

REPORT OF ENVIRONMENTAL SECURITY TECHNOLOGY CERTIFICATION PROGRAM (ESTCP) UXO DISCRIMINATION STUDY SUPPORT ACTIVITIES

Former Camp Sibert
Etowah and St. Clair Counties, Alabama

prepared for:

U.S. ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE



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TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	OBJECTIVE AND SCOPE OF WORK.....	2
3.0	GEOPHYSICAL PROVE OUT GRID INSTALLATION	3
4.0	SITE CHARACTERIZATION AREA INVESTIGATION	5
5.0	SEEDING.....	5
6.0	GEOPHYSICAL SURVEY	6
7.0	MAG-N-FLAG.....	6
8.0	INTRUSIVE INVESTIGATIONS	7
8.1	SINGLE POINT ANOMALIES.....	7
8.1.1	<i>Intrusive Investigation Results</i>	<i>8</i>
8.2	CLUSTER ANOMALIES	10
8.2.1	<i>Intrusive Investigation Results</i>	<i>11</i>
9.0	FREE AIR MAGNETIC MEASUREMENTS.....	11

Appendices

Appendix A – GPO Photographs

Appendix B – Seeding Photographs

Appendix C – EM61-MK2 Data Collection and Analysis at Camp Sibert

Appendix D - Intrusive Investigation Photographs

Appendix E – Munitions and Cultural Debris Disposition Documentation

Figures

Figure 1.1 – Site 18 Location

Figure 1.2 – Site 18 Site Map

Figure 3.1 – Results of GPO Intrusive Investigations

Figure 3.2 – GPO Final Geophysical Survey

Figure 3.3 – GPO Items

Figure 4.1 - Results of 100' x 100' Grid Intrusive Investigations

Figure 5.1 - Locations of Seed Items

Figure 8.1 - Results of Intrusive Investigations

Tables

Table 3.1 – Items Cleared from GPO

Table 3.2 – Summary of GPO Placement

Table 4.1 - Summary of 100' x 100' Grid Investigation

Table 5.1 - Summary of Seed Item Placement

Table 7.1 –Mag-N-Flag Anomalies

Table 8.1 – Single Point Anomaly Results

Table 8.2 – Cluster Anomaly Results

1.0 INTRODUCTION

As part of their ongoing efforts to evaluate and advance geophysical discrimination technologies for use at Unexploded Ordnance (UXO) sites, the Environmental Security Technology Certification Program (ESTCP) selected portions of Site 18 at the former Camp Sibert as the site for a UXO discrimination study. Camp Sibert is located near Attalla, Alabama and was utilized as a unit and individual replacements training facility from late 1942 to early 1945. The government terminated the leases for the area on December 13, 1946. After decontamination of various ranges and toxic areas in 1948, the land was declared excess and transferred to private and local government ownership.

Site 18 is located within Range 28, the 4.2-inch Mortar Range, in the southwest portion of the former Camp Sibert property and encompasses approximately 330 acres (Figure 1.1). Concurrent with the ESTCP discrimination study, an Engineering Evaluation and Cost Analysis (EE/CA) investigation under the Formerly Used Defense Site (FUDS) program was also completed by Parsons at the site. Based on the data collected as part of these investigations as well as previous investigations, Site 18 was used for experimental training on attacking simulated pillbox fortifications with 4.2-inch mortars. To date, two intact 4.2-inch mortars have been found at Site 18. Also a local resident recently contacted USAESCH personnel explaining that he had two intact 4.2-inch mortar rounds at his residence that were reportedly found while plowing a field at Site 18. As will be discussed further in subsequent sections of this report, munitions debris associated with the 4.2-inch mortars has been found over a large portion of Site 18. The apparent use of a single munition type (i.e. the 4.2-inch mortars) at Site 18 was one of the primary reasons the site was selected for the UXO discrimination study as it would simplify the discrimination process.

Known fillers in the 4.2-inch mortars used at Site 18 include Sulfur Trioxide (FS) smoke and White Phosphorus (WP). In addition to the known fillers, it is anticipated that High Explosive (HE) and possibly other conventional fillers, such as tear gas, were used at the site.

The following bullets present a chronological listing of the significant activities conducted at Site 18 as part of the discrimination study. Additional details relative to Parsons' role in each of these activities will be presented in subsequent sections of this report.

- Nova Research completed a magnetometer survey over approximately 50 acres of Site 18 using the Naval Research Laboratory (NRL) Multi-Sensor Towed Array Detection System (MTADS).
- Based on the results of the MTADS magnetometer survey, ESTCP personnel selected the areas of the discrimination study. These included three study areas encompassing approximately 16 acres (Southwest Area, Southeast Area #1 and Southeast Area #2), a Geophysical Prove Out (GPO) grid and a Site

Characterization Area. The approximate locations of each of these areas are shown on Figure 1.2.

- Parsons personnel with USAESCH oversight installed the Geophysical Prove Out (GPO) grid at the location designated by ESTCP.
- Anomalies within the Site Characterization Area were selected from the MTADS magnetometer data by ESTCP personnel. These anomalies were then intrusively investigated by the Parsons UXO team.
- Parsons personnel with USAESCH oversight emplaced 150 inert 4.2-inch mortars as seed items within the three study areas at locations, depths and orientations provided by ESTCP.
- Geophysical surveys were performed within the three study areas by the various demonstrators involved in the discrimination study.
 - Parsons performed an EM61-MK2 single unit man-portable survey of all three study areas.
 - Nova Research performed EM61-MK2 towed array and GEMTADS towed array surveys of all three study areas.
 - Naeva Geophysics performed GEM3 surveys over select cued targets.
 - Berkley Laboratories performed surveys of select cued targets and a 4 to 5 acre area using their Berkley UXO Detector (BUD).
 - Sky Research performed surveys of select cued targets using an EM63.
- ESTCP then selected anomalies within the three study areas based on the geophysical surveys performed by the various demonstrators. These anomalies were then intrusively investigated by Parsons UXO team.
- Following completion of the intrusive investigations, Sky Research performed free air magnetic measurements of the seed items and larger pieces of cultural debris and munitions debris recovered during the intrusive investigation.

2.0 OBJECTIVE AND SCOPE OF WORK

Relative to Parsons' efforts in support of the discrimination study, our primary objectives were three fold.

1. Provide support services for ESTCP personnel and their demonstrators.
2. Provide a qualified UXO team for seeding and intrusive investigations.
3. Act as one of the demonstrators for the discrimination study performing geophysical surveys and data analysis.

In meeting these objectives, the following scope of work was completed by Parsons personnel.

- Installation of the discrimination study GPO grid (Section 3.0).
- Intrusive investigation of anomalies within the Site Characterization Area (Section 4.0).
- Emplacement of 150 inert 4.2-inch mortars as seed items within the three study areas (Section 5.0).
- Completion of an EM61-MK2 electromagnetic (EM) sensor survey over the three study areas with data evaluation (Section 6.0).
- Completion of a Mag-n-Flag investigation of a 100-foot by 100-foot grid within Southeast Area #1 (Section 7.0).
- Intrusive investigation of both single point and cluster anomalies within the three study areas (Section 8.0).
- Provided assistance with free air magnetic measurements of items recovered during the intrusive investigations and the subsequent transfer of these items to the NRL (Section 9.0).

The following sections present additional details of the work completed for each of the above tasks as well as the data collected and investigation results.

3.0 GEOPHYSICAL PROVE OUT GRID INSTALLATION

Based on the MTADS magnetometer survey completed by Nova Research, ESTCP selected the location of the GPO grid near the southwest corner of the Southwest Area study area (Figure 1.2). In preparation for seeding of the GPO grid, the GPO grid and adjacent area were first cleared of anomalies associated with metallic objects. From the MTADS data, 129 magnetic anomalies (S18-GPO-001 through S18-GPO-129) were identified by ESTCP within the GPO grid. These anomalies were intrusively investigated on March 14, 2007 by Parsons UXO team. The results of the intrusive investigation of these anomalies are shown on Table 3.1 and presented on Figure 3.1.

Following the initial intrusive work, the GPO grid was digitally mapped by Parsons using an EM61-MK2 unit on March 20, 2007. As a result of this survey, an additional 27 anomalies (S18-EM-01 through S18-EM-27) were selected for investigation. These anomalies were investigated on March 26, 2007. The results of these investigations are also presented on Table 3.1. A final background survey using the EM61-MK2 unit was conducted on March 26, 2007 by Parsons personnel to confirm that the GPO was free of foreign debris. A figure showing the final geophysical data for the GPO is shown on Figure 3.2.

The locations, depths and orientations of the seed items were provided to Parsons by ESTCP. The seed items were emplaced in the GPO grid by Parsons personnel with USAESCH oversight on March 27 and March 28, 2007. A total of 30 inert 4.2-inch mortars and 8 half-shells from 4.2-inch mortars were buried at predetermined locations and depths. The locations and emplacement information for the seed items is listed on Table 3.2 and displayed in Figure 3.3. Photos of the GPO seed items are included electronically in Appendix A on the enclosed CD. The following bullets summarize the seeding procedure employed for each item.

- A Real Time Kinematic (RTK) base station and rover unit were used to navigate the seeding team to the appropriate seed location based on the Global Positioning System (GPS) coordinates provided by ESTCP. The UXO emplacement team was given information on depth, dip and azimuth for each seed item and excavated the area based on those parameters.
- The seed item was then placed in the excavation and the depth was confirmed using a meter stick measuring to the center point of the item, the dip was measured with a digital angle level or 45 degree triangle with level, the azimuth was measured with a compass using the nose of the 4.2 inch mortar round as the point.
- Once the seed item was emplaced in the hole, Parsons QC and USAESCH representatives double checked all the emplacement parameters and took a photo of the seed item in the hole with a scale and emplacement information on a dry erase board.
- Before the hole was covered up licensed land surveyors recorded the positional location for the nose, center and tail of each seed item in the hole along with a surface elevation measurement to calculate the depth.
- The item was then covered with soil and the area re-graded to disguise the location as best as possible.

It should be noted that the original GPO seeding plan called for 10 half shells to be installed in the GPO. However, at the time the seeding was performed only 8 half shells were available. Therefore, half shells HR-9 and HR-10 were not seeded in the GPO.

With the exception of the items discussed below, the GPO seed items were left in-place following completion of the ESTCP discrimination study for future use on Camp Sibert projects. As shown on Table 3.2, three items were subsequently removed from the GPO at the direction of ESTCP. Items HR-6 was removed from the GPO as it was suspected as being an unknown anomaly. Items 42-030 and 42-031 were removed from the GPO to confirm the exact depth at which the items were emplaced.

4.0 SITE CHARACTERIZATION AREA INVESTIGATION

As part of the discrimination study, anomalies were selected and intrusively investigated within the Site Characterization Area (Figure 1.2) to gather general characterization data (i.e. munitions debris density and type) in support of the ESTCP discrimination study. The location of the Site Characterization Area and anomalies to be investigated were provided to Parsons by ESTCP based on their review of the MTADS magnetometer data collected by Nova Research.

Between April 17 and April 19, 2007, 302 anomalies were intrusively investigated within the Site Characterization Area. The results of the intrusive investigations are presented on Table 4.1 and shown on Figure 4.1. As shown on Table 4.1, the intrusive investigation of the Site Characterization Area resulted in the following numbers of items being identified.

- 3 - Cultural Debris
- 135 - Munitions Debris
- 63 - Hot Rock/Soil
- 100 - No Contacts
- 1 - 4.2-inch Mortar (FS Smoke)

It should be noted that the intact 4.2-inch mortar was packaged, transported and stored in the Camp Sibert Interim Holding Facility (IFH) by the Technical Escort Unit (TEU) in accordance with USAESCH procedures.

5.0 SEEDING

As part of the ESTCP discrimination study, Parsons personnel with USAESCH oversight seeded 150 inert 4.2-inch mortars within the three study areas between April 2, 2007 and April 4, 2007. The locations, depths and orientations of the seed items were provided to Parsons by ESTCP. The procedure for seeding of the items was the same as utilized in emplacement of the items in the GPO grid as discussed in Section 3.0.

The approximate seed locations are shown on Figure 5.1. The original coordinates provided by ESTCP, the coordinates collected by land surveyors at the time of seed placement and the coordinates collected by Parsons at the time the seeds were intrusively investigated are shown on Table 5.1. Table 5.1 also shows the inclination, depth to center and azimuth of the seed items as supplied by ESTCP. Photographs of the seed items are included electronically in Appendix B on the enclosed CD.

A review of the three sets of coordinates on Table 5.1 confirms that all the seed items were placed in the appropriate locations with the exception of Seed No 42-165. Seed

No. 42-165 was moved during the seeding operation by USAESCH personnel to avoid an area being cultivated by the property owner.

6.0 GEOPHYSICAL SURVEY

Parsons scope of work for the project also included EM61-MK2 data collection and analysis over the three study areas. The results of the geophysical investigation were presented in Parsons Report “*EM61-MK2 Data Collection and Analysis at Camp Sibert*”, dated June 2007. This report is included electronically in Appendix C on the enclosed CD and is summarized below.

As one of the demonstrators for the discrimination study, Parsons performed a geophysical survey over the three study areas using an EM61-MK2 electromagnetic sensor with a RTK GPS sensor along transect lines separated by 0.5 m. Geophysical data collection was started on April 12, 2007 and completed on May 10, 2007. Approximately 16 acres of data were collected during this period. Parsons data processors completed the analysis on May 27, 2007. Data processors analyzed the results and selected anomalies to meet the project objective of finding intact 4.2-inch mortars. The final dig list provided to ESTCP included a total of 951 anomalies. Anomaly selections were then prioritized into the four groups listed below.

- Priority 1: Large items (237 anomalies),
- Priority 2: Medium-sized items (165 anomalies),
- Priority 3: Small items (310 anomalies), and
- Priority 4: Low fit coherence anomalies (239 anomalies).

7.0 MAG-N-FLAG

As part of the ESTCP Discrimination Study, Parsons was asked perform a Mag-n-Flag operation over a 100' by 100' grid near the center of Southeast Area #1 (Figure 1.2). The primary purpose of this operation was to collect data for comparison of a Mag-n-Flag operation versus discrimination of anomalies using geophysical equipment. The Mag-n-Flag operation was completed on June 4, 2007 over a period of approximately 5 hours utilizing the procedure discussed below.

During the Mag-n-Flag operation, the area was gridded off using 100-foot measuring tapes place on the ground. Using the measuring tapes as guides the UXO team members traversed the area in 5-foot wide transects with Schonstedt metal detectors. As anomalies were identified, the items were flagged using pin flags and the GPS coordinates documented on the dig sheet. The anomalies were then intrusively investigated. The results of the investigations were then documented on the dig sheets.

As part of the Mag-n-Flag operation, 50 anomalies were identified and intrusively investigated. Twenty of the anomalies corresponded to anomalies selected for intrusive investigation based on geophysical investigations performed by the ESTCP demonstrators. The remaining thirty anomalies (anomaly IDs 1086 through 1115) were new anomalies identified by the Mag-n-Flag operation only. The following bullets summarize the items found in anomalies 1086 through 1115.

- 3 - Cultural Debris
- 22 - Munitions Debris
- 4 - Hot Rock/Soil
- 1 - No Contacts

Table 7.1 presents the correlation between the Mag-n-Flag anomaly numbers and the ESTCP anomaly numbers. The results of the intrusive investigation will be further discussed in Section 8.0 and presented on Table 8.1.

8.0 INTRUSIVE INVESTIGATIONS

Based on the geophysical surveys conducted at the site by the various demonstrators, ESTCP provided Parsons with 1,359 single point anomalies and 41 anomaly clusters for intrusive investigation. An additional 30 anomalies were intrusively investigated as part of the Mag-n-Flag operation discussed in Section 7.0 above. The following bullets summarize the origins of each of the anomalies.

- Anomalies 1-1085: Single point anomalies identified from demonstrators geophysical data
- Anomalies 1086-1115: Single point anomalies identified from Parsons Mag-n-Flag operations only
- Anomalies 1116-1343: Single point anomalies identified from demonstrators geophysical data
- Anomalies 1344-1384: Cluster anomalies identified from demonstrators geophysical data
- Anomalies 1385-1430: Single point anomalies identified from demonstrators geophysical data

8.1 Single Point Anomalies

The intrusive investigation of single point anomalies for the ESTCP discrimination study was completed between May 29 and August 1, 2007. The following bullets summarize the field procedures utilized during the intrusive investigation of anomalies during the ESTCP support activities.

- At the start of each day, the anomaly numbers to be investigated were electronically stored in the UXO team's Personnel Data Assistant (PDA). The anomaly GPS information was also stored in the team's RTK rover unit.
- The UXO team would then use the RTK rover unit to navigate to anomaly location and mark the location in the field with pin flags.
- A Schonstedt metal detector was then used to require the anomaly. If no anomaly could be reacquired within approximately 30 cm of the pin flag the UXO team would excavate at the original flag location until an anomaly was reacquired or they reached a depth of 30 cm below the predicted anomaly depth provided by ESTCP.
- For each anomaly location investigated the following information was documented in the PDA.
 - Item Location – The approximate center of the item was be recorded with the RTK rover unit.
 - Depth – The depth was measured with a ruled straight edge from a horizontal guide at ground surface to the approximate center of the metal item.
 - Inclination – The inclination was estimated as accurately as possible for elongated items (longest dimension > 2x shortest dimension) and described by angle from horizontal with +90 indicating nose up and - 90 nose down.
 - Azimuth – The azimuth was measured as accurately as possible for elongated items and described by the angle measured clockwise from north.
 - Identification – The item was described if it could be identified (i.e. 4.2-inch mortar base plate, aluminum can, large bolt, nail).
 - Digital Photograph – A digital photograph was taken of all metal items found at each anomaly with the items placed on a whiteboard with visible ruled markings in cm and the target number.
 - Number of Contacts – The number of discrete metal items (>1" in size) found at each anomaly location was documented.

8.1.1 Intrusive Investigation Results

The results of the intrusive investigations of single point anomalies are presented on Table 8.1. The results of the intrusive investigations are graphically presented on Figure 8.1. Photographs of the items encountered at each anomaly are included electronically in Appendix D.

As shown on Table 8.1, the intrusive investigation of the single point anomalies resulted in the following numbers of items being identified.

- 190 - Cultural Debris
- 597 - Munitions Debris
- 447 - Hot Rock/Soil
- 148 - Seed Items
- 39 - No Contacts
- 1 - 4.2-inch Mortar with Unknown Liquid Filler

Also as shown on Table 8.1, eleven anomalies highlighted in yellow were investigated more than one time. The primary cause for re-investigating the anomalies was a failure to remove the anomaly from the electronic dig sheets which caused the UXO team to revisit the anomaly. A summary of the results of the re-investigated anomalies is presented below. In general, the UXO team recorded similar results when they revisited an anomaly. In some cases additional items were identified; however, the items were offset from where items were originally identified during the first investigation of an anomaly. For instance, at anomaly number 252 an 8 cm piece of munitions debris was encountered at a depth of 120 cm during the initial investigation. During the second investigation of this anomaly, a 5 cm piece of munitions debris was encountered at a depth of 70 cm, but at a location 2 cm west and 19 cm south of the munitions debris encountered during the initial investigation. None of the results of the anomalies that were investigated twice indicate a failure in quality control for the intrusive investigations.

Anomaly ID	Results of 1st Investigation	Results of 2nd Investigation
148	Munitions Debris	Hot Rock (Off Set)
249	Hot Rock	Hot Rock
252	Munitions Debris	Munitions Debris (Off Set)
265	Munitions Debris	No Contact
276	Munitions Debris	Hot Rock (Off Set)
323	Seed Item	No Contact
602	Hot Rock	Hot Rock

Anomaly ID	Results of 1st Investigation	Results of 2nd Investigation
769	Cultural Debris	Hot Rock (Off Set)
939	Hot Rock	Hot Rock
984	Cultural Debris	Hot Rock (Off Set)
1295	Munitions Debris	Hot Rock (Off Set)

Notes: Items marked as “Off Set” were encountered at a different location than those encountered during the initial investigation of an anomaly.

As part of the intrusive investigations, GPS and other data were not collected or lost for three anomalies (321, 323 and 1156) out of 1430 anomalies investigated. The exact reasons for the loss of data are not known. However, a brief description for each anomaly is presented below.

- Anomaly 321 was a low probability anomaly (i.e. fit quality 0.83 from ESTCPs probability algorithm). No description, GPS coordinates or photograph were collected for this anomaly. As discussed earlier, the UXO team was using a PDA to store information and the photographs were being taken manually. Based on the fact that there was no data or photograph for this anomaly, it is suspected that the intrusive investigation yielded hot rock or soil. This was consistent with procedures that no photographs were taken of geologic anomalies. This anomaly location was revisited to confirm that the anomaly had been investigated.
- Based on the photographic documentation, anomaly 323 was a seed item. However, no GPS information or description was documented in the field. It is anticipated that the information was not properly stored in the PDA by the UXO team.
- Anomaly 1156 was a seed item that had been moved during seeding due to farming in the area. However, no GPS information or description was documented in the field during the intrusive investigation. It is anticipated that the information was not properly stored in the PDA by the UXO team.

8.2 Cluster Anomalies

Forty-one cluster of anomalies identified as anomalies 1344 through 1384 were also intrusively investigated as part of the ESTCP discrimination study. The procedures for documenting the results of the intrusive investigations were the same as those used for the single point anomalies. However, the procedure for clearing the cluster polygons were slightly modified. Parsons was provided a digital montaj for each cluster showing

the corner coordinates for the polygons. The UXO team would then use their RTK rover unit to navigate to the appropriate location and mark the polygon corners in the field with pin flags. The UXO team would then locate the primary anomalies in the polygons using a Schonstedt metal detector and investigate the anomaly. The appropriate information was then documented in the PDA. Once all the visible anomalies on the montaj had been investigated, the UXO team completed a 100% clearance of the polygon with the Schonstedt and investigated any smaller anomalies identified.

8.2.1 Intrusive Investigation Results

The results of the intrusive investigation of the cluster polygons are shown on Table 8.2. The intrusive investigation of the forty-one polygons resulted in 106 anomalies being investigated.

- 13 - Cultural Debris
- 90 - Munitions Debris
- 1 - Hot Rock/Soil
- 2 - Seed Items

9.0 FREE AIR MAGNETIC MEASUREMENTS

As a follow-up to the intrusive investigation, ESTCP requested Parsons assist with performing free air magnetic measurements of the seed items and other items recovered as part of the intrusive investigation. The first step in this process was the re-labeling of all the seed items and most of the larger (i.e. greater than 2 cm) cultural and munitions debris recovered during the intrusive investigation. The primary purpose of the re-labeling was so that demonstrators could not correlate the items back to a specific anomaly location. On August 13th and 14th 2007, Parsons personnel assisted ESTCP personnel in re-labeling the items. In total 150 seed items and approximately 800 cultural and munitions debris were individually placed in nylon sand bags with a unique identification number written on the outside of the bag. The individual bags were then placed in sealed plastic drums and stored in Parsons' gated storage area.

The week of August 20th 2007, Parsons personnel assisted Sky Research in performing free air magnetic measures of the seed items, cultural debris and munitions debris at a location adjacent to our Pine View Circle compound. Parsons role in this phase of the project was to provide Sky Research with the items to be measured, UXO support during handling of munitions debris and security of the testing site during non-work hours.

Following completion of the free air measurements, Parsons UXO personnel certified the munitions debris free of explosive hazardous and placed them in sealed drums with chain of custody seals. The cultural debris utilized in the free air magnetic

measurements were also placed in sealed plastic drums. On September 9, 2007 a total of 8 plastic drums of munitions and cultural debris were relinquished to NRL's freight company for shipment to NRL's facility at Blossom Point Maryland for additional magnetic testing. It is Parsons understanding that NRL will be responsible for the final disposition of the munitions and cultural debris. Copies of the certification and shipping information are included in Appendix E.

The 150 inert 4.2-inch mortars utilized as seed items for the project and included in the free air magnetic measures were relinquished to USAESCH personnel in Huntsville, Alabama on September 25, 2007.

ESTCP Support Activities
Former Camp Sibert

TABLES

Table 3.1
Items Cleared from GPO
ESTCP Site 18 - Camp Sibert

ID	Easting (UTM)	Northing (UTM)	Dig Type	Comments
S18-GPO-001	578216.22	3751355.54	Cultural Debris	Wire
S18-GPO-002	578218.25	3751358.53	Hot Rocks	
S18-GPO-003	578217.73	3751347.87	Cultural Debris	6 inch nail
S18-GPO-004	578222.47	3751346.74	No Contact	
S18-GPO-005	578211.88	3751365.53	Cultural Debris	Wire
S18-GPO-006	578233.24	3751363.40	Munitions Debris	Frag 2"x2"
S18-GPO-007	578247.63	3751358.58	No Contact	
S18-GPO-008	578251.27	3751349.91	Cultural Debris	Scrap Metal 4"x4"
S18-GPO-009	578222.14	3751339.98	Cultural Debris	24" Chain
S18-GPO-010	578219.45	3751338.97	No Contact	
S18-GPO-011	578248.79	3751344.44	No Contact	
S18-GPO-012	578254.99	3751318.72	No Contact	
S18-GPO-013	578256.30	3751311.27	Hot Rocks	
S18-GPO-014	578259.24	3751332.40	No Contact	
S18-GPO-015	578250.38	3751320.07	Cultural Debris	Metal Rod 3" long
S18-GPO-016	578265.34	3751331.89	No Contact	
S18-GPO-017	578266.55	3751329.62	Hot Rocks	
S18-GPO-018	578261.39	3751334.85	Cultural Debris	Scrap Metal
S18-GPO-019	578270.06	3751317.81	No Contact	
S18-GPO-020	578211.20	3751366.95	No Contact	
S18-GPO-021	578212.89	3751368.30	Hot Rocks	
S18-GPO-022	578216.69	3751370.40	Cultural Debris	Scrap Metal 3"x3"
S18-GPO-023	578214.07	3751363.79	Cultural Debris	Wire
S18-GPO-024	578231.44	3751357.60	Cultural Debris	Scrap Metal 2"x3"
S18-GPO-025	578236.07	3751351.65	Munitions Debris	Frag 2"x2"
S18-GPO-026	578242.00	3751346.39	Munitions Debris	Frag 2"x2"
S18-GPO-027	578211.90	3751334.30	Hot Rocks	
S18-GPO-028	578213.33	3751333.87	Hot Rocks	
S18-GPO-029	578211.27	3751322.69	Hot Rocks	
S18-GPO-030	578227.93	3751315.92	Cultural Debris	Metal nut
S18-GPO-031	578242.40	3751325.22	Cultural Debris	Iron Rod
S18-GPO-032	578243.88	3751322.40	No Contact	
S18-GPO-033	578250.29	3751315.86	Hot Rocks	
S18-GPO-034	578260.85	3751316.81	Cultural Debris	Scrap Metal
S18-GPO-035	578223.94	3751368.82	Munitions Debris	Frag 2"x2"
S18-GPO-036	578225.53	3751358.77	No Contact	
S18-GPO-037	578226.81	3751371.47	No Contact	
S18-GPO-038	578227.36	3751371.02	No Contact	
S18-GPO-039	578218.30	3751362.96	No Contact	
S18-GPO-040	578220.32	3751344.31	Hot Rocks	
S18-GPO-041	578221.20	3751342.52	Hot Rocks	
S18-GPO-042	578233.21	3751341.88	No Contact	
S18-GPO-043	578247.70	3751348.13	No Contact	
S18-GPO-044	578256.10	3751344.68	No Contact	
S18-GPO-045	578261.64	3751354.14	No Contact	

Table 3.1
Items Cleared from GPO
ESTCP Site 18 - Camp Sibert

ID	Easting (UTM)	Northing (UTM)	Dig Type	Comments
S18-GPO-046	578250.98	3751344.97	No Contact	
S18-GPO-047	578270.46	3751364.44	No Contact	
S18-GPO-048	578269.45	3751362.72	No Contact	
S18-GPO-049	578211.47	3751352.35	Hot Rocks	
S18-GPO-050	578216.95	3751339.11	Hot Rocks	
S18-GPO-051	578224.11	3751342.76	Hot Rocks	
S18-GPO-052	578214.11	3751319.24	Hot Rocks	
S18-GPO-053	578229.04	3751311.27	Cultural Debris	Scrap Metal
S18-GPO-054	578250.05	3751332.87	No Contact	
S18-GPO-055	578255.70	3751315.12	No Contact	
S18-GPO-056	578213.36	3751369.92	Hot Rocks	
S18-GPO-057	578214.07	3751363.79	Cultural Debris	Wire
S18-GPO-058	578211.68	3751360.26	No Contact	
S18-GPO-059	578212.01	3751361.61	Hot Rocks	
S18-GPO-060	578263.53	3751328.15	No Contact	
S18-GPO-061	578250.36	3751318.31	No Contact	
S18-GPO-062	578256.81	3751316.00	No Contact	
S18-GPO-063	578258.97	3751318.62	No Contact	
S18-GPO-064	578253.72	3751311.01	No Contact	
S18-GPO-065	578263.67	3751334.78	Hot Rocks	
S18-GPO-066	578264.92	3751336.91	No Contact	
S18-GPO-067	578267.76	3751335.63	No Contact	
S18-GPO-068	578267.58	3751336.92	Hot Rocks	
S18-GPO-069	578269.11	3751336.30	No Contact	
S18-GPO-070	578258.11	3751327.85	No Contact	
S18-GPO-071	578266.74	3751342.59	Hot Rocks	
S18-GPO-072	578268.81	3751355.92	Hot Rocks	
S18-GPO-073	578258.09	3751361.94	Hot Rocks	
S18-GPO-074	578265.63	3751349.88	Hot Rocks	
S18-GPO-075	578253.97	3751348.53	Hot Rocks	
S18-GPO-076	578261.88	3751349.95	Hot Rocks	
S18-GPO-077	578259.72	3751349.82	Hot Rocks	
S18-GPO-078	578257.82	3751350.29	Hot Rocks	
S18-GPO-079	578263.84	3751342.78	Hot Rocks	
S18-GPO-080	578267.06	3751363.41	Hot Rocks	
S18-GPO-081	578253.77	3751371.34	Hot Rocks	
S18-GPO-082	578252.25	3751368.23	Hot Rocks	
S18-GPO-083	578264.38	3751370.19	Cultural Debris	Scrap Metal
S18-GPO-084	578263.84	3751371.27	No Contact	
S18-GPO-085	578256.88	3751367.69	Hot Rocks	
S18-GPO-086	578269.19	3751370.61	Hot Rocks	
S18-GPO-087	578268.61	3751368.94	Hot Rocks	
S18-GPO-088	578267.35	3751367.69	No Contact	
S18-GPO-089	578243.26	3751349.99	Hot Rocks	
S18-GPO-090	578242.86	3751351.00	Hot Rocks	

