Appendix G Field Change Requests

ROBERT J. BENTLEY .
GOVERNOR



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July 15, 2014

Mr. Richard Satkin Matrix Environmental Services 283 Rucker Street Building 2165 Anniston, Alabama 36205

RE: ADEM Review and Concurrence: Field Change Request #23 to the Munitions Response Site 9 (MRS-9) Site Specific Work Plan, McClellan, Anniston, Alabama; submitted July 10, 2014
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4 210 020 562

Dear Mr. Satkin:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of the McClellan Development Authority's *Field Change Request #23 (FCR-23)*. The site-specific work plan (SSWP) originally stated that an Unexploded Ordnance (UXO) Tech III would operate the armored excavator for tree removal in the dig and sift area. FCR-23 revises this requirement to state that an experienced equipment operator under the direction of a UXO Tech III will operate the armored excavator. ADEM concurs with this FCR.

For any questions or concerns regarding this matter, please contact Ms. Julie Ange of the Remediation Engineering Section at 334-270-5646 or via email at jange@adem.state.al.us.

Sincerely,

Julie Ange

Remediation Engineering Section

Land Division

cc: Mrs. Tracy P. Strickland/ADEM Mrs. Brandi Little/ADEM Mr. Robin Scott/MDA



FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 23

LOCATION: McClellan

Date: 7/10/14

Matrix Representative: Kent Boler

- 1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)
 Requirement for a UXO Tech III operator within armored excavator for tree removal is revised to be an equipment operator under the direction of a UXO Tech III.
- 2. Reason for Change (Use continuation sheet if necessary)

A UXO Tech III is not required to operate the armored excavator used to remove trees in the dig & sift area. A heavy equipment operator is more efficient in conducting this activity (under the direction of a UXO Tech III). The trees will be moved to a staging area outside dig & sift area and inspected there by a UXO Tech III.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

MRS-9 SSWP: Appendix G

Section 2.7.1 Movement and Inspection

Trees, along with the root balls will be picked up by an experienced equipment operator in an armored excavator and shaken to remove as much soil as possible under the direction of a Contractor UXO Tech III. Trees will be then moved to a staging area outside the central impact area. At the staging area, a Contractor UXO Tech III will conduct a 100% instrument-aided visual inspection of the tree and root balls for MPPEH. The Contractor will use handheld locators approved for one-foot clearance. Trees that have MPPEH will be clearly marked so they are obvious from those that do not have MPPEH. The MES demolition team will conduct disposal operations in the event that MPPEH is encountered. The vegetation will then be moved into a 60 foot by 40 foot by 8 foot fire trench in Tract 9-B (outside the central impact area) where a pit burner will be utilized to burn the vegetation.

Preparer of FCR (Print name and sign) Kent Boler ### Below	Preparer's Title Task Manger	Date 7/10/14
UXOQCS - Reviewed (Print name and sign) Jason Soth	Accepted (Y/N) Yes UXOQCS	Date 7/10/14
Operations Manager- Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
N/A Matrix PM - Reviewed (Print name and sign) Kent Boler	Site Operations Manager Accepted (Y/N) Yes Task Manager	Date 7/10/14
ADEM - Reviewed (Print name and sign) Juli L. Ange (mi Au	Accepted (Y/N) Yes Project Manager	Date 7/15/14



Alabama Department of Environmental Management adem.alabama.gov

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March 12, 2014

Mr. Richard Satkin Matrix Environmental Services 283 Rucker Street Building 2165 Anniston, Alabama 36205

RE: ADEM Review and Concurrence: Field Change Request #22 to the Munitions Response Site 9 (MRS-9) Site Specific Work Plan, McClellan, Anniston, Alabama; submitted March 7, 2014
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4 210 020 562

Dear Mr. Satkin:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of the McClellan Development Authority's *Field Change Request #22 (FCR-22)*. FCR-22 revises the Units of Production (UoPs) in tract 9B in preparation for mechanized sifting clearance operations in the central impact area. The 33 grids comprising the central impact area will each constitute a UoP and the 24 grids immediately bordering the central impact area have been regrouped into smaller UoPs. ADEM concurs with this FCR.

For any questions or concerns regarding this matter, please contact Ms. Julie Ange of the Remediation Engineering Section at 334-270-5646 or via email at jange@adem.state.al.us.

