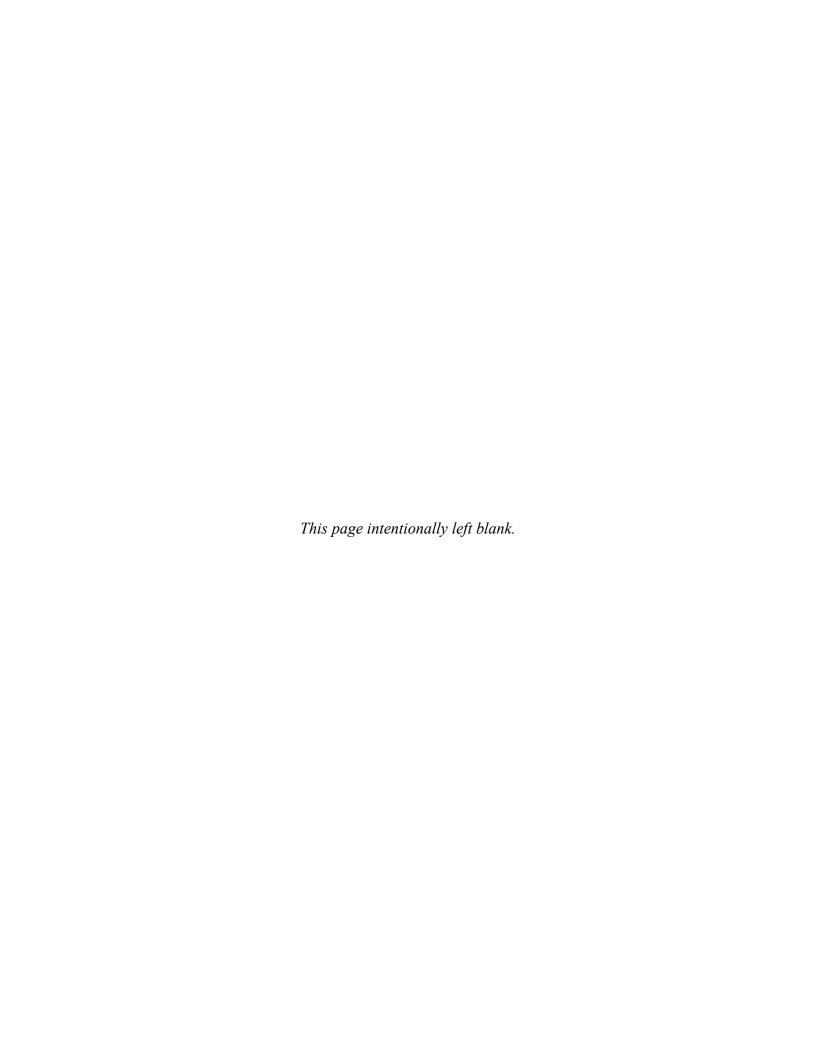
Another LUC violation is warning sign theft. Warning signs are inspected by Matrix Security officers on a weekly basis. Missing or damaged signs are replaced.



## 4.0 **RECOMMENDATIONS**

It is recommended that regular inspections continue. It is also recommended that the MDA and Matrix employees remain vigilant in identifying areas where trespassing may be occurring, as well as support for the Federal and State Game Wardens.







## Table 1: Land Use Control Summary Land Use Control Effectiveness Report

Site - Parcel	Land Use Control			
Landfill 1 - Parcel 78(6)	Restriction on digging or disturbance of soil (Covenant FY-12-02.00)			
	Restriction on residential use (Covenant FY-12-02.00)			
	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-12-02.00)			
	Monuments and signs (CA, Covenant FY-12-02.00)			
Landfill 2 - Parcel 79(6)	Restriction on digging or disturbance of soil (Covenant FY-12-05.00)			
	Restriction on residential use (Covenant FY-12-05.00)			
	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-12-05.00)			
	Monuments and signs (CA, Covenant FY-12-05.00)			
Landfill 3 - Parcel 80(6)	Restriction on consumptive, other use or contact with groundwater (Deed 13, LUCIP)			
	Restriction on digging or disturbance of soil (LUCIP)			
	Restriction on residential use (Deed 13, LUCIP)			
Landfill 4 - Parcel 81(5)	Restriction on use of groundwater for consumption or bathing pending completion of ADEM-required			
	groundwater monitoring (Deed 13, LUCIP)			
	Monuments and signs (Deed 13)			
	Restriction on digging or disturbance of soil (LUCIP)			
Industrial Landfill - Parcel 175(5)	Restriction on use of groundwater for consumption or bathing pending completion of ADEM-required			
	groundwater monitoring (Deed 13, LUCIP)			
	Monuments and signs (Deed 13)			
	Restriction on digging or disturbance of soil (LUCIP)			
Former Post Garbage Dump - Parcel 126(7)	Restriction on digging or disturbance of soil (Covenant FY-11-01.00)			
	Property use is restricted to surface use (Covenant FY-11-01.00)			
	Restriction on digging or disturbance of soils (Covenant FY-11-01.00)			
	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-11-01.00)			
Fill Area North of Landfill 2 - Parcel 230(7)	Restriction on digging or disturbance of soil (Covenant FY-13-01.00)			
	Restriction on residential use (Covenant FY-13-01.00)			
	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-13-01.00)			
	Monuments and signs (Covenant FY-13-01.00)			
Fill Area East of Reilly - Parcel 227(7)	Restriction on digging or disturbance of soil (Covenant FY-11-01.00)			
	Property use is restricted to surface use (Covenant FY-11-01.00)			
	Restriction on digging or disturbance of soils (Covenant FY-11-01.00)			