Table 3.1
Items Cleared from GPO
ESTCP Site 18 - Camp Sibert

ID	Easting (UTM)	Northing (UTM)	Dig Type	Comments
S18-GPO-091	578241.84	3751347.76	Hot Rocks	
S18-GPO-092	578218.87	3751367.96	No Contact	
S18-GPO-093	578226.64	3751364.65	Hot Rocks	
S18-GPO-094	578231.71	3751371.20	Hot Rocks	
S18-GPO-095	578233.06	3751370.39	Hot Rocks	
S18-GPO-096	578234.41	3751369.72	Hot Rocks	
S18-GPO-097	578221.10	3751365.26	Hot Rocks	
S18-GPO-098	578221.99	3751364.68	Hot Rocks	
S18-GPO-099	578220.49	3751350.32	Hot Rocks	
S18-GPO-100	578238.59	3751369.45	Hot Rocks	
S18-GPO-101	578225.43	3751353.97	No Contact	
S18-GPO-102	578225.22	3751352.96	Hot Rocks	
S18-GPO-103	578226.51	3751367.15	Hot Rocks	
S18-GPO-104	578229.41	3751366.88	Hot Rocks	
S18-GPO-105	578239.55	3751364.26	Hot Rocks	
S18-GPO-106	578240.37	3751363.87	Hot Rocks	
S18-GPO-107	578244.14	3751369.18	Hot Rocks	
S18-GPO-108	578215.99	3751344.58	Hot Rocks	
S18-GPO-109	578214.48	3751369.04	Hot Rocks	
S18-GPO-110	578213.26	3751351.54	No Contact	
S18-GPO-111	578216.71	3751366.00	No Contact	
S18-GPO-112	578214.01	3751367.01	Hot Rocks	
S18-GPO-113	578213.53	3751364.18	Hot Rocks	
S18-GPO-114	578223.18	3751366.02	Hot Rocks	
S18-GPO-115	578223.84	3751365.05	Hot Rocks	
S18-GPO-116	578235.23	3751363.86	Hot Rocks	
S18-GPO-117	578238.95	3751366.23	Hot Rocks	
S18-GPO-118	578215.56	3751361.81	Hot Rocks	
S18-GPO-119	578214.48	3751348.43	Hot Rocks	
S18-GPO-120	578213.94	3751347.55	No Contact	
S18-GPO-121	578224.04	3751360.88	Hot Rocks	
S18-GPO-122	578229.01	3751341.44	Hot Rocks	
S18-GPO-123	578230.70	3751327.66	Hot Rocks	
S18-GPO-124	578219.68	3751336.24	Hot Rocks	
S18-GPO-125	578222.66	3751318.64	Hot Rocks	
S18-GPO-126	578214.95	3751322.42	Hot Rocks	
S18-GPO-127	578247.08	3751343.43	Hot Rocks	
S18-GPO-128	578247.28	3751342.08	Hot Rocks	
S18-GPO-129	578248.30	3751343.50	Hot Rocks	
S18-EM-01	578249.4	3751314.6	No Contact	
S18-EM-02	578264.1	3751319.7	No Contact	
S18-EM-03	578221.5	3751320.6	No Contact	
S18-EM-04	578252.4	3751323	No Contact	
S18-EM-05	578256	3751330.8	No Contact	
S18-EM-06	578261.7	3751345.2	Hot Rocks	

Table 3.1
Items Cleared from GPO
ESTCP Site 18 - Camp Sibert

ID	Easting (UTM)	Northing (UTM)	Dig Type	Comments
S18-EM-07	578257.8	3751346.4	No Contact	
S18-EM-08	578254.5	3751348.8	Hot Rocks	
S18-EM-09	578259.9	3751349.7	No Contact	
S18-EM-10	578242.2	3751351.2	No Contact	
S18-EM-11	578226.6	3751351.5	No Contact	
S18-EM-12	578237.7	3751351.8	Cultural Debris	Horseshoe
S18-EM-13	578224.8	3751353.9	No Contact	
S18-EM-14	578255.7	3751356.3	No Contact	
S18-EM-15	578220	3751356.9	Hot Rocks	
S18-EM-16	578224.2	3751360.5	No Contact	
S18-EM-17	578245.5	3751360.5	No Contact	
S18-EM-18	578218.2	3751361.7	No Contact	
S18-EM-19	578265	3751361.7	Cultural Debris	Scrap Metal
S18-EM-20	578222.7	3751362.9	No Contact	
S18-EM-21	578223.6	3751365.9	Hot Rocks	
S18-EM-22	578247.9	3751365.9	No Contact	
S18-EM-23	578250.9	3751365.9	Hot Rocks	
S18-EM-24	578255.1	3751365.9	No Contact	
S18-EM-25	578219.7	3751366.5	Hot Rocks	
S18-EM-26	578252.7	3751366.8	No Contact	
S18-EM-27	578261.1	3751367.1	No Contact	

Table 3.2
Summary of GPO Placement
ESTCP Site 18 - Camp Sibert

Item #	Type	Item #	Plan Coordinates		Depth to center (m)	Dip (Deg., 0=Sideways, +90=nose-up)	Azimuth (Deg. from True North)	Emplaced Coordinates		Comments
			Easting	Northing				Easting	Northing	
42-002	4.2" M	42-002	578216.93	3751317.94	0.15	0	0			
								578217.1264	3751318.187	Nose
								578217.1011	3751317.734	End
								578217.1369	3751317.97	Center
42-003	4.2" M	42-003	578223.03	3751323.54	0.15	0	70			
								578222.9072	3751323.439	End
								578223.0738	3751323.432	Center
								578223.2911	3751323.52	Nose
42-004	4.2" M	42-004	578229.37	3751318.07	0.15	0	145			
								578229.2971	3751318.201	End
								578229.4309	3751318.048	Center
								578229.5909	3751317.877	Nose
42-005	4.2" M	42-005	578239.70	3751319.31	0.15	0	215			
								578239.5054	3751319.002	Nose
								578239.6694	3751319.183	Center
								578239.8036	3751319.337	End
42-006	4.2" M	42-006	578252.14	3751321.43	0.15	0	290			
								578252.1466	3751321.466	Nose
								578252.3733	3751321.388	Center
								578252.5974	3751321.332	End
42-007	4.2" M	42-007	578260.85	3751317.57	0.40	90	0			
								578260.9932	3751317.454	Center
42-008	4.2" M	42-008	578263.21	3751329.26	0.40	90	0			
								578263.2577	3751329.152	Center
42-009	4.2" M	42-009	578254.50	3751331.63	0.40	-90	0			
								578254.5195	3751331.615	Center
42-010	4.2" M	42-010	578246.79	3751327.52	0.40	-90	0			
								578246.7587	3751327.421	Center
42-011	4.2" M	42-011	578240.69	3751334.37	0.40	45	90			
								578240.5515	3751334.754	End
								578240.7229	3751334.781	Nose
								578240.9284	3751334.806	Center

Table 3.2
Summary of GPO Placement
ESTCP Site 18 - Camp Sibert

Item #	Type	Item #	Plan Coordinates		Depth to center (m)	Dip (Deg., 0=Sideways, +90=nose-up)	Azimuth (Deg. from True North)	Emplaced Coordinates		Comments
			Easting	Northing				Easting	Northing	
42-012	4.2" M	42-012	578232.86	3751329.64	0.40	45	180			
								578233.0511	3751329.77	End
								578233.0507	3751329.668	Center
								578233.0424	3751329.439	Nose
42-013	4.2" M	42-013	578226.64	3751337.10	0.40	-45	90			
								578227.121	3751336.986	End
								578227.2914	3751337.022	Center
								578227.3957	3751337.054	Nose
42-014	4.2" M	42-014	578218.05	3751336.73	0.40	-45	180			
								578218.1661	3751336.694	End
								578218.1931	3751336.545	Center
								578218.2501	3751336.405	Nose
42-015	4.2" M	42-015	578216.56	3751347.30	0.40	0	135			
								578216.9821	3751346.954	Nose
								578216.8098	3751347.071	Center
								578216.6286	3751347.219	End
42-016	4.2" M	42-016	578224.89	3751345.69	0.40	0	225			
								578224.7967	3751345.539	Nose
								578224.9275	3751345.727	Center
								578225.0556	3751345.91	End
42-017	4.2" M	42-017	578234.47	3751347.18	0.50	90	0			
								578234.579	3751347.125	Center
42-018	4.2" M	42-018	578237.33	3751341.21	0.50	45	70			
								578237.5145	3751340.887	Nose
								578237.3852	3751340.744	Center
								578237.2503	3751340.702	End
42-019	4.2" M	42-019	578245.05	3751340.96	0.50	0	145			
								578245.3269	3751340.813	Nose
								578245.1816	3751340.999	Center
								578245.048	3751341.186	End

Table 3.2
Summary of GPO Placement
ESTCP Site 18 - Camp Sibert

Item #	Type	Item #	Plan Coordinates		Depth to center (m)	Dip (Deg., 0=Sideways, +90=nose-up)	Azimuth (Deg. from True North)	Emplaced Coordinates		Comments
			Easting	Northing				Easting	Northing	
42-020	4.2" M	42-020	578250.52	3751342.45	0.50	-45	215			
								578250.4799	3751342.275	Nose
								578250.5135	3751342.357	Center
								578250.6265	3751342.511	End
42-021	4.2" M	42-021	578264.45	3751341.33	0.50	-90	0			
								578264.5807	3751341.267	Center
42-022	4.2" M	42-022	578260.60	3751353.15	0.50	-90	0			
								578260.6696	3751353.159	Center
42-023	4.2" M	42-023	578251.76	3751350.79	0.75	-45	70			
								578251.7949	3751350.577	End
								578251.9503	3751350.663	Center
								578252.0592	3751350.724	Nose
42-024	4.2" M	42-024	578245.05	3751355.39	0.75	0	145			
								578245.0592	3751355.238	Center
								578245.2181	3751355.061	Nose
								578244.8924	3751355.409	End
42-025	4.2" M	42-025	578238.33	3751361.48	0.75	45	215			
								578238.1146	3751360.862	Nose
								578238.2524	3751361.052	Center
								578238.3206	3751361.221	End
42-026	4.2" M	42-026	578228.50	3751361.36	0.75	90	0			
								578228.5526	3751361.372	Center
42-027	4.2" M	42-027	578220.91	3751364.47	1.10	-90	0			
								578220.7283	3751364.573	Center
42-028	4.2" M	42-028	578217.93	3751357.38	1.10	90	0			
								578217.5538	3751357.59	Center
42-029	4.2" M	42-029	578229.12	3751353.90	1.10	45	180			
								578229.1559	3751353.885	End
								578229.1056	3751353.709	Center
								578229.1081	3751353.522	Nose

Table 3.2
Summary of GPO Placement
ESTCP Site 18 - Camp Sibert

Item #	Type	Item #	Plan Coordinates		Depth to center (m)	Dip (Deg., 0=Sideways, +90=nose-up)	Azimuth (Deg. from True North)	Emplaced Coordinates		Comments
			Easting	Northing				Easting	Northing	
42-030	4.2" M	42-030	578247.66	3751364.47	1.10	0	90			Dug as follow up
								578248.1571	3751364.624	Nose
								578247.9324	3751364.554	Center
								578247.7211	3751364.519	End
42-031	4.2" M	42-031	578259.48	3751365.09	1.10	0	270			Dug as follow up
								578260.1083	3751365.12	End
								578259.8706	3751365.076	Center
								578259.6367	3751365.089	Nose
HR-1	Half Shell	HR-1	578221.98	3751352.32	0.15	flat				
								578222.1337	3751352.345	Corner
								578222.0111	3751352.326	Corner
								578222.0069	3751352.033	Corner
								578222.1735	3751352.058	Corner
								578222.0798	3751352.184	Center
HR-2	Half Shell	HR-2	578235.37	3751355.29	0.15	flat				
								578235.4542	3751355.097	Corner
								578235.3337	3751355.141	Corner
								578235.4862	3751355.363	Corner
								578235.6005	3751355.306	Corner
								578235.4642	3751355.25	Corner
HR-3	Half Shell	HR-3	578242.54	3751347.16	0.15	flat				
								578242.7964	3751347.099	Corner
								578242.811	3751346.983	Corner
								578242.5418	3751346.96	Corner
								578242.5337	3751347.083	Corner
								578242.6943	3751347.018	Center
HR-4	Half Shell	HR-4	578253.83	3751359.97	0.15	on edge				
								578253.8679	3751359.637	Corner-Edge
								578253.9172	3751359.872	Corner-Edge
HR-5	Half Shell	HR-5	578257.37	3751345.34	0.15	on edge				
								578257.5358	3751345.414	Corner-Edge
								578257.3814	3751345.259	Corner-Edge

Table 3.2
Summary of GPO Placement
ESTCP Site 18 - Camp Sibert

Item #	Type	Item #	Plan Coordinates		Depth to center (m)	Dip (Deg., 0=Sideways, +90=nose-up)	Azimuth (Deg. from True North)	Emplaced Coordinates		Comments
			Easting	Northing				Easting	Northing	
HR-6	Half Shell	HR-6	578258.80	3751336.83	0.15	on edge				Dug as follow up
								578258.9079	3751336.838	Corner-Edge
								578258.6448	3751336.748	Corner-Edge
HR-7	Half Shell	HR-7	578249.05	3751335.97	0.40	flat				
								578249.1504	3751336.14	Corner
								578249.0145	3751336.105	Corner
								578249.0815	3751335.845	Corner
								578249.2244	3751335.892	Corner
								578249.1259	3751335.979	Center
HR-8	Half Shell	HR-8	578217.10	3751330.32	0.40	on edge				
								578217.1367	3751330.155	Corner-Edge
								578217.1272	3751330.39	Corner-Edge
								578217.1708	3751330.422	Corner-Edge
								578217.1767	3751330.185	Corner-Edge
HR-9	Half Shell	HR-9	578239.86	3751326.69	0.75	flat		See Note 1		
HR-10	Half Shell	HR-10	578257.75	3751324.58	0.75	on edge		See Note 1		

Notes:

1. At the time of seeding only 8 half shells were available for the project. Therefore, Items HR-9 and HR-10 were not seeded.

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
A-1	578794.900	3751863.490	0.07	0.05	MD	Frag	2	Horizontal	270
A-2	578796.080	3751862.200	0.11	0.10	MD	Halfshell	2	Horizontal	360
A-3	578796.530	3751862.870	0.07	0.06	MD	Base	2	Vertical	0
A-4	578797.070	3751864.650	0.71	0.14	HS	Soil	18		
A-5	578794.600	3751860.590	0.06	0.01	NC	No Contact	18		
A-6	578794.670	3751860.130	0.00	0.01	MD	Frag	12	Horizontal	180
A-7	578798.280	3751860.920	0.60	0.05	MD	Frag	1		
A-8	578799.890	3751863.090	0.36	0.07	MD	Frag	18	Vertical	0
A-9	578801.260	3751863.980	0.09	0.08	MD	Frag	4	Horizontal	90
A-10	578799.640	3751865.050	0.08	0.05	MD	Frag	2	Horizontal	45
A-11	578798.500	3751865.940	0.12	0.05	MD	Frag	3	Vertical	0
A-12	578805.420	3751864.960	0.16	0.03	HR	Soil	6		
A-13	578804.800	3751864.380	0.14	0.03	HR	Soil	12		
A-14	578807.860	3751861.420	0.17	0.03	MD	Frag	12	Horizontal	270
A-15	578807.110	3751864.470	0.08	0.03	MD	Frag	4	Horizontal	0
A-16	578810.490	3751863.780	0.19	0.07	MD	Frag	6	Horizontal	360
A-17	578812.160	3751863.500	0.09	0.02	MD	Frag	2	Horizontal	90
A-18	578812.170	3751861.730	0.07	0.03	MD	Frag	6	Horizontal	0
A-19	578811.250	3751865.290	0.19	0.03	MD	Frag	2	Horizontal	90
A-20	578813.000	3751864.540	0.30	0.03	HR	Soil	18		
A-21	578815.370	3751863.430	0.16	0.02	MD	Frag	4	Horizontal	n/a
A-22	578817.020	3751864.510	0.29	0.03	HR	Soil	18		
A-23	578818.640	3751862.710	0.09	0.03	MD	Frag	3	Horizontal	45
A-24	578818.660	3751863.410	0.14	0.02	CD	CD	6	Vertical	0
A-25	578819.580	3751861.420	0.40	0.03	HR	Soil	18		
A-26	578821.190	3751861.070	0.13	0.03	MD	Frag	2	Vertical	n/a
A-27	578822.700	3751861.290	0.21	0.04	MD	Frag	24	Vertical	0
A-28	578821.830	3751865.100	0.96	0.08	NC	No Contact	18		
A-29	578819.070	3751865.770	0.64	0.09	MD	Frag	18	Vertical	0
A-30	578820.590	3751869.980	0.30	0.02	NC	No Contact	18		
A-31	578817.310	3751868.220	0.21	0.04	MD	Frag	10	Horizontal	45
A-32	578815.550	3751866.110	0.91	0.11	HR	Soil			
A-33	578817.650	3751870.140	0.23	0.06	MD	Halfshell	18	Horizontal	90
A-34	578816.050	3751869.600	0.16	0.03	MD	Nose Frag	2	Vertical	0
A-35	578813.810	3751867.580	0.67	0.10	NC	No Contact	4	Horizontal	360
A-36	578812.680	3751867.290	0.41	0.06	MD	Frag	3	Vertical	0
A-37	578808.940	3751868.130	0.12	0.12	MD	Halfshell	12	Horizontal	180
A-38	578807.890	3751867.440	0.30	0.13	MD	Halfshell	10	Horizontal	
A-39	578806.850	3751868.450	0.26	0.12	MD	Halfshell	1	Horizontal	45
A-40	578806.320	3751870.100	0.06	0.07	MD	Halfshell	3	Horizontal	360
A-41	578804.250	3751869.290	0.13	0.04	MD	Frag	6	Horizontal	60
A-42	578804.780	3751866.920	0.07	0.03	MD	Frag	18	Horizontal	270
A-43	578802.950	3751868.110	0.09	0.03	MD	Frag	12	Vertical	0

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
A-44	578801.960	3751867.490	0.16	0.02	MD	Frag	6	Horizontal	180
A-45	578801.090	3751868.040	0.33	0.03	NC	No Contact	18		
A-46	578799.420	3751868.160	0.18	0.02	MD	Fuze Ring	12	Vertical	0
A-47	578798.300	3751868.450	0.17	0.04	MD	Frag	6	Horizontal	90
A-48	578798.720	3751867.530	0.17	0.03	MD	Frag	4	Horizontal	180
A-49	578797.120	3751867.250	0.30	0.04	MD	Frag	6	Vertical	0
A-50	578796.590	3751867.260	0.52	0.06	MD	Frag	6	Vertical	0
A-51	578792.320	3751867.070	0.09	0.02	MD	Frag	1	Horizontal	90
A-52	578792.910	3751869.790	0.09	0.03	MD	Frag	2	Horizontal	60
A-53	578792.950	3751871.170	0.12	0.02	MD	Frag	4	Vertical	0
A-54	578794.020	3751870.610	0.11	0.02	MD	Frag	6	Vertical	0
A-55	578795.760	3751871.380	0.30	0.05	MD	Frag	12	Vertical	0
A-56	578795.880	3751872.240	0.12	0.03	MD	Frag	4	Horizontal	180
A-57	578793.970	3751875.980	0.08	0.02	MD	Nose Frag	2	Vertical	0
A-58	578796.530	3751874.830	0.07	0.02	MD	Nose Frag	4	Vertical	0
A-59	578799.210	3751872.220	0.09	0.02	MD	Frag	5	Horizontal	45
A-60	578800.070	3751873.730	0.15	0.03	MD	Frag	4	Vertical	0
A-61	578800.040	3751875.910	0.11	0.05	MD	Frag	6	Horizontal	360
A-62	578803.320	3751871.570	0.17	0.02	HR	Soil	18		
A-63	578805.350	3751872.580	0.73	0.08	MD	Base	24	Vertical	0
A-64	578808.430	3751872.020	0.11	0.03	MD	Frag	6	Horizontal	45
A-65	578808.680	3751872.880	0.15	0.02	HR	Soil	18		
A-66	578807.830	3751870.650	0.21	0.04	MD	Frag	5	Horizontal	140
A-67	578811.470	3751871.090	0.50	0.05	MD	Frag	8	Vertical	0
A-68	578810.690	3751871.940	0.20	0.03	HR	Soil			
A-69	578813.800	3751875.190	0.35	0.05	MD	Base	18	Vertical	0
A-70	578815.490	3751873.180	0.24	0.04	MD	Frag	6	Vertical	0
A-71	578815.830	3751870.920	0.14	0.03	MD	Frag	3	Horizontal	90
A-72	578818.140	3751874.980	0.63	0.06	NC	No Contact	18		
A-73	578820.460	3751875.620	0.20	0.03	MD	Frag	5	Horizontal	120
A-74	578820.130	3751871.150	0.12	0.03	MD	Nose Frag	4	Horizontal	0
A-75	578821.500	3751872.910	0.09	0.05	MD	Base	2	Vertical	0
A-76	578819.060	3751878.800	0.08	0.08	MD	Frag	2	Horizontal	90
A-77	578818.710	3751877.840	0.13	0.03	MD	Frag	6	Horizontal	0
A-78	578819.150	3751881.670	0.23	0.09	MD	Base	14	Vertical	0
A-79	578816.160	3751881.760	0.30	0.05	MD	Halfshell	6	Horizontal	90
A-80	578816.130	3751877.000	0.11	0.02	MD	Frag	1	Vertical	0
A-81	578814.780	3751878.670	0.30	0.05	MD	Base	14	Horizontal	0
A-82	578814.360	3751880.490	0.09	0.02	MD	Frag	6		45
A-83	578810.560	3751878.980	0.05	0.04	MD	Frag	3	Horizontal	40
A-84	578809.510	3751879.400	0.14	0.03	MD	Frag	1	Horizontal	360
A-85	578807.270	3751877.880	0.21	0.03	MD	Frag	4	Vertical	0
A-86	578809.750	3751880.940	0.15	0.04	MD	Frag	3	Horizontal	180

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
A-87	578809.050	3751881.550	0.02	0.02	MD	Frag	6	Horizontal	90
A-88	578809.290	3751881.150	0.12	0.02	HR	Soil	18		
A-89	578808.570	3751882.700	0.09	0.02	MD	Frag	4	Vertical	0
A-90	578807.060	3751880.980	0.24	0.03	MD	Frag	12	Vertical	0
A-91	578804.150	3751880.950	0.25	0.06	MD	Frag	12	Horizontal	180
A-92	578803.950	3751877.830	0.13	0.05	MD	Frag	4	Horizontal	270
A-93	578804.820	3751876.710	0.10	0.06	MD	Frag	3	Horizontal	180
A-94	578804.240	3751875.820	0.10	0.03	MD	Frag	2	Horizontal	90
A-95	578802.860	3751876.070	0.14	0.02	MD	Frag	1	Horizontal	180
A-96	578802.920	3751877.280	0.31	0.03	MD	Frag	1	Horizontal	n/a
A-97	578802.100	3751876.690	0.05	0.02	MD	Frag	2	Vertical	0
A-98	578801.450	3751876.020	0.41	0.04	MD	Frag	6		45
A-99	578800.650	3751878.030	0.96	0.09	HR	Soil	18	Horizontal	
A-100	578802.040	3751878.810	0.09	0.03	MD	Frag	6	Vertical	360
A-101	578800.770	3751879.120	0.09	0.03	MD	Frag	2	Horizontal	0
A-102	578800.180	3751879.460	0.07	0.03	MD	Frag	6	Horizontal	90
A-103	578800.940	3751882.320	0.10	0.04	MD	Frag	2	Horizontal	180
A-104	578798.320	3751881.050	0.10	0.03	MD	Frag	4	Horizontal	360
A-105	578794.970	3751879.440	0.20	0.03	MD	Frag	3	Horizontal	60
A-106	578793.910	3751879.710	0.12	0.03	MD	Frag	1	Vertical	45
A-107	578793.980	3751881.290	0.22	0.03	MD	Nose Frag	4	Vertical	0
A-108	578792.430	3751882.080	0.37	0.06	MD	Base	18	Horizontal	0
A-109	578793.410	3751886.160	0.14	0.03	MD	Frag	2	Vertical	0
A-110	578794.440	3751885.300	0.17	0.03	MD	Frag	1	Vertical	0
A-111	578794.580	3751886.590	0.22	0.04	MD	Frag	12	Vertical	0
A-112	578795.910	3751886.180	0.06	0.02	MD	Frag	8		
A-113	578796.180	3751883.340	0.19	0.06	MD	Frag	8	Horizontal	45
A-114	578797.220	3751882.330	0.11	0.02	MD	Frag	6	Horizontal	90
A-115	578799.930	3751883.410	0.15	0.05	MD	Frag	4	Horizontal	360
A-116	578799.310	3751883.870	0.11	0.05	MD	Frag	3	Horizontal	180
A-117	578800.710	3751884.310	0.23	0.03	MD	Frag	2	Horizontal	45
A-118	578804.350	3751882.480	0.07	0.05	MD	Frag	1	Horizontal	270
A-119	578805.640	3751882.520	0.15	0.05	MD	Frag	4	Vertical	0
A-120	578805.790	3751886.070	0.18	0.03	MD	Frag	3	Horizontal	360
A-121	578807.910	3751884.830	0.35	0.03	HR	Soil	18		
A-122	578813.950	3751885.830	0.14	0.06	MD	Frag	2	Horizontal	60
A-123	578815.140	3751884.370	0.16	0.02	MD	Frag	6	Vertical	0
A-124	578819.290	3751884.340	0.16	0.02	MD	Frag	3	Vertical	0
A-125	578819.250	3751885.830	0.15	0.02	MD	Frag	5	Vertical	0
A-126	578818.720	3751887.140	0.47	0.04	HR	Soil	18		
A-127	578818.680	3751890.060	0.37	0.03	HR	Soil	18		

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
A-128	578816.930	3751888.540	0.38	0.07	UXO	Intact 4.2 inch Mortar Round	12	Horizontal	40
A-129	578816.210	3751890.270	0.30	0.02	MD	Frag	7	Horizontal	18
A-130	578817.400	3751886.890	0.07	0.01	HR	Soil	3		n/a
A-131	578813.680	3751890.070	0.12	0.03	MD	Frag	7	Horizontal	270
A-132	578811.150	3751889.540	0.18	0.03	MD	Frag	8	Vertical	0
A-133	578810.490	3751888.700	0.11	0.02	HR	Soil	6		n/a
A-134	578809.800	3751888.030	0.19	0.02	HR	Soil	4		n/a
A-135	578810.080	3751889.250	0.45	0.05	HR	Soil	18		
A-136	578807.110	3751888.880	0.21	0.03	MD	Frag	4	Horizontal	45
A-137	578806.340	3751888.060	0.22	0.02	HR	Soil	18		
A-138	578804.150	3751886.990	0.31	0.05	MD	Base	12	Horizontal	180
A-139	578804.640	3751889.880	0.50	0.06	MD	Frag	4	Vertical	0
A-140	578803.440	3751889.470	0.15	0.03	MD	Frag	5	Horizontal	45
A-141	578802.770	3751889.880	0.15	0.03	MD	Frag	2	Horizontal	60
A-142	578801.970	3751888.910	0.26	0.03	HR	Soil	18		
A-143	578802.960	3751888.050	0.28	0.03	HR	Soil	8		
A-144	578800.120	3751889.200	0.03	0.02	MD	Frag	4	Vertical	n/a
A-145	578800.500	3751887.890	0.07	0.05	MD	Frag	8	Horizontal	270
A-146	578801.260	3751886.710	0.29	0.05	MD	Frag	3	Horizontal	360
A-147	578802.030	3751886.740	0.07	0.02	MD	Frag	1	Horizontal	180
A-148	578802.690	3751886.490	0.06	0.03	MD	Frag	1	Horizontal	90
A-149	578799.170	3751889.530	0.47	0.09	MD	Base	16	Horizontal	300
A-150	578797.070	3751889.860	0.05	0.07	MD	Frag	1	Horizontal	180
A-151	578798.720	3751886.100	0.44	0.09	HR	Soil	18		
A-152	578799.430	3751886.230	0.52	0.09	MD	Frag	6	Vertical	0
A-153	578795.610	3751887.830	0.06	0.04	MD	Frag	1	Horizontal	90
A-154	578794.810	3751888.000	0.15	0.04	MD	Frag	6	Horizontal	180
A-155	578792.270	3751887.420	0.26	0.03	MD	Frag	4	Horizontal	60
B-1	578792.640	3751864.380	0.28	0.02	HR	Hot Soil			
B-2	578794.600	3751866.520	0.45	0.03	HR	Hot Soil			
B-3	578799.960	3751860.400	0.20	0.01	HR	Hot Soil			
B-4	578801.250	3751861.410	0.07	0.01	HR	Hot Soil			
B-5	578802.310	3751860.230	0.23	0.02	HR	Hot Soil			
B-6	578804.840	3751861.290	0.06	0.01	NC	No Contact			
B-7	578804.190	3751862.150	0.06	0.01	HR	Hot Soil			
B-8	578803.610	3751863.370	0.10	0.02	MD	Frag	2		
B-9	578805.730	3751862.770	0.14	0.01	NC	No Contact			
B-10	578806.320	3751861.290	0.18	0.01	NC	No Contact			
B-11	578807.090	3751862.750	0.14	0.02	HR	Hot Soil			
B-12	578806.540	3751863.850	0.09	0.02	HR	Hot Soil			
B-13	578808.990	3751862.920	0.16	0.01	NC	No Contact			
B-14	578809.410	3751860.390	0.47	0.03	NC	No Contact			
B-15	578810.140	3751861.180	0.48	0.03	NC	No Contact			
B-16	578810.790	3751866.130	0.13	0.01	NC	No Contact			