Sincerely,

Julie Ange

Remediation Engineering Section

Land Division

cc: Mrs. Tracy P. Strickland/ADEM Mrs. Brandi Little/ADEM

Mr. Robin Scott/MDA

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 21	Date: 3/7/14	
LOCATION: McClellan	Matrix Representative: Kent Boler	

1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary) MRS-9, tract 9B Units of Production (UoPs) in the MRS-9 Site Specific Work Plan (SSWP) are revised in preparation for mechanized sifting clearance of the central impact area. Figure 10-1 (MRS-9 UoPs) and Section 10.7.2 of the SSWP are revised.

A stand-alone appendix (new Appendix G) to the SSWP addressing the proposed mechanized sifting operation will be submitted to ADEM under separate cover. For the 33 grids comprising the central impact area, QC for the MEC clearance operation will be performed essentially on a grid by grid basis (each grid will be its own UoP) instead of grouping them into multi-grid UoPs. The 24 grids immediately bordering the central impact area have been regrouped into smaller UoPs.

2. Reason for Change (Use continuation sheet if necessary)
For the central impact area in MRS-9 tract 9B (former Range 16) which is densely contaminated with MEC and MD, the

For the central impact area in MRS-9 tract 9B (former Range 16) which is densely contaminated with MEC and MD, the clearance to one foot remediation will be more efficiently addressed via a mechanized sifting operation.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

MRS-9 SSWP:

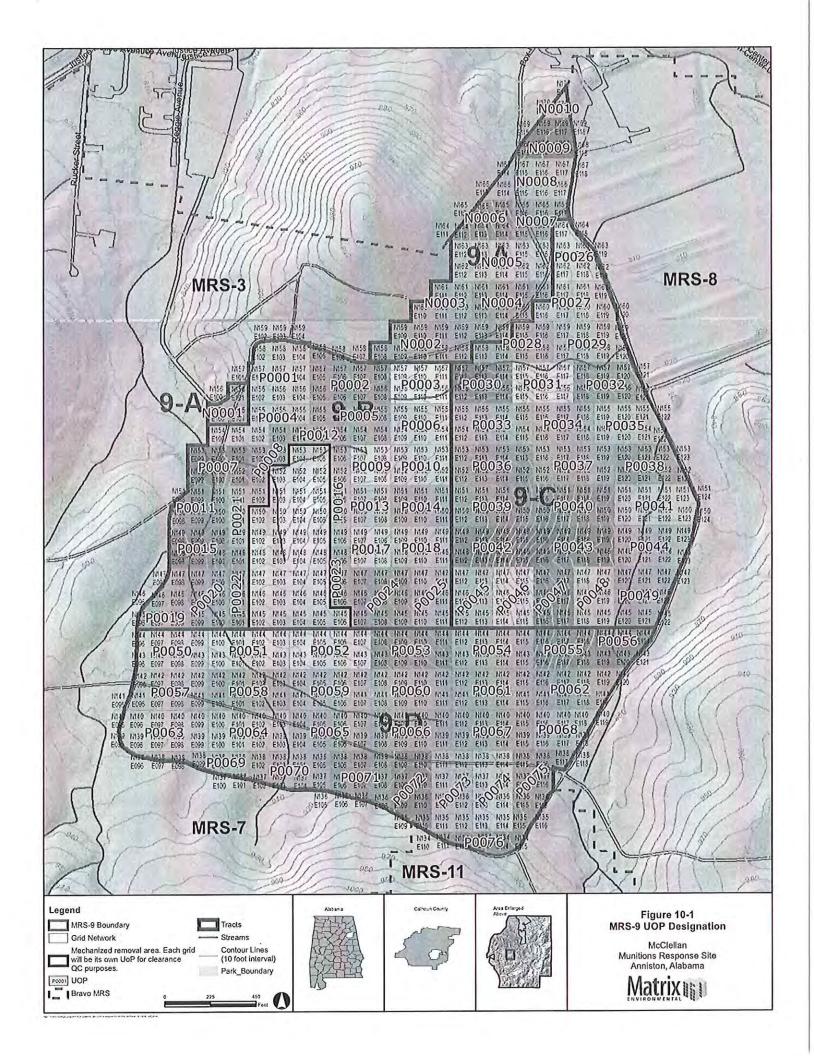
Appendix A (Figures) - Figure 10-1 MRS-9 UoP Designation (attached)

Section 10.7.2 Units of Production.

A UoP is a contiguous number of grids that are grouped together into a manageable unit that can then be tested by the QC process. The size of a UoP will be variable and may depend on a variety of factors such as the number of targets in the area (target density), end land use, environmental characteristics including topography, vegetation, noise, personnel, detection instrument used, area investigated by which UXO team(s), etc. It is preferable for QC that, where practical, distinct teams should be associated with each UoP. It is anticipated that a UoP will consist of one to ten-grids that are 100 ft x 100 ft in size (except for partial grids).