## Table 1: Land Use Control Summary Land Use Control Effectiveness Report

Site - Parcel	Land Use Control			
	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-11-01.00)			
Fill Area NW of Reilly - Parcel 229(7)	Restriction on digging or disturbance of soil (Covenant FY-11-01.00)			
	Property use is restricted to surface use (Covenant FY-11-01.00)			
	Restriction on digging or disturbance of soils (Covenant FY-11-01.00)			
	Restriction on groundwater monitoring well installation and groundwater use (Covenant FY-11-01.00)			
Training Area T-38 Former Technical Reaction Area - Parcel 186(6)	Restriction on consumptive use of groundwater except for monitoring purposes (Covenant FY-12-01.00)			
	No use of property pending completion of remedy (Covenant FY-12-01.00)			
Range 31: Former Defendum Field Firing Range No.2 - Parcel 215Q	Restriction on public access and use of the property for any purpose is not allowed pending completion of the remedy (Covenant FY-12-01.00)			
Antitank Range - Parcel 230Q-X, Antitank Range: Former Rifle	Restriction on public access and use of the property for any purpose is not allowed pending completion of			
Range - Parcel 149Q	the remedy (Covenant FY-12-01.00)			
MRS-13, Tracts A and B	Restriction on public access and use of the property for any purpose is not allowed pending completion of characterization and any required response actions (Covenant FY-12-01.00)			
Training Area T-6 (Naylor Field) - Parcel 183(6) and Cane	Restriction on public access (Deed 13)			
Creek Training Area - Parcel 510(7)	No use of property pending completion of characterization and a required response action (LUCIP)			
Small Weapons Repair Shop - Parcel 66(7)	Restrictions on groundwater monitoring well installation and groundwater use (Covenant FY-12-07.00)			
Motor Pool Area 1500 and Chemical Laundry - Parcel 94(7)	Restriction on consumptive, other use or contact with groundwater and direct contact with groundwater (Covenant FY-12-08.00).			
	Restriction of use of site groundwater for potable water, irrigation, industrial and agricultural applications (Covenant FY-12-08.00).			
	If and when property is developed in accordance with the planned use, intrusive activities may require appropriate precautions in accordance with local, state and federal regulations (Covenant FY-12-08-00).			
	If and when a building is constructed in accordance with the planned use, an evaluation of the potential			
	for vapor intrusion will be performed at that time in accordance with local, state and federal regulations to determine if vapor mitigation measures are required (Covenant FY-12-08-00).			
	The installation of any well for extraction of groundwater for purposes of consumptive or other uses			
	(unless said wells are intended to be utilized by the Holder or ADEM for groundwater monitoring) is			
	prohibited within the Covenant Boundary (Covenant FY-12-08-00).			

## Table 1: Land Use Control Summary Land Use Control Effectiveness Report

Site - Parcel	Land Use Control			
	If groundwater monitoring wells or a remediation system remain on and/or around the Property (CERFA Parcel and/or Covenant Boundary) these areas shall not be disturbed (Covenant FY-12-08-00).			
Former Motor Pool Area 3100 – Parcels 24(7), 25(7), 73(7), 212(7), and 146(7)	Restriction on the use of groundwater for potable water, irrigation, industrial and agricultural applications (Covenant FY-12-03.00)  Restriction on groundwater monitoring well installation and groundwater use (Covenant FY-12-03.00)			
Former Washrack, Building 1740, Soldier's Chapel – Parcel 127(7)	Restriction on the consumptive use or direct contact with groundwater (Covenant FY-12-03.00)  Restriction on groundwater monitoring well installation and groundwater use (Covenant FY-12-03.00)			
General Services Administration (GSA) Warehouse Area – Parcels 151(4), 2(4), 3(4), 4(4), 67(4), 69(4), 91(4), 111(4), 128(4), 129(4), and 238(4)	Restricted to commercial and industrial reuse (Covenant FY-12-04.00) Restriction on consumptive or other use of groundwater and direct contact with groundwater (Covenant FY-12-04.00) Restriction on groundwater monitoring well installation and groundwater use (FY-12-04.00)			
Alpha Area (Multiple Parcels) and Bravo Area (Multiple Parcels)	Public education and restriction on public access (Deed 13)  No use of property pending completion of characterization and a required response action (LUCIP)			
MRS-1, Baby Bains Gap Road Ranges: Range 25 Parcel 83Q, 118Q-X	Prohibition on intrusive activities without EOD or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the confines of an area three feet either side and including the area underneath both the Industrial Access Road and Bains Gap Road of the Covenant Boundary (FY-15-01.00)			
	Restriction on residential use in entire Parcel 118Q-X and portions of Parcel 83Q as identified on the MRS-1 boundary map (FY-15-01.00)			
Southern Alpha	Prohibition on intrusive activities without EOD or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction within the confines of the Cemetery Boundary or within the confines of an area three feet either side and including the area underneath Bains Gap Road of the Covenant Boundary (FY-15-02.00)			
MRS-5	Prohibition on intrusive activities without EOD or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the Covenant Boundary (FY-16-01.00)			