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
B-17	578814.510	3751862.400	0.06	0.01	NC	No Contact			
B-18	578816.250	3751862.130	0.02	0.01	MD	Frag	2.00		
B-19	578819.230	3751863.260	0.17	0.02	NC	No Contact			
B-20	578822.720	3751869.970	0.09	0.01	MD	Frag	2.00	Horizontal	45.00
B-21	578822.430	3751869.330	0.21	0.01	NC	No Contact			
B-22	578820.320	3751868.910	0.04	0.01	HR	Hot Soil			
B-23	578819.180	3751870.890	0.07	0.02	HR	Hot Soil			
B-24	578818.290	3751871.270	0.10	0.02	HR	Hot Soil			
B-25	578812.860	3751871.020	0.08	0.01	NC	No Contact			
B-26	578809.560	3751870.870	0.16	0.01	NC	No Contact			
B-27	578800.060	3751867.300	0.08	0.01	MD	Frag			
B-28	578798.500	3751871.160	0.21	0.02	HR	Hot Soil			
B-29	578797.300	3751870.450	0.60	0.03	NC	No Contact			
B-30	578792.510	3751874.970	0.04	0.01	HR	Hot Soil			
B-31	578793.460	3751874.640	0.04	0.01	NC	No Contact			
B-32	578795.080	3751873.840	0.21	0.02	NC	No Contact			
B-33	578795.380	3751874.120	0.09	0.01	HR	Hot Soil			
B-34	578795.720	3751875.000	0.08	0.01	NC	No Contact			
B-35	578797.850	3751872.560	0.13	0.02	NC	No Contact			
B-36	578797.330	3751874.180	0.12	0.01	HR	Hot Soil			
B-37	578798.300	3751873.820	0.10	0.01	NC	No Contact			
B-38	578806.200	3751874.310	0.07	0.01	NC	No Contact			
B-39	578806.090	3751875.090	0.10	0.01	NC	No Contact			
B-40	578807.230	3751874.030	0.06	0.01	NC	No Contact			
B-41	578809.740	3751874.090	0.11	0.02	MD	Frag	2.00		
B-42	578811.490	3751874.260	0.17	0.02	NC	No Contact			
B-43	578813.250	3751873.750	0.22	0.01	NC	No Contact			
B-44	578813.350	3751873.260	0.00	0.00	NC	No Contact			
B-45	578816.900	3751872.090	0.02	0.01	CD	6inch bolt	6.00	Vertical	270.00
B-46	578816.960	3751873.570	0.12	0.01	NC	No Contact			
B-47	578816.790	3751874.470	0.06	0.01	NC	No Contact			
B-48	578818.980	3751872.950	0.26	0.02	NC	No Contact			
B-49	578820.550	3751874.280	0.11	0.01	NC	No Contact			
B-50	578821.380	3751875.950	0.15	0.01	NC	No Contact			
B-51	578822.570	3751877.390	0.25	0.02	NC	No Contact			
B-52	578821.620	3751878.500	0.09	0.01	NC	No Contact			
B-53	578817.730	3751877.140	0.09	0.01	NC	No Contact			
B-54	578816.060	3751875.790	0.18	0.01	NC	No Contact			
B-55	578815.730	3751874.900	0.28	0.01	NC	No Contact			
B-56	578814.370	3751877.180	0.06	0.01	NC	No Contact			
B-57	578813.080	3751876.550	0.05	0.01	NC	No Contact			
B-58	578811.040	3751876.510	0.23	0.02	NC	No Contact			
B-59	578809.920	3751875.700	0.15	0.01	NC	No Contact			
B-60	578810.340	3751877.630	0.18	0.01	NC	No Contact			
B-61	578811.920	3751877.170	0.09	0.01	NC	No Contact			
B-62	578810.440	3751876.110	0.10	0.00	NC	No Contact			
B-63	578807.790	3751875.760	0.23	0.01	NC	No Contact			
B-64	578806.340	3751875.890	0.23	0.02	NC	No Contact			
B-65	578806.280	3751876.960	0.07	0.01	NC	No Contact			
B-66	578806.990	3751878.930	0.05	0.01	NC	No Contact			

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
B-67	578806.040	3751879.400	0.07	0.01	NC	No Contact			
B-68	578798.360	3751876.720	0.08	0.01	NC	No Contact			
B-69	578797.750	3751875.840	0.04	0.01	NC	No Contact			
B-70	578795.910	3751876.730	0.03	0.01	NC	No Contact			
B-71	578794.800	3751877.360	0.14	0.01	NC	No Contact			
B-72	578795.000	3751876.850	0.06	0.01	NC	No Contact			
B-73	578795.350	3751878.310	0.19	0.02	MD	Frag	3.00	Vertical	360.00
B-74	578797.700	3751877.740	0.24	0.02	NC	No Contact			
B-75	578797.050	3751876.490	0.01	0.01	NC	No Contact			
B-76	578796.470	3751879.600	0.07	0.01	NC	No Contact			
B-77	578796.240	3751881.790	0.25	0.02	NC	No Contact			
B-78	578798.810	3751881.710	0.09	0.01	NC	No Contact			
B-79	578800.120	3751881.540	0.13	0.01	NC	No Contact			
B-80	578801.860	3751880.900	0.03	0.01	NC	No Contact			
B-81	578802.140	3751883.140	0.00	0.01	HR	Hot Soil			
B-82	578807.440	3751882.940	0.08	0.01	HR	Hot Soil			
B-83	578812.410	3751879.670	0.17	0.02	MD	Frag	12.00	Horizontal	180.00
B-84	578811.360	3751879.800	0.03	0.01	NC	No Contact			
B-85	578811.850	3751881.980	0.14	0.01	NC	No Contact			
B-86	578813.050	3751881.000	0.17	0.01	NC	No Contact			
B-87	578814.690	3751882.080	0.34	0.03	NC	No Contact			
B-88	578813.370	3751882.650	0.26	0.02	NC	No Contact			
B-89	578818.010	3751879.810	0.22	0.01	NC	No Contact			
B-90	578817.230	3751880.210	0.14	0.01	NC	No Contact			
B-91	578822.100	3751879.750	0.32	0.03	HR	Hot Soil			
B-92	578821.490	3751880.700	0.16	0.01	HR	Hot Soil			
B-93	578821.650	3751882.590	0.16	0.02	NC	No Contact			
B-94	578822.560	3751884.960	0.09	0.02	HR	Hot Soil			
B-95	578822.290	3751884.230	0.15	0.01	NC	No Contact			
B-96	578821.600	3751885.450	0.11	0.02	NC	No Contact			
B-97	578820.440	3751885.100	0.20	0.01	NC	No Contact			
B-98	578818.810	3751883.610	0.26	0.02	NC	No Contact			
B-99	578817.240	3751883.950	0.10	0.01	HR	Hot Soil			
B-100	578818.530	3751884.580	0.08	0.01	NC	No Contact			
B-101	578816.890	3751883.120	0.02	0.01	HR	Hot Soil			
B-102	578816.640	3751883.690	0.13	0.01	NC	No Contact			
B-103	578816.030	3751884.690	0.02	0.01	HR	Hot Soil			
B-104	578813.760	3751883.510	0.24	0.02	NC	No Contact			
B-105	578812.180	3751883.120	0.25	0.02	NC	No Contact			
B-106	578809.680	3751884.500	0.08	0.01	HR	Hot Soil			
B-107	578808.740	3751884.190	0.23	0.02	NC	No Contact			
B-108	578808.350	3751883.460	0.02	0.01	HR	Hot Soil			
B-109	578806.790	3751883.870	0.08	0.01	HR	Hot Soil			
B-110	578807.040	3751884.840	0.12	0.00	NC	No Contact			
B-111	578803.930	3751884.410	0.18	0.02	MD	Frag	1.00	Horizontal	270.00
B-112	578802.450	3751883.760	0.08	0.01	NC	No Contact			
B-113	578798.020	3751882.900	0.28	0.02	MD	Frag	2.00	Horizontal	45.00
B-114	578792.890	3751883.740	0.23	0.03	HR	Hot Soil			
B-115	578792.570	3751889.130	0.02	0.01	NC	No Contact			
B-116	578792.560	3751890.350	0.07	0.01	HR	Hot Soil			

Table 4.1
Summary 100' by 100' Grid Investigation
ESTCP Site 18 - Camp Sibert

ID	Easting	Northing	Depth (m)	Size (m)	Dig Type	Comments	Depth (in)	Inclination	Azimuth
B-117	578793.810	3751887.790	0.16	0.02	CD	Scrap Metal	10.00	Horizontal	90.00
B-118	578797.120	3751887.570	0.03	0.01	NC	No Contact			
B-119	578803.420	3751888.330	0.05	0.01	NC	No Contact			
B-120	578805.340	3751887.480	0.10	0.01	HR	Hot Soil			
B-121	578806.640	3751886.050	0.17	0.02	NC	No Contact			
B-122	578807.060	3751887.530	0.22	0.02	NC	No Contact			
B-123	578807.720	3751886.900	0.01	0.01	NC	No Contact			
B-124	578808.260	3751887.550	0.23	0.01	NC	No Contact			
B-125	578808.630	3751886.670	0.02	0.01	NC	No Contact			
B-126	578809.190	3751886.280	0.16	0.01	NC	No Contact			
B-127	578811.450	3751887.130	0.12	0.03	MD	Frag	8.00	Horizontal	270.00
B-128	578811.690	3751885.540	0.21	0.02	HR	Hot Soil			
B-129	578812.830	3751884.860	0.04	0.01	NC	No Contact			
B-130	578812.240	3751888.050	0.01	0.00	NC	No Contact			
B-131	578812.280	3751888.870	0.13	0.02	HR	Hot Soil			
B-132	578812.750	3751889.360	0.12	0.01	HR	Hot Soil			
B-133	578813.640	3751889.040	0.29	0.02	NC	No Contact			
B-134	578815.370	3751886.980	0.26	0.01	NC	No Contact			
B-135	578816.760	3751886.510	0.25	0.01	NC	No Contact			
B-136	578815.930	3751885.340	0.01	0.01	NC	No Contact			
B-137	578819.900	3751887.200	0.13	0.01	HR	Hot Soil			
B-138	578820.370	3751887.430	0.33	0.03	HR	Hot Soil			
B-139	578818.970	3751888.740	0.32	0.02	NC	No Contact			
B-140	578820.370	3751888.880	0.16	0.02	HR	Hot Soil			
B-141	578819.810	3751889.980	0.11	0.01	HR	Hot Soil			
B-142	578820.760	3751889.980	0.22	0.02	HR	Hot Soil			
B-143	578821.000	3751889.650	0.19	0.01	HR	Hot Soil			
B-144	578821.270	3751888.090	0.03	0.01	NC	No Contact			
B-145	578821.340	3751888.750	0.15	0.01	HR	Hot Soil			
B-146	578822.090	3751889.420	0.26	0.02	HR	Hot Soil			
B-147	578821.850	3751887.600	0.29	0.01	HR	Hot Soil			

Notes:

1. Frag - Munitions debris
2. No Contact - No anomaly reacquired at the location after investigation 30 cm below the predicted depth
3. Hot Soil - Magnetic soil resulting in signature with Schonstedt.
4. Base - Base plate of a 4.2-inch mortar
5. Nose Frag - Munitions debris from the nose of a 4.2-inch mortar

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-032	42-125	578484.7902	3751379.288				
Plan			578485.28	3751379.89	Sideways	0.5	270	
Anomaly		84-13-684	578484.66	3751379.49				
PLS	42-033	42-071	578475.17	3751369.465				
Plan			578475.19	3751369.65	Down	0.4	30	
Anomaly		84-13-649	578475.31	3751369.59				
PLS	42-034	42-072	578464.5104	3751369.142				
Plan			578464.30	3751369.41	Sideways	0.2	60	
Anomaly		84-13-648	578464.46	3751369.20				
PLS	42-035	42-075	578443.2021	3751360.426				
Plan			578443.08	3751360.14	Down	0.4	210	
Anomaly		84-13-628	578443.03	3751360.65				
PLS	42-036	42-066	578445.219	3751369.258				
Plan			578445.11	3751369.24	Sideways	0.4	270	
Anomaly		84-13-647	578445.02	3751369.33				
PLS	42-037	42-168	578437.76	3751382.20				
Plan			578437.96	3751382.58	Up	0.6	210	
Anomaly		84-13-691	578437.59	3751382.11				
PLS	42-038	42-053	578447.69	3751389.38				
Plan			578447.96	3751389.81	Sideways	0.1	60	
Anomaly		84-13-713	578447.41	3751389.55				
PLS	42-039	42-166	578436.4964	3751398.479				
Plan			578436.41	3751398.68	Sideways	0.3	180	
Anomaly		84-13-744	578436.39	3751399.00				
PLS	42-040	42-165	578444.1732	3751403.12				
Plan			578443.81	3751403.72	Sideways	0.6	300	
Anomaly		84-14-759	578443.97	3751403.65				
PLS	42-041	42-068	578451.6591	3751397.222				
Plan			578451.86	3751397.70	Up	0.5	270	
Anomaly		84-13-738	578451.77	3751397.55				
PLS	42-042	42-062	578464.4337	3751410.841				
Plan			578464.20	3751411.12	Sideways	0.3	270	
Anomaly		84-14-781	578464.10	3751410.95				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-043	42-144	578476.8214	3751410.532				
Plan			578476.90	3751410.38	Sideways	0.1	0	
Anomaly		84-14-782	578477.05	3751410.76				
PLS	42-044	42-074	578457.1261	3751415.654				
Plan			578456.98	3751415.67	Down	0.4	120	
Anomaly		84-14-803	578456.85	3751416.01				
PLS	42-045	42-164	578470.9093	3751427.881				
Plan			578470.72	3751428.51	Down	0.4	0	
Anomaly		84-14-856	578470.77	3751428.09				
PLS	42-046	42-130	578483.804	3751431.418				
Plan			578483.49	3751431.28	Sideways	0.3	90	
Anomaly		84-14-876	578483.44	3751431.56				
PLS	42-047	42-155	578492.9611	3751436.433				
Plan			578492.43	3751436.56	Down	0.3	270	
Anomaly		84-14-890	578492.86	3751436.72				
PLS	42-048	42-078	578472.7235	3751449.063				
Plan			578472.76	3751449.41	Sideways	0.3	30	
Anomaly		84-14-968	578472.75	3751449.52				
PLS	42-049	42-092	578461.829	3751453.323				
Plan			578462.27	3751453.80	Down	0.3	150	
Anomaly		84-14-991	578461.73	3751453.55				
PLS	42-050	42-154	578461.5006	3751466.915				
Plan			578461.13	3751467.54	Down	0.5	330	
Anomaly		84-14-1045	578461.38	3751467.09				
PLS	42-051	42-077	578486.4629	3751470.772				
Plan			578486.58	3751470.47	Sideways	0.2	300	
Anomaly		84-14-1063	578486.37	3751470.75				
PLS	42-052	42-159	578445.3272	3751463.539				
Plan			578444.87	3751463.80	Up	0.5	300	
Anomaly		84-14-1034	578445.24	3751463.80				
PLS	42-053	42-167	578442.9857	3751447.153				
Plan			578443.08	3751447.38	Down	0.5	60	
Anomaly		84-14-955	578442.94	3751447.52				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-054	42-054	578472.9681	3751487.256				
Plan			578472.84	3751487.79	Sideways	0.2	240	
Anomaly		84-14-1264	578472.92	3751487.41				
PLS	42-055	42-090	578464.859	3751501.291				
Plan			578465.11	3751501.61	Up	0.4	270	
Anomaly		84-15-1302	578464.75	3751501.47				
PLS	42-056	42-082	578395.616	3751496.566				
Plan			578395.52	3751496.97	Sideways	0.3	180	
Anomaly		83-14-1291	578395.65	3751496.97				
PLS	42-057	42-088	578409.459	3751490.472				
Plan			578409.18	3751490.39	Down	0.6	330	
Anomaly		84-14-1275	578409.46	3751490.54				
PLS	42-058	42-101	578429.273	3751486.371				
Plan			578429.66	3751486.40	Down	0.5	270	
Anomaly		84-14-1258	578429.23	3751486.67				
PLS	42-059	42-151	578395.6412	3751482.543				
Plan			578395.68	3751482.91	Sideways	0.1	180	
Anomaly		83-14-1171	578395.45	3751482.74				
PLS	42-060	42-089	578376.4489	3751456.032				
Plan			578376.00	3751456.48	Sideways	0.8	240	
Anomaly		83-14-998	578376.42	3751456.28				
PLS	42-061	42-026	578407.3577	3751458.513				
Plan			578407.22	3751458.76	Down	0.3	300	
Anomaly		84-14-1009	578407.32	3751458.72				
PLS	42-062	42-099	578421.8756	3751463.926				
Plan			578421.78	3751464.13	Down	0.7	300	
Anomaly		84-14-1033	578421.45	3751464.28				
PLS	42-063	42-084	578418.2614	3751445.654				
Plan			578417.87	3751445.91	Down	0.4	90	
Anomaly		84-14-940	578418.08	3751445.70				
PLS	42-064	42-146	578430.9939	3751444.465				
Plan			578430.80	3751445.02	Up	0.8	150	
Anomaly		84-14-933	578430.66	3751444.47				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-065	42-152	578421.1574	3751431.975				
Plan			578420.72	3751432.58	Up	0.7	150	
Anomaly		84-14-874	578421.19	3751432.25				
PLS	42-066	42-094	578407.4313	3751437.113				
Plan			578406.57	3751436.97	Up	1	150	
Anomaly		84-14-894	578407.44	3751437.55				
PLS	42-067	42-147	578408.0038	3751427.07				
Plan			578408.12	3751427.13	Up	0.3	300	
Anomaly		84-14-853	578407.94	3751427.31				
PLS	42-068	42-136	578389.2757	3751429.156				
Plan			578389.50	3751429.57	Down	0.4	240	
Anomaly		83-14-860	578389.06	3751429.37				
PLS	42-069	42-135	578405.892	3751420.183				
Plan			578405.76	3751420.47	Sideways	0.2	150	
Anomaly		84-14-832	578405.67	3751420.56				
PLS	42-070	42-096	578408.2283	3751394.353				
Plan			578407.87	3751394.61	Up	0.4	150	
Anomaly		84-13-724	578407.99	3751394.44				
PLS	42-071	42-137	578424.70	3751391.65				
Plan			578425.03	3751392.17	Sideways	0.8	210	
Anomaly		84-13-719	578424.29	3751391.61				
PLS	42-072	42-098	578408.9763	3751381.945				
Plan			578408.69	3751382.66	Sideways	0.3	90	
Anomaly		84-13-690	578408.88	3751382.11				
PLS	42-073	42-095	578426.38	3751371.60				
Plan			578426.49	3751371.93	Sideways	0.2	270	
Anomaly		84-13-656	578426.21	3751371.55				
PLS	42-074	42-003	578415.3908	3751361.829				
Plan			578415.03	3751361.76	Sideways	0.1	270	
Anomaly		84-13-633	578415.42	3751362.05				
PLS	42-075	42-087	578380.5234	3751363.722				
Plan			578380.72	3751363.96	Up	0.5	240	
Anomaly		83-13-636	578380.38	3751363.99				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-076	42-004	578375.6059	3751377.876				
Plan			578375.84	3751377.86	Sideways	0.4	330	
Anomaly		83-13-679	578375.60	3751377.93				
PLS	42-077	42-174	578361.8639	3751381.044				
Plan			578361.94	3751381.36	Up	0.5	180	
Anomaly		83-13-689	578361.78	3751381.27				
PLS	42-078	42-086	578332.6127	3751402.325				
Plan			578333.24	3751402.42	Down	0.4	300	
Anomaly		83-14-756	578332.46	3751402.55				
PLS	42-079	42-141	578312.4983	3751412.775				
Plan			578312.34	3751412.99	Sideways	0.7	210	
Anomaly		83-14-791	578312.50	3751412.99				
PLS	42-080	42-097	578318.9669	3751431.267				
Plan			578319.09	3751431.12	Up	0.5	60	
Anomaly		83-14-870	578318.91	3751431.42				
PLS	42-081	42-093	578328.2432	3751445.896				
Plan			578327.71	3751446.08	Up	0.4	60	
Anomaly		83-14-938	578327.96	3751445.91				
PLS	42-082	42-091	578357.2773	3751447.959				
Plan			578357.06	3751447.95	Sideways	0.1	0	
Anomaly		83-14-1336	578357.20	3751448.35				
PLS	42-083	42-009	578340.2612	3751461.869				
Plan			578340.15	3751462.17	Sideways	0.1	240	
Anomaly		83-14-1022	578340.13	3751462.13				
PLS	42-084	42-017	578331.6126	3751469.919				
Plan			578331.45	3751470.14	Up	0.4	330	
Anomaly		83-14-1057	578331.40	3751469.90				
PLS	42-085	42-015	578299.914	3751470.287				
Plan			578299.66	3751470.47	Sideways	1.1	300	
Anomaly		83-14-1058	578299.75	3751470.39				
PLS	42-086	42-013	578277.7822	3751447.598				
Plan			578278.27	3751447.95	Sideways	0.4	60	
Anomaly		82-14-956	578277.56	3751447.73				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-087	42-021	578278.6704	3751440.979				
Plan			578278.93	3751440.71	Down	0.5	210	
Anomaly		82-14-914	578278.50	3751441.11				
PLS	42-088	42-023	578261.0161	3751441.641				
Plan			578261.36	3751442.01	Up	0.3	210	
Anomaly		82-14-915	578260.92	3751441.85				
PLS	42-089	42-008	578294.8381	3751422.75				
Plan			578294.70	3751422.74	Down	1.1	30	
Anomaly		82-14-838	578294.64	3751423.15				
PLS	42-090	42-006	578265.4359	3751419.254				
Plan			578265.35	3751419.49	Sideways	0.2	30	
Anomaly		82-14-823	578265.28	3751419.37				
PLS	42-091	42-139	578251.8716	3751416.103				
Plan			578251.93	3751415.91	Down	1	330	
Anomaly		82-14-804	578251.77	3751416.52				
PLS	42-092	42-011	578280.1873	3751411.244				
Plan			578280.14	3751411.36	Sideways	0.5	240	
Anomaly		82-14-783	578280.00	3751411.39				
PLS	42-093	42-132	578256.74	3751385.85				
Plan			578256.89	3751386.07	Up	0.4	90	
Anomaly		82-13-706	578256.68	3751386.07				
PLS	42-094	42-138	578275.7004	3751378.625				
Plan			578275.43	3751378.92	Up	0.3	300	
Anomaly		82-13-682	578275.58	3751378.80				
PLS	42-095	42-131	578285.0876	3751374.049				
Plan			578284.86	3751374.12	Up	0.5	270	
Anomaly		82-13-661	578284.98	3751374.30				
PLS	42-096	42-022	578292.9507	3751378.404				
Plan			578293.40	3751378.51	Down	0.8	300	
Anomaly		82-13-678	578292.82	3751378.58				
PLS	42-097	42-005	578304.2305	3751380.707				
Plan			578304.29	3751380.22	Up	0.4	30	
Anomaly		83-13-687	578304.09	3751380.95				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-098	42-157	578257.095	3751367.634				
Plan			578256.08	3751368.11	Up	1.1	270	
Anomaly		82-13-643	578257.00	3751367.90				
PLS	42-099	42-140	578272.2686	3751365.119				
Plan			578270.14	3751367.70	Down	0.5	330	
Anomaly		82-13-638	578272.09	3751365.34				
PLS	42-100	42-014	578283.6966	3751360.718				
Plan			578281.69	3751363.39	Down	0.5	180	
Anomaly		82-13-629	578283.54	3751360.90				
PLS	42-101	42-019	578270.2934	3751352.693				
Plan			578268.11	3751355.26	Up	0.5	330	
Anomaly		82-13-611	578270.11	3751352.90				
PLS	42-102	42-010	578294.2019	3751357.825				
Plan			578292.42	3751360.46	Sideways	1	120	
Anomaly		82-13-620	578294.10	3751357.93				
PLS	42-103	42-126	578820.5384	3751692.012				
Plan			578821.25	3751694.30	Down	1.1	120	
Anomaly		88-16-57	578820.47	3751692.37				
PLS	42-104	42-050	578832.0899	3751710.453				
Plan			578832.06	3751710.60	Sideways	0.3	90	
Anomaly		88-17-121	578831.83	3751710.62				
PLS	42-105	42-120	578831.9687	3751701.33				
Plan			578831.58	3751701.40	Up	0.4	90	
Anomaly		88-17-103	578831.88	3751701.57				
PLS	42-106	42-183	578840.2398	3751701.051				
Plan			578840.13	3751701.57	Down	0.3	270	
Anomaly		88-17-101	578840.10	3751701.29				
PLS	42-107	42-049	578843.6762	3751711.281				
Plan			578843.84	3751711.41	Sideways	0.5	360	
Anomaly		88-17-122	578843.70	3751711.49				
PLS	42-108	42-113	578835.1518	3751684.456				
Plan			578834.80	3751684.62	Down	0.7	240	
Anomaly		88-16-45	578835.08	3751684.72				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-109	42-195	578823.3765	3751669.361				
Plan			578823.35	3751669.62	Sideways	0.1	270	
Anomaly		88-16-27	578823.28	3751669.57				
PLS	42-110	42-184	578827.5038	3751661.378				
Plan			578827.38	3751661.55	Sideways	0.2	270	
Anomaly		88-16-21	578827.37	3751661.60				
PLS	42-111	42-194	578837.7799	3751661.105				
Plan			578837.71	3751661.39	Sideways	0.1	150	
Anomaly		88-16-20	578837.64	3751661.41				
PLS	42-112	42-196	578844.1558	3751655.664				
Plan			578844.48	3751656.23	Down	0.5	240	
Anomaly		88-16-15	578844.08	3751655.89				
PLS	42-113	42-115	578839.8565	3751646.537				
Plan			578839.32	3751647.03	Up	0.8	270	
Anomaly		88-16-1116	578839.73	3751646.79				
PLS	42-114	42-117	578832.2227	3751640.329				
Plan			578832.22	3751640.57	Sideways	0.1	0	
Anomaly		88-16-04	578832.15	3751640.52				
PLS	42-115	42-186	578852.8208	3751648.416				
Plan			578852.55	3751648.64	Sideways	0.3	60	
Anomaly		88-16-08	578852.85	3751648.77				
PLS	42-116	42-193	578853.0204	3751657.775				
Plan			578852.39	3751658.00	Down	0.4	330	
Anomaly		88-16-18	578852.86	3751658.06				
PLS	42-117	42-199	578855.5676	3751642.299				
Plan			578855.94	3751642.19	Up	0.9	300	
Anomaly		88-16-06	578855.44	3751642.56				
PLS	42-118	42-182	578869.0729	3751644.864				
Plan			578868.52	3751645.09	Down	0.5	60	
Anomaly		88-16-07	578868.83	3751645.06				
PLS	42-119	42-044	578875.5861	3751653.893				
Plan			578875.95	3751654.29	Down	0.4	30	
Anomaly		88-16-1118	578875.43	3751654.12				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-120	42-177	578861.4295	3751664.526				
Plan			578861.10	3751664.62	Sideways	0.4	240	
Anomaly		88-16-23	578861.46	3751664.82				
PLS	42-121	42-198	578858.5565	3751704.65				
Plan			578858.52	3751704.47	Down	0.4	150	
Anomaly		88-17-109	578858.54	3751704.91				
PLS	42-122	42-033	578865.5732	3751714.431				
Plan			578865.62	3751714.80	Sideways	0.1	240	
Anomaly		88-17-126	578865.51	3751714.67				
PLS	42-123	42-181	578875.36	3751709.50				
Plan			578875.46	3751709.63	Sideways	0.4	210	
Anomaly		88-17-119	578875.54	3751709.41				
PLS	42-124	42-192	578878.2342	3751677.188				
Plan			578877.72	3751677.52	Up	0.6	360	
Anomaly		88-16-38	578878.05	3751677.27				
PLS	42-125	42-057	578886.718	3751674.451				
Plan			578887.08	3751675.10	Sideways	0.9	330	
Anomaly		88-16-33	578886.64	3751674.64				
PLS	42-126	42-106	578880.5677	3751663.368				
Plan			578880.79	3751663.81	Sideways	0.4	60	
Anomaly		88-16-22	578880.38	3751663.54				
PLS	42-127	42-036	578892.1002	3751652.636				
Plan			578891.76	3751652.68	Sideways	0.4	180	
Anomaly		88-16-12	578892.11	3751653.11				
PLS	42-128	42-045	578906.9163	3751655.1				
Plan			578906.60	3751655.58	Down	0.6	60	
Anomaly		89-16-1119	578906.77	3751655.38				
PLS	42-129	42-163	578918.6712	3751657.482				
Plan			578918.54	3751657.35	Up	0.4	30	
Anomaly		89-16-152	578918.40	3751657.30				
PLS	42-130	42-191	578892.9637	3751705.603				
Plan			578893.05	3751705.76	Sideways	0.5	150	
Anomaly		88-17-111	578892.95	3751705.91				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-131	42-032	578880.4419	3751719.958				
Plan			578880.47	3751720.12	Sideways	0.2	330	
Anomaly		88-17-133	578880.45	3751720.03				
PLS	42-132	42-030	578888.6883	3751722.898				
Plan			578888.69	3751723.51	Up	0.5	150	
Anomaly		88-17-135	578888.59	3751723.07				
PLS	42-133	42-031	578895.825	3751716.393				
Plan			578895.63	3751716.73	Down	0.3	240	
Anomaly		88-17-130	578895.74	3751716.61				
PLS	42-134	42-042	578903.151	3751711.927				
Plan			578903.22	3751712.38	Up	1.1	240	
Anomaly		NA	NA	NA				Item Dug Cluster 1383
PLS	42-135	42-197	578913.9051	3751689.264				
Plan			578914.03	3751689.14	Down	0.5	120	
Anomaly		89-16-197	578913.81	3751689.40				
PLS	42-136	42-112	578925.6265	3751692.83				
Plan			578925.80	3751692.69	Down	0.5	240	
Anomaly		89-16-202	578925.52	3751693.07				
PLS	42-137	42-128	578930.6728	3751685.404				
Plan			578930.32	3751685.43	Down	0.3	180	
Anomaly		89-16-189	578930.63	3751685.67				
PLS	42-138	42-048	578919.1108	3751671.033				
Plan			578918.87	3751671.55	Up	0.5	120	
Anomaly		89-16-167	578919.00	3751671.36				
PLS	42-139	42-107	578937.9925	3751672.047				
Plan			578937.58	3751673.33	Sideways	1	180	
Anomaly		89-16-170	578937.93	3751672.35				
PLS	42-140	42-038	578939.5523	3751665.719				
Plan			578939.36	3751666.07	Sideways	0.5	120	
Anomaly		89-16-161	578939.58	3751665.96				
PLS	42-141	42-170	578944.4959	3751656.047				
Plan			578943.88	3751656.06	Sideways	0.7	90	
Anomaly		89-16-149	578944.32	3751656.23				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-142	42-148	578924.2824	3751647.42				
Plan			578924.19	3751647.67	Sideways	0.2	300	
Anomaly		89-16-1117	578924.26	3751647.68				
PLS	42-143	42-037	578959.6112	3751656.782				
Plan			578959.04	3751656.55	Down	0.8	180	
Anomaly		89-16-151	578959.54	3751657.07				
PLS	42-144	42-176	578956.0093	3751667.325				
Plan			578955.98	3751667.52	Sideways	0.2	120	
Anomaly		89-16-162	578955.87	3751667.58				
PLS	42-145	42-069	578949.535	3751675.423				
Plan			578949.36	3751675.75	Sideways	0.2	60	
Anomaly		89-16-173	578949.45	3751675.73				
PLS	42-146	42-119	578947.5026	3751686.194				
Plan			578947.91	3751686.08	Up	0.5	270	
Anomaly		89-16-191	578947.45	3751686.44				
PLS	42-147	42-116	578944.1505	3751700.048				
Plan			578944.20	3751700.11	Sideways	0.4	30	
Anomaly		89-17-250	578944.12	3751700.37				
PLS	42-148	42-173	578942.7197	3751713.419				
Plan			578942.75	3751713.67	Sideways	0.2	330	
Anomaly		89-17-286	578942.68	3751713.58				
PLS	42-149	42-043	578933.0332	3751721.065				
Plan			578932.42	3751721.57	Up	0.5	150	
Anomaly		89-17-304	578932.93	3751721.28				
PLS	42-150	42-040	578929.3776	3751729.955				
Plan			578929.19	3751729.96	Sideways	0.8	30	
Anomaly		89-17-324	578929.38	3751730.14				
PLS	42-151	42-029	578925.1135	3751741.132				
Plan			578925.16	3751741.58	Up	0.4	180	
Anomaly		89-17-342	578925.03	3751741.29				
PLS	42-152	42-111	578943.4488	3751747.538				
Plan			578943.39	3751747.71	Up	0.3	120	
Anomaly		89-17-350	578943.33	3751747.79				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-153	42-076	578954.6519	3751752.304				
Plan			578954.36	3751752.39	Sideways	0.3	330	
Anomaly		89-17-360	578954.73	3751752.44				
PLS	42-154	42-039	578945.0749	3751733.888				
Plan			578945.01	3751734.32	Down	0.5	90	
Anomaly		89-17-331	578944.91	3751734.18				
PLS	42-155	42-047	578954.65	3751729.03				
Plan			578954.85	3751729.64	Down	0.4	30	
Anomaly		89-17-323	NA	NA				
PLS	42-156	42-051	578912.4368	3751715.723				
Plan			578912.57	3751715.76	Down	0.5	180	
Anomaly		89-17-289	578912.27	3751715.97				
PLS	42-157	42-162	579008.64	3751677.01				
Plan			579006.48	3751674.78	Sideways	0.5	270	
Anomaly		90-16-392	579008.45	3751676.63				
PLS	42-158	42-175	579021.9262	3751707.929				
Plan			579022.29	3751707.70	Up	0.5	330	
Anomaly		90-17-415	579021.94	3751707.89				
PLS	42-159	42-129	579003.23	3751694.02				
Plan			579003.09	3751693.98	Sideways	0.3	30	
Anomaly		90-16-402	579003.18	3751693.91				
PLS	42-160	42-028	578980.5517	3751688.18				
Plan			578980.50	3751688.17	Sideways	1.1	90	
Anomaly		89-16-192	578979.78	3751688.08				
PLS	42-161	42-127	578983.9081	3751725.412				
Plan			578983.57	3751725.77	Up	0.3	120	
Anomaly		89-17-315	578983.81	3751725.67				
PLS	42-162	42-058	578960.927	3751725.875				
Plan			578960.66	3751726.09	Sideways	0.3	90	
Anomaly		89-17-314	578960.66	3751726.09				
PLS	42-163	42-161	579003.2335	3751754.426				
Plan			579003.25	3751755.13	Up	1	180	
Anomaly		90-17-430	579003.15	3751754.60				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-164	42-027	578969.7264	3751712.569				
Plan			578970.02	3751712.54	Down	0.4	120	
Anomaly		89-17-283	578969.67	3751712.79				
PLS	42-165	42-104	579028.922	3751624.779				
Plan			579029.23	3751624.76	Sideways	0.3	270	
Anomaly		NA	579034.13	3751631.61				Item Moved Due to Farming
PLS	42-166	42-124	579038.5795	3751619.725				
Plan			579038.11	3751620.08	Up	0.7	90	
Anomaly		90-16-584	579038.53	3751619.74				
PLS	42-167	42-110	579024.4745	3751579.371				
Plan			579024.39	3751579.91	Sideways	0.5	60	
Anomaly		90-15-531	579024.30	3751579.66				
PLS	42-168	42-105	579024.8245	3751594.053				
Plan			579032.62	3751584.75	Down	0.3	150	
Anomaly		90-15-549	579024.75	3751594.31				
PLS	42-169	42-118	579018.7614	3751563.344				
Plan			579018.58	3751563.77	Sideways	0.6	120	
Anomaly		90-15-512	579018.84	3751563.58				
PLS	42-170	42-109	579013.3833	3751552.754				
Plan			579013.26	3751553.12	Sideways	0.3	120	
Anomaly		90-15-491	579013.09	3751553.03				
PLS	42-171	42-081	579033.7012	3751540.775				
Plan			579033.43	3751541.02	Up	0.5	30	
Anomaly		90-15-469	579033.71	3751540.76				
PLS	42-172	42-108	579023.6909	3751542.072				
Plan			579023.75	3751542.15	Sideways	0.1	300	
Anomaly		90-15-472	579023.77	3751542.20				
PLS	42-173	42-102	579057.1551	3751522.299				
Plan			579056.66	3751522.95	Down	1	330	
Anomaly		90-15-444	579056.57	3751522.55				
PLS	42-174	42-133	579067.2294	3751559.593				
Plan			579067.15	3751560.06	Sideways	0.4	210	
Anomaly		90-15-506	579067.04	3751559.69				