The UoPs will initially be grouped together based on their location to one another with the overriding factor being their end land use. However, this initial grouping may be modified as other factors described above and the number of targets in each grid (and surrounding grids) may override the initial "best guess" as to how to group the grids together. Therefore, final UoP grouping will be done by the Project Manager and GeoQCS only after the end land use and the number of targets in the entire area is known. Thirty three (33) grids in tract 9B have been determined to constitute a heavily contaminated impact area which will be more efficiently prosecuted by a mechanized sifting operation which will be described in a stand-alone Appendix G (to be submitted under separate cover). Each of the 33 grids in the central impact area will be considered its own UoP for clearance QC purposes. The revised UoPs for MRS-9 are shown in Figure 10-1 (Appendix A). Changes to the initial UoPs and their rationale will be documented in Removal Action Report.

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Preparer of FCR (Print name and sign) Kent Boler ### Below	Preparer's Title Task Manger	Date 3/06/14
UXOQCS - Reviewed (Print name and sign) Henry Wallace H. E. Wallace	Accepted (Y/N) Yes	Date
Henry Wallace Ob. G. Wallace	UXOQCS	3/07/14
Operations Manager- Reviewed (Print name and sign) Jason Soth	Accepted (Y/N) Yes Site Operations Manager	3/07/14
Matrix PM - Reviewed (Print name and sign) Kent Boler	Accepted (Y/N) Yes Task Manager	Date 3/7/14
ADEM - Reviewed (Print name) and sign)	Accepted (Y/N) Yes Project Manager	Date 3/17/14



Alabama Department of Environmental Management adem.alabama.gov

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September 9, 2014

Mr. Richard Satkin Matrix Environmental Services 283 Rucker Street Building 2165 Anniston, Alabama 36205

RE: ADEM Review and Concurrence: Field Change Requests #24 and 25 to the Munitions Response Site 9 (MRS-9) Site Specific Work Plan, McClellan, Anniston, Alabama; submitted August 7, 2014
Fort McClellan, Calhoun County, Alabama
Facility I.D. No. AL4 210 020 562

Dear Mr. Satkin:

The Alabama Department of Environmental Management (ADEM or the Department) has completed its review of the McClellan Development Authority's *Field Change Requests #24 and 25 (FCR-24 and FCR-25)*. FCR-24 raises the inspection rate for the impact crusher fines from 10% to 100%. During initial operations, some of the zinc bases from 20mm grenades (practice) were not crushed below the 30mm failure criteria in the impact crusher. Because they are non-ferrous, they were not removed by the over-band magnet either. Complete inspection of the fines will ensure that all items meeting the failure criteria will be removed and not returned to the clean area as backfill. FCR-25 revises the requirement to recover 100% of all blind seeds. The heavy equipment used to conduct the mechanized removal can potentially push the seeds down below one foot, move them from their original location, and/or leave them staged/stockpiled at a different location prior to being processed. Therefore, any blind grid seeds not turned in at the end of the job will be investigated and assessed as potential red flag criteria items and to ensure that all blind grid seeds have been removed from within 1 foot of the original ground surface. ADEM concurs with these FCRs.

For any questions or concerns regarding this matter, please contact Ms. Julie Ange of the Remediation Engineering Section at 334-270-5646 or via email at jange@adem.state.al.us.

Sincerely,

Julie Ange

Remediation Engineering Section

Land Division

cc: Mrs. Tracy P. Strickland/ADEM

Mrs. Brandi Little/ADEM

Decatur Branch

2715 Sandlin Road, S. W. Decatur, AL 35603-1333 (256) 353-1713 (256) 340-9359 (FAX)



Mobile Branch

Mr. Robin Scott/MDA

(251) 432-6598 (FAX)

(205) 941-1603 (FAX)

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 24	Date: 8/7/14
LOCATION: McClellan	Matrix Representative: Kent Boler

1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)
During initial sifting operations some of the solid zinc bases from the 40mm Grenade (practice) were not being fully crushed below 30mm in size in the impact crusher. The over-band magnet does not separate these out due to the lack of ferrous metal content. Other munitions-related material is being crushed below 30mm as intended. This FCR changes the inspection criteria of the crusher fines material from 10% to 100% in Appendix G (Mechanized Removal) of the MRS-9 work plan.