Table 1: Land Use Control Summary Land Use Control Effectiveness Report

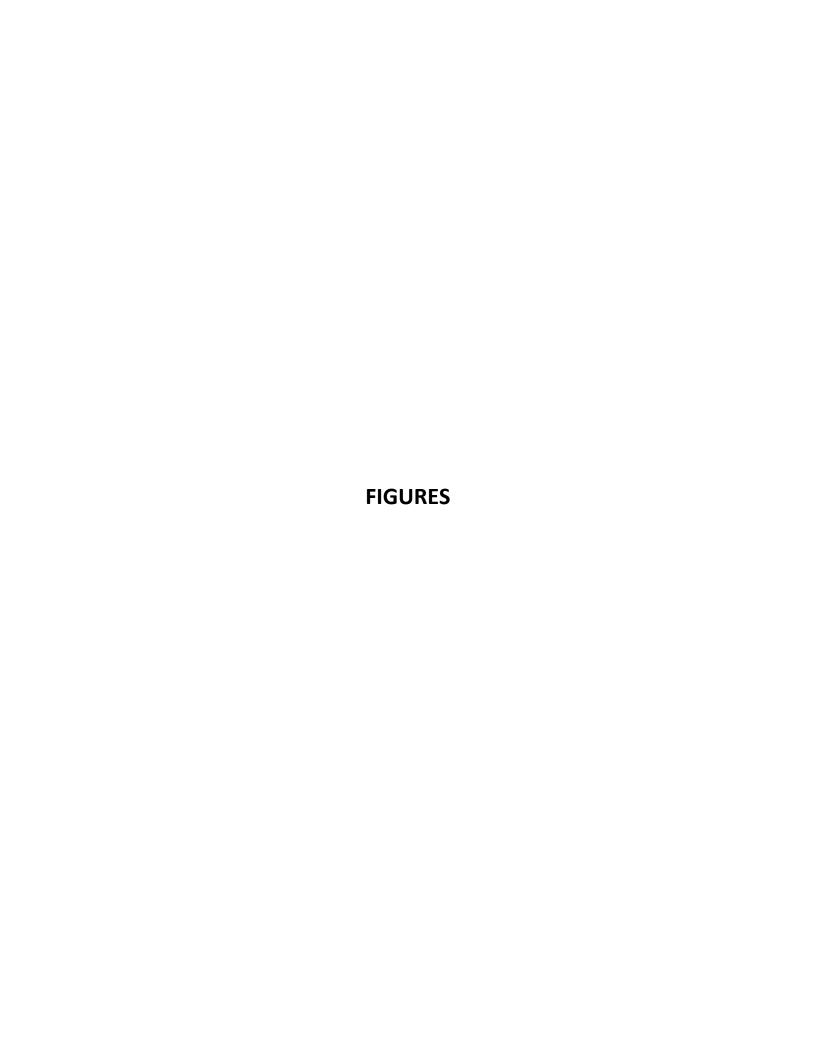
Site - Parcel	Land Use Control			
MRS-6	Prohibition on intrusive activities without EOD or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the Covenant Boundary (FY-16-02.00)			
MRS-12	Prohibition on intrusive activities without EOD or UXO-qualified personnel being contacted to ensure their availability, advised about the project, and placed "on-call" to assist if suspected UXO are encountered during construction activities within the Covenant Boundary (FY-16-03.00)			
Dog Kennel Area	Restricted to surface use only (LUCIP) Ordnance familiarization training (LUCIP) No trespassing signs (LUCIP)			
Blacktop Training Area, Parcel 511(7) and Fenced Yard in	Restriction on public access (Deed 13)			
Blacktop Training Area, Parcel 512(7) (part of Training Area	Restricted to surface use only (LUCIP)			
T-5 Sites)	No use of property pending completion of characterization and a required response action (LUCIP)			
Golden Triangle and Y Area: M1.01, M3 Miscellaneous	Deed notice in the property transfer documents with procedures to follow if MEC items are discovered.			
Property and Eastern Bypass "Y" Area Junction	(LUCIP)			
	Focused construction support for MEC avoidance during construction of commercial building and infrastructure in the M1.01 Parcel and M3 Miscellaneous Property (CA)			
Iron Mountain Road Ranges, Parcels 069Q, 070Q, 071Q, 075Q,	Restriction on public access (CA)			
221Q-X, and 222Q-X	No use of property pending completion of the remedy (CA)			
Training Area T-31, Parcels 184(7) and 185(7)	Restriction on public access (CA)			
	No use of property pending completion of the remedy (CA)			
Former Rifle/Machine Gun Range, Parcels 100Q and 101Q	Restriction on public access (CA)			
	No use of property pending completion of the remedy (CA)			
Training Area T-24A Parcels 112Q, 213Q and 214Q	Restriction on public access (CA)			
	No use of property pending completion of the remedy (CA)			
Baby Bains Gap Road Ranges: Range 18, Parcel 74Q, Range	Restriction on public access (CA)			
23, Parcel 79Q, Range 28, Parcel 86Q, Former Range 25-east,	No use of property pending completion of the remedy (CA)			
Parcel 223Q, and Former Pistol Range, Parcel 227Q				

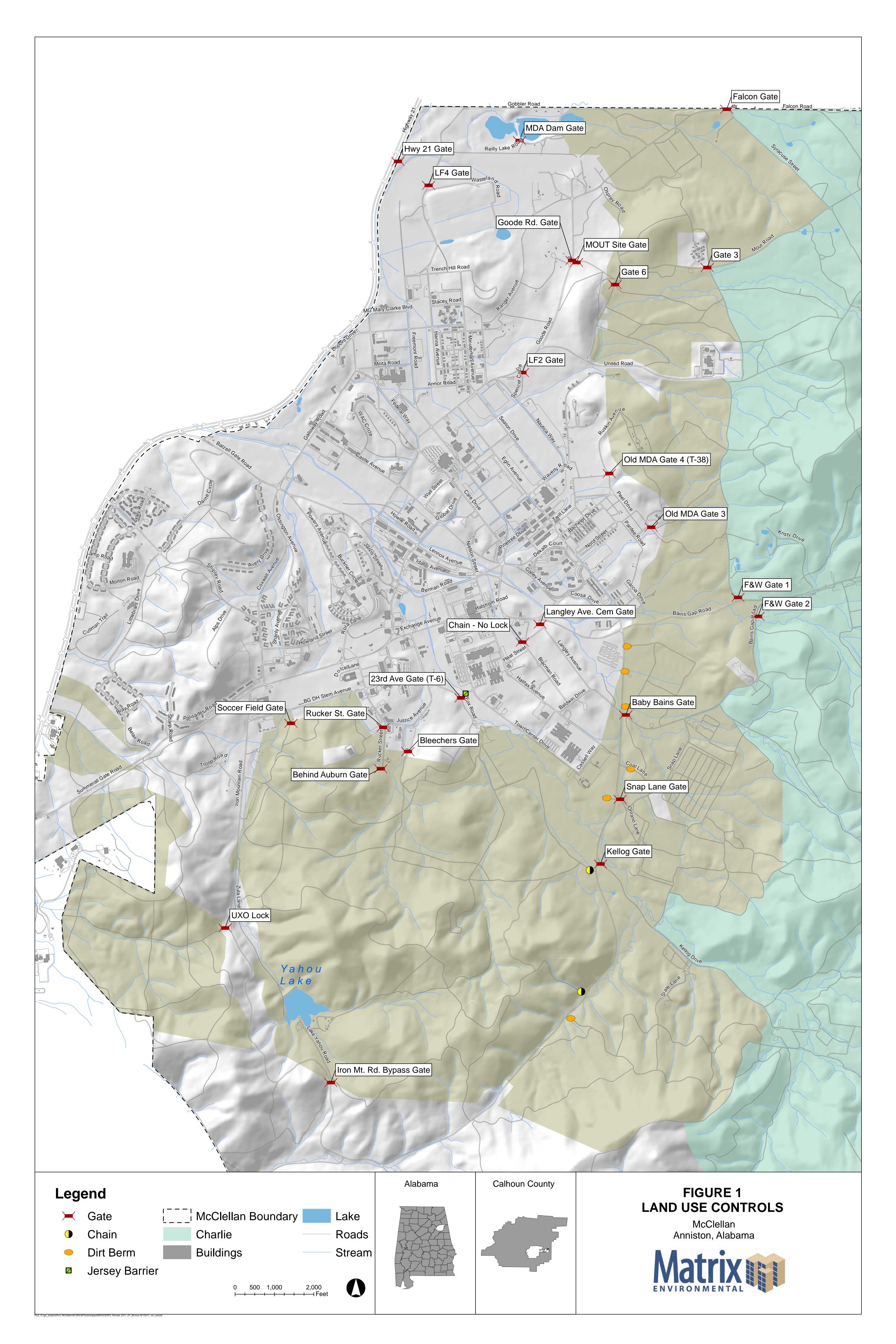
CA - Cleanup Agreement LUCIP - Land Use Control Implementation Plan