Table 5.1
Summary of Seed Item Placement
ESTCP Site 18 - Camp Sibert

Description	Seed No.	Item/Anomaly ID	Northing	Easting	Inclination	Depth to Center (m)	Azimuth	Comments
PLS	42-175	42-121	579042.2492	3751566.238				
Plan			579042.46	3751566.84	Up	0.4	300	
Anomaly		90-15-518	579042.46	3751566.61				
PLS	42-176	42-083	579012.0049	3751611.16				
Plan			579011.64	3751611.69	Down	0.4	90	
Anomaly		90-16-579	579011.79	3751611.42				
PLS	42-177	42-034	578986.7805	3751745.719				
Plan			578986.64	3751745.87	Down	0.9	150	
Anomaly		NA	NA	NA				Item Dug Cluster 1384
PLS	42-178	42-156	579003.231	3751731.994				
Plan			579003.26	3751732.11	Up	0.3	210	
Anomaly		90-17-421	579003.21	3751732.02				
PLS	42-179	42-156	579016.9468	3751727.015				
Plan			579016.83	3751727.33	Sideways	0.5	60	
Anomaly		90-17-420	579016.85	3751727.24				
PLS	42-180	42-122	579030.9089	3751694.076				
Plan			579030.78	3751694.27	Up	0.3	150	
Anomaly		90-16-404	579031.05	3751693.88				
PLS	42-181	42-143	579004.9543	3751703.433				
Plan			579005.17	3751703.44	Up	0.4	330	
Anomaly		90-17-1127	579004.91	3751703.46				

Notes:

PLS - Public Land Surveyor

Table 7.1
Mag-n-Flag Anomalies
ESTCP Site 18 - Camp Sibert

Mag-n-Flag ID	Easting	Northing	ESTCP Anomaly ID
mf-1	578926.909	3751704.68	261
mf-2	578926.394	3751702.46	253
mf-3	578925.581	3751693.25	202
mf-4	578930.557	3751685.49	189
mf-5	578930.589	3751696.58	1100
mf-6	578930.214	3751701.24	1091
mf-7	578931.196	3751702.45	373
mf-8	578934.53	3751708.86	275
mf-9	578935.47	3751708.05	1086
mf-10	578933.549	3751706.01	267
mf-11	578933.98	3751705.18	1087
mf-12	578934.185	3751699.78	1099
mf-13	578934.26	3751696.14	1101
mf-14	578932.774	3751693.58	203
mf-15	578934.755	3751692.13	1107
mf-16	578936.247	3751695.5	1102
mf-17	578935.901	3751697.44	1103
mf-18	578936.027	3751703.06	1088
mf-19	578936.966	3751704.28	1089
mf-20	578938.07	3751704.41	1090
mf-21	578938.19	3751702.36	254
mf-22	578937.629	3751695.92	1104
mf-23	578937.875	3751695.67	1105
mf-24	578937.064	3751693.33	1106
mf-25	578938.684	3751691	199
mf-26	578938.842	3751691.04	199
mf-27	578938.361	3751686.08	190
mf-28	578944.494	3751684.94	1111
mf-29	578943.587	3751690.17	1109
mf-30	578942.429	3751690.12	1108
mf-31	578947.439	3751686.34	191
mf-32	578946.098	3751694.23	205
mf-33	578943.915	3751700.17	250
mf-34	578943.154	3751704.85	262
mf-35	578943.585	3751707.99	1092
mf-36	578943.502	3751709.77	1093
mf-37	578946.735	3751707.82	1094
mf-38	578948.534	3751703.19	1095
mf-39	578948.129	3751695.87	209
mf-40	578949.916	3751691.48	1110
mf-41	578950.158	3751686.07	1112
mf-42	578951.583	3751687.64	1113
mf-43	578953.546	3751686.98	1114
mf-44	578954.683	3751687.06	1115
mf-45	578949.966	3751704.28	259
mf-46	578950.247	3751705.83	1096
mf-47	578954.219	3751703.86	1097
mf-48	578954.595	3751704.31	1098
mf-49	578953.799	3751702.56	255
mf-50	578953.85	3751699.84	234

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/20/07 10:08 AM	1	88-16-01		15	8	0	90	Scrap Metal	3	13	Actual	Cultural	578835.26	3751636.53	578835.27	3751636.73	-0.006	-0.195
6/25/07 3:53 PM	2	88-16-02		20	3	0	0	Rock	2	4	Actual	Rock	578859.89	3751638.46	578859.89	3751638.38	-0.001	0.083
6/20/07 2:19 PM	3	88-16-03		14	18	-45	340	Frag	1	6	Actual	MD	578833.88	3751639.17	578833.87	3751639.12	0.01	0.053
6/20/07 10:06 AM	4	88-16-04		21	12	0	10	Seeds	11	45	Actual	Seed Item	578832.01	3751640.53	578832.15	3751640.52	-0.14	0.011
6/20/07 10:10 AM	5	88-16-05		2	2	0	0	Rock	2	2	Approximate	Rock	578840.12	3751640.45	578840.12	3751640.35	0	0.1
6/20/07 1:53 PM	6	88-16-06		84	90	90	0	Seeds	11	45	Actual	Seed Item	578855.42	3751642.51	578855.44	3751642.56	-0.022	-0.051
6/20/07 11:31 AM	7	88-16-07		48	60	-45	60	Seeds	10	45	Actual	Seed Item	578868.90	3751645.04	578868.83	3751645.06	0.072	-0.017
6/20/07 11:28 AM	8	88-16-08		42	30	0	40	Seeds	8	45	Actual	Seed Item	578852.69	3751648.68	578852.85	3751648.77	-0.156	-0.085
6/20/07 10:04 AM	9	88-16-09		17	12	0	240	Frag	3	12	Actual	MD	578832.78	3751649.25	578832.81	3751649.24	-0.031	0.013
6/20/07 10:18 AM	10	88-16-10		10	10	0	110	Frag	2	8	Actual	MD	578845.80	3751650.85	578845.60	3751650.95	0.201	-0.097
6/20/07 11:35 AM	11	88-16-11		14	15	0	170	Scrap Metal	4	13	Actual	Cultural	578883.69	3751652.06	578883.70	3751652.05	-0.013	0.015
6/20/07 1:29 PM	12	88-16-12		49	30	0	180	Seeds	9	45	Actual	Seed Item	578891.99	3751652.93	578892.11	3751653.11	-0.116	-0.179
6/20/07 11:26 AM	13	88-16-13		8	8	-45	120	Frag	2	9	Actual	MD	578855.82	3751654.40	578855.82	3751654.29	0	0.108
6/20/07 10:03 AM	14	88-16-14		12	8	-45	350	Frag	2	11	Actual	MD	578839.02	3751655.21	578839.13	3751655.25	-0.109	-0.043
6/20/07 10:19 AM	15	88-16-15		42	60	-90	0	Seeds	12	45	Actual	Seed Item	578844.09	3751655.92	578844.08	3751655.89	0.015	0.031
6/20/07 11:37 AM	16	88-16-16		6	2	-90	0	Scrap Metal	5	28	Actual	Cultural	578881.52	3751656.35	578881.52	3751656.31	0.001	0.044
6/20/07 11:24 AM	17	88-16-17		14	15	-45	60	Frag	3	8	Actual	MD	578857.84	3751656.79	578857.80	3751656.81	0.036	-0.021
6/20/07 11:22 AM	18	88-16-18		43	45	-90	0	Seeds	11	45	Actual	Seed Item	578852.92	3751657.95	578852.86	3751658.06	0.062	-0.109
6/20/07 11:39 AM	19	88-16-19		12	5	0	180	Halfshell	8	31	Actual	MD	578886.68	3751658.98	578886.63	3751658.97	0.048	0.014
6/20/07 10:01 AM	20	88-16-20		23	11	0	160	Seeds	11	45	Actual	Seed Item	578837.66	3751661.37	578837.64	3751661.41	0.018	-0.041
6/20/07 9:55 AM	21	88-16-21		32	25	0	250	Seeds	9	45	Actual	Seed Item	578827.44	3751661.56	578827.37	3751661.60	0.074	-0.036
6/20/07 11:40 AM	22	88-16-22		41	40	-45	20	Seeds	11	45	Actual	Seed Item	578880.35	3751663.52	578880.38	3751663.54	-0.033	-0.019
6/20/07 2:28 PM	23	88-16-23		50	30	-45	180	Seeds	8	45	Approximate	Seed Item	578861.36	3751664.72	578861.46	3751664.82	-0.098	-0.095
6/20/07 10:21 AM	24	88-16-24		7	5	0	60	Nose Frag	3	7	Actual	MD	578841.04	3751665.49	578841.09	3751665.50	-0.048	-0.005
6/20/07 9:58 AM	25	88-16-25		22	24	-45	310	Nose Frag	5	7	Actual	MD	578830.49	3751666.37	578830.40	3751666.30	0.091	0.066
6/21/07 1:16 PM	26	88-16-26		17	13	0	0	Frag	3	9	Actual	MD	578866.90	3751667.30	578866.86	3751667.53	0.04	-0.226
6/20/07 9:53 AM	27	88-16-27		20	5	0	270	Seeds	12	45	Actual	Seed Item	578823.32	3751669.60	578823.28	3751669.57	0.042	0.031
6/21/07 1:10 PM	28	88-16-28		26	15	-60	190	Frag	2	7	Actual	MD	578851.37	3751669.66	578851.45	3751669.79	-0.084	-0.129
6/21/07 1:22 PM	29	88-16-29		75	105	0	0	Soils	4	0	Actual	Soils	578862.20	3751669.92	578862.14	3751670.13	0.057	-0.211
6/20/07 10:24 AM	30	88-16-30		23	16	0	0	Frag	3	9	Actual	MD	578831.72	3751672.36	578831.82	3751672.44	-0.104	-0.077
6/20/07 11:43 AM	31	88-16-31		15	10	0	40	Frag	6	10	Actual	MD	578898.56	3751672.70	578898.31	3751672.84	0.247	-0.136
6/20/07 10:23 AM	32	88-16-32		15	17	0	80	Frag	4	11	Actual	MD	578834.85	3751673.46	578834.93	3751673.39	-0.082	0.072
6/21/07 1:35 PM	33	88-16-33		105	105	-45	340	Seeds	10	45	Actual	Seed Item	578886.70	3751674.65	578886.64	3751674.64	0.065	0.011
6/20/07 10:29 AM	34	88-16-34		29	23	-90	160	Scrap Metal	3	8	Actual	Cultural	578819.30	3751674.47	578819.30	3751674.52	-0.001	-0.047
6/21/07 1:09 PM	35	88-16-35		7	9	0	260	Frag	2	8	Actual	MD	578856.58	3751675.89	578856.75	3751675.93	-0.166	-0.038
6/21/07 1:17 PM	36	88-16-36		18	8	0	0	Frag	2	4	Approximate	MD	578870.65	3751676.54	578870.53	3751676.43	0.12	0.111
6/20/07 11:18 AM	37	88-16-37		14	10	0	160	Frag	7	17	Actual	MD	578838.12	3751676.66	578838.12	3751676.71	-0.004	-0.048
6/21/07 1:32 PM	38	88-16-38		59	50	90	0	Seeds	11	45	Approximate	Seed Item	578878.16	3751677.46	578878.05	3751677.27	0.107	0.191
6/21/07 1:08 PM	39	88-16-39		14	3	-45	260	Frag	4	8	Actual	MD	578857.27	3751678.30	578857.34	3751678.33	-0.067	-0.025
6/21/07 8:38 AM	40	88-16-40		35	34	-45	170	Frag	4	9	Actual	MD	578889.99	3751681.42	578890.10	3751681.48	-0.112	-0.064
6/21/07 10:17 AM	41	88-16-41		14	10	0	160	Frag	4	11	Actual	MD	578851.17	3751681.89	578851.15	3751682.09	0.017	-0.195
6/20/07 10:32 AM	42	88-16-42		9	11	0	150	Frag	2	9	Actual	MD	578822.30	3751683.78	578822.28	3751683.77	0.024	0.01
6/21/07 8:48 AM	43	88-16-43		26	22	0	290	Frag	5	16	Actual	MD	578899.30	3751684.42	578899.33	3751684.67	-0.031	-0.254
6/21/07 8:43 AM	44	88-16-44		14	6	0	300	Scrap Metal	3	12	Actual	Cultural	578889.89	3751684.55	578889.96	3751684.45	-0.069	0.099
6/20/07 2:37 PM	45	88-16-45		60	62	-45	270	Seeds	9	45	Actual	Seed Item	578834.97	3751684.66	578835.08	3751684.72	-0.111	-0.055

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/21/07 8:33 AM	46	88-16-46		11	6	0	0	Frag	3	13	Actual	MD	578879.90	3751684.70	578879.92	3751684.74	-0.022	-0.041
6/21/07 10:22 AM	47	88-16-47		34	26	-45	310	Nose Frag	3	7	Actual	MD	578862.84	3751684.96	578862.94	3751684.94	-0.104	0.017
6/21/07 8:45 AM	48	88-16-48		22	25	-45	70	Frag	3	9	Actual	MD	578892.28	3751685.30	578892.30	3751685.43	-0.02	-0.134
6/21/07 8:57 AM	49	88-16-49		19	10	-60	320	Frag	3	16	Actual	MD	578888.59	3751686.18	578888.57	3751686.25	0.018	-0.072
6/20/07 10:34 AM	50	88-16-50		24	24	0	110	Frag	3	8	Actual	MD	578816.23	3751686.41	578816.25	3751686.43	-0.018	-0.015
6/21/07 10:20 AM	51	88-16-51		23	28	-90	0	Baseplate	3	11	Actual	MD	578852.03	3751687.33	578851.86	3751687.40	0.171	-0.069
6/21/07 9:57 AM	52	88-16-52		15	4	-90	80	Frag	3	10	Actual	MD	578867.69	3751688.28	578867.65	3751688.21	0.038	0.07
6/20/07 10:35 AM	53	88-16-53		13	14	-90	260	Scrap Metal	2	12	Actual	Cultural	578830.86	3751688.77	578830.85	3751688.87	0.011	-0.098
6/21/07 8:52 AM	54	88-16-54		0	5	0	180	Frag	1	9	Actual	MD	578899.01	3751690.26	578898.89	3751690.16	0.116	0.105
6/21/07 8:51 AM	55	88-16-55		10	6	-90	90	Scrap Metal	3	8	Actual	Cultural	578893.65	3751690.12	578893.73	3751690.23	-0.078	-0.114
6/21/07 10:03 AM	56	88-16-56		52	42	-45	260	Frag	4	11	Actual	MD	578866.14	3751691.26	578866.18	3751691.39	-0.044	-0.133
6/20/07 2:40 PM	57	88-16-57		79	120	-45	180	Seeds	9	45	Approximate	Seed Item	578820.34	3751692.14	578820.47	3751692.37	-0.133	-0.226
6/20/07 11:15 AM	58	88-16-58		17	11	0	0	Frag	2	13	Actual	MD	578838.49	3751692.10	578838.48	3751692.14	0.009	-0.039
6/21/07 10:05 AM	59	88-16-59		11	8	-90	50	Baseplate	5	11	Actual	MD	578858.49	3751692.05	578858.37	3751692.01	0.117	0.043
6/21/07 10:13 AM	60	88-16-60		22	7	0	0	Scrap Metal	2	12	Actual	Cultural	578844.02	3751693.20	578843.83	3751693.17	0.189	0.029
6/21/07 1:00 PM	61	88-16-61		44	74	0	0	Soils	3	0	Actual	Soils	578876.15	3751693.79	578876.02	3751693.85	0.128	-0.061
6/21/07 9:14 AM	62	88-16-62		53	83	0	0	Soils	6	0	Actual	Soils	578878.54	3751694.92	578878.13	3751694.44	0.407	0.484
6/20/07 10:39 AM	63	88-16-63		10	14	-45	170	Frag	2	12	Actual	MD	578817.45	3751695.81	578817.41	3751695.89	0.037	-0.084
6/20/07 10:42 AM	64	88-16-64		19	15	-90	350	Scrap Metal	5	20	Actual	Cultural	578814.45	3751695.82	578814.45	3751695.79	-0.001	0.033
6/21/07 10:07 AM	65	88-16-65		12	2	0	0	Frag	2	3	Actual	MD	578856.46	3751695.78	578856.42	3751695.93	0.04	-0.145
6/21/07 10:08 AM	66	88-16-66		24	25	-90	180	Frag	3	9	Actual	MD	578853.89	3751696.97	578853.95	3751696.96	-0.06	0.012
6/20/07 11:13 AM	67	88-16-67		13	17	0	330	Scrap Metal	2	13	Actual	Cultural	578814.49	3751698.52	578814.55	3751698.51	-0.062	0.006
6/21/07 10:10 AM	68	88-16-68		13	11	0	60	Frag	3	9	Actual	MD	578847.56	3751698.39	578847.59	3751698.36	-0.029	0.034
6/21/07 9:59 AM	69	88-16-69		12	15	0	120	Frag	2	4	Actual	MD	578864.67	3751698.59	578864.66	3751698.50	0.007	0.089
6/21/07 9:50 AM	70	88-16-70		13	12	0	100	Frag	4	7	Actual	MD	578875.81	3751698.69	578875.83	3751698.65	-0.024	0.043
6/20/07 11:33 AM	71	88-16-71		23	9	0	310	Frag	1	12	Actual	MD	578871.37	3751642.32	578871.22	3751642.13	0.148	0.189
6/20/07 10:15 AM	72	88-16-72		-4	4	0	90	Scrap Metal	1	8	Actual	Cultural	578842.32	3751644.07	578842.01	3751644.01	0.314	0.065
6/21/07 1:12 PM	73	88-16-73		24	8	-90	280	Scrap Metal	2	5	Actual	Cultural	578870.95	3751663.56	578870.90	3751663.61	0.051	-0.048
6/20/07 10:28 AM	74	88-16-74		15	8	0	170	Frag	1	6	Actual	MD	578822.49	3751674.39	578822.75	3751674.49	-0.257	-0.104
6/21/07 10:15 AM	75	88-16-75		2	1	0	0	Rock	1	2	Actual	Rock	578848.42	3751689.52	578848.44	3751689.58	-0.015	-0.058
6/21/07 9:52 AM	76	88-16-76		35	18	-45	80	Frag	2	11	Actual	MD	578872.15	3751691.72	578872.10	3751691.80	0.054	-0.081
6/21/07 8:54 AM	77	88-16-77		16	30	-30	300	Frag	1	10	Actual	MD	578895.69	3751698.38	578895.59	3751698.41	0.1	-0.028
6/20/07 2:11 PM	78	88-16-78		98	128	0	0	Soils	5	0	Actual	Soils	578844.70	3751635.70	578844.17	3751636.07	0.526	-0.37
6/21/07 11:36 AM	79	88-16-79		8	38	0	0	Soils	2	0	Actual	Soils	578819.90	3751684.79	578819.88	3751684.95	0.02	-0.155
6/20/07 1:47 PM	80	88-16-80		43	73	0	0	Soils	4	0	Actual	Soils	578854.91	3751645.74	578854.79	3751645.37	0.125	0.37
6/20/07 11:16 AM	81	88-16-81		33	10	0	50	Frag	1	6	Actual	MD	578837.41	3751689.51	578837.58	3751689.33	-0.171	0.178
6/20/07 1:35 PM	82	88-16-82		223	253	0	0	Soils	9	0	Actual	Soils	578857.01	3751645.31	578857.39	3751645.17	-0.377	0.141
6/21/07 9:05 AM	83	88-16-83		92	9	0	0	Scrap Metal	10	4	Actual	Cultural	578877.34	3751690.91	578877.39	3751690.91	-0.045	-0.002
6/21/07 8:55 AM	84	88-16-84		63	5	0	120	Frag	5	5	Actual	MD	578894.48	3751692.60	578894.66	3751692.52	-0.183	0.078
6/21/07 9:00 AM	85	88-16-85		27	10	0	0	Scrap Metal	2	5	Actual	Cultural	578889.85	3751693.19	578889.61	3751693.13	0.243	0.057
6/21/07 10:28 AM	86	88-16-86		144	30	0	0	Frag	12	8	Approximate	MD	578845.96	3751694.21	578845.47	3751694.06	0.495	0.155
6/21/07 11:19 AM	87	88-17-87		47	77	0	0	Soils	2	0	Actual	Soils	578811.62	3751698.91	578811.87	3751699.38	-0.246	-0.468
6/20/07 10:13 AM	88	88-16-88		4	34	0	0	Soils	1	0	Actual	Soils	578847.09	3751635.57	578847.00	3751635.59	0.091	-0.018
6/20/07 2:31 PM	89	88-16-89		116	10	0	150	Frag	12	9	Actual	MD	578863.67	3751673.67	578863.80	3751674.03	-0.126	-0.361
6/20/07 10:26 AM	90	88-16-90		-12	12	0	180	Frag	0	7	Actual	MD	578826.56	3751675.22	578826.72	3751675.08	-0.157	0.143

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
8/1/07 12:29 PM	91	88-16-91		12	1	0	110	Scrap Metal	1	4	Actual	Cultural	578857.42	3751637.67	578857.41	3751637.72	0.01	-0.05
6/20/07 11:20 AM	92	88-16-92		8	28	0	80	Frag	1	7	Actual	MD	578846.32	3751660.42	578846.36	3751660.34	-0.038	0.08
6/20/07 2:02 PM	93	88-16-93		143	173	0	0	Soils	7	0	Actual	Soils	578847.42	3751638.89	578846.92	3751639.08	0.501	-0.189
6/21/07 11:38 AM	94	88-16-94		46	9	0	0	Rock	2	3	Actual	Rock	578817.78	3751678.05	578817.72	3751678.43	0.056	-0.382
6/20/07 1:56 PM	95	88-16-95		31	61	0	0	Soils	3	0	Actual	Soils	578850.85	3751643.33	578850.51	3751643.27	0.342	0.058
6/21/07 1:06 PM	96	88-16-96		32	10	-90	40	Scrap Metal	0	6	Actual	Cultural	578860.85	3751680.92	578860.86	3751680.93	-0.005	-0.013
6/7/07 12:18 PM	97	88-17-97		10	3	-90	110	Frag	3	8	Actual	MD	578845.65	3751700.25	578845.50	3751700.40	0.149	-0.154
6/11/07 11:38 AM	98	88-17-98		18	12	0	260	Frag	2	6	Actual	MD	578883.79	3751700.21	578883.77	3751700.26	0.016	-0.051
6/7/07 11:56 AM	99	88-17-99		50	30	0	0	No Contact	3	0	Actual	No Contacts	578823.81	3751700.65	578823.52	3751700.55	0.293	0.102
6/11/07 11:31 AM	100	88-17-100		24	2	0	120	Scrap Metal	2	7	Actual	Cultural	578892.03	3751700.86	578892.21	3751700.93	-0.183	-0.072
6/7/07 2:48 PM	101	88-17-101		28	30	-90	30	Seeds	10	45	Actual	Seed Item	578840.12	3751701.33	578840.10	3751701.29	0.02	0.037
6/7/07 1:31 PM	102	88-17-102		8	9	0	270	Frag	4	18	Actual	MD	578869.28	3751701.43	578869.34	3751701.48	-0.063	-0.048
6/7/07 2:42 PM	103	88-17-103		46	30	90	0	Seeds	12	45	Actual	Seed Item	578831.89	3751701.61	578831.88	3751701.57	0.014	0.04
6/11/07 12:13 PM	104	88-17-104		12	5	0	0	Nose Frag	2	7	Actual	MD	578898.55	3751702.24	578898.55	3751702.21	-0.001	0.034
6/7/07 11:51 AM	105	88-17-105		20	18	0	320	Frag	4	9	Actual	MD	578817.62	3751702.12	578817.63	3751702.32	-0.012	-0.199
6/7/07 11:53 AM	106	88-17-106		10	2	0	320	Scrap Metal	2	13	Actual	Cultural	578821.64	3751702.88	578821.66	3751702.89	-0.015	-0.011
6/7/07 11:45 AM	107	88-17-107		18	14	0	0	Rock	2	4	Actual	Rock	578813.58	3751703.01	578813.27	3751703.14	0.311	-0.128
6/11/07 11:35 AM	108	88-17-108		39	32	0	320	Baseplate	6	11	Actual	MD	578889.42	3751703.78	578889.43	3751703.77	-0.012	0.015
6/7/07 2:49 PM	109	88-17-109		27	30	90	150	Seeds	11	45	Actual	Seed Item	578858.43	3751704.86	578858.54	3751704.91	-0.106	-0.048
6/11/07 11:49 AM	110	88-17-110		6	9	0	120	Frag	2	7	Actual	MD	578898.52	3751705.49	578898.58	3751705.51	-0.06	-0.018
6/14/07 9:49 AM	111	88-17-111		57	40	0	-90	Seeds	8	45	Actual	Seed Item	578892.81	3751705.87	578892.95	3751705.91	-0.143	-0.037
6/7/07 12:06 PM	112	88-17-112		19	20	0	185	Frag	3	9	Actual	MD	578830.17	3751705.98	578830.22	3751706.16	-0.054	-0.184
6/7/07 12:12 PM	113	88-17-113		28	14	-90	290	Frag	3	10	Actual	MD	578834.67	3751706.37	578834.64	3751706.29	0.035	0.084
6/7/07 11:41 AM	114	88-17-114		11	0	-90	0	Scrap Metal	7	10	Actual	Corner Stake	578807.07	3751707.01	578807.05	3751706.95	0.019	0.061
6/7/07 12:16 PM	115	88-17-115		8	0	0	0	Scrap Metal	3	30	Actual	Cultural	578835.69	3751709.44	578835.67	3751709.39	0.02	0.055
6/7/07 1:33 PM	116	88-17-116		48	23	0	0	Rock	3	4	Actual	Rock	578868.76	3751709.59	578868.79	3751709.63	-0.034	-0.043
6/11/07 11:44 AM	117	88-17-117		23	23	-90	250	Frag	4	9	Actual	MD	578880.82	3751709.86	578880.80	3751709.80	0.019	0.057
6/11/07 11:42 AM	118	88-17-118		15	7	0	0	Frag	2	5	Actual	MD	578886.84	3751709.52	578886.87	3751709.48	-0.034	0.044
6/7/07 2:51 PM	119	88-17-119		53	30	0	50	Seeds	8	45	Approximate	Seed Item	578875.28	3751709.80	578875.54	3751709.41	-0.256	0.39
6/7/07 12:00 PM	120	88-17-120		12	12	0	120	Frag	2	7	Actual	MD	578823.29	3751709.89	578823.29	3751709.85	0	0.04
6/7/07 2:44 PM	121	88-17-121		44	30	-10	40	Seeds	8	45	Actual	Seed Item	578831.94	3751710.63	578831.83	3751710.62	0.107	0.015
6/7/07 2:47 PM	122	88-17-122		55	40	10	320	Seeds	9	45	Actual	Seed Item	578843.57	3751711.49	578843.70	3751711.49	-0.133	-0.004
6/7/07 1:26 PM	123	88-17-123		8	3	0	0	Rock	1	2	Actual	Rock	578861.03	3751711.41	578861.07	3751711.51	-0.041	-0.103
6/7/07 3:11 PM	124	88-17-124		8	1	0	100	Scrap Metal	3	15	Actual	Cultural	578881.25	3751711.93	578881.31	3751711.88	-0.061	0.049
6/7/07 12:04 PM	125	88-17-125		2	1	0	310	Frag	1	5	Actual	MD	578831.16	3751714.42	578831.34	3751714.53	-0.178	-0.111
6/7/07 1:35 PM	126	88-17-126		29	9	0	220	Seeds	9	45	Actual	Seed Item	578865.47	3751714.67	578865.51	3751714.67	-0.039	0.004
6/7/07 12:21 PM	127	88-17-127		10	5	-45	280	Frag	2	8	Actual	MD	578850.34	3751714.91	578850.31	3751714.85	0.03	0.056
6/7/07 3:09 PM	128	88-17-128		1	5	0	310	Frag	1	8	Actual	MD	578884.03	3751714.97	578884.16	3751714.96	-0.13	0.011
6/7/07 1:41 PM	129	88-17-129		15	30	0	0	No Contact	2	0	Actual	No Contacts	578872.69	3751716.38	578872.70	3751716.32	-0.008	0.063
6/14/07 9:50 AM	130	88-17-130		23	24	220	-80	Seeds	13	45	Actual	Seed Item	578895.68	3751716.63	578895.74	3751716.61	-0.061	0.017
6/7/07 1:21 PM	131	88-17-131		10	11	0	250	Frag	2	8	Actual	MD	578854.22	3751717.28	578854.19	3751717.17	0.027	0.111
6/7/07 12:22 PM	132	88-17-132		14	13	0	160	Frag	2	9	Actual	MD	578848.97	3751719.86	578849.03	3751719.80	-0.06	0.065
6/7/07 2:58 PM	133	88-17-133		32	20	-45	320	Seeds	12	45	Actual	Seed Item	578880.32	3751720.13	578880.45	3751720.03	-0.131	0.102
6/7/07 1:38 PM	134	88-17-134		14	14	0	20	Frag	2	5	Actual	MD	578866.54	3751721.84	578866.54	3751721.84	0.004	-0.002
6/14/07 9:54 AM	135	88-17-135		61	50	0	90	Seeds	12	45	Actual	Seed Item	578888.55	3751723.23	578888.59	3751723.07	-0.04	0.161

