

## **Appendix B-3**

### **Quality Assurance Documentation**

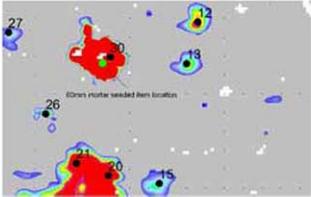
- B-3a**      **Correspondence**
- B-3b**      **Corps of Engineers Huntsville Center  
(CEHNC); Quality Assurance (QA)  
Form 948s**
- B-3c**      **Seed Item Photos**

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## **Appendix B-3a**

### **Correspondence**

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<b>CORRECTIVE ACTION REQUEST   NO. :CEHNC-ED-CS-G-FY04_0002</b>	
<b>Originator:</b> Bob Selfridge	<b>Date Issued:</b> 31 October 2003
<b>Issued to:</b> Art Holcomb of Foster Wheeler Environmental /Tetra Tech <b>Project:</b> Ft. McClellan Removal Action "Y" Junction Bypass – 40 acre additional area <b>CEHNC Project Manager:</b> Dan Copeland <b>CEHNC Project Engineer:</b> Alonzo Andrews <b>Response Due:</b> 7 November 2003	
<b>Description of Condition Found: (As observed or reported)</b>	
Government Blind seed items were <b>not</b> removed during the Removal Action. <b>Failure FY04_0002</b> - 60 mm mortar buried at 1.0 foot deep in grid 67.	
(Appropriate personnel, i.e. contractor PM, Safety Officer, Team Leader, etc., receiving the CAR will provide the following information to the originator by the "Response Due" date above. Please contact the originator if you have any questions)	
<b>Actual Cause:</b> The 60 mm mortar in this grid was located just over 1 ft off of anomaly #30. Anomaly #30 was a Rommel stake sticking out of the ground. The photo at the bottom of this CEHNC report shows the distance between the Rommel stake and the item. The area of concern where this item was located was heavily contaminated with ferrous material and hot rocks. During the QA process to locate this item, it required over 3 man hours of searching (combined time between the USACE Safety Reps (2) and FWENC personnel (1)) to locate the item. During the removal action the Rommel stake was removed and was heavily deteriorated and broke into numerous small rusty pieces, this along with the ferrous geology in the immediate area were key factors in the length of time required to reacquire the seed item.	
<b>Action Taken to Correct Condition:</b> A thorough examination of the procedures resulting in the above mentioned condition was performed. The first course of action was to determine whether or not the geophysical sensors detected the item. The site geophysicist interpreting the geophysical data feels that the seeded item was detected, however the items proximity to the highly ferrous Rommel stake and presence of large amounts of ferrous material caused the anomalies to merge into one subsurface disturbance. The interpreting geophysicist selected the entire disturbance as a single anomaly.	
The source of the condition was determined.	
 <p style="text-align: center;"><b>Anomaly #30 grid 67</b></p>	
The geophysicist went through the Task Order data looking for similar anomalies. These were then looked at by the geophysicist and the UXOQC to determine if additional work needed to be done in those locations. No anomalies were found that needed further investigation.	
<b>Action Taken to Prevent Recurrence:</b> Intrusive teams have been instructed to verify that a 3-foot radius about the selected location has been cleared. Regardless if a large metallic surface item is present. In	

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addition, interpreting geophysicist has been instructed to select more the one target location on large subsurface anomalies. This will encourage the intrusive teams to continue their investigation until the anomaly (or anomalies) has been uncovered.

Action Taken to Monitor Effectiveness of Corrective Action: TTFWI internal quality control personnel will work closely with the intrusive teams to verify that the preventive recurrence actions are being applied.