### Table 2: Incident Summary Table Land Use Control Effectiveness Report

	0.1		
No.	Date of Incident	Time of Incident	Summary of Incident
1	June 27, 2016	3:00 PM	Matrix personnel notified Dynamic Security about a man found in the range area behind the soccor field gate. Matrix and the Anniston Police Department (APD) secured the man (who appeard to be under the influence of drugs) and the APD removed him from the site. The man had drove his truck off the McClellan Bypass exit into the boundary fence of Iron Mountain Road Ranges and had got lost or confused. Dynamic assisted Matrix in searching for additional people and secured the area.
2	November 22, 2016	12:39 PM	Matrix notifed Dynamic about an elderly man in the area around Riley Lake. Dynamic encounter the man a few feet inside the Goode Road main gate (#21), who said he was out for a stroll. Dynamic informed him that he was trespassing and he exited the area.
3	December 19, 2016	8:30 AM	Dynamic Security noticed that the Matrix UXO lock on Goode Road main gate was missing and had been replaced with a Master lock of unknown origin. The unknown lock was removed and replaced with a Matrix UXO lock. Dynamic secured the area.

03.2016 LUCER Tables/Table 2 Page 1 of 1







# **APPENDIX A**

**Security Checklists** 



# **Daily Security Checklist**

Security Officer: Date:

Gate Number	Parcel/ Location	Timo	s Checked	I	Barrier Condition	Gate Condition	Locked/Open Lock Operates	Evidence of Tresspass	Buddy Locks/ Permitted
Gate Number	Location		o Area		Condition	Condition	Lock Operates	Пезэразэ	remitted
T-38 Gate, Old MDA 4	Entrance to T-38								UXO
OLD MDA Gate 3	Lauren Road								UXO
	Bains Gap Road								UXO
	Baby Bains								UXO
Baby Bains Gate	Baby Bains								UXO
Langley Ave/Cemetary	Langley Avenue								UXO
	Snap Lane								UXO
Kellogg Road Gate	Kellogg Road								UXO
T6-23rd Ave Gate	Fox Road								UXO
Auburn Bleachers Gate	Bleachers (Auburn)								UXO
Rucker Street Gate	Behind Matrix Office								UXO
Behind Auburn Gate	Near Dog Kennels								UXO
Soccer Road Gate	Soccer Park								UXO
Iron Mtn Bypass Gate	Iron Mountain Road								UXO
LF2 Gate	Goode Road								UXO
Mout Site Gate	Mout Site Entrance								UXO
Old MDA Gate 6	Mout Road								UXO
Mout Site Gate 3	Behind Mout Site								UXO
Goode Road Main Gate	Goode Road								UXO
Falcon Road Gate	Falcon Road								UXO
HWY 21 Gate	Hwy 21								UXO
Landfill 4 Gate	Gobbler Road								UXO
Mudpuddle Road Gate	Off Irn Mtn Road								UXO
Last Lock on Right	Yahoo Short-cut								UXO
Museum Gate	Southern Boundary								UXO
	Off Irn Mtn Road								UXO
Museum Gate	Southern Boundary								UXO

SIGNATURE \_\_\_\_\_

# MATRIX ENVIRONMENTAL SERVICES, LLC. 283 RUCKER STREET ANNISTON, AL 36205 256.847.0780

#### INCIDENT REPORT

CLIENT: ADDRESS:		PHONE	::( )	
WHO WAS INVOLVED?	NAME	TITLE		PHONE
			y y	
WHAT HAPPENED?				
			•	
			top to the same	
WHEN Incident Occurred:		•		
WHERE Incident Occurred:				por the dree of the large state of the
WHY Incident Occurred:			· · · · · · · · · · · · · · · · · · ·	
How Incident Occurred;				
Client Notified;				•
Time Notified:				
S/O Reporting:		S/O Signature;		1.0
Time of Report:		Date of Report:		
Matrix Supervisor Notified:				
Supervisor Comments:				

APPENDIX B  Landfill Cap Inspection Checklist Items for Landfill 1, Landfill 2, Landfill 4, Garbage Dump and Fill Area East of Reilly, Fill Area North of Landfill 2, and Range 12: Iron Mountain Road Ranges					