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/7/07 1:24 PM	136	88-17-136		15	2	0	230	Frag	2	10	Actual	MD	578857.17	3751723.38	578856.95	3751723.55	0.219	-0.171
6/7/07 2:59 PM	137	88-17-137		-100	30	0	0	No Contact	-100	0	Actual	No Contacts	578887.00	3751728.50	578886.95	3751728.61	0.049	-0.109
6/7/07 3:01 PM	138	88-17-138		10	8	0	0	Frag	2	7	Actual	MD	578888.67	3751730.28	578888.65	3751730.29	0.02	-0.009
6/7/07 3:05 PM	139	88-17-139		12	6	0	180	Scrap Metal	4	50	Actual	Cultural	578893.71	3751730.94	578893.65	3751731.12	0.065	-0.176
6/7/07 11:43 AM	140	88-17-140		120	8	-90	0	Scrap Metal	15	23	Actual	Cultural	578809.54	3751700.01	578809.44	3751699.93	0.1	0.081
6/7/07 11:58 AM	141	88-17-141		2	0	0	0	No Contact	1	0	Actual	No Contacts	578826.58	3751702.28	578826.34	3751702.41	0.245	-0.13
6/7/07 1:28 PM	142	88-17-142		23	2	0	0	Rock	2	1	Actual	Rock	578858.27	3751701.89	578857.98	3751701.87	0.289	0.022
6/11/07 11:51 AM	143	88-17-143		9	8	-90	60	Frag	1	6	Actual	MD	578896.03	3751702.79	578896.06	3751703.15	-0.026	-0.355
6/7/07 12:26 PM	144	88-17-144		42	30	0	0	No Contact	3	0	Actual	No Contacts	578851.75	3751718.03	578851.66	3751718.04	0.092	-0.012
6/7/07 2:55 PM	145	88-17-145		-9	9	0	120	Frag	1	8	Actual	MD	578876.49	3751718.10	578876.62	3751718.43	-0.13	-0.332
6/7/07 1:37 PM	146	88-17-146		4	30	0	0	No Contact	3	0	Actual	No Contacts	578865.61	3751719.15	578865.57	3751718.99	0.04	0.156
6/7/07 3:07 PM	147	88-17-147		2	14	-45	120	Frag	0	8	Actual	MD	578887.73	3751719.47	578887.80	3751719.49	-0.072	-0.022
6/6/07 11:31 AM	148	89-16-148		9	2	0	110	Frag	1	8	Actual	MD	578901.74	3751653.17	578901.70	3751653.13	0.04	0.044
6/11/07 11:22 AM	148	89-16-148		9	2	0	0	Rock	1	2	Actual	Rock	578901.74	3751653.17	578901.85	3751653.13	-0.105	0.037
6/7/07 9:36 AM	149	89-16-149		70	65	10	100	Seeds	7	45	Actual	Seed Item	578944.35	3751656.19	578944.32	3751656.23	0.034	-0.04
6/6/07 11:03 AM	150	89-16-150		23	18	-90	250	Frag	3	8	Actual	MD	578966.23	3751655.84	578966.43	3751656.00	-0.198	-0.163
6/7/07 9:32 AM	151	89-16-151		70	80	-90	240	Seeds	10	45	Actual	Seed Item	578959.50	3751656.95	578959.54	3751657.07	-0.042	-0.115
6/7/07 9:47 AM	152	89-16-152		43	20	-45	20	Seeds	11	45	Actual	Seed Item	578918.60	3751657.65	578918.40	3751657.30	0.204	0.347
6/6/07 10:27 AM	153	89-16-153		18	6	0	0	Frag	3	3	Actual	MD	578976.98	3751659.19	578976.89	3751659.39	0.088	-0.203
6/6/07 11:16 AM	154	89-16-154		50	30	0	0	Soils	5	0	Actual	Soils	578930.72	3751659.54	Soils			
6/6/07 11:14 AM	155	89-16-155		9	3	-90	75	Frag	2	7	Actual	MD	578936.37	3751660.24	578936.34	3751660.26	0.026	-0.015
6/6/07 11:10 AM	156	89-16-156		11	6	0	190	Halfshell	9	34	Actual	MD	578947.94	3751662.69	578947.88	3751662.71	0.061	-0.019
6/6/07 11:08 AM	157	89-16-157		7	7	-25	60	Scrap Metal	3	12	Actual	Cultural	578964.09	3751662.90	578963.98	3751662.84	0.111	0.06
6/6/07 11:24 AM	158	89-16-158		16	10	-45	70	Frag	6	19	Actual	MD	578914.01	3751663.42	578913.98	3751663.42	0.029	-0.003
6/6/07 11:00 AM	159	89-16-159		38	12	0	120	Frag	3	6	Actual	MD	578972.40	3751665.47	578972.50	3751665.57	-0.097	-0.1
6/6/07 10:24 AM	160	89-16-160		14	4	0	120	Frag	3	10	Actual	MD	578986.34	3751665.47	578986.28	3751665.39	0.065	0.082
6/7/07 9:37 AM	161	89-16-161		60	47	45	110	Seeds	11	45	Actual	Seed Item	578939.43	3751665.95	578939.58	3751665.96	-0.15	-0.012
6/7/07 9:34 AM	162	89-16-162		34	20	0	120	Seeds	10	45	Actual	Seed Item	578955.89	3751667.60	578955.87	3751667.58	0.025	0.018
6/6/07 11:21 AM	163	89-16-163		50	30	0	0	Soils	3	0	Actual	Soils	578917.37	3751668.14	Soils			
6/6/07 1:47 PM	164	89-16-164		12	6	-45	110	Halfshell	11	32	Actual	MD	578971.66	3751669.46	578971.73	3751669.36	-0.071	0.105
6/6/07 1:45 PM	165	89-16-165		9	1	0	100	Frag	4	6	Actual	MD	578975.54	3751669.71	578975.57	3751669.73	-0.032	-0.016
6/6/07 1:52 PM	166	89-16-166		27	6	0	220	Frag	3	11	Actual	MD	578962.69	3751671.22	578962.71	3751671.05	-0.02	0.175
6/7/07 9:49 AM	167	89-16-167		48	47	80	90	Seeds	11	45	Actual	Seed Item	578918.97	3751671.24	578919.00	3751671.36	-0.03	-0.121
6/6/07 11:29 AM	168	89-16-168		15	4	0	180	Frag	2	4	Actual	MD	578912.74	3751671.69	578912.64	3751671.72	0.097	-0.025
6/6/07 1:42 PM	169	89-16-169		11	10	0	170	Frag	2	5	Actual	MD	578973.65	3751671.46	578973.57	3751671.74	0.081	-0.284
6/7/07 9:39 AM	170	89-16-170		66	100	-45	150	Seeds	5	45	Actual	Seed Item	578937.85	3751672.23	578937.93	3751672.35	-0.075	-0.121
6/6/07 1:40 PM	171	89-16-171		6	9	0	125	Frag	1	8	Actual	MD	578966.51	3751672.20	578966.44	3751672.12	0.069	0.081
6/7/07 9:40 AM	172	89-16-172		39	23	0	0	Nose Frag	6	7	Actual	MD	578945.01	3751673.15	578945.03	3751673.17	-0.015	-0.023
6/6/07 1:21 PM	173	89-16-173		29	19	0	60	Seeds	8	45	Actual	Seed Item	578949.40	3751675.64	578949.45	3751675.73	-0.052	-0.089
6/6/07 11:40 AM	174	89-16-174		10	5	0	100	Scrap Metal	2	4	Actual	Cultural	578914.28	3751677.18	578914.22	3751677.25	0.057	-0.07
6/6/07 1:34 PM	175	89-16-175		16	14	45	45	Nose Frag	3	7	Actual	MD	578960.76	3751677.64	578960.81	3751677.62	-0.05	0.02
6/6/07 11:38 AM	176	89-16-176		9	2	0	320	Frag	4	16	Actual	MD	578909.83	3751677.86	578909.85	3751677.95	-0.019	-0.091
6/6/07 1:37 PM	177	89-16-177		18	11	-45	260	Frag	3	16	Actual	MD	578968.40	3751678.08	578968.51	3751678.02	-0.106	0.059
6/6/07 1:27 PM	178	89-16-178		26	8	0	320	Frag	2	3	Actual	MD	578953.26	3751678.20	578953.39	3751678.33	-0.132	-0.126
6/6/07 11:34 AM	179	89-16-179		13	8	0	165	Frag	3	10	Actual	MD	578904.15	3751679.00	578904.12	3751678.94	0.033	0.063

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/6/07 1:29 PM	180	89-16-180		14	0	0	310	Baseplate	5	11	Actual	MD	578956.24	3751678.90	578956.23	3751678.94	0.014	-0.044
6/6/07 11:51 AM	181	89-16-181		30	29	-90	40	Frag	6	18	Actual	MD	578944.71	3751679.05	578944.77	3751679.04	-0.064	0.011
6/6/07 11:48 AM	182	89-16-182		9	6	-45	220	Frag	7	17	Actual	MD	578939.87	3751679.25	578939.81	3751679.33	0.059	-0.078
6/6/07 10:18 AM	183	89-16-183		18	12	-45	75	Halfshell	12	30	Actual	MD	578993.56	3751679.23	578993.54	3751679.24	0.023	-0.012
6/6/07 10:14 AM	184	89-16-184		24	14	-45	210	Frag	6	24	Actual	MD	578988.68	3751679.98	578988.67	3751680.00	0.007	-0.018
6/6/07 10:22 AM	185	89-16-185		6	0	-45	160	Baseplate	5	11	Actual	MD	578980.22	3751680.52	578980.21	3751680.50	0.015	0.016
6/6/07 11:45 AM	186	89-16-186		31	20	0	0	Frag	3	7	Actual	MD	578925.07	3751680.71	578925.05	3751680.80	0.017	-0.085
6/6/07 1:31 PM	187	89-16-187		18	13	0	210	Frag	4	8	Actual	MD	578960.03	3751682.77	578960.01	3751682.82	0.019	-0.047
6/4/07 11:58 AM	188	89-16-188		19	22	0	250	Scrap Metal	2	16	Actual	Cultural	578924.33	3751685.65	578924.35	3751685.68	-0.02	-0.031
6/4/07 12:06 PM	189	89-16-189	mf4	34	10	-90	220	Seeds	12	45	Actual	Seed Item	578930.52	3751685.61	578930.63	3751685.67	-0.111	-0.063
6/4/07 12:27 PM	190	89-16-190	mf27	13	10	90	325	Frag	4	7	Actual	MD	578938.41	3751685.97	578938.36	3751685.97	0.051	0.003
6/5/07 10:46 AM	191	89-16-191	mf31	58	30	90	360	seeds	13	45	Actual	Seed Item	578947.39	3751686.57	578947.45	3751686.44	-0.056	0.133
6/6/07 2:03 PM	192	89-16-192			105	0	100	Seeds		45	Actual	Seed Item	578980.28	3751688.28	578979.78	3751688.08	0.499	0.198
6/11/07 11:25 AM	193	89-16-193		22	16	-45	90	Scrap Metal	3	9	Actual	Cultural	578900.55	3751688.49	578900.57	3751688.55	-0.019	-0.055
6/4/07 12:10 PM	194	89-16-194		18	0	0	220	Scrap Metal	2	7	Actual	Cultural	578931.64	3751688.06	578931.69	3751688.34	-0.052	-0.282
6/4/07 11:55 AM	195	89-16-195		16	12	90	320	Frag	2	5	Actual	MD	578922.99	3751688.87	578922.94	3751689.00	0.05	-0.128
6/4/07 12:35 PM	196	89-16-196		18	19	0	295	Frag	3	6	Actual	MD	578943.35	3751688.80	578943.34	3751688.74	0.01	0.062
6/4/07 9:57 AM	197	89-16-197		44	45	170	-90	Seeds	12	45	Actual	Seed Item	578913.82	3751689.42	578913.81	3751689.40	0.006	0.018
6/4/07 9:19 AM	198	89-16-198		7	15	0	260	Frag	1	5	Approximate	MD	578926.76	3751690.83	578926.66	3751690.78	0.101	0.046
6/4/07 12:24 PM	199	89-16-199	mf25+26	17	14	90	100	Frag	4	6	Actual	MD	578939.00	3751691.24	578938.87	3751691.06	0.132	0.182
6/13/07 10:16 AM	200	89-16-200		10	9	0	170	Scrap Metal	2	16	Actual	Cultural	578973.73	3751692.08	578973.91	3751692.21	-0.179	-0.126
6/11/07 12:22 PM	201	89-16-201		41	10	-90	230	Frag	3	6	Actual	MD	578913.95	3751692.92	578913.89	3751693.06	0.065	-0.135
6/5/07 11:02 AM	202	89-16-202	mf3	51	30	-90	360	Seeds	10	45	Actual	Seed Item	578925.55	3751693.00	578925.52	3751693.07	0.035	-0.069
6/4/07 12:15 PM	203	89-16-203	mf14	5	6	0	200	Frag	3	6	Actual	MD	578932.82	3751693.40	578932.68	3751693.43	0.138	-0.034
6/11/07 12:26 PM	204	89-16-204		13	5	0	120	Frag	3	8	Actual	MD	578917.56	3751693.42	578917.57	3751693.46	-0.008	-0.042
6/5/07 10:19 AM	205	89-16-205	mf32	12	2	45	40	Baseplate	7	12	Actual	MD	578946.18	3751694.22	578946.19	3751694.22	-0.013	0.001
6/11/07 12:16 PM	206	89-16-206		17	14	0	150	Frag	2	2	Actual	MD	578907.33	3751694.41	578907.32	3751694.48	0.01	-0.068
6/5/07 10:23 AM	207	89-16-207		57	30	0	0	Soils	4	0	Actual	Soils	578954.04	3751695.78				
6/11/07 12:18 PM	208	89-16-208		14	7	0	50	Frag	2	2	Actual	MD	578911.04	3751695.93	578911.11	3751695.94	-0.067	-0.014
6/5/07 10:13 AM	209	89-16-209	mf39	27	16	-90	310	Frag	5	9	Actual	MD	578948.08	3751695.92	578948.08	3751695.95	-0.002	-0.031
6/11/07 1:57 PM	210	89-16-210		10	2	-30	280	Frag	8	14	Actual	MD	578989.46	3751696.29	578989.45	3751696.28	0.009	0.009
6/11/07 12:30 PM	211	89-16-211		36	3	0	330	Frag	3	7	Actual	MD	578923.65	3751696.60	578923.48	3751696.55	0.172	0.049
6/11/07 1:46 PM	212	89-16-212		16	9	-45	80	Frag	3	11	Actual	MD	578969.00	3751696.55	578968.88	3751696.50	0.125	0.046
6/11/07 1:59 PM	213	89-16-213		19	12	0	70	Frag	3	5	Actual	MD	578991.51	3751696.79	578991.60	3751696.89	-0.087	-0.104
6/12/07 9:15 AM	214	89-16-214		22	16	-90	350	Frag	2	9	Actual	MD	578998.28	3751697.46	578998.30	3751697.33	-0.023	0.126
6/11/07 1:43 PM	215	89-16-215		16	10	0	110	Frag	3	14	Actual	MD	578957.32	3751698.89	578957.30	3751698.88	0.022	0.012
6/11/07 1:56 PM	216	89-16-216		-1	0	0	120	Scrap Metal	1	7	Actual	Cultural	578982.81	3751699.52	578982.59	3751699.64	0.219	-0.116
6/11/07 10:52 AM	217	89-16-217		32	0	-90	0	Corner Stake	3	20	Actual	Cultural	578923.03	3751639.84	578923.06	3751639.89	-0.025	-0.047
6/11/07 10:56 AM	218	89-16-218		41	0	-90	0	Corner Stake	3	20	Actual	Cultural	578914.48	3751654.84	578914.68	3751654.69	-0.199	0.154
6/19/07 3:14 PM	219	89-16-219		51	81	0	0	Soils	2	0	Actual	Soils	578968.95	3751656.70	578968.96	3751656.93	-0.014	-0.227
6/13/07 9:06 AM	220	89-16-220		17	47	0	0	No Contact	2	0	Actual	No Contacts	578978.52	3751665.63	578978.26	3751665.27	0.257	0.356
6/13/07 8:08 AM	221	89-16-221		145	175	0	0	No Contact	11	0	Actual	No Contacts	578982.97	3751681.06	578983.64	3751680.81	-0.671	0.246
6/13/07 8:26 AM	222	89-16-222		114	144	0	0	No Contact	7	0	Actual	No Contacts	578980.54	3751683.53	578980.99	3751683.45	-0.446	0.078
6/11/07 3:47 PM	223	89-16-223		81	121	0	0	No Contact	6	0	Approximate	No Contacts	578988.83	3751667.93	No Contact			
6/11/07 10:08 AM	224	89-16-224		94	27	0	150	Frag	8	12	Approximate	MD	578999.00	3751668.52	578998.97	3751668.43	0.033	0.095

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/13/07 8:35 AM	225	89-16-225		170	200	0	0	No Contact	14	0	Actual	No Contacts	578964.64	3751686.07	578964.53	3751685.80	0.108	0.267
6/14/07 9:18 AM	226	89-16-226		111	141	0	0	No Contact	13	0	Actual	No Contacts	578994.44	3751687.21	578994.40	3751686.95	0.039	0.257
6/13/07 10:06 AM	227	89-16-227		39	20	0	120	Frag	3	8	Actual	MD	578959.59	3751687.19	578959.69	3751687.13	-0.103	0.057
6/12/07 3:48 PM	228	89-16-228		58	0	0	150	Scrap Metal	3	7	Actual	Cultural	578967.96	3751687.78	578968.13	3751687.60	-0.174	0.176
6/13/07 9:56 AM	229	89-16-229		7	6	-90	80	Frag	1	13	Actual	MD	578969.44	3751669.48	578969.55	3751669.44	-0.106	0.037
6/11/07 12:28 PM	230	89-16-230		1130	2	-90	60	Frag	12	8	Actual	MD	578922.00	3751694.22	578921.99	3751694.11	0.015	0.108
6/13/07 10:13 AM	231	89-16-231		38	10	-90	50	Frag	2	7	Actual	MD	578970.06	3751694.79	578970.11	3751694.36	-0.047	0.433
6/14/07 9:19 AM	232	89-16-232		161	191	0	0	No Contact	29	0	Actual	No Contacts	578987.87	3751694.72	578988.52	3751694.25	-0.647	0.47
6/13/07 2:48 PM	233	89-16-233		259	230	0	0	No Contact	10	0	Approximate	Rock	578984.70	3751697.26	578985.14	3751697.07	-0.444	0.193
6/5/07 9:40 AM	234	89-16-234	mf50	-0.01	5	15	255	Frag	0	6	Actual	MD	578953.78	3751699.86	578953.93	3751699.78	-0.149	0.078
6/11/07 10:17 AM	235	89-16-235		10	1	0	0	Rock	1	1	Actual	Rock	578952.56	3751672.76	578952.47	3751672.78	0.089	-0.015
6/13/07 10:35 AM	236	89-16-236		-7	6	0	120	Frag	2	10	Actual	MD	578968.87	3751666.24	578968.90	3751666.22	-0.025	0.02
6/11/07 3:34 PM	237	89-16-237		2590	250	0	0	No Contact	35	0	Actual	No Contacts	578987.62	3751674.32	No Contact			
6/14/07 8:28 AM	238	89-16-238		13	13	0	0	Soils	4	0	Actual	Soils	578998.20	3751674.64	578998.04	3751674.71	0.164	-0.067
6/11/07 11:15 AM	239	89-16-239		33	13	0	130	Frag	2	5	Actual	MD	578924.18	3751656.32	578924.48	3751656.51	-0.3	-0.192
6/19/07 2:43 PM	240	89-16-240		65	95	0	0	Soils	3	0	Actual	Soils	578902.43	3751657.52	578902.51	3751657.37	-0.075	0.15
6/19/07 2:42 PM	241	89-16-241		100	130	0	0	Soils	7	0	Actual	Soils	578904.51	3751658.91	578904.62	3751658.90	-0.105	0.008
6/19/07 2:41 PM	242	89-16-242		112	142	0	0	Soils	6	0	Actual	Soils	578908.78	3751659.92	578908.78	3751659.93	0.005	-0.005
6/13/07 9:04 AM	243	89-16-243		168	200	0	0	No Contact	11	0	Actual	No Contacts	578975.62	3751661.06	578975.03	3751661.55	0.589	-0.488
6/13/07 10:32 AM	244	89-16-244		13	7	0	80	Frag	3	3	Actual	MD	578980.14	3751661.65	578979.89	3751661.28	0.25	0.374
6/19/07 2:44 PM	245	89-16-245		40	70	0	0	Soils	3	0	Actual	Soils	578900.06	3751662.48	578900.18	3751662.41	-0.12	0.074
6/11/07 10:46 AM	246	89-16-246		50	18	0	250	Frag	3	10	Actual	MD	578928.76	3751663.45	578928.88	3751663.44	-0.122	0.011
6/19/07 3:21 PM	247	89-16-247		42	2	0	0	Rock	2	2	Actual	Rock	578925.77	3751676.89	578925.49	3751676.87	0.279	0.02
6/11/07 11:11 AM	248	89-16-248		-1	1	0	150	Frag	1	10	Actual	MD	578924.25	3751642.24	578924.21	3751642.28	0.045	-0.036
5/30/07 12:20 PM	249	89-17-249		26	25	0	0	Rock	3	4	Actual	Rock	578908.02	3751700.33	578907.93	3751700.27	0.094	0.065
6/7/07 7:01 AM	249	89-17-249		26	10	10	10	Rock	3	10	Approximate	Rock	578908.02	3751700.33	578907.93	3751700.27	0.094	0.065
6/5/07 10:57 AM	250	89-17-250	mf33	47	30	0	360	Seeds	9	45	Actual	Seed Item	578944.05	3751700.29	578944.12	3751700.37	-0.066	-0.084
6/5/07 2:46 PM	251	89-17-251		28	15	-90	60	Frag	5	7	Actual	MD	578989.20	3751700.33	578989.19	3751700.37	0.011	-0.042
6/6/07 9:56 AM	252	89-17-252		2	3	0	120	Frag	2	8	Actual	MD	578977.02	3751701.67	578977.11	3751701.72	-0.087	-0.054
6/11/07 1:53 PM	252	89-17-252		2	11	0	70	Frag	2	5	Approximate	MD	578977.02	3751701.67	578977.09	3751701.53	-0.071	0.139
6/4/07 9:16 AM	253	89-17-253	mf2	11	9	0	350	Frag	4	8	Actual	MD	578926.32	3751702.37	578926.31	3751702.39	0.006	-0.024
6/4/07 2:19 PM	254	89-17-254	mf21	12	8	0	40	Frag	2	7	Actual	MD	578938.12	3751702.17	578938.27	3751702.37	-0.149	-0.2
6/5/07 9:18 AM	255	89-17-255	mf49	44	40	-45	85	Baseplate	5	15	Actual	MD	578953.80	3751702.59	578953.80	3751702.54	0.003	0.047
6/5/07 2:42 PM	256	89-17-256		11	13	-45	120	Frag	2	8	Actual	MD	578990.38	3751702.55	578990.30	3751702.54	0.081	0.015
6/6/07 10:08 AM	257	89-17-257		10	6	-90	25	Frag	5	9	Actual	MD	578962.94	3751702.73	578963.00	3751702.87	-0.058	-0.136
5/30/07 12:21 PM	258	89-17-258		13	5	0	0	Scrap Metal	1	3	Actual	Cultural Debris	578918.34	3751703.52	578918.30	3751703.43	0.043	0.087
6/5/07 8:54 AM	259	89-17-259	mf45	18	0	0	120	Scrap Metal	2	7	Actual	Cultural	578949.64	3751704.21	578950.01	3751704.24	-0.366	-0.025
6/5/07 2:37 PM	260	89-17-260		26	20	-90	130	Frag	3	8	Actual	MD	578992.69	3751704.17	578992.72	3751704.15	-0.027	0.023
6/4/07 9:09 AM	261	89-17-261	mf1	8	4	0	250	Frag	3	7	Actual	MD	578926.95	3751704.57	578926.93	3751704.61	0.016	-0.04
6/5/07 8:44 AM	262	89-17-262	mf34	10	7	0	360	Frag	2	6	Actual	MD	578943.10	3751704.92	578943.12	3751704.84	-0.023	0.077
6/5/07 2:50 PM	263	89-17-263		6	3	-90	230		2	8	Approximate	MD	578985.12	3751704.81	578985.02	3751704.81	0.104	-0.001
6/13/07 11:10 AM	264	89-16-264		11	4	0	270	Frag	3	6	Actual	MD	578998.40	3751704.83	578998.40	3751704.85	-0.001	-0.021
6/6/07 10:02 AM	265	89-17-265		28	23	-90	120	Frag	3	14	Actual	MD	578967.57	3751705.84	578967.52	3751705.86	0.049	-0.022
6/7/07 10:04 AM	265	89-17-265		28	0	0	0	No Contact	3	0	Actual	No Contacts	578967.57	3751705.84	No Contact			
6/6/07 9:53 AM	266	89-17-266		12	0	-45	185	Baseplate	5	11	Actual	MD	578979.59	3751705.87	578979.60	3751705.86	-0.014	0.015