To increase efficiency, trees and roots may be inspected for imbedded MPPEH in the mechanical processing area or the in the MPPEH inspection area as determined by the SUXOS and UXOSO.

2. Reason for Change (Use continuation sheet if necessary)

Section 4.1 Training, Equipment and Process: the seventh paragraph states: "Material exiting the impact crusher will undergo a 10% inspection by the Contractor to verify the size of material is less than 30mm, as the failure criteria is a 37mm projectile. This material will be returned to the site and used as back-fill in site restoration. Any materials that cannot be screened to less than 30mm or 1.18 inches in diameter will be sent to the MPPEH inspection area for 100% manual inspection."

Changing to a 100% inspection will ensure that items meeting the failure criteria of a 37mm or larger will not be missed and as a result be returned to the clean area as backfill.

Section 4.1 Training, Equipment and Process: the fifth paragraph states "Material larger than 8 inches will be transported to the MPPEH inspection area by an armored front-end loader for 100% inspection."

To increase efficiency, trees may be inspected for imbedded MPPEH in the mechanical processing area or the MPPEH inspection area.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

MRS-9 Appendix G: Section 4.1 Training, Equipment and Process:

Seventh paragraph. Material exiting the impact crusher will undergo a **100%** inspection by the Contractor to verify the size of material is less than 30mm, as the failure criteria is a 37mm projectile. This material will be returned to the site and used as back-fill in site restoration.

Fifth Paragraph. Material larger than 8 inches will undergo a 100% inspection in the mechanical process area or MPPEH inspection area.

Wit i Lit inspection area.		·
Preparer of FCR (Print name and sign)	Preparer's Title	Date
Jason Soth	UXOQCS	8/7/14
UXOQCS - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Jason Soth	UXOQCS	8/7/14
Operations Manager- Reviewed (Print name	Accepted (Y/N) Yes	Date
and sign)		
Jason Soth	Site Operations Manager	8/7/14
Matrix PM - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Kent Boler FM Boler	Task Manager	8/7/14
ADEM - Reviewed (Print name and sign)	Accepted (Y/N)	Date
Julie Ange Quin Age	Project Manager	9/9/14

FIELD CHANGE REQUEST (FCR) FORM McClellan: Revision 1 to Final Program Level Work Plan

FCR #: 25	Date: 8/22/14
LOCATION: McClellan	Matrix Representative: Kent Boler

1. Description (Items involved, submit sketch, if applicable): (Use continuation sheet if necessary)
The approved QC criteria for blind seeds in Appendix G of the MRS-9 Work Plan Addendum is 100% recovery of all blind seeds. Because of the nature of this operation, missing a blind seed is a red flag criteria, but not necessarily a deficiency.

2. Reason for Change (Use continuation sheet if necessary)

Due to the nature of mechanized removal to 1 foot, blind seeds emplaced in the clearance grids will be moved from their original position along with adjacent soils by heavy equipment. During this process, it is possible for these seeds to be pushed down below one foot by the heavy equipment, moved some distance from their original location, and/or staged/stockpiled at a different position for an indeterminate amount of time before being processed (potentially after the grid has been QA/QC inspected). As a result of discussions with ADEM during the site visit of 12 August 2014, it was decided to clarify the Work Plan text regarding the implications of blind grid seeds vs process line seeds.

3. Recommended Disposition (Submit sketch, if applicable): (Use continuation sheet if necessary)

MRS-9 Appendix G,

Section 8.1

Change "The QC criteria is to recover 100% of the blind seeds." to "The QC criteria is to recover 100% of seeds placed in the process line and verify all blind seeds planted in the grids have been removed from their original locations. Any blind grid seeds not turned at the end of the job will be investigated and assessed as potential red flag criteria items."

Table G-2, Intrusive Investigation, 1-Foot Dig and Sift

Revise QC Action from "Verify 100% blind seed items have been recovered and turned in" to read "Verify 100% of process line seed items have been recovered and turned in and all blind grid seeds have been removed from their placed locations within 1 foot of the original ground surface."

Preparer of FCR (Print name and sign)	Preparer's Title	Date
Kent Boler FM Blow	UXOQCS	8/18/14
UXOQCS - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Jason Soth	UXOQCS	8/18/14
Operations Manager- Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Jason Soth	Site Operations Manager	8/21/14
Matrix PM - Reviewed (Print name and sign)	Accepted (Y/N) Yes	Date
Kent Boler FM Blor	Task Manager	8/22/14
ADEM - Reviewed (Print name and sign)	Accepted (Y/N)	Date
Julie Ange him An	Project Managen	9/9/14