# LANDFILL COVER INSPECTION CHECKLIST ITEMS

Sp	ecific Site Identification: McClellan Landfill 1, Parcel 78(6)	Date: <u>10/13/201</u>	6
La	andfill Cover Survey		
1.	Observe any areas on the cover that indicate signs of subsidence (e.g., obvious cover surface where significant amounts of standing water can accumulate in p precipitation events).		
	No evidence of subsidence was observed during the cap inspection.		
2.	Observe any signs of erosion on the landfill cover (e.g., during windy conditions dust blowing off of the cover, check for any erosion caused by stormwater runoff).		
	No signs of erosion or exposed debris was observed during the inspection.		
3.	Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetation vegetation has grown or whether the vegetation has died and has not been abnormal growth of weeds that may crowd out natural vegetation}.		
	The vegetative cover was observed to be in good condition during the inspect observed.	tion. No bare areas	were

Landfill Monument Benchmark Survey	
1. Check the condition of the brass benchmark implanted on the concrete monuments; make sure that the concrete has not deteriorated around the monument foundation and that the etched mark is still visible.	
Monument 1, Comments: Good condition, no damage. No digging sign had fallen but was reattached during	
the inspection.	
Monument 2, Comments: Good condition, no damage. No digging sign was attached.	
Monument 3, Comments: Good condition, no damage. No digging sign was attached.	
Monument 4, Comments: Good condition, no damage. No digging sign was attached.	
Monument 5, Comments: Good condition, no damage. No digging sign was attached.	
Monument 6, Comments: Good condition, no damage. No digging sign was attached.	
Monument 7, Comments: Good condition, no damage. No digging sign was attached.	
Monument 8, Comments: Good condition, no damage. No digging sign was attached.	
Inspected by: Joseph Owens	
Signature: Juseph Chem Date: 10/13/2016	

Photo Log Annual Cap Inspection Landfill 1



The vegetation across the cap surface appeared to be in good condition at the time of the inspection. No bare areas were observed.



The Water company installed or fixed a valve on the edge of the cap near monument #1.



Some of the boundary monuments along the perimeter of Landfill1 had become overgrown and were difficult to see. The vegetation had become very thick along the perimeter boundary. The vegetation was trimmed to allow the boundary monument and sign to be visible.

## LANDFILL COVER INSPECTION CHECKLIST ITEMS

Sp	ecific Site Identification: McClellan Landfill 2, Parcel 79(6) Date: 10/13/2016
La	ndfill Cover Survey
1.	Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events).
	No evidence of subsidence was observed during the cap inspection.
2.	Observe any signs of erosion on the landfill cover (e.g., during windy conditions observe any evidence of dust blowing off of the cover, check for any erosion caused by stormwater runoff). Any exposed debris?
	No signs of erosion or exposed debris was observed during the inspection.
3.	Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetative cover; Note whether no vegetation has grown or whether the vegetation has died and has not been re-established, check for abnormal growth of weeds that may crowd out natural vegetation}.
	The vegetative cover was observed to be in good condition during the inspection. No bare areas were observed.

# Landfill Monument Benchmark Survey 1. Check the condition of the brass benchmark implanted on the concrete monuments; make sure that the

•	concrete has not deteriorated around the monument foundation and that the etched mark is still visible.
<b>X</b> ]	Monument 1, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 2, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 3, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 4, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 5, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 6, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 7, Comments: Good condition, no damage. No digging sign was attached.
<b>X</b> ]	Monument 8, Comments: Good condition, no damage. No digging sign was attached.
Insp	pected by: Joseph Owens
Sign	nature: Juseph Onem Date: 10/13/2016



The vegetation across the landfill was observed to be in good condition at the time of the inspection. No bare areas were observed. No erosion of the landfill cap was observed during the inspection. No low areas or exposed debris was observed.



The landfill boundary monuments were in good condition with no visible signs of damage. The signs prohibiting digging on the landfill were all attached and in good condition.

### LANDFILL COVER INSPECTION CHECKLIST ITEMS

Sp	ecific Site Identification: McClellan Landfill 4, Parcel 81(5) Date: 10/30/2016
<u>La</u>	ndfill Cover Survey
1.	Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events).
	Four areas of minor subsidence were observed south of the centrally located drainage ditch. The approximate size and location of the areas was noted on the attached figure. One additional area of disturbance was observed in the northeastern section of the landfill. This is an area that has been repaired multiple times due to deer damaging the surface. Deer prints were observed in this area during the inspection. The areas of subsidence will be repaired during the final closure of the Industrial Landfill.
2.	Observe any signs of erosion on the landfill cover (e.g., during windy conditions observe any evidence of dust blowing off of the cover, check for any erosion caused by stormwater runoff). Any exposed debris?
	No evidence was observed during the inspection. No exposed debris was observed.
3.	Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetative cover; Note whether no vegetation has grown or whether the vegetation has died and has not been re-established, check for abnormal growth of weeds that may crowd out natural vegetation}.
	The landfill vegetative cover was mowed prior to the inspection. The vegetation appeared brown and dormant. The lack of rain has stunted the vegetation growth and caused much of the vegetation to appear brown in color.
4.	Check the condition of the boundary fence. (e.g. check for holes in the fence, any areas requiring repair, and that the fence is sufficient to prevent unauthorized entry.)
	The boundary fence was in good condition at the time of the inspection.

### **Landfill Monument Benchmark Survey**

Signature: Juseph Anem	Date: 10/18/2016
Inspected by: Joseph Owens	
Notes:	
Monument 9, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 8, Comments: Good condition, no damage	e. No digging sign was intact.
Monument 7, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 6, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 5, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 4, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 3, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 2, Comments: Good condition, no damage	e. No digging signs was intact.
Monument 1, Comments: Good condition, no damage	e. No digging sign was intact.
sure that the concrete has not deteriorated around the etched mark is still visible.	ne monument foundation and that the
r	

1. Check the condition of the brass benchmark implanted on the concrete monuments; make

McClellan Landfill 4, Parcel 81(5) Landfill Cap Inspection Photos October 18, 2016



**LF4-001:** The cap surface appeared to be in good condition at the time of the inspection. The vegetation was mowed at the beginning of October 2016.