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured	Δ Easting	Δ Northing
													Easting	Northing	Easting	Northing		
6/4/07 2:12 PM	267	89-17-267	mf10	11	7	90	170	Frag	4	9	Actual	MD	578933.58	3751706.22	578933.55	3751706.05	0.031	0.168
6/5/07 9:10 AM	268	89-17-268		1	0	0	220	Scrap Metal	1	7	Actual	Cultural	578953.48	3751706.09	578953.54	3751706.19	-0.06	-0.096
6/6/07 10:00 AM	269	89-17-269		12	3	0	80	Nose Frag	3	7	Actual	MD	578971.30	3751706.24	578971.39	3751706.13	-0.092	0.115
6/6/07 9:58 AM	270	89-17-270		9	1	0	85	Frag	5	9	Actual	MD	578974.81	3751706.30	578974.78	3751706.32	0.032	-0.017
6/5/07 2:34 PM	271	89-17-271		14	15	-90	230	Scrap Metal	3	19	Actual	Cultural	578993.72	3751707.07	578993.82	3751707.09	-0.097	-0.022
5/30/07 12:23 PM	272	89-17-272		11	5	0	270	Frag	2	2	Actual	MD	578911.77	3751707.83	578911.85	3751707.73	-0.077	0.098
6/5/07 9:00 AM	273	89-17-273		22	22	0	120	Frag	2	9	Actual	MD	578951.85	3751708.05	578952.01	3751707.95	-0.157	0.097
6/6/07 9:51 AM	274	89-17-274		19	16	0	300	Frag	3	5	Actual	MD	578980.40	3751708.07	578980.34	3751707.98	0.056	0.093
6/4/07 2:38 PM	275	89-17-275	mf8	55	42	-90	120	Halfshell	12	30	Actual	MD	578934.68	3751709.01	578934.56	3751708.92	0.121	0.087
6/6/07 9:49 AM	276	89-17-276		7	2	0	285	Frag	2	7	Actual	MD	578978.73	3751709.24	578978.75	3751709.21	-0.019	0.03
6/11/07 1:51 PM	276	89-17-276		7	4	0	0	Rock	2	2	Actual	Rock	578978.73	3751709.24	578979.00	3751709.38	-0.271	-0.135
6/6/07 9:45 AM	277	89-17-277		14	13	0	290	Frag	3	8	Actual	MD	578976.04	3751710.19	578975.94	3751709.94	0.101	0.247
5/31/07 3:29 PM	278	89-17-278		11	6	0	90	Scrap Metal	2	7	Actual	Cultural Debris	578962.99	3751709.97	578962.95	3751709.95	0.041	0.021
6/5/07 2:31 PM	279	89-17-279		20	10	-45	170	Nose Frag	3	7	Actual	MD	578996.80	3751710.02	578996.78	3751710.01	0.016	0.015
5/30/07 4:45 PM	280	89-17-280		8	10	0	180	Frag	2	7	Actual	MD	578932.42	3751711.53	578932.67	3751711.58	-0.254	-0.045
5/31/07 3:28 PM	281	89-17-281		7	7	0	100	Frag	2	8	Actual	MD	578961.78	3751711.99	578961.81	3751712.02	-0.034	-0.03
5/30/07 4:46 PM	282	89-17-282		18	4	0	180	Frag	3	4	Actual	MD	578928.16	3751712.71	578928.08	3751712.69	0.078	0.02
6/6/07 9:36 AM	283	89-17-283		39	22	-45	130	Seeds	11	45	Actual	Seed Item	578969.73	3751712.72	578969.67	3751712.79	0.058	-0.073
5/30/07 12:25 PM	284	89-17-284		7	4	0	180	Frag	2	4	Actual	MD	578908.46	3751713.00	578908.53	3751712.98	-0.072	0.019
5/30/07 3:37 PM	285	89-17-285		23	19	0	0	Soils	2	2	Actual	Rock	578921.47	3751713.57	578921.20	3751713.14	0.267	0.435
5/30/07 4:48 PM	286	89-17-286		33	20	0	0	Seeds	8	45	Actual	Seed Item	578942.62	3751713.64	578942.68	3751713.58	-0.059	0.06
5/30/07 4:49 PM	287	89-17-287		10	13	30	270	Scrap Metal	3	18	Actual	Cultural Debris	578937.38	3751714.00	578937.46	3751713.96	-0.084	0.038
5/30/07 4:50 PM	288	89-17-288		11	15	0	220	Frag	2	7	Actual	MD	578932.59	3751714.44	578932.52	3751714.50	0.075	-0.056
5/31/07 3:16 PM	289	89-17-289		56	30	-90	0	Seeds	12	45	Actual	Seed Item	578912.24	3751716.01	578912.27	3751715.97	-0.028	0.038
5/31/07 3:25 PM	290	89-17-290		14	9	90	80	Frag	2	9	Actual	MD	578953.17	3751715.74	578953.12	3751715.76	0.05	-0.016
6/5/07 2:29 PM	291	89-17-291		6	3	0	220	Frag	3	7	Actual	MD	578997.67	3751716.60	578997.67	3751716.62	-0.003	-0.019
6/6/07 9:26 AM	292	89-17-292		14	8	0	0	Frag	2	3	Actual	MD	578975.05	3751717.17	578975.10	3751717.22	-0.049	-0.05
6/5/07 2:52 PM	293	89-17-293		18	15	-90	110	Frag	3	7	Actual	MD	578990.55	3751717.19	578990.44	3751717.17	0.106	0.023
6/5/07 3:03 PM	294	89-17-294		19	5	0	0	Rock	3	1	Actual	Rock	578979.56	3751717.75	Soil			
6/6/07 9:29 AM	295	89-17-295		18	15	0	300	Frag	2	6	Actual	MD	578971.90	3751718.00	578971.94	3751717.97	-0.036	0.031
5/30/07 3:38 PM	296	89-17-296		3	1	180	40	Frag	1	5	Actual	MD	578925.72	3751718.74	578925.78	3751718.78	-0.059	-0.038
5/30/07 3:39 PM	297	89-17-297		19	8	90	180	Frag	5	8	Actual	MD	578914.94	3751719.78	578914.56	3751719.78	0.38	0.002
5/30/07 3:40 PM	298	89-17-298		30	25	45	60	Tailboom	5	13	Actual	MD	578919.11	3751719.78	578919.12	3751719.79	-0.013	-0.012
6/5/07 2:58 PM	299	89-17-299		18	13	0	80	Nose Frag	3	7	Actual	MD	578987.25	3751719.71	578987.27	3751719.67	-0.015	0.042
6/5/07 2:55 PM	300	89-17-300		1	4	0	0	Rock	1	3	Actual	Rock	578991.73	3751719.77	Soil			
6/5/07 2:25 PM	301	89-17-301		19	20	-90	180	Baseplate	5	11	Actual	MD	578998.80	3751719.83	578998.81	3751719.74	-0.005	0.088
6/5/07 3:02 PM	302	89-17-302		2	2	0	0	Rock	1	5	Actual	Rock	578981.93	3751720.20	Soil			
5/30/07 3:43 PM	303	89-17-303		21	1	0	90	Frag	2	5	Actual	MD	578922.54	3751720.73	578922.23	3751720.93	0.315	-0.201
5/31/07 2:50 PM	304	89-17-304		48	30	90	0	Seeds	12	45	Actual	Seed Item	578932.92	3751721.32	578932.93	3751721.28	-0.007	0.045
5/31/07 9:49 AM	305	89-17-305		48	42	-45	280	Baseplate	6	11	Actual	MD	578943.48	3751721.79	578943.48	3751721.79	0.004	-0.001
5/30/07 12:27 PM	306	89-17-306		20	10	0	300	Frag	2	4	Actual	MD	578904.89	3751721.53	578904.78	3751721.62	0.115	-0.093
6/5/07 2:57 PM	307	89-17-307		12	9	-90	240	Halfshell	8	30	Actual	MD	578990.07	3751722.04	578989.97	3751722.01	0.104	0.033
6/5/07 3:06 PM	308	89-17-308		14	12	-45	300	Frag	3	7	Actual	MD	578976.35	3751723.57	578976.26	3751723.54	0.089	0.031
5/30/07 3:46 PM	309	89-17-309		41	41	0	0	Soils	4	0	Actual	Soils	578916.81	3751724.95	Soil			
5/30/07 12:28 PM	310	89-17-310		20	30	0	0	Frag	3	6	Actual	MD	578900.23	3751725.49	578900.16	3751725.12	0.067	0.375

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
5/30/07 3:47 PM	311	89-17-311		11	11	0	180	Frag	2	8	Actual	MD	578922.14	3751725.81	578922.17	3751725.79	-0.025	0.025
5/30/07 12:30 PM	312	89-17-312		5	5	30	270	Halfshell	2	8	Actual	MD	578907.47	3751726.07	578907.48	3751726.06	-0.014	0.008
6/5/07 12:41 PM	313	89-17-313		20	19	0	110	Frag	4	10	Actual	MD	578942.11	3751725.87	578942.09	3751725.86	0.016	0.014
6/5/07 11:10 AM	314	89-17-314		34	26	0	90	Seeds	9	45	Actual	Seed Item	578960.76	3751726.09	578960.66	3751726.09	0.105	0.003
6/6/07 9:19 AM	315	89-17-315		45	15	80	180	Seeds	8	45	Actual	Seed Item	578983.73	3751725.68	578983.81	3751725.67	-0.082	0.015
5/30/07 3:44 PM	316	89-17-316		9	3	15	270	Frag	3	10	Actual	MD	578914.76	3751727.51	578914.74	3751727.51	0.024	0.001
5/30/07 12:32 PM	317	89-17-317		16	9	0	0	Tailboom	5	11	Actual	MD	578906.36	3751728.36	578906.39	3751728.37	-0.025	-0.006
5/29/07 4:38 PM	318	89-17-318			1	180	n/a	Scrap Metal		10	Actual	Cultural	578919.12	3751728.55	578919.08	3751728.47	0.038	0.083
6/5/07 12:34 PM	319	89-17-319		20	14	0	90	Frag	2	2	Actual	MD	578936.29	3751728.27	578936.36	3751728.20	-0.073	0.073
5/30/07 12:33 PM	320	89-17-320		0	9	0	220	Halfshell	3	30	Actual	MD	578900.77	3751729.15	578900.82	3751729.13	-0.047	0.022
6/5/07 11:13 AM	321	89-17-321							2	45	Actual		578985.04	3751728.73				
6/5/07 12:26 PM	322	89-17-322		69	30	0	0	Soils	6	0	Actual	Soils	578933.40	3751729.18	Soil			
8/1/07 12:58 PM	323	89-17-323		41	60	0	0	No Contact	12	0	Actual	No Contacts	578954.57	3751729.27	578954.54	3751729.53	0.68	-0.26
6/5/07 11:13 AM	323	89-17-321		15	22	-90	360	Seed Item	2	45	Actual	Seed Item	578954.57	3751729.27	No GPS			
5/31/07 3:02 PM	324	89-17-324		69	75	45	70	Seeds	6	45	Actual	Seed Item	578929.35	3751730.17	578929.38	3751730.14	-0.03	0.032
5/29/07 4:40 PM	325	89-17-325			30	180	260	Baseplate		13	Actual	MD	578914.51	3751730.42	578914.48	3751730.43	0.033	-0.014
5/31/07 10:36 AM	326	89-17-326		37	29	-90	360	Nose Frag	5	8	Actual	MD	578923.21	3751730.92	578923.31	3751730.85	-0.101	0.072
6/6/07 9:11 AM	327	89-17-327		15	9	0	210	Frag	2	4	Actual	MD	578985.03	3751730.81	578985.11	3751730.85	-0.079	-0.041
5/29/07 4:41 PM	328	89-17-328			12	-45	320	Scrap Metal		13	Actual	Cultural	578910.95	3751731.68	578910.92	3751731.85	0.029	-0.172
5/31/07 10:06 AM	329	89-17-329		9	4	0	270	Frag	3	15	Actual	MD	578937.39	3751732.42	578937.36	3751732.47	0.027	-0.05
6/6/07 9:15 AM	330	89-17-330		19	10	-90	190	Scrap Metal	4	13	Actual	Cultural	578982.56	3751733.61	578982.45	3751733.57	0.107	0.041
5/31/07 2:46 PM	331	89-17-331		52	40	-90	0	Seeds	13	45	Actual	Seed Item	578944.99	3751734.15	578944.91	3751734.18	0.085	-0.025
5/31/07 10:08 AM	332	89-17-332		44	4	0	270	Frag	6	7	Actual	MD	578938.41	3751734.91	578938.51	3751734.79	-0.104	0.124
6/5/07 2:20 PM	333	89-17-333		20	19	-45	260	Frag	5	18	Actual	MD	578996.41	3751735.06	578996.46	3751735.11	-0.045	-0.049
5/31/07 11:29 AM	334	89-17-334		14	1	0	230	Frag	4	14	Actual	MD	578929.78	3751735.78	578929.79	3751735.78	-0.009	0.001
5/29/07 4:42 PM	335	89-17-335			13	180	290	Frag		5	Actual	MD	578912.30	3751735.75	578912.28	3751735.77	0.018	-0.022
6/5/07 12:47 PM	336	89-17-336		8	1	0	250	Frag	4	12	Actual	MD	578960.99	3751736.04	578960.86	3751736.10	0.129	-0.064
6/5/07 2:18 PM	337	89-17-337		17	10	0	120	Frag	2	5	Actual	MD	578998.72	3751737.35	578998.78	3751737.31	-0.058	0.04
5/31/07 11:25 AM	338	89-17-338		12	6	90	250	Frag	3	10	Actual	MD	578932.95	3751737.77	578932.97	3751737.74	-0.016	0.029
5/29/07 4:43 PM	339	89-17-339			5	180	0	Baseplate		11	Actual	MD	578904.51	3751738.40	578904.47	3751738.36	0.041	0.036
5/31/07 11:11 AM	340	89-17-340		30	17	90	230	Frag	3	5	Actual	MD	578920.35	3751738.67	578920.40	3751738.45	-0.052	0.224
6/5/07 2:14 PM	341	89-17-341		70	14	-90	110	Frag	15	14	Actual	MD	578995.97	3751739.27	578995.97	3751739.11	-0.002	0.163
5/31/07 3:08 PM	342	89-17-342		51	25	45	180	Seeds	12	45	Actual	Seed Item	578925.00	3751741.31	578925.03	3751741.29	-0.031	0.023
5/31/07 12:00 PM	343	89-17-343		69	99	0	0	Soils	6	0	Actual	Soils	578943.95	3751742.01	It was just soil, no object			
6/11/07 1:34 PM	344	89-17-344		23	17	-90	50	Nose Frag	2	8	Actual	MD	578918.91	3751742.99	578918.92	3751742.98	-0.013	0.006
5/31/07 11:34 AM	345	89-17-345		18	14	0	0	Frag	3	15	Actual	MD	578937.54	3751743.75	578937.57	3751743.70	-0.026	0.046
5/31/07 11:20 AM	346	89-17-346			4	-90	320	Nose Frag		6	Actual	MD	578930.01	3751743.87	578929.92	3751743.96	0.092	-0.092
5/31/07 1:50 PM	347	89-17-347		5	8	0	120	Frag	2	7	Actual	MD	578971.11	3751744.56	578971.07	3751744.53	0.038	0.033
6/5/07 2:00 PM	348	89-17-348		7	5	0	0	Rock	2	3	Actual	Rock	578976.23	3751745.94	Soil			
5/31/07 11:16 AM	349	89-17-349		16	6	-90	320	Nose Frag	3	8	Actual	MD	578927.68	3751747.18	578927.68	3751747.20	0.001	-0.017
5/31/07 11:43 AM	350	89-17-350		34	9	90	0	Seeds	12	48	Actual	Seed Item	578943.37	3751747.74	578943.33	3751747.79	0.042	-0.05
6/5/07 2:11 PM	351	89-17-351		15	8	-90	325	Frag	4	11	Actual	MD	578994.08	3751748.02	578994.12	3751748.04	-0.042	-0.024
5/31/07 11:38 AM	352	89-17-352		14	9	90	260	Frag	2	8	Actual	MD	578938.06	3751748.42	578938.11	3751748.39	-0.05	0.028
5/31/07 12:27 PM	353	89-17-353		14	7	0	0	Frag	2	3	Actual	MD	578960.52	3751748.54	578958.84	3751750.51	1.679	-1.969
5/31/07 12:17 PM	354	89-17-354		16	13	0	180	Scrap Metal	2	6	Actual	Cultural Debris	578956.36	3751749.11	578956.36	3751748.85	0.005	0.264

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth				Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/5/07 2:03 PM	355	89-17-355		-0.01	5	0	0	Rock	1	4	Actual	Rock	578985.37	3751750.00	578985.37	3751749.96	0.001	0.044
5/31/07 1:47 PM	356	89-17-356		20	8	0	0	Soils	2	5	Acutal	Rock	578970.06	3751750.41	578970.12	3751750.50	-0.059	-0.094
5/31/07 12:26 PM	357	89-17-357		1	0	0	180	Frag	2	14	Acutal	MD	578958.72	3751750.56	578958.73	3751750.52	-0.01	0.044
5/31/07 1:22 PM	358	89-17-358		8	0	90	0	Scrap Metal	7	46	Acutal	Cultural Debris	578962.07	3751751.40	578962.05	3751751.43	0.021	-0.028
6/5/07 2:09 PM	359	89-17-359		15	8	0	0	Scrap Metal	3	8	Actual	Cultural	578991.06	3751752.21	578991.04	3751752.20	0.018	0.006
5/31/07 12:20 PM	360	89-17-360		40	30	0	270	Seeds	110	45	Acutal	Seed Item	578954.60	3751752.52	578954.73	3751752.44	-0.132	0.082
6/5/07 2:07 PM	361	89-17-361		46	30	0	0	Soils	3	0	Actual	Soils	578986.48	3751753.12	Soil			
5/31/07 2:37 PM	362	89-17-362		76	106	0	0	No Contact	5	0	Acutal	Soils	578971.20	3751754.25	(No Contact)			
6/21/07 2:32 PM	363	89-17-363		33	40	-90	0	Nose Frag	3	7	Actual	MD	578987.26	3751755.04	578987.35	3751755.12	-0.091	-0.083
5/31/07 1:26 PM	364	89-17-364		7	7	0	0	Frag	3	10	Acutal	MD	578963.90	3751756.14	578963.92	3751756.12	-0.02	0.024
5/31/07 1:22 PM	365	89-17-365		56	86	0	0	No Contact	3	0	Acutal	Soils	578971.82	3751757.04	(No Contact)			
5/31/07 1:34 PM	366	89-17-366		21	22	0	0	Soils	2	3	Acutal	Rock	578972.93	3751758.90	578972.91	3751758.84	0.025	0.059
6/12/07 8:49 AM	367	89-17-367		11	3	45	170	Baseplate	5	11	Actual	MD	578977.13	3751759.89	578977.22	3751759.59	-0.09	0.3
6/12/07 8:46 AM	368	89-17-368		16	10	0	340	Scrap Metal	5	14	Actual	Cultural	578985.07	3751760.64	578985.07	3751760.30	0.004	0.342
6/12/07 8:54 AM	369	89-17-369		23	8	0	180	Frag	3	4	Actual	MD	578982.96	3751764.18	578983.13	3751763.94	-0.174	0.24
6/12/07 9:05 AM	370	89-17-370		10	1	0	300	Halfshell	10	28	Actual	MD	578995.22	3751766.86	578995.28	3751766.53	-0.064	0.327
6/12/07 9:11 AM	371	89-17-371		14	0	-90	0	Corner Stake	7	20	Actual	Cultural	578999.97	3751771.09	579000.00	3751770.82	-0.031	0.275
5/30/07 3:51 PM	372	89-17-372		13	7	30	0	Frag	2	14	Actual	MD	578920.24	3751723.50	578920.32	3751723.51	-0.082	-0.014
6/4/07 2:06 PM	373	89-17-373	mf7	36	8	0	240	Frag	0	5	Actual	MD	578931.14	3751702.17	578931.21	3751702.44	-0.07	-0.274
6/5/07 9:43 AM	374	89-17-374		24	5	0	290	Frag	1	7	Actual	MD	578951.03	3751702.2	578951.154	3751702.33	-0.124	-0.13
5/30/07 4:55 PM	375	89-17-375		7	30	0	0	No Contact	1	0	Actual	Soils	578917.42	3751709.65	it was just soil, no object)			
5/30/07 12:35 PM	376	89-17-376		64	6	0	90	Frag	3	3	Actual	MD	578909.99	3751709.82	578910.15	3751709.61	-0.156	0.212
5/30/07 3:53 PM	377	89-17-377		37	0.4	30	180	Frag	0	4	Actual	MD	578915.93	3751713.08	578916.08	3751713.07	-0.145	0.012
5/30/07 12:36 PM	378	89-17-378		11	12	0	0	Soils	3	5	Actual	Soils	578909.46	3751717.28	Soil			
5/31/07 1:59 PM	379	89-17-379		81	15	0	80	Frag	7	5	Acutal	MD	578954.29	3751719.95	578954.18	3751720.28	0.11	-0.331
5/31/07 1:55 PM	380	89-17-380		-3	1	0	60	Frag	1	9	Acutal	MD	578962.22	3751719.72	578962.25	3751719.65	-0.03	0.071
6/6/07 9:33 AM	381	89-17-381		64	30	0	0	Soils	3	0	Actual	Soils	578965.00	3751725.12	Soils			
5/30/07 12:37 PM	382	89-17-382		8	10	0	0	Scrap Metal	1	3	Actual	Cultural Debris	578912.26	3751725.11	578912.21	3751725.18	0.051	-0.074
6/12/07 9:13 AM	383	89-17-383		66	5	0	100	Frag	6	5	Actual	MD	578996.45	3751726.67	578996.67	3751726.19	-0.218	0.479
6/11/07 1:40 PM	384	89-17-384		24	14	0	0	Rock	1	4	Actual	Rock	578940.03	3751730.73	578939.95	3751730.83	0.077	-0.098
5/31/07 12:07 PM	385	89-17-385		6	10	0	140	Frag	0	4	Acutal	MD	578955.80	3751742.20	578955.80	3751742.20	-0.002	-0.004
6/12/07 8:44 AM	386	89-17-386		58	3	0	0	Frag	5	5	Actual	MD	578999.24	3751742.30	578999.16	3751742.40	0.078	-0.097
5/31/07 12:11 PM	387	89-17-387		52	1	0	210	Frag	3	4	Acutal	MD	578952.71	3751748.19	578952.60	3751747.80	0.113	0.393
6/12/07 9:02 AM	388	89-17-388		19	11	0	320	Scrap Metal	0	4	Actual	Cultural	578993.59	3751760.09	578993.90	3751759.76	-0.314	0.329
6/12/07 8:59 AM	389	89-17-389		71	1	0	0	Scrap Metal	4	7	Actual	Cultural	578989.94	3751762.70	578990.21	3751762.69	-0.272	0.006
6/13/07 10:21 AM	390	90-16-390		32	25	0	120	Halfshell	16	28	Actual	MD	579002.45	3751668.53	579002.43	3751668.33	0.025	0.199
6/14/07 9:16 AM	391	90-16-391		18	13	120	0	Nose Frag	2	7	Actual	MD	579001.52	3751674.80	579001.58	3751674.78	-0.06	0.019
6/12/07 3:40 PM	392	90-16-392		58	19	0	40	Seeds	8	45	Actual	Seed Item	579008.67	3751676.94	579008.45	3751676.63	0.219	0.312
6/12/07 2:22 PM	393	90-16-393		8	15	0	190	Frag	2	9	Actual	MD	579031.98	3751679.31	579032.18	3751678.97	-0.203	0.341
6/12/07 9:38 AM	394	90-16-394		13	5	0	60	Frag	3	6	Actual	MD	579021.65	3751681.44	579021.79	3751681.23	-0.139	0.209
6/12/07 9:41 AM	395	90-16-395		42	35	15	160	Intact Item	12	45	Actual	UXO	579029.34	3751681.51	579029.52	3751681.23	-0.18	0.28
6/12/07 9:36 AM	396	90-16-396		14	7	0	280	Frag	2	6	Actual	MD	579016.11	3751683.78	579016.10	3751683.56	0.01	0.224
6/12/07 2:17 PM	397	90-16-397		14	9	-45	60	Frag	3	10	Actual	MD	579026.94	3751684.16	579027.04	3751683.96	-0.1	0.201
6/12/07 1:53 PM	398	90-16-398		45	29	-90	300	Halfshell	11	29	Actual	MD	579027.63	3751688.03	579027.48	3751688.04	0.155	-0.008
6/12/07 8:27 AM	399	90-16-399		33	16	0	290	Frag	6	8	Actual	MD	579039.36	3751689.83	579039.59	3751689.51	-0.226	0.322

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/12/07 9:28 AM	400	90-16-400		3	2	45	110	Halfshell	5	28	Actual	MD	579012.07	3751690.29	579012.17	3751690.03	-0.098	0.262
6/12/07 8:36 AM	401	90-16-401		11	3	0	310	Halfshell	10	27	Actual	MD	579037.12	3751690.44	579037.19	3751690.08	-0.065	0.365
6/12/07 9:20 AM	402	90-16-402		40	30	0	0	Seeds	10	45	Actual	Seed Item	579003.16	3751694.16	579003.18	3751693.91	-0.016	0.255
6/12/07 9:23 AM	403	90-16-403		3	10	0	190	Frag	1	4	Actual	MD	579012.16	3751694.07	579012.28	3751693.83	-0.115	0.243
6/12/07 8:38 AM	404	90-16-404		39	30	45	140	Seeds	12	45	Actual	Seed Item	579030.87	3751694.13	579031.05	3751693.88	-0.176	0.25
6/12/07 9:25 AM	405	90-16-405		12	7	0	150	Frag	3	8	Actual	MD	579013.73	3751695.32	579013.61	3751695.08	0.121	0.244
6/12/07 8:26 AM	406	90-16-406		38	0	-90	0	Corner Stake	3	20	Actual	Cultural	579043.01	3751681.99	579043.07	3751681.80	-0.058	0.187
6/12/07 9:35 AM	407	90-16-407		45	11	0	80	Frag	2	7	Actual	MD	579008.77	3751685.38	579008.80	3751685.21	-0.028	0.173
6/12/07 2:12 PM	408	90-16-408		85	15	0	40	Frag	5	6	Approximate	MD	579025.28	3751685.83	579025.41	3751685.65	-0.131	0.179
6/12/07 9:30 AM	409	90-16-409		33	20	-45	100	Frag	1	7	Actual	MD	579012.01	3751687.85	579012.01	3751687.86	0.005	-0.012
6/12/07 2:36 PM	410	90-16-410		23	10	0	120	Frag	2	9	Actual	MD	579017.87	3751688.03	579017.93	3751687.88	-0.063	0.152
6/12/07 8:40 AM	411	90-16-411		21	9	0	0	Rock	2	4	Actual	Rock	579024.59	3751698.35	579024.94	3751698.42	-0.345	-0.066
6/12/07 2:28 PM	412	90-16-412		71	30	0	0	Soils	2	0	Approximate	Soils	579027.04	3751679.86	579027.24	3751679.66	-0.2	0.201
6/13/07 11:32 AM	413	90-17-413		75	105	0	0	Soils	7	0	Actual	Soils	579028.71	3751700.51	579028.12	3751700.29	0.586	0.217
6/13/07 10:40 AM	414	90-17-414		10	12	0	0	Frag	2	12	Actual	MD	579000.75	3751704.94	579000.74	3751705.10	0.007	-0.164
6/13/07 2:02 PM	415	90-17-415		49	55	80	20	Seeds	10	45	Actual	Seed Item	579021.98	3751707.81	579021.94	3751707.89	0.038	-0.079
6/13/07 2:25 PM	416	90-17-416		53	85	0	0	Soils	3	0	Actual	Soils	579010.32	3751708.39	579009.80	3751708.51	0.516	-0.12
6/13/07 11:59 AM	417	90-17-417		6	2	0	160	Frag	5	16	Actual	MD	579022.98	3751714.13	579022.98	3751714.12	0.005	0.007
6/13/07 12:01 PM	418	90-17-418		14	8	-45	90	Frag	4	15	Actual	MD	579013.91	3751714.33	579013.85	3751714.30	0.058	0.029
6/13/07 12:04 PM	419	90-17-419		26	18	-45	150	Halfshell	8	31	Actual	MD	579010.53	3751714.62	579010.60	3751714.59	-0.069	0.026
6/13/07 12:21 PM	420	90-17-420		57	42	-45	90	Seeds	9	45	Actual	Seed Item	579016.74	3751727.24	579016.85	3751727.24	-0.112	-0.004
6/13/07 12:17 PM	421	90-17-421		31	25	90	0	Seeds	12	45	Actual	Seed Item	579003.21	3751732.11	579003.21	3751732.02	0.002	0.093
6/13/07 12:13 PM	422	90-17-422		4	10	0	100	Frag	3	7	Actual	MD	579013.60	3751732.43	579014.16	3751732.49	-0.564	-0.057
6/13/07 12:25 PM	423	90-17-423		5	4	0	180	Frag	3	9	Actual	MD	579011.14	3751736.88	579011.22	3751736.84	-0.077	0.038
6/13/07 12:26 PM	424	90-17-424		13	5	0	0	Frag	2	12	Actual	MD	579009.71	3751740.14	579009.65	3751740.14	0.059	0.002
6/13/07 12:34 PM	425	90-17-425		6	0	0	70	Frag	1	7	Actual	MD	579004.37	3751741.55	579004.25	3751741.49	0.12	0.056
6/13/07 12:29 PM	426	90-17-426		14	12	0	120	Frag	2	4	Approximate	MD	579012.53	3751741.67	579012.50	3751741.67	0.03	-0.003
6/13/07 12:32 PM	427	90-17-427		6	5	0	260	Frag	1	8	Approximate	MD	579008.95	3751743.56	579009.07	3751743.63	-0.115	-0.071
6/13/07 12:36 PM	428	90-17-428		11	0	0	90	Scrap Metal	5	20	Actual	Cultural	579007.10	3751747.74	579007.12	3751747.42	-0.016	0.317
6/13/07 12:42 PM	429	90-17-429		24	15	-45	260	Nose Frag	3	9	Actual	MD	579007.91	3751754.11	579007.92	3751754.12	-0.005	-0.012
6/13/07 12:48 PM	430	90-17-430		109	90	80	140	Seeds	13	45	Actual	Seed Item	579003.02	3751754.65	579003.15	3751754.60	-0.127	0.051
6/13/07 12:45 PM	431	90-17-431		19	12	-45	150	Frag	2	10	Actual	MD	579002.04	3751766.00	579002.17	3751765.32	-0.133	0.679
6/13/07 11:28 AM	432	90-17-432		20	8	0	120	Scrap Metal	1	5	Actual	Cultural	579026.38	3751705.94	579026.57	3751705.79	-0.185	0.151
6/13/07 2:27 PM	433	90-17-433		85	115	0	0	Soils	6	0	Actual	Soils	579005.92	3751700.92	Soil			
6/13/07 2:14 PM	434	90-17-434		114	1	-90	330	Frag	7	7	Actual	MD	579010.62	3751700.42	579010.57	3751700.91	0.054	-0.491
6/13/07 11:13 AM	435	90-17-435		115	8	0	190	Frag	8	8	Actual	MD	579005.89	3751710.34	579006.34	3751710.35	-0.448	-0.01
6/13/07 11:20 AM	436	90-17-436		26	12	0	180	Frag	3	10	Actual	MD	579002.45	3751715.48	579002.42	3751715.40	0.034	0.079
6/13/07 2:08 PM	437	90-17-437		6	6	-45	40	Frag	4	6	Actual	MD	579019.49	3751723.45	579019.19	3751723.37	0.304	0.082
6/13/07 12:38 PM	438	90-17-438		-5	30	0	0	Soils	1	0	Approximate	Soils	579001.31	3751744.30	579001.49	3751744.13	-0.184	0.166
6/18/07 2:54 PM	439	90-15-439		36	29	-45	10	Baseplate	6	11	Actual	MD	579057.62	3751518.13	579057.54	3751518.06	0.082	0.067
6/18/07 3:14 PM	440	90-15-440		87	8	-90	40	Frag	7	1	Actual	MD	579067.65	3751519.54	579067.47	3751519.21	0.179	0.331
6/25/07 3:25 PM	441	90-15-441		---	8	0	0	Rock	---	2	Actual	Rock	579069.80	3751520.50	579069.68	3751520.62	0.123	-0.115
6/18/07 3:13 PM	442	90-15-442		63	93	0	0	Soils	5	0	Actual	Soils	579052.38	3751521.46	579052.05	3751521.39	0.335	0.071
6/19/07 8:07 AM	443	90-15-443		5	4	0	180	Frag	2	12	Actual	MD	579033.01	3751521.61	579033.07	3751521.59	-0.059	0.018
6/18/07 2:48 PM	444	90-15-444		101	90	-90	180	Seeds	12	45	Approximate	Seed Item	579056.94	3751522.45	579056.57	3751522.55	0.37	-0.102