Team Manager Signature/Title/Date Signed: (Form must be signed before returning)

(Government Use Only)

Review of Corrective Action:

- 1) Has condition improved? \_\_\_ Yes \_\_\_ No
- 2) Additional corrective action required? \_\_\_ Yes \_\_\_ No

Comments:

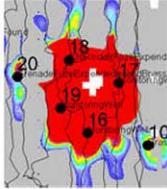


Item	Item ID	Depth	Dec	Inc	Grid	SW	SE	NE	NW
60mm	H	1'	E-W	H	67	57'	80'8"	85'10"	64'3"

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<b>Originator:</b> Bob Selfridge					<b>Date Issued:</b> 31 October 2003			
<b>Issued to:</b> <u>Art Holcomb of Foster Wheeler Environmental /Tetra Tech</u>								
<b>Project:</b> <u>Ft. McClellan Removal Action "Y" Junction Bypass – 40 acre additional area</u>								
<b>CEHNC Project Manager:</b> <u>Dan Copeland</u>								
<b>CEHNC Project Engineer:</b> <u>Alonzo Andrews</u>								
<b>Response Due:</b> <u>7 November 2003</u>								
<b>Description of Condition Found: (As observed or reported)</b>								
Government Blind seed items were <b>not</b> removed during the Removal Action. <b><u>Failure FY04 0001</u></b> - 3" stokes buried 6 inches deep in grid 123.								
(Appropriate personnel, i.e. contractor PM, Safety Officer, Team Leader, etc., receiving the CAR will provide the following information to the originator by the "Response Due" date above. Please contact the originator if you have any questions)								
<b>Actual Cause:</b> The 3" stoke was seeded in close proximity to a monitoring well. The geophysics was able to detect the item, however, the handheld metal detectors used by the intrusive teams for pinpointing the location of a buried item was heavily influenced by the ferrous well components. The item was classified as a "monitoring well".								
Another contributing factor to the failure to recover the seeded item was the fact that the immediate area around a well location is "cleared" prior to well installation. For this reason after consultation between the intrusive teams and the site geophysicist, it was decided that an intrusive investigation of the anomaly in question was not warranted. It is required that monitoring wells be placed in areas that have been swept by UXO personnel prior to the well being placed.								
<b>Action Taken to Correct Condition:</b> The first course of action was to determine whether or not the geophysical sensors detected the item. The EM61 MKII detected the item. Secondly was the item selected as a "dig". The item was selected. The mortar seeded in grid 123 was item #19. It was reported as "monitoring well" but if a comparison is made between the excerpt from the dig sheet (table 1 below), you can see that the xy coordinate is x-663223.3 y-1165921.8. If you look at the location of the seeded item on the bottom of this CEHNC report, you will see that this is the same coordinate.								
The source of the condition was determined.								
<b>Table 1</b>								
TargetID	x	y	EstDepthF T	EstSizeCM	C1	C2	C1C2Ratio	Priority
19	663223.3	1165921.8	0.37	25.99	3045.07	3097.69	0.98	dig

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<b>CORRECTIVE ACTION REQUEST   NO. :CEHNC-ED-CS-G-FY04_0001</b>	
	<p><b>Anomaly #19 grid 123</b></p>
<p><b>Action Taken to Prevent Recurrence:</b> The corrective action taken was and will be to thoroughly examine anomalies selected in the vicinity of cultural features such as wells. Intrusive teams will be instructed to investigate anomalies to the subscribed depth of 4 feet or until the hole is "cleared". The Geophysicist went back through the TO-19 data and re-looked at all data around the well heads in the area. These included:</p> <p>Grids: 003, 035, 043, 123, 175, 192, 301</p> <p>The intrusive data was compared to what the geophysicist felt should have been there and all seven well locations were acceptable.</p>	
<p><b>Action Taken to Monitor Effectiveness of Corrective Action:</b> TTFWI geophysicist will perform a complete evaluation of intrusive results for subsequent intrusive investigations in the immediate area around cultural features. Additional, TTFWI quality control personnel will verify field procedures as described under <i>Action Taken to Prevent Recurrence</i>.</p>	
<p><b>Team Manager Signature/Title/Date Signed:</b> (Form must be signed before returning)</p>	
<p>(Government Use Only)</p> <p>Review of Corrective Action:</p> <p>1) Has condition improved? ___ Yes ___ No</p> <p>2) Additional corrective action required? ___ Yes ___ No</p> <p>Comments:</p>	

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<b>CORRECTIVE ACTION REQUEST   NO. :CEHNC-ED-CS-G-FY04_0001</b>												
												
Item	Item ID	Depth	De	In	Distance From				X	Y		
		6"			Grid stake	Distanc e	Grid stake	Distanc e	Grid stake	Distanc e		
3" Stokes	F	(Next to Monitoring Well)	E-W	H	123	31'1"	122	79'7"	143	143'5"	663223	1165921

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