**LF4-002:** The boundary monuments were observed to be in good condition. The no digging signs were attached to the monuments at the time of the inspection.



**LF4-003:** An area in the northeastern corner of the landfill (Area A on the attached figure) was observed to have been disturbed. This area is often frequented by deer.



**LF4-004:** Four areas of minor subsidence were observed south of the centrally located drainage ditch. These areas appear to be areas that hold water during the wet seasons. The areas will be repaired during Phase II of the Industrial Landfill closure.

### LANDFILL COVER INSPECTION CHECKLIST ITEMS

Specific Site Identification: McClellan Former Post Garbage Dump, Parcel 126(7) Date: 10/13/2016

McClellan Fill Area East Reilly Airfield, Parcel 227(7)

### **Landfill Cover Survey**

1.	Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events).
	No evidence of subsidence was observed during the cap inspection.
2.	Observe any signs of erosion on the landfill cover (e.g., during windy conditions observe any evidence of dust blowing off of the cover, check for any erosion caused by stormwater runoff). Any exposed debris?
	No signs of erosion or exposed debris was observed during the inspection.
3.	Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetative cover; Note whether no vegetation has grown or whether the vegetation has died and has not been re-established, check for abnormal growth of weeds that may crowd out natural vegetation}.
	The vegetative cover was observed to be in good condition during the inspection. No bare areas were observed.

Landfill Monument Benchmark Survey	
1. Check the condition of the brass benchmark implanted on the concrete monuments; make sure that the concrete has not deteriorated around the monument foundation and that the etched mark is still visible.	
Monument 1, Comments: Good condition, no damage. No digging sign was attached.	
Monument 2, Comments: Good condition, no damage. No digging sign was attached.	
X Monument 3, Comments: Good condition, no damage. No digging sign was attached.	
X Monument 4, Comments: Good condition, no damage. No digging had fallen but was reattached during the	
inspection.	
Monument 5, Comments: Good condition, no damage. No digging sign was attached.	
Monument 6, Comments: Good condition, no damage. No digging sign was attached.	
Monument 7, Comments: Good condition, no damage. No digging sign was attached.	
Monument 8, Comments: Good condition, no damage. No digging sign was attached.	
Inspected by: Joseph Owens	
Signature:	

Photo Log Annual Cap Inspection McClellan Former Post Garbage Dump and Fill Area East of Reilly Airfield



The vegetation appeared to be in good, but dormant condition due to drought.



No erosion of the landfill cap was observed during the inspection.



The no digging sign attached to Boundary Monument #4 had fallen and was reattached during the inspection.

#### LANDFILL COVER INSPECTION CHECKLIST ITEMS

Specific Site Identification: McClellan Fill Area North of Landfill 2, Parcel 230(7) Date: 10/14/2016 **Landfill Cover Survey** 1. Observe any areas on the cover that indicate signs of subsidence (e.g., obvious visible low spots on the cover surface where significant amounts of standing water can accumulate in puddles during significant precipitation events). No evidence of subsidence was observed during the cap inspection. 2. Observe any signs of erosion on the landfill cover (e.g., during windy conditions observe any evidence of dust blowing off of the cover, check for any erosion caused by stormwater runoff). Any exposed debris? No signs of exposed debris were observed during the inspection. 3. Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetative cover; Note whether no vegetation has grown or whether the vegetation has died and has not been re-established, check for abnormal growth of weeds that may crowd out natural vegetation. The vegetative cover was observed to be in good condition during the inspection. No bare areas were observed. Vegetation was dormant due to drought like conditions. Recommend mowing/cutting slope of fill area in 2017.

La	Landfill Monument Benchmark Survey		
1.	Check the condition of the brass benchmark implanted on the concrete monuments; make sure that the concrete has not deteriorated around the monument foundation and that the etched mark is still visible.		
X	Monument 1, Comments: Good condition, no damage. No digging sign is missing.		
X	Monument 2, Comments: <u>Good condition, no damage. No digging sign was attached</u> .		
X	Monument 3, Comments: Good condition, no damage. No digging sign was attached .		
X	Monument 4, Comments: Good condition, no damage. No digging sign was attached.		
X	Monument 5, Comments: Good condition, no damage. No digging sign was attached .		
X	Monument 6, Comments: Good condition, no damage. No digging sign was attached.		
X	Monument 7, Comments: Good condition, no damage. No digging sign was attached.		
X	Monument 8, Comments: Good condition, no damage. No digging sign was attached .		
Ins	Inspected by: Joseph Owens		
Sig	nature		

Photo Log Annual Cap Inspection McClellan Fill Area North of Landfill 2



The vegetation across the cap appeared to be in good condition during the inspection. It is dormant due to drought like conditions.



No erosion of the landfill cap was observed during the inspection. No low areas or exposed debris was observed.



Recommend mowing or cutting the vegetation growing on the slope of the fill area in 2017.