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/18/07 11:34 AM	445	90-15-445		8	2	0	0	Frag	2	6	Actual	MD	579038.15	3751522.96	579038.13	3751523.31	0.019	-0.349
6/19/07 9:24 AM	446	90-15-446		87	117	0	0	Soils	6	0	Actual	Soils	579035.57	3751525.86	579035.80	3751526.25	-0.233	-0.388
6/18/07 12:02 PM	447	90-15-447		34	21	45	30	Nose Frag	6	7	Actual	MD	579031.18	3751526.53	579031.14	3751526.61	0.042	-0.077
6/18/07 3:16 PM	448	90-15-448		7	9	0	180	Frag	3	12	Actual	MD	579050.50	3751529.73	579050.45	3751529.83	0.049	-0.102
6/18/07 11:59 AM	449	90-15-449		24	13	-45	60	Baseplate	5	11	Actual	MD	579034.04	3751529.81	579034.02	3751529.84	0.02	-0.032
6/18/07 1:52 PM	450	90-15-450		31	2	0	100	Frag	2	4	Actual	MD	579058.16	3751529.72	579058.19	3751529.61	-0.031	0.115
6/18/07 11:40 AM	451	90-15-451		60	10	0	0	Rock	4	2	Actual	Rock	579041.54	3751530.95	579041.41	3751531.04	0.129	-0.086
6/18/07 2:02 PM	452	90-15-452		62	92	0	0	Soils	5	0	Actual	Soils	579069.39	3751530.82	579068.98	3751530.82	0.41	0.005
6/18/07 11:35 AM	453	90-15-453		9	8	-90	180	Frag	2	6	Actual	MD	579038.75	3751530.95	579038.51	3751530.73	0.242	0.217
6/18/07 11:30 AM	454	90-15-454		5	0	-90	20	Baseplate	5	11	Actual	MD	579045.11	3751531.17	579045.13	3751531.23	-0.017	-0.061
6/18/07 11:39 AM	455	90-15-455		17	9	-45	340	Frag	3	11	Actual	MD	579036.56	3751531.77	579036.54	3751531.92	0.025	-0.152
6/18/07 11:57 AM	456	90-15-456		10	8	0	140	Frag	2	7	Actual	MD	579033.73	3751532.81	579033.89	3751532.72	-0.156	0.086
6/18/07 1:47 PM	457	90-15-457		26	20	-90	10	Frag	4	8	Actual	MD	579062.22	3751532.90	579062.16	3751532.94	0.063	-0.041
6/18/07 11:26 AM	458	90-15-458		13	5	0	0	Rock	2	2	Actual	Rock	579050.13	3751533.73	579049.99	3751533.81	0.14	-0.081
6/18/07 2:11 PM	459	90-15-459		54	41	0	120	Nose Frag	6	7	Actual	MD	579054.84	3751533.83	579054.78	3751533.91	0.06	-0.078
6/25/07 12:17 PM	460	90-15-460		14	5	0	40	Frag	3	12	Actual	MD	579064.59	3751534.13	579064.52	3751534.06	0.066	0.07
6/18/07 11:43 AM	461	90-15-461		16	8	-90	20	Frag	3	7	Actual	MD	579040.37	3751534.34	579040.36	3751534.42	0.011	-0.082
6/18/07 11:22 AM	462	90-15-462		46	2	0	0	Rock	5	2	Actual	Rock	579036.53	3751536.49	579036.44	3751536.43	0.094	0.062
6/18/07 11:55 AM	463	90-15-463		9	5	-45	170	Frag	2	16	Actual	MD	579029.54	3751536.51	579029.55	3751536.59	-0.013	-0.084
6/19/07 8:21 AM	464	90-15-464		17	20	0	190	Frag	3	12	Actual	MD	579021.49	3751538.49	579021.56	3751538.36	-0.071	0.13
6/18/07 11:37 AM	465	90-15-465		45	2	0	0	Rock	4	1	Actual	Rock	579056.72	3751538.15	579056.85	3751538.33	-0.132	-0.176
6/18/07 11:44 AM	466	90-15-466		2	0	-90	40	Baseplate	4	11	Actual	MD	579040.63	3751538.57	579040.69	3751538.43	-0.055	0.142
6/18/07 3:19 PM	467	90-15-467		2	2	0	120	Frag	2	10	Actual	MD	579045.07	3751538.64	579045.09	3751538.61	-0.024	0.028
6/25/07 2:02 PM	468	90-15-468		---	6	0	0	Rock	---	2	Actual	Rock	579026.50	3751540.50	579026.38	3751540.45	0.125	0.049
6/19/07 9:33 AM	469	90-15-469		62	55	45	340	Seeds	10	45	Actual	Seed Item	579033.63	3751541.03	579033.71	3751540.76	-0.075	0.273
6/19/07 8:16 AM	470	90-15-470		14	6	-45	20	Frag	3	9	Actual	MD	579019.95	3751540.89	579019.99	3751541.14	-0.041	-0.253
6/19/07 9:36 AM	471	90-15-471		45	75	0	0	Soils	3	0	Actual	Soils	579029.44	3751541.93	579029.47	3751542.17	-0.025	-0.236
6/19/07 8:17 AM	472	90-15-472		19	20	-45	270	Seeds	19	45	Actual	Seed Item	579023.63	3751542.25	579023.77	3751542.20	-0.144	0.048
6/18/07 11:45 AM	473	90-15-473		-4	4	0	0	Rock	4	2	Actual	Rock	579037.57	3751542.90	579037.44	3751543.13	0.131	-0.227
6/25/07 12:00 PM	474	90-15-474		14	6	0	40	Scrap Metal	2	5	Actual	Cultural	579041.64	3751542.95	579041.83	3751543.03	-0.186	-0.078
6/18/07 10:54 AM	475	90-15-475		40	12	-45	30	Frag	7	11	Actual	MD	579058.81	3751543.40	579058.72	3751543.21	0.095	0.187
6/18/07 10:35 AM	476	90-15-476		21	13	0	20	Frag	3	7	Actual	MD	579041.89	3751545.24	579041.93	3751545.28	-0.037	-0.044
6/18/07 10:41 AM	477	90-15-477		34	25	0	50	Baseplate	6	12	Actual	MD	579057.99	3751545.73	579058.07	3751545.74	-0.076	-0.008
6/19/07 8:28 AM	478	90-15-478		17	8	0	120	Frag	3	12	Actual	MD	579022.05	3751546.56	579022.24	3751546.14	-0.193	0.416
6/19/07 8:26 AM	479	90-15-479		11	20	0	0	Frag	2	3	Approximate	MD	579025.46	3751547.26	579025.47	3751547.37	-0.012	-0.11
6/18/07 11:46 AM	480	90-15-480		6	0	0	0	Rock	1	2	Actual	Rock	579037.03	3751547.01	579037.11	3751547.02	-0.079	-0.008
6/19/07 8:22 AM	481	90-15-481		28	7	0	0	Frag	3	2	Actual	MD	579029.12	3751547.36	579028.78	3751547.36	0.342	0.001
6/25/07 12:12 PM	482	90-15-482		---	11	0	80	Frag	---	6	Actual	MD	579046.50	3751547.50	579046.38	3751547.43	0.12	0.07
6/18/07 10:32 AM	483	90-15-483		18	12	-90	100	Frag	5	13	Actual	MD	579047.46	3751549.30	579047.42	3751549.32	0.04	-0.018
6/18/07 11:50 AM	484	90-15-484		48	1	0	20	Nose Frag	4	7	Actual	MD	579040.37	3751549.84	579040.40	3751549.68	-0.034	0.157
6/18/07 11:48 AM	485	90-15-485		51	7	0	0	Rock	3	2	Actual	Rock	579037.95	3751550.25	579037.87	3751550.15	0.083	0.101
6/19/07 8:31 AM	486	90-15-486		13	7	0	70	Frag	4	7	Actual	MD	579021.61	3751550.15	579021.69	3751549.98	-0.076	0.166
6/18/07 10:25 AM	487	90-15-487		51	3	0	0	Rock	4	2	Actual	Rock	579061.37	3751550.51	579061.42	3751550.65	-0.053	-0.137
6/19/07 8:32 AM	488	90-15-488		32	5	0	0	Rock	2	3	Actual	Rock	579015.73	3751550.61	579015.90	3751550.81	-0.171	-0.2
6/18/07 11:51 AM	489	90-15-489		11	2	0	0	Rock	2	1	Actual	Rock	579037.56	3751552.38	579037.46	3751552.68	0.102	-0.301

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/18/07 10:28 AM	490	90-15-490		4	1	0	40	Nose Frag	2	7	Actual	MD	579052.07	3751552.86	579052.09	3751552.88	-0.015	-0.017
6/19/07 8:34 AM	491	90-15-491		32	30	-45	120	Seeds	2	45	Actual	Seed Item	579013.18	3751552.98	579013.09	3751553.03	0.09	-0.051
6/19/07 8:24 AM	492	90-15-492		8	4	-45	240	Frag	4	13	Actual	MD	579026.23	3751553.65	579026.29	3751553.62	-0.06	0.027
6/18/07 3:23 PM	493	90-15-493		41	8	0	0	Rock	3	3	Actual	Rock	579041.68	3751553.70	579041.63	3751553.72	0.051	-0.02
6/19/07 8:26 AM	494	90-15-494		5	5	0	0	Rock	1	3	Approximate	Rock	579032.13	3751553.70	579032.17	3751553.94	-0.036	-0.243
6/18/07 10:03 AM	495	90-15-495		20	4	0	120	Frag	3	2	Approximate	MD	579046.95	3751554.33	579046.96	3751554.28	-0.013	0.047
6/18/07 10:11 AM	496	90-15-496		17	2	0	120	Frag	3	6	Actual	MD	579042.43	3751555.71	579042.48	3751555.66	-0.049	0.048
6/14/07 11:59 AM	497	90-15-497		11	0	60	0	Baseplate	6	11	Actual	MD	579007.72	3751555.44	579007.91	3751555.62	-0.192	-0.184
6/18/07 10:08 AM	498	90-15-498		7	3	-45	120	Baseplate	4	11	Actual	MD	579044.62	3751555.63	579044.61	3751555.60	0.01	0.033
6/18/07 9:35 AM	499	90-15-499		15	3	330	-90	Frag	3	10	Actual	MD	579050.76	3751556.26	579050.71	3751556.13	0.054	0.131
6/18/07 10:14 AM	500	90-15-500		11	5	0	90	Nose Frag	2	7	Actual	MD	579065.65	3751555.70	579065.64	3751555.72	0.013	-0.017
6/19/07 8:36 AM	501	90-15-501		2	6	0	120	Frag	2	6	Actual	MD	579018.80	3751556.10	579018.86	3751556.14	-0.059	-0.035
6/19/07 8:30 AM	502	90-15-502		11	6	0	0	Rock	2	2	Actual	Rock	579029.31	3751556.96	579029.05	3751556.97	0.258	-0.006
6/19/07 8:40 AM	503	90-15-503		18	15	-90	60	Frag	2	8	Actual	MD	579024.98	3751557.65	579024.91	3751557.74	0.066	-0.094
6/18/07 10:22 AM	504	90-15-504		18	5	0	0	Frag	3	8	Actual	MD	579064.15	3751559.08	579064.12	3751559.06	0.035	0.02
6/14/07 11:57 AM	505	90-15-505		7	0	40	-90	Baseplate	5	11	Actual	MD	579010.51	3751559.58	579010.55	3751559.59	-0.037	-0.011
6/18/07 1:18 PM	506	90-15-506		53	30	0	180	Seeds	10	45	Actual	Seed Item	579067.17	3751559.81	579067.04	3751559.69	0.127	0.124
6/18/07 1:15 PM	507	90-15-507		19	10	-45	160	Halfshell	12	33	Actual	MD	579055.92	3751560.11	579056.01	3751559.97	-0.089	0.139
6/18/07 3:24 PM	508	90-15-508		4	2	0	50	Frag	2	9	Actual	MD	579041.64	3751561.79	579041.69	3751561.71	-0.049	0.078
6/14/07 11:54 AM	509	90-15-509		29	4	0	0	Rock	2	3	Actual	Rock	579013.14	3751562.27	579013.42	3751562.05	-0.282	0.221
6/18/07 10:17 AM	510	90-15-510		13	4	0	160	Nose Frag	2	7	Actual	MD	579069.75	3751562.48	579069.65	3751562.59	0.096	-0.112
6/14/07 10:24 AM	511	90-15-511		21	5	60	0	Frag	3	6	Actual	MD	579044.78	3751562.63	579044.56	3751562.77	0.222	-0.14
6/14/07 2:05 PM	512	90-15-512		75	60	120	0	Seeds	9	45	Actual	Seed Item	579018.70	3751563.64	579018.84	3751563.58	-0.144	0.061
6/14/07 11:56 AM	513	90-15-513		33	0	100	0	Scrap Metal	4	7	Actual	Cultural	579014.36	3751564.25	579014.25	3751564.65	0.106	-0.4
6/14/07 11:47 AM	514	90-15-514		16	1	0	-90	Scrap Metal	2	8	Actual	Cultural	579023.07	3751564.25	579023.30	3751564.26	-0.228	-0.006
6/14/07 1:57 PM	515	90-15-515		39	35	20	-45	Halfshell	11	31	Actual	MD	579048.34	3751565.43	579048.49	3751564.98	-0.151	0.451
6/25/07 3:23 PM	516	90-15-516		41	4	0	0	Rock	3	2	Actual	Rock	579068.41	3751565.30	579068.59	3751565.58	-0.177	-0.278
6/14/07 10:25 AM	517	90-15-517		-3	2	0	0	Rock	1	2	Actual	Rock	579033.18	3751565.72	579033.21	3751565.74	-0.025	-0.015
6/14/07 2:00 PM	518	90-15-518		56	40	0	90	Seeds	12	45	Actual	Seed Item	579042.14	3751566.48	579042.46	3751566.61	-0.321	-0.13
6/14/07 2:12 PM	519	90-15-519		71	101	0	0	Soils	9	0	Actual	Soils	579012.74	3751567.56	579013.05	3751567.55	-0.307	0.01
6/14/07 12:01 PM	520	90-15-520		6	0	0	0	Scrap Metal	7	40	Actual	Cultural	579008.78	3751568.00	579008.52	3751568.22	0.264	-0.218
6/14/07 10:53 AM	521	90-15-521		11	0	170	-60	Baseplate	6	12	Actual	MD	579029.03	3751568.69	579029.08	3751568.74	-0.049	-0.054
6/14/07 10:55 AM	522	90-15-522		80	6	0	0	Rock	6	3	Actual	Rock	579031.02	3751571.64	579030.98	3751571.65	0.043	-0.009
6/14/07 12:06 PM	523	90-15-523		6	2	0	0	Rock	2	1	Actual	Rock	579018.83	3751573.11	579018.85	3751573.16	-0.018	-0.05
6/14/07 11:04 AM	524	90-15-524		10	3	120	0	Frag	4	11	Actual	MD	579041.90	3751573.99	579041.80	3751573.95	0.097	0.042
6/19/07 9:49 AM	525	90-15-525		48	78	0	75	Soils	2	0	Actual	Soils	579013.30	3751574.34	579013.60	3751574.41	-0.298	-0.067
6/14/07 2:50 PM	526	90-15-526		27	20	80	0	Nose Frag	4	7	Actual	MD	579026.29	3751574.64	579026.25	3751574.58	0.045	0.061
6/14/07 12:14 PM	527	90-15-527		-3	0	90	0	Scrap Metal	1	7	Actual	Cultural	579016.35	3751576.14	579016.50	3751576.16	-0.154	-0.024
8/1/07 12:18 PM	528	90-15-528		33	63	0	0	No Contact	12	0	Actual	No Contacts	579007.80	3751577.10	579007.98	3751577.14	-0.18	-0.04
6/14/07 11:01 AM	529	90-15-529		61	10	0	0	Rock	5	1	Actual	Rock	579034.65	3751578.18	579034.49	3751578.37	0.163	-0.187
6/14/07 11:08 AM	530	90-15-530		13	6	0	0	Rock	2	2	Actual	Rock	579040.75	3751578.69	579040.52	3751578.81	0.233	-0.119
6/14/07 2:43 PM	531	90-15-531		59	50	60	-45	Seeds	10	45	Actual	Seed Item	579024.28	3751579.60	579024.30	3751579.66	-0.016	-0.056
6/19/07 9:45 AM	532	90-15-532		---	25	-90	150	Halfshell	---	30	Actual	MD	579007.87	3751577.03	579007.87	3751577.03	0	0
6/19/07 9:55 AM	533	90-15-533		42	72	0	0	Soils	3	0	Actual	Soils	579013.30	3751580.72	579013.29	3751580.74	0.014	-0.022
6/14/07 12:39 PM	534	90-15-534		5	3	70	0	Frag	4	9	Actual	MD	579007.41	3751582.21	579007.49	3751582.29	-0.083	-0.081

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Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
6/14/07 11:02 AM	535	90-15-535		42	0	0	0	Frag	5	8	Actual	MD	579036.54	3751582.31	579036.69	3751582.55	-0.147	-0.24
6/14/07 11:12 AM	536	90-15-536		50	15	0	0	Rock	6	1	Actual	Rock	579041.30	3751582.68	579041.15	3751582.49	0.149	0.195
6/19/07 10:05 AM	537	90-15-537		81	111	0	0	Soils	5	0	Actual	Soils	579012.40	3751583.32	579012.31	3751583.40	0.092	-0.083
6/14/07 1:49 PM	538	90-15-538		1	0	170	0	Frag	2	7	Actual	MD	579027.58	3751585.64	579027.59	3751585.74	-0.014	-0.103
6/14/07 12:15 PM	539	90-15-539		40	25	250	-45	Nose Frag	6	7	Actual	MD	579009.83	3751586.81	579009.82	3751587.01	0.013	-0.202
6/14/07 11:16 AM	540	90-15-540		16	5	0	0	Rock	2	2	Actual	Rock	579043.89	3751587.13	579043.85	3751587.10	0.04	0.033
6/14/07 1:37 PM	541	90-15-541		16	1	0	0	Rock	2	3	Actual	Rock	579031.55	3751588.36	579031.61	3751588.33	-0.061	0.027
6/14/07 11:18 AM	542	90-15-542		21	10	140	-45	Frag	3	6	Actual	MD	579041.49	3751588.65	579041.47	3751588.63	0.024	0.024
6/19/07 10:13 AM	543	90-15-543		44	38	-45	320	Halfshell	13	30	Actual	MD	579009.61	3751589.06	579009.74	3751589.05	-0.126	0.012
6/19/07 10:41 AM	544	90-15-544		40	70	0	0	Soils	4	0	Actual	Soils	579025.97	3751591.08	579026.34	3751590.91	-0.371	0.166
6/14/07 11:25 AM	545	90-15-545		31	13	0	0	Rock	2	2	Actual	Rock	579043.17	3751591.17	579043.23	3751591.31	-0.058	-0.14
6/25/07 12:22 PM	546	90-15-546		---	3	0	0	Rock	---	2	Actual	Rock	579023.50	3751591.80	579023.62	3751592.03	-0.115	-0.225
6/19/07 10:31 AM	547	90-15-547		96	126	0	0	Soils	4	0	Actual	Soils	579007.34	3751592.99	579007.29	3751593.03	0.055	-0.04
6/19/07 11:28 AM	548	90-15-548		77	107	0	0	Soils	6	0	Actual	Soils	579019.42	3751593.50	579019.43	3751593.61	-0.006	-0.105
6/19/07 10:42 AM	549	90-15-549		20	30	-60	170	Seeds	7	45	Actual	Seed Item	579024.78	3751594.28	579024.75	3751594.31	0.033	-0.03
6/14/07 1:38 PM	550	90-15-550		60	6	0	0	Rock	5	1	Actual	Rock	579030.37	3751594.41	579030.40	3751594.33	-0.033	0.078
6/19/07 10:47 AM	551	90-15-551		108	138	0	0	Soils	8	0	Actual	Soils	579027.39	3751596.65	579027.15	3751597.14	0.237	-0.485
6/18/07 12:10 PM	552	90-15-552		20	0	-90	0	Scrap Metal	3	20	Actual	Corner Stake	579035.13	3751517.99	579034.97	3751518.11	0.165	-0.119
6/18/07 3:11 PM	553	90-15-553		31	0	-90	0	Scrap Metal	5	20	Actual	Corner Stake	579069.57	3751517.87	579070.04	3751518.02	-0.468	-0.146
6/19/07 8:09 AM	554	90-15-554		8	20	0	0	Nose Frag	1	7	Approximate	MD	579020.96	3751536.49	579020.78	3751536.40	0.179	0.087
6/14/07 10:23 AM	555	90-15-555		11	0	0	-90	Corner Stake	3	20	Actual	Cultural	579046.01	3751566.21	579046.05	3751566.04	-0.044	0.175
6/14/07 2:54 PM	556	90-15-556		14	23	0	0	Nose Frag	2	7	Actual	MD	579029.09	3751573.64	579029.05	3751573.59	0.04	0.051
6/14/07 11:11 AM	557	90-15-557		15	1	0	0	Rock	2	1	Actual	Rock	579044.11	3751580.12	579043.79	3751579.99	0.324	0.127
6/19/07 11:22 AM	558	90-15-558		51	81	0	0	Soils	5	0	Actual	Soils	579021.57	3751592.57	579021.94	3751592.84	-0.365	-0.273
6/14/07 1:39 PM	559	90-15-559		85	0	0	0	Rock	8	2	Actual	Rock	579031.36	3751597.36	579031.30	3751597.56	0.062	-0.202
6/18/07 11:42 AM	560	90-15-560		101	6	0	80	Frag	9	6	Actual	MD	579042.33	3751533.64	579042.24	3751533.69	0.093	-0.051
6/18/07 1:43 PM	561	90-15-561		45	10	0	180	Frag	3	10	Actual	MD	579067.92	3751535.54	579068.28	3751535.53	-0.362	0.012
6/18/07 3:08 PM	562	90-15-562		47	77	0	0	Soils	5	0	Actual	Soils	579063.71	3751521.44	579063.24	3751521.74	0.47	-0.298
6/25/07 2:59 PM	563	90-15-563		116	146	0	0	Soils	12	0	Actual	Soils	579069.49	3751542.23	579069.51	3751542.85	-0.017	-0.617
6/18/07 1:22 PM	564	90-15-564		169	191	0	0	Soils	16	0	Actual	Soils	579068.03	3751545.96	579068.47	3751545.82	-0.435	0.141
6/18/07 3:22 PM	565	90-15-565		75	105	0	0	Soils	8	0	Actual	Soils	579046.02	3751551.27	579045.68	3751551.32	0.338	-0.048
6/14/07 11:50 AM	566	90-15-566		43	0	80	0	Scrap Metal	1	7	Actual	Cultural	579013.96	3751560.00	579013.64	3751559.97	0.316	0.029
6/19/07 8:38 AM	567	90-15-567		20	3	0	0	Rock	2	2	Actual	Rock	579024.50	3751560.09	579024.53	3751560.19	-0.025	-0.098
6/19/07 9:14 AM	568	90-15-568		142	171	0	0	Soils	11	0	Actual	Soils	579035.56	3751523.28	579035.58	3751523.76	-0.018	-0.484
6/14/07 2:40 PM	569	90-15-569		165	91	0	0	Soils	61	0	Actual	Soils	579016.80	3751571.92	579016.68	3751572.26	0.124	-0.342
6/14/07 1:54 PM	570	90-15-570		68	7	80	-90	Frag	6	6	Actual	MD	579043.06	3751576.60	579043.25	3751576.35	-0.193	0.254
6/14/07 1:51 PM	571	90-15-571		11	4	40	0	Frag	1	11	Actual	MD	579029.84	3751586.45	579029.78	3751586.52	0.064	-0.068
6/13/07 3:44 PM	572	90-16-572		64	7	0	0	Rock	6	4	Actual	Rock	579035.35	3751600.67	579035.39	3751601.11	-0.042	-0.435
6/13/07 3:31 PM	573	90-16-573		29	26	0	260	Nose Frag	5	11	Actual	MD	579045.13	3751601.33	579045.17	3751601.29	-0.043	0.041
6/13/07 3:45 PM	574	90-16-574		31	20	0	0	Rock	3	2	Actual	Rock	579033.49	3751603.07	Rock			
6/13/07 3:27 PM	575	90-16-575		7	4	0	130	Frag	2	8	Actual	MD	579044.18	3751603.62	579044.15	3751603.50	0.028	0.118
6/13/07 3:49 PM	576	90-16-576		-1	9	0	0	Rock	1	3	Actual	Rock	579027.69	3751605.30	579027.78	3751605.72	-0.092	-0.422
6/13/07 3:46 PM	577	90-16-577		14	14	0	150	Nose Frag	3	7	Actual	MD	579033.12	3751606.61	579033.00	3751606.65	0.117	-0.036
6/19/07 11:38 AM	578	90-16-578		-1	0	-45	270	Baseplate	1	11	Actual	MD	579016.06	3751610.49	579016.06	3751610.44	0.002	0.055
6/19/07 11:39 AM	579	90-16-579		42	30	-45	90	Seeds	12	45	Actual	Seed Item	579011.82	3751611.37	579011.79	3751611.42	0.031	-0.045

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

			Mag-N Flag ID	(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/19/07 11:44 AM	580	90-16-580		10	5	0	0	Rock	2	2	Actual	Rock	579013.01	3751615.23	579013.00	3751615.22	0.009	0.011
6/14/07 1:46 PM	581	90-16-581		7	0	180	-45	Baseplate	5	12	Actual	MD	579021.14	3751615.83	579021.13	3751615.84	0.006	-0.009
6/19/07 11:55 AM	582	90-16-582		30	4	0	0	Rock	2	2	Actual	Rock	579024.65	3751615.73	579024.77	3751615.87	-0.121	-0.14
6/14/07 1:42 PM	583	90-16-583		50	4	0	0	Rock	4	2	Actual	Rock	579031.08	3751616.44	579030.84	3751616.59	0.242	-0.147
6/12/07 3:31 PM	584	90-16-584		95	81	90	0	Seeds	13	45	Actual	Seed Item	579038.48	3751619.90	579038.53	3751619.74	-0.045	0.165
6/19/07 11:47 AM	585	90-16-585		2	3	0	0	Rock	1	1	Actual	Rock	579007.96	3751620.92	579007.93	3751620.86	0.028	0.062
6/13/07 3:23 PM	586	90-16-586		19	17	-45	100	Nose Frag	2	8	Actual	MD	579045.09	3751621.07	579045.14	3751621.14	-0.052	-0.068
6/12/07 3:03 PM	587	90-16-587		13	11	-90	110	Frag	3	9	Actual	MD	579020.99	3751621.87	579021.05	3751621.59	-0.06	0.284
6/12/07 3:07 PM	588	90-16-588		6	3	0	140	Frag	3	10	Actual	MD	579012.99	3751622.68	579013.17	3751622.46	-0.179	0.218
6/12/07 3:01 PM	589	90-16-589		13	1	0	0	Rock	2	3	Actual	Rock	579021.73	3751624.10	579021.71	3751624.02	0.021	0.079
6/12/07 3:16 PM	590	90-16-590		41	22	-90	180	Baseplate	7	14	Actual	MD	579010.82	3751624.31	579010.93	3751624.03	-0.105	0.278
6/13/07 3:20 PM	591	90-16-591		14	1	45	240	Nose Frag	3	7	Actual	MD	579039.10	3751625.33	579039.07	3751625.31	0.031	0.021
6/14/07 1:45 PM	592	90-16-592		14	5	0	0	Rock	1	3	Actual	Rock	579025.23	3751626.59	579025.70	3751626.78	-0.467	-0.189
6/14/07 1:44 PM	593	90-16-593		8	1	0	0	Rock	1	2	Actual	Rock	579027.20	3751626.95	579027.15	3751627.13	0.048	-0.179
6/19/07 11:57 AM	594	90-16-594		27	27	0	0	Nose Frag	3	7	Actual	MD	579010.14	3751628.25	579009.72	3751628.17	0.424	0.082
6/19/07 11:53 AM	595	90-16-595		40	7	0	0	Rock	3	2	Actual	Rock	579013.40	3751628.84	579013.29	3751628.60	0.115	0.244
6/12/07 2:59 PM	596	90-16-596		17	1	0	0	Rock	2	2	Actual	Rock	579020.24	3751628.95	579020.36	3751629.01	-0.124	-0.06
6/13/07 3:19 PM	597	90-16-597		6	3	0	170	Frag	3	5	Actual	MD	579044.01	3751629.86	579043.96	3751629.88	0.048	-0.021
6/12/07 3:22 PM	598	90-16-598		-9	0	-90	0	Corner Stake	2	20	Actual	Cultural	579007.04	3751630.00	579007.15	3751629.75	-0.109	0.25
6/13/07 3:16 PM	599	90-16-599		35	0	-90	0	Scrap Metal	3	20	Actual	Cultural	579046.07	3751629.88	579045.95	3751629.88	0.116	0.004
6/13/07 3:53 PM	600	90-16-600		3	3	0	0	Rock	2	2	Actual	Rock	579029.91	3751614.10	579029.72	3751614.23	0.186	-0.131
6/12/07 3:29 PM	601	90-16-601		81	5	0	0	Soils	4	0	Actual	Soils	579032.65	3751619.63	579032.26	3751619.74	0.395	-0.109
6/14/07 1:43 PM	602	90-16-602		84	4	0	0	Rock	7	3	Actual	Rock	579030.90	3751622.71	579030.38	3751622.98	0.523	-0.265
6/25/07 11:17 AM	602	90-16-602		84	5	0	0	Rock	7	2	Actual	Rock	579030.90	3751622.71	579030.38	3751622.98	0.523	-0.265
7/24/07 12:16 PM	603	82-13-603		25	0	-90	0	Corner Stake	2.8	20	Actual	Cultural	578266.05	3751350.02	578266.00	3751350.05	0.048	-0.025
7/23/07 10:01 AM	604	84-13-604		-6.4	1	0	0	Rock	0.9	2	Actual	Rock	578472.68	3751349.88	578472.77	3751349.69	-0.09	0.198
7/23/07 9:58 AM	605	85-13-605		28.5	0	NM	NM	Corner Stake	2.8	20	NM	Cultural	578500.29	3751349.96	578500.00	3751350.06	0.291	-0.106
7/10/07 11:17 AM	606	83-13-606		9.4	0	60	0	Scrap Metal	2.2	8	Actual	Cultural	578337.85	3751350.45	578337.83	3751350.35	0.023	0.102
7/10/07 2:28 PM	607	83-13-607		53.4	30	0	0	Soils	3.4	0	Actual	Soils	578308.57	3751351.03	578308.46	3751351.13	0.104	-0.095
7/10/07 3:00 PM	608	83-13-608		24.2	40	0	0	Soils	1.7	0	Actual	Soils	578358.46	3751350.76	578358.43	3751350.88	0.033	-0.12
7/10/07 2:44 PM	609	83-13-609		-4.7	4	0	0	Rock	1.1	2	Actual	Rock	578347.84	3751352.73	578347.83	3751352.69	0.005	0.038
7/10/07 10:17 AM	610	83-13-610		5.4	0	0	-90	Baseplate	3.7	12	Actual	MD	578372.94	3751352.40	578372.93	3751352.37	0.011	0.029
7/26/07 10:50 AM	611	82-13-611		59.3	60	90	0	Seeds	8.2	45	Actual	Seed Item	578270.18	3751352.99	578270.11	3751352.90	0.078	0.093
7/10/07 2:41 PM	612	83-13-612		101.7	20	0	0	Rock	5.4	3	Actual	Rock	578345.10	3751353.49	578345.05	3751353.42	0.051	0.07
7/10/07 2:48 PM	613	83-13-613		60	6	0	0	Rock	3.9	2	Actual	Rock	578349.96	3751354.14	578350.11	3751354.10	-0.152	0.038
7/10/07 10:04 AM	614	83-13-614		25.1	15	120	-45	Halfshell	6.8	30	Actual	MD	578395.08	3751354.17	578395.11	3751354.08	-0.024	0.091
7/10/07 9:55 AM	615	84-13-615		45.9	16	180	-45	Halfshell	6.8	30	Actual	MD	578401.34	3751355.14	578401.39	3751355.13	-0.047	0.009
7/23/07 11:17 AM	616	84-13-616		76	106	0	0	Soils	3.6	0	Actual	Soils	578427.58	3751355.72	578427.43	3751356.00	0.151	-0.28
7/24/07 12:17 PM	617	82-13-617		10.9	0	0	320	Halfshell	4.5	20	Actual	MD	578274.74	3751356.69	578274.71	3751356.60	0.028	0.096
7/10/07 10:22 AM	618	83-13-618		73.6	30	80	-90	Halfshell	8	30	Actual	MD	578363.95	3751356.32	578363.92	3751356.40	0.023	-0.083
7/10/07 10:07 AM	619	83-13-619		25	6	0	0	Nose Frag	2.1	6	Actual	MD	578390.11	3751356.65	578390.37	3751356.23	-0.254	0.417
7/26/07 11:02 AM	620	82-13-620		107.3	100	0	180	Seeds	8.8	45	Actual	Seed Item	578293.94	3751357.93	578294.10	3751357.93	-0.153	-0.003
7/23/07 9:59 AM	621	84-13-621		1.1	3	NM	NM	Frag	3.7	20	NM	MD	578493.58	3751358.00	578493.53	3751357.93	0.047	0.065
7/10/07 2:50 PM	622	83-13-622		43.7	30	0	0	Soils	3.4	0	Actual	Soils	578357.25	3751358.87	578357.21	3751358.62	0.042	0.247
7/10/07 9:40 AM	623	84-13-623		16.6	5	180	0	Halfshell	7.9	30	Actual	MD	578406.02	3751359.31	578405.94	3751359.22	0.078	0.089