## IRON MOUNTAIN ROAD RANGES BMP EROSION CONTROL INSPECTION

Spe	cific Site Identification: Range 12 (Parcel 70Q) Date: March 10, 2016
BN	P Inspection
1.	Observe any damage to the best management practices (BMPs) or any areas that require repair or replacement. The deficiency in BMPs repaired in March 2015 was observed to be functioning properly. The t-posts were still in place and helping to stabilize the slope. No damage to the BMPs was observed during the inspection and no additional signs of erosion were observed.
2.	Observe any signs of erosion (e.g., during windy conditions observe any evidence of dust blowing, check for any erosion caused by stormwater runoff).  The slope of Range 12 (Parcel 70Q) does show signs of erosion. The slope is very steep and limited in vegetative cover. The existing BMPs help to stabilize the area of erosion and limit the amount of soil that is washed downhill. No sediment was observed leaving the site and no sediment was observed having migrated to the base of the slope during the inspection.
3.	Check the condition of the vegetative cover. (e.g. check for bare spots in the vegetative cover; Note whether no vegetation has grown or whether the vegetation has died and has not been re-established,). The young pines and other small trees have increased in size since the last inspection and help to stabilize the slope. The ground surface is covered with deadfall leaves and pine needles. The area is very rocky and thus limited in the amount of vegetation that grows along the slope.
4.	Due to the steepness of the slope in the southern area of Range 12, it is anticipated that deficiencies in the BMPs may occur in this area over time. Pine trees and other shrub-type vegetation growing below the area of erosion help to mitigate potential runoff leaving the site. Inspections of the BMPs will continue annually at Range 12 (Parcel 70Q) and any necessary repairs made to ensure BMP effectiveness.
	nature:

Iron Mountain Road Ranges
Range 12 Annual BMP Inspection- March 10, 2016



The BMPs repaired in March of 2015 were observed to be in place and in good condition.



Vegetation on the slope of Range 12 is limited to small pine trees and other small woody stemmed plants.



No new erosion was observed during the March 2016 inspection. Annual inspections will continue in 2017.



The t-posts located behind the wooden board helps to keep the board in place and helps limit erosion.



The pine trees grow beneath the BMPs and provide additional stabilization to the slope.



Pines help to stabilize the area beneath the BMPs. No new signs of erosion were observed during the inspection.

APPENDIX C
Annual Closure System Report, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)

### 2016 Annual Closure System Report Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7)

### McClellan, Anniston, Alabama

#### **Prepared for:**



McClellan Development Authority McClellan, Anniston, Alabama

#### Prepared by:



Matrix Environmental Services, LLC 283 Rucker St. Anniston, Alabama 36205

January 2017

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#### LIST OF ATTACHMENTS

Attachment C1 On-Site Inspection and Maintenance Forms



#### LIST OF ABBREVIATIONS AND ACRONYMS

ADEM Alabama Department of Environmental Management

CA Cleanup Agreement AL4210020562

FANWR Fill Area Northwest of Reilly Airfield, Parcel 229(7)

GeoSyntec GeoSyntec Consultants Landfill 3 Landfill 3, Parcel 80(6) McClellan Former Fort McClellan

MDA McClellan Development Authority
MES Matrix Environmental Services, LLC



January 2017

#### 1.0 INTRODUCTION

This Annual Closure System Report has been prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA) to summarize the results of the post-remediation activities, including closure system inspections and maintenance performed from January 2016 through December 2016 at Landfill 3, Parcel 80(6) (Landfill 3) and Fill Area Northwest of Reilly Airfield, Parcel 229(7) (FANWR) at the former Fort McClellan (McClellan) located in Anniston, Alabama. The closure system inspections and maintenance discussed herein were performed to document compliance with the post closure care program requirements outlined in Section 4.5 and Appendix E of the Certified for Construction Documents: Final Design Report, Landfill Cover Systems, Landfill 3 and Fill Area Northwest of Reilly Airfield (Final Design Report) (GeoSyntec Consultants [GeoSyntec], 2007).

The responsible project contacts for the Landfill 3 and FANWR work discussed herein are:

#### **Primary**

Joseph Owens Matrix Environmental Services, LLC 283 Rucker Street, Bldg. 3165 Anniston, AL 36205 (256) 847-0780

#### Alternate

Robin Scott McClellan Development Authority 4975 Bains Gap Road Anniston, AL 36205 (256) 236-2011



#### 2.0 SUMMARY OF INSPECTIONS AND MAINTENANCE ACTIVITIES

In accordance with the requirements of the CA (ADEM, 2014) and the Post Closure Care Plan (GeoSyntec, 2007), inspections were conducted. The 5-year post-closure care period at Landfill 3 and the Fill Area North West of Reilly (FANWR) ended. Inspections had been performed quarterly during that period. The cover systems stabilized, and an abbreviated inspection and maintenance program was presented and approved by ADEM. Landfill cover system inspections were conducted on an annual basis.

#### 2.1 Narrative Summary of Inspections

The site was inspected on October 14, 2016 by Joseph Owens and Jason Tulley (MES). Overall, the landfill cover systems appeared to be in good, stable condition. No evidence of subsidence or erosion was observed. The vegetation across the caps for Landfill 3 and FANWR was in good condition, and no bare spots were noted. The boundary markers were in good condition. Few of the no digging signs had detached from the boundary markers and were reattached during the inspection. The access roads to Landfill 3 and FANWR were in good condition. Copies of the Inspection and Maintenance Forms are included in Attachment C1.

#### 2.2 Narrative Summary of Maintenance Activities

- Maintenance activities performed by MES at Landfill 3 and FANWR during 2016 included the
  following: MES performed maintenance on the block and gravel inlets of Landfill 3. MES used a
  mini-excavator to remove the vegetation and sediment that had accumulated since the previous
  inspections. The disturbed areas were reseeded and covered with mulch.
- The cap surfaces for Landfill 3 and FANWR and the detention basin at FANWR were mowed in October 2016.
- The detached or missing signs were replaced when maintenance was performed in October 2016.

#### 2.3 Ongoing Activities

Inspection and maintenance of cap features and erosion and sediment control measures are currently ongoing at Landfill 3 and FANWR.

#### 2.4 Unresolved 2016 Inspection and Maintenance Issues

Fill Area Northwest Reilly Airfield, Parcel 229(7)

An area of erosion was observed at the base of the centrally located rock chute. A depression was observed to hold water during the annual cap inspection. This area is scheduled for repair in January 2017.



#### 2.5 Planned Activities

The inspection and maintenance program, consisting of annual mowing with inspection of cover system conditions, will be continued. If maintenance issues are observed during the annual cap inspections, then repair activities will be performed.



#### 3.0 REFERENCES

- ADEM. 2014. In the Matter of: Anniston-Calhoun County Fort McClellan Development Joint Power Authority Facility, Cleanup Agreement No. AL4 210 020 562, Modification 4. February 13.
- GeoSyntec. 2007. Certified for Construction Documents: Final Design Report, Volume II of IV, Landfill Cover Systems, Landfill 3 and Fill Area Northwest of Reilly Airfield. February.
- GeoSyntec. 2008. Final Corrective Measures Implementation Report, Landfill Cover Systems, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7). April.
- Matrix Environmental Services (MES), 2012. 2011 Annual Closure System Report, Landfill 3, Parcel 80(6) and Fill Area Northwest of Reilly Airfield, Parcel 229(7), McClellan, Anniston, Alabama, March.
- MES, 2006. Final (Revision 1) Corrective Measures Implementation Plan Landfill 3 and the Fill Area Northwest of Reilly Airfield Parcels 80(6) and 229(7). October.



## **ATTACHMENT C1**

**On-Site Inspection and Maintenance Forms** 

Activity Type: Inspection Maintenance Incident Incident
Date of Activity: October 14, 2016
Time of Activity 10:30
On-Site Personnel:Joseph Owens and Jason Tulley-Matrix Environmental Services
Weather Conditions:Sunny, 85°F
General Comments: Currently experiencing thirty plus days of drought conditions
Summary/Action Items: N/A
Inspected by: <u>Joseph Owens and Jason Tulley</u> Date: 10/14/2016
Reviewed by: July Ones Date: 10/14/2016

LANDFILL 3
Evidence or repair of subsidence, settlement, slippage, or heaving of cap system: No evidence was observed during the inspection.
Evidence or repair of erosion, rutting, or channeling on cap system: No evidence was observed during the inspection.
Condition or repair of vegetated surfaces (bare spots, stressed, dead): The vegetation appeared to be in good condition at the time of the inspection.
Evidence of trespassing, vandalism, or damage: No evidence of trespassing, vandalism, or damage was observed during the inspection.
Evidence of overflowing, flooding, or inundation: No water on cap, experiencing drought like conditions.
Overall appearance/condition of closure (stability, erosion, inundation, trespassing): The cap was observed to be in good overall condition.
Condition or repair of Permanent Markers: <u>Boundary monuments were in good condition. Two no digging signs are missing.</u> The no digging signs were replaced during the inspection.
Additional Comments: None.

FILL AREA NORTHWEST REILLY AIRFIELD
Evidence or repair of subsidence, settlement, slippage, or heaving of cap system: No evidence of subsidence, settlement, slippage, or heaving of the cap was observed during the inspection.
Evidence or repair of erosion, rutting, or channeling on cap system: No evidence of erosion, rutting, or channeling was observed during the cap inspection.
Condition or repair of vegetated surfaces (bare spots, stressed, dead): The vegetation appeared to be healthy and in good condition at the time of the inspection.
Evidence of trespassing, vandalism, or damage: No evidence of trespassing, vandalism, or damage was observed at the time of the inspection.
Evidence of overflowing, flooding, or inundation: No evidence of overflowing, flooding, or inundation was observed during the inspection.
Overall appearance/condition of closure (stability, erosion, inundation, trespassing): The cap appeared to be in good condition at the time of the inspection. No issues or deficiencies were observed.
Condition or repair of Permanent Markers: The boundary monuments were observed to be in good condition with no damage. All signs were in place.
Additional Comments: None.

## FANWR SURFACE WATER/SEDIMENT DETENTION POND

SURFACE WATER/SEDIMENT DETENTION POND
Evidence or repair of subsidence, settlement, slippage: No evidence of subsidence, settlement, or
slippage was observed during the inspection.
suppose that the same the same the same the same that the
Evidence or repair of erosion, rutting, or channeling: An area of erosion was observed at the base of the
centrally located rock chute. A depression has been created and is holding water at the base of the
chute.
Condition or repair of vegetated surfaces (bare spots, stressed, dead): The vegetation is dormant from
drought like conditions.
Condition of surrounding vegetated surfaces (bare spots, settlement, water ponding): No bare areas or
settlement areas were observed on the surrounding vegetation. The vegetation is dormant from
drought like conditions.
Sediment accumulation or removal (cleanout markers): No sediment accumulation was observed at the
time of the inspection.
Outfall structures and emergency spillway (debris, erosion, damage): The emergency spillway and outfall
structures were observed to be in good condition and showed no signs of damage at the time of the
inspection.
Evidence of trespassing, vandalism, or damage: No evidence of trespassing, vandalism, or damage was
observed during the inspection.
Additional Comments: None.
·

ACCESS ROADS AND PARKING AREA
Evidence or repair of subsidence, settlement, or heaving: No evidence was observed during the
inspection.
nispection.
Evidence or repair of erosion, rutting, or washout: No evidence was observed during the inspection.
Condition or repair of culvert crossing and drainage features: The culvert and drainage ditch were in
good condition. No sediment accumulation was observed during the inspection.
Evidence of trespassing, vandalism, or damage: No evidence of trespassing, vandalism, or damage was
observed during the inspection.
Constitution of the state of th
Condition or repair of roads (thin gravel, potholes): The gravel was observed to be in good condition. No
potholes or low areas were observed along the road or parking areas during the inspection.
Additional Comments: None.

ON-SITE INSPECTION AND MAINTENANCE FORM McCLELLAN SITE
ANNISTON, ALABAMA
Landfill 3/FANWR Landfill Cap Inspection



LF3: The vegetation across the cap surface was in good condition at the time of the inspection. Two no digging signs were observed to be missing but replaced at the time of the inspection.



LF3: Gravel inlets are clear and free of debris.



LF3: No erosion or channeling was observed during the inspection.

ON-SITE INSPECTION AND MAINTENANCE FORM McCLELLAN SITE ANNISTON, ALABAMA Landfill 3/FANWR Landfill Cap Inspection



FANWR: The vegetation across the cap surface was in good but dormant due to drought like conditions.



FANWR: No erosion or channeling was observed during the inspection.



FANWR: Monuments are all intact with appropriate signs.