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/10/07 11:29 AM	624	83-13-624		4.1	10	0	0	Frag	1.6	7	Actual	MD	578307.89	3751359.25	578307.77	3751359.40	0.125	-0.154
7/10/07 9:46 AM	625	84-13-625		60.4	40	170	-90	Halfshell	7.3	30	Actual	MD	578401.56	3751360.02	578401.49	3751360.04	0.063	-0.017
7/10/07 10:19 AM	626	83-13-626		63.9	20	0	0	Rock	4.1	4	Actual	Rock	578370.13	3751360.87	578369.90	3751361.17	0.233	-0.298
7/10/07 2:57 PM	627	83-13-627		56.5	15	0	0	Soils	3.4	0	Actual	Soils	578374.87	3751360.06	578374.73	3751359.97	0.142	0.094
7/23/07 11:15 AM	628	84-13-628		77.6	30	-90	0	Seeds	10.9	45	Approximate	Seed Item	578443.40	3751360.72	578443.03	3751360.65	0.368	0.069
7/26/07 10:58 AM	629	82-13-629		62.8	35	-90	240	Seeds	9.1	30	Actual	Seed Item	578283.71	3751360.86	578283.54	3751360.90	0.168	-0.038
7/10/07 11:25 AM	630	83-13-630		52.8	6	290	0	Frag	2.9	10	Actual	MD	578318.77	3751361.16	578318.71	3751361.30	0.061	-0.139
7/10/07 10:39 AM	631	83-13-631		4.2	5	0	0	Nose Frag	1.8	7	Actual	MD	578328.00	3751362.20	578328.00	3751362.23	0.006	-0.033
7/10/07 9:42 AM	632	84-13-632		33.7	12	120	-90	Frag	2.3	13	Actual	MD	578408.73	3751362.01	578408.66	3751361.90	0.069	0.11
7/10/07 9:37 AM	633	84-13-633		25.2	15	270	0	Seeds	8.4	45	Actual	Seed Item	578415.39	3751362.10	578415.42	3751362.05	-0.03	0.047
7/24/07 12:20 PM	634	82-13-634		69	25	-90	0	Scrap Metal	9.9	15	Actual	Cultural	578274.81	3751363.50	578274.73	3751363.47	0.08	0.03
7/10/07 10:32 AM	635	83-13-635		17	4	90	0	Frag	3.3	14	Actual	MD	578341.56	3751363.97	578341.45	3751363.78	0.104	0.191
7/10/07 10:11 AM	636	83-13-636		63.6	60	0	90	Seeds	8.3	45	Actual	Seed Item	578380.52	3751364.03	578380.38	3751363.99	0.138	0.036
7/23/07 10:03 AM	637	84-13-637		20.8	10	0	120	Frag	2	11	Actual	MD	578473.51	3751364.88	578473.55	3751364.88	-0.04	-0.006
7/26/07 10:47 AM	638	82-13-638		69	60	-90	0	Seeds	9.9	45	Actual	Seed Item	578272.03	3751365.26	578272.09	3751365.34	-0.06	-0.083
7/10/07 11:31 AM	639	83-13-639		32.8	6	80	0	Scrap Metal	2	8	Actual	Cultural	578309.41	3751365.39	578309.53	3751365.42	-0.114	-0.032
6/26/07 2:26 PM	640	82-13-640		26.6	0	-90	0	Scrap Metal	3.1	20	Actual	Cultural	578250.11	3751366.23	578250.05	3751366.04	0.065	0.186
7/10/07 11:34 AM	641	83-13-641		19.2	5	60	0	Frag	2	7	Approximate	MD	578303.18	3751365.66	578303.13	3751365.51	0.049	0.151
7/10/07 11:21 AM	642	83-13-642		6.7	3	0	0	Rock	1.6	3	Actual	Rock	578354.64	3751366.87	578354.41	3751366.69	0.224	0.18
8/1/07 10:44 AM	643	82-13-643		114.7	110	90	0	Seeds	8.3	45	Actual	Seed Item	578257.00	3751368.17	578257.00	3751367.90	0.00	0.27
8/1/07 11:01 AM	644	82-13-644		33.3	63	0	0	Soils	1.8	0	Actual	Soils	578261.69	3751369.13	578261.86	3751369.75	-0.16	-0.62
7/10/07 10:14 AM	645	83-13-645		69.2	2	0	0	Rock	2.8	2	Actual	Rock	578379.17	3751369.33	578378.97	3751369.17	0.197	0.162
7/23/07 10:27 AM	646	84-13-646		14.5	1	0	90	Horseshoe	2.4	14	Actual	Cultural	578466.90	3751368.76	578466.75	3751368.54	0.144	0.214
7/23/07 11:09 AM	647	84-13-647		69.9	30	45	270	Seeds	10.1	45	Approximate	Seed Item	578445.14	3751369.50	578445.02	3751369.33	0.119	0.17
7/23/07 11:07 AM	648	84-13-648		38.5	30	-45	350	Seeds	9.3	45	Approximate	Seed Item	578464.30	3751369.34	578464.46	3751369.20	-0.16	0.148
7/23/07 11:02 AM	649	84-13-649		54.7	40	-90	0	Seeds	8.6	45	Actual	Seed Item	578475.18	3751369.62	578475.31	3751369.59	-0.124	0.028
7/10/07 11:33 AM	650	83-13-650		51.4	5	0	0	Rock	2.8	3	Actual	Rock	578304.47	3751369.66	578304.34	3751369.82	0.129	-0.161
7/24/07 12:22 PM	651	82-13-651		23	15	0	270	Scrap Metal	1.5	12	Actual	Cultural	578277.94	3751370.29	578277.61	3751370.23	0.329	0.059
7/23/07 10:30 AM	652	84-13-652		9.7	12	0	0	Nose Frag	2	7	Actual	MD	578459.18	3751370.86	578459.17	3751370.86	0.011	-0.003
7/10/07 2:24 PM	653	83-13-653		67.7	10	0	0	Rock	3.8	4	Actual	Rock	578310.02	3751371.08	578309.95	3751371.34	0.07	-0.255
7/12/07 9:56 AM	654	83-13-654		16.1	7	0	230	Frag	2.5	17	Actual	MD	578340.07	3751370.78	578339.96	3751370.82	0.11	-0.046
7/23/07 10:26 AM	655	84-13-655		-12.5	5	0	330	Scrap Metal	1	10	Actual	Cultural	578469.88	3751371.30	578469.83	3751371.19	0.054	0.105
7/23/07 11:21 AM	656	84-13-656		38.3	12	0	270	Seeds	8.6	45	Actual	Seed Item	578426.27	3751371.87	578426.21	3751371.55	0.056	0.315
7/23/07 10:33 AM	657	84-13-657		47.7	15	0	0	Nose Frag	2.6	7	Actual	MD	578452.25	3751372.74	578452.33	3751372.73	-0.081	0.005
7/16/07 3:02 PM	658	83-13-658		34	1	0	0	Rock	1.7	2	Actual	Rock	578392.33	3751372.60	578391.45	3751372.68	0.886	-0.081
7/12/07 11:41 AM	659	83-13-659		42.2	5	0	110	Halfshell	6.4	30	Actual	MD	578396.23	3751373.11	578396.11	3751373.00	0.124	0.109
6/26/07 3:07 PM	660	82-13-660		43	89	0	0	Soils	2.7	0	Actual	Soils	578255.67	3751374.18	578255.91	3751374.66	-0.239	-0.481
7/10/07 11:52 AM	661	82-13-661		64.6	60	0	90	Seeds	8.8	45	Actual	Seed Item	578285.10	3751374.11	578284.98	3751374.30	0.123	-0.193
7/12/07 11:40 AM	662	83-13-662		11.5	15	0	60	Halfshell	6.9	30	Actual	MD	578398.23	3751373.66	578398.31	3751373.49	-0.077	0.176
7/23/07 10:06 AM	663	84-13-663		148.3	3	0	0	Rock	6	2	Actual	Rock	578491.78	3751373.51	578491.44	3751373.45	0.34	0.066
8/1/07 11:05 AM	664	82-13-664		57.8	87	0	0	Soils	3.3	0	Actual	Soils	578258.69	3751374.35	578258.50	3751374.25	0.19	0.10
7/16/07 2:58 PM	665	83-13-665		55.1	5	0	0	Rock	3.5	2	Actual	Rock	578384.19	3751374.26	578384.34	3751374.21	-0.143	0.052
7/16/07 3:01 PM	666	83-13-666		44	2	0	0	Rock	3.1	2	Actual	Rock	578388.88	3751374.67	578388.86	3751374.62	0.027	0.049
7/23/07 10:24 AM	667	84-13-667		7.1	4	0	40	Frag	1.7	10	Actual	MD	578470.55	3751374.58	578470.56	3751374.44	-0.008	0.138
7/16/07 3:02 PM	668	83-13-668		-8.6	1	0	0	Rock	1.2	2	Actual	Rock	578393.90	3751375.14	578393.00	3751374.84	0.902	0.309

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/23/07 10:28 AM	669	84-13-669		38.7	3	0	310	Scrap Metal	3	10	Actual	Cultural	578466.40	3751375.46	578466.40	3751375.35	-0.007	0.111
7/23/07 10:29 AM	670	84-13-670		10.8	12	0	340	Bolt	1.5	8	Actual	Cultural	578461.23	3751376.02	578461.18	3751375.90	0.049	0.123
7/26/07 10:37 AM	671	82-13-671		76	106	0	0	Soils	4.5	0	Actual	Soils	578258.43	3751377.06	578258.51	3751376.93	-0.082	0.126
7/23/07 10:23 AM	672	84-13-672		17.2	5	0	350	Frag	2.5	15	Actual	MD	578470.25	3751376.65	578470.30	3751376.65	-0.041	-0.001
7/23/07 10:20 AM	673	84-13-673		33.5	25	-45	190	Baseplate	4.1	12	Actual	MD	578472.28	3751376.71	578472.35	3751376.73	-0.07	-0.017
6/26/07 3:06 PM	674	82-13-674		27.6	76	0	0	Soils	2.3	0	Actual	Soils	578260.57	3751376.72	578260.63	3751376.60	-0.052	0.126
7/10/07 11:54 AM	675	83-13-675		45.2	30	180	-90	Halfshell	4.4	45	Actual	MD	578300.18	3751377.68	578300.22	3751377.59	-0.039	0.081
7/12/07 11:40 AM	676	83-13-676		-11.1	4	0	0	Rock	1.1	2	Actual	Rock	578395.16	3751377.74	578395.17	3751377.36	-0.003	0.386
7/26/07 10:34 AM	677	82-13-677		16.7	47	0	0	Soils	2	0	Actual	Soils	578250.60	3751378.13	578250.59	3751378.13	0.007	-0.001
7/26/07 11:09 AM	678	82-13-678		99	90	-90	0	Seeds	9.1	45	Actual	Seed Item	578292.55	3751378.63	578292.82	3751378.58	-0.269	0.041
7/16/07 2:55 PM	679	83-13-679		57.4	40	0	270	Seeds	8.6	45	Approximate	Seed Item	578375.63	3751378.15	578375.60	3751377.93	0.027	0.225
7/23/07 10:36 AM	680	84-13-680		-10.4	3	0	20	Frag	0.9	7	Actual	MD	578427.58	3751378.39	578427.33	3751378.63	0.252	-0.248
7/24/07 12:12 PM	681	82-13-681		39.5	2	0	0	Rock	2.8	3	Actual	Rock	578253.05	3751379.08	578253.08	3751379.28	-0.033	-0.208
7/24/07 12:24 PM	682	82-13-682		31.4	30	90	0	Seeds	7.9	45	Actual	Seed Item	578275.64	3751378.83	578275.58	3751378.80	0.056	0.031
7/10/07 10:40 AM	683	83-13-683		24.8	7	180	-45	Baseplate	4.3	14	Actual	MD	578311.93	3751378.84	578311.81	3751378.74	0.12	0.101
7/23/07 10:59 AM	684	84-13-684		72.2	30	-90	0	Seeds	9.3	45	Approximate	Seed Item	578484.77	3751379.46	578484.66	3751379.49	0.103	-0.031
6/26/07 2:29 PM	685	82-13-685		7.6	3	0	90	Frag	1.7	6	Actual	MD	578262.02	3751379.92	578262.04	3751379.83	-0.026	0.091
7/10/07 11:59 AM	686	83-13-686		48.6	10	0	0	Nose Frag	2.6	7	Actual	MD	578314.27	3751380.11	578314.45	3751380.10	-0.18	0.012
7/10/07 10:42 AM	687	83-13-687		66.3	60	0	90	Seeds	9	45	Actual	Seed Item	578304.11	3751380.90	578304.09	3751380.95	0.016	-0.054
7/23/07 10:52 AM	688	84-13-688		61.1	91	0	0	Soils	4	0	Actual	Soils	578495.64	3751380.56	578495.31	3751380.47	0.331	0.091
7/12/07 2:07 PM	689	83-13-689		86.6	60	90	0	Seeds	9.6	45	Actual	Seed Item	578361.95	3751381.34	578361.78	3751381.27	0.162	0.069
7/12/07 11:17 AM	690	84-13-690		51.7	40	0	90	Seeds	8.4	45	Actual	Seed Item	578408.86	3751382.20	578408.88	3751382.11	-0.019	0.09
7/23/07 11:24 AM	691	84-13-691		87.4	60	90	0	Seeds	9.3	45	Approximate	Seed Item	578437.92	3751382.25	578437.59	3751382.11	0.333	0.144
7/23/07 10:08 AM	692	84-13-692		35.3	15	0	0	Rock	2.7	2	Actual	Rock	578498.66	3751381.93	578498.49	3751381.91	0.166	0.024
7/24/07 12:39 PM	693	82-13-693		6.1	0	-90	0	Survey Point	2	90	Actual	Cultural	578296.33	3751383.11	578296.37	3751382.90	-0.033	0.213
7/16/07 2:45 PM	694	83-13-694		51	40	-90	320	Halfshell	7.3	30	Actual	MD	578384.11	3751383.90	578384.03	3751383.59	0.081	0.314
7/12/07 11:22 AM	695	83-13-695		52	0	0	0	Rock	3.4	3	Actual	Rock	578397.98	3751383.20	578398.02	3751383.46	-0.046	-0.258
7/12/07 11:34 AM	696	84-13-696		27.8	10	0	150	Scrap Metal	1.6	12	Actual	Cultural	578400.29	3751383.60	578400.25	3751383.41	0.042	0.187
7/23/07 10:12 AM	697	84-13-697		46.3	0	0	0	Rock	2.6	3	Actual	Rock	578496.65	3751383.15	578496.48	3751383.09	0.175	0.062
7/24/07 12:26 PM	698	82-13-698		55.4	7	0	80	Wire	3.4	25	Actual	Cultural	578264.20	3751383.27	578264.27	3751383.88	-0.072	-0.603
7/12/07 9:52 AM	699	83-13-699		27.8	25	0	50	Scrap Metal	2.9	13	Actual	Cultural	578340.61	3751383.57	578340.72	3751383.34	-0.111	0.226
7/23/07 10:14 AM	700	84-13-700		12.9	6	0	180	Horseshoe	1.9	14	Actual	Cultural	578483.07	3751384.03	578483.04	3751383.93	0.027	0.094
7/10/07 2:15 PM	701	83-13-701		38.4	10	0	0	Rock	2.8	4	Actual	Rock	578305.03	3751384.48	578304.63	3751384.44	0.402	0.048
7/26/07 10:27 AM	702	82-13-702		47.9	77	0	0	Soils	3.2	0	Actual	Soils	578259.81	3751385.25	578260.20	3751385.35	-0.387	-0.103
7/26/07 10:30 AM	703	82-13-703		47.2	77	0	0	Soils	3	0	Actual	Soils	578269.65	3751384.54	578269.80	3751384.51	-0.147	0.032
7/12/07 11:44 AM	704	83-13-704		0.1	0	-45	300	Baseplate	3.2	12	Actual	MD	578392.56	3751385.54	578392.54	3751385.40	0.019	0.135
7/23/07 10:17 AM	705	84-13-705		16	2	0	0	Nose Frag	2.4	7	Actual	MD	578471.68	3751385.39	578471.65	3751385.38	0.034	0.004
6/26/07 3:01 PM	706	82-13-706		56.9	30	90	0	Seeds	9.1	45	Actual	Seed Item	578256.76	3751386.09	578256.68	3751386.07	0.08	0.019
7/17/07 8:55 AM	707	84-13-707		22.5	52	0	0	Soils	1.4	0	Actual	Soils	578406.29	3751386.73	578406.35	3751386.46	-0.057	0.274
7/24/07 12:40 PM	708	82-13-708		26.4	30	0	100	Halfshell	6.8	30	Actual	MD	578297.32	3751388.17	578297.36	3751388.01	-0.044	0.166
7/10/07 11:14 AM	709	83-13-709		11.5	3	190	0	Scrap Metal	2.7	12	Actual	Cultural	578329.20	3751387.40	578329.19	3751387.43	0.0145	-0.034
7/17/07 8:52 AM	710	83-13-710		0.7	37	0	0	Soils	1.3	0	Actual	Soils	578391.87	3751388.53	578391.64	3751388.44	0.226	0.09
7/23/07 10:18 AM	711	84-13-711		2.9	1	0	160	Scrap Metal	3.6	30	Actual	Cultural	578476.70	3751388.99	578476.71	3751388.91	-0.005	0.083
7/12/07 2:00 PM	712	83-13-712		45.9	76	0	0	Soils	2.6	0	Actual	Soils	578348.69	3751389.62	578348.64	3751389.36	0.055	0.263
7/19/07 9:33 AM	713	84-13-713		38	15	0	350	Seeds	9.7	45	Actual	Seed Item	578447.46	3751389.61	578447.41	3751389.55	0.057	0.057

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
													Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/24/07 12:35 PM	714	82-13-714		15	21	-90	0	Scrap Metal	1.5	8	Actual	Cultural	578267.66	3751389.82	578267.73	3751390.13	-0.064	-0.307
7/24/07 12:41 PM	715	82-13-715		39.1	8	0	0	Rock	2.8	1	Actual	Rock	578287.25	3751389.85	578287.65	3751390.39	-0.407	-0.549
7/16/07 2:42 PM	716	83-13-716		85	115	0	0	Soils	3.4	0	Actual	Soils	578386.53	3751391.42	578386.87	3751391.47	-0.346	-0.043
7/12/07 2:11 PM	717	83-13-717		25	30	0	0	Nose Frag	2.2	7	Actual	MD	578368.02	3751391.67	578367.73	3751390.85	0.292	0.819
7/16/07 2:48 PM	718	83-13-718		24.5	54	0	0	Soils	1.5	0	Actual	Soils	578379.35	3751391.83	578379.15	3751391.64	0.196	0.194
7/24/07 10:27 AM	719	84-13-719		105.8	110	0	90	Seeds	8.7	45	Approximate	Seed Item	578424.74	3751391.76	578424.29	3751391.61	0.457	0.147
7/16/07 2:46 PM	720	83-13-720		48.3	78	0	0	Soils	2.4	0	Actual	Soils	578380.72	3751393.36	578381.11	3751393.29	-0.393	0.079
7/26/07 9:32 AM	721	82-13-721		-8.1	NA	0	0	Soils	0.9	NA	Actual	Soils	578264.69	3751393.29	578264.06	3751392.52	0.629	0.768
7/12/07 12:08 PM	722	83-13-722		51.6	8	0	140	Halfshell	8.7	30	Actual	MD	578366.59	3751394.30	578366.38	3751394.74	0.218	-0.444
6/26/07 2:55 PM	723	82-13-723		31.2	93	0	0	Soils	1.6	0	Actual	Soils	578251.71	3751394.89	578251.19	3751395.02	0.518	-0.137
7/12/07 11:11 AM	724	84-13-724		42.4	40	45	270	Seeds	7.8	45	Actual	Seed Item	578408.26	3751394.35	578407.99	3751394.44	0.266	-0.092
7/11/07 11:42 AM	725	83-14-725		-9.9	4	0	0	Frag	1	5	Actual	MD	578305.84	3751395.32	578306.10	3751395.23	-0.266	0.094
7/11/07 11:46 AM	726	83-14-726		43.9	0	0	0	Rock	3	2	Actual	Rock	578320.09	3751395.28	578319.82	3751395.15	0.263	0.123
7/19/07 9:37 AM	727	84-13-727		4.3	1	0	0	Scrap Metal	1.6	30	Actual	Cultural	578441.37	3751395.22	578441.39	3751395.17	-0.021	0.05
7/16/07 2:41 PM	728	83-13-728		9.1	39	0	0	Soils	1.5	0	Actual	Soils	578388.89	3751395.63	578389.22	3751395.46	-0.337	0.176
7/11/07 11:48 AM	729	83-14-729		18.6	5	0	0	Rock	2	8	Actual	Rock	578322.82	3751396.28	578322.75	3751396.01	0.065	0.266
7/12/07 11:51 AM	730	83-13-730		8.6	0	-45	300	Baseplate	3.7	12	Actual	MD	578377.56	3751395.99	578377.56	3751395.90	0.007	0.097
7/16/07 2:38 PM	731	83-13-731		35.7	65	0	0	Soils	1.9	0	Actual	Rock	578391.88	3751396.27	578391.65	3751396.24	0.229	0.027
6/26/07 2:21 PM	732	82-13-732		24.4	5	0	0	Frag	1.6	9	Actual	MD	578253.70	3751396.40	578253.48	3751396.45	0.221	-0.051
7/24/07 12:43 PM	733	82-13-733		15	20	0	310	Halfshell	6.1	30	Actual	MD	578281.62	3751396.71	578281.64	3751396.60	-0.017	0.104
7/19/07 8:53 AM	734	84-13-734		5.1	15	0	20	Scrap Metal	1.6	16	Actual	Cultural	578487.85	3751396.82	578487.78	3751396.83	0.07	-0.013
7/24/07 12:30 PM	735	82-13-735		79.3	5	0	60	Scrap Metal	3.5	12	Actual	Cultural	578250.20	3751397.95	578250.44	3751397.85	-0.237	0.098
6/26/07 2:16 PM	736	82-13-736		96.2	20	0	120	Scrap Metal	3.6	14	Actual	Cultural	578256.22	3751398.04	578256.40	3751397.94	-0.181	0.107
7/12/07 1:58 PM	737	83-13-737		48.6	78	0	0	Soils	2.7	0	Actual	Soils	578347.36	3751397.89	578347.46	3751397.68	-0.1	0.216
7/23/07 12:51 PM	738	84-13-738		58.6	60	90	0	Seeds	8.3	45	Actual	Seed Item	578451.47	3751397.50	578451.77	3751397.55	-0.293	-0.046
7/12/07 12:09 PM	739	83-13-739		9.4	2	0	120	Frag	1.9	7	Actual	MD	578363.39	3751398.19	578363.54	3751397.88	-0.152	0.312
7/11/07 11:43 AM	740	83-14-740		18.8	8	0	80	Scrap Metal	2.1	12	Actual	Cultural	578312.64	3751398.42	578312.55	3751398.38	0.093	0.046
7/12/07 11:46 AM	741	83-13-741		29.5	5	-45	270	Halfshell	7.4	30	Actual	MD	578399.78	3751398.72	578399.63	3751398.60	0.149	0.125
7/19/07 9:00 AM	742	84-13-742		55.5	3	0	0	Rock	2.6	1	Actual	Rock	578479.72	3751398.21	578479.83	3751398.23	-0.104	-0.023
7/19/07 9:41 AM	743	84-13-743		16.2	7	-90	160	Scrap Metal	2.1	30	Actual	Cultural	578430.25	3751399.49	578430.27	3751399.50	-0.021	-0.01
7/24/07 10:23 AM	744	84-13-744		52.2	50	-45	180	Seeds	9.1	45	Actual	Seed Item	578436.39	3751398.77	578436.39	3751399.00	-0.004	-0.233
6/26/07 2:14 PM	745	82-13-745		10.9	7	-45	180	Scrap Metal	1.9	13	Actual	Cultural	578261.10	3751399.42	578260.68	3751399.81	0.419	-0.391
7/25/07 10:54 AM	746	82-13-746		59.4	89	0	0	Soils	3.2	0	Actual	Soils	578271.91	3751399.89	578271.72	3751399.12	0.189	0.77
7/12/07 12:10 PM	747	83-14-747		146.6	2	0	0	Rock	8.7	2	Actual	Rock	578361.90	3751400.18	578361.47	3751400.23	0.422	-0.05
6/26/07 2:13 PM	748	82-13-748		18.7	6	0	0	Scrap Metal	1.8	7	Actual	Cultural	578263.24	3751399.72	578263.11	3751399.99	0.138	-0.266
7/11/07 11:39 AM	749	83-14-749		77	10	0	0	Rock	4.5	7	Actual	Rock	578300.26	3751399.88	578300.37	3751399.81	-0.108	0.072
7/12/07 9:59 AM	750	83-14-750		16.4	7	-45	90	Halfshell	4.6	25	Actual	MD	578350.68	3751401.17	578350.55	3751401.10	0.129	0.071
7/16/07 2:32 PM	751	83-14-751		66.9	96	0	0	Soils	2.7	0	Actual	Soils	578395.53	3751401.64	578395.46	3751401.88	0.074	-0.236
7/19/07 9:42 AM	752	84-14-752		1	3	-90	310	Scrap Metal	2	30	Actual	Cultural	578428.34	3751401.01	578428.34	3751400.91	-0.004	0.098
7/16/07 2:25 PM	753	83-14-753		34.9	64	0	0	Soils	2	0	Actual	Soils	578385.80	3751401.34	578385.79	3751401.53	0.017	-0.184
7/11/07 11:54 AM	754	83-14-754		18.5	4	0	300	Scrap Metal	1.8	7	Actual	Cultural	578311.32	3751402.60	578311.48	3751402.37	-0.158	0.236
7/11/07 11:48 AM	755	83-14-755		4.1	6	0	150	Scrap Metal	1.4	13	Actual	Cultural	578327.86	3751402.87	578327.78	3751402.76	0.074	0.112
7/12/07 1:33 PM	756	83-14-756		36.9	30	-90	90	Seeds	7.7	45	Actual	Seed Item	578332.56	3751402.54	578332.46	3751402.55	0.096	-0.006
7/12/07 2:18 PM	757	83-14-757		142.1	100	0	0	Soils	7.6	0	Actual	Soils	578369.38	3751402.77	578369.64	3751402.62	-0.265	0.153
7/16/07 2:30 PM	758	83-14-758		10.6	40	0	0	Soils	1.8	0	Actual	Soils	578392.04	3751402.93	578392.32	3751402.78	-0.289	0.15

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
													Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/24/07 9:19 AM	759	84-14-759		88.3	90	0	0	Seeds	8.9	45	Approximate	Seed Item	578444.04	3751403.35	578443.97	3751403.65	0.07	-0.302
7/12/07 1:55 PM	760	83-14-760		21.4	60	0	0	Soils	1.8	0	Actual	Soils	578355.40	3751405.21	578355.54	3751405.13	-0.132	0.078
7/11/07 11:35 AM	761	83-14-761		16	5	0	120	Scrap Metal	2.6	16	Actual	Cultural	578303.48	3751405.48	578303.53	3751405.37	-0.048	0.109
7/12/07 10:28 AM	762	83-14-762		9	10	-45	90	Scrap Metal	1.7	14	Actual	Cultural	578393.92	3751405.25	578393.80	3751405.51	0.124	-0.256
7/19/07 9:30 AM	763	84-14-763		23.4	30	-30	290	Halfshell	6	30	Actual	MD	578457.22	3751406.01	578457.31	3751406.03	-0.089	-0.027
7/25/07 10:46 AM	764	82-14-764		46.3	76	0	0	Soils	3.7	0	Actual	Soils	578282.03	3751406.82	578282.23	3751406.45	-0.203	0.37
7/12/07 10:12 AM	765	83-14-765		37.5	3	0	140	Frag	1.8	7	Actual	MD	578370.05	3751406.88	578369.60	3751406.84	0.45	0.041
7/12/07 10:32 AM	766	83-14-766		70.2	40	-90	0	Baseplate	6.1	12	Actual	MD	578398.31	3751407.28	578397.71	3751406.98	0.594	0.306
7/16/07 2:33 PM	767	84-14-767		26.7	57	0	0	Soils	2	0	Actual	Soils	578404.79	3751407.30	578404.98	3751407.51	-0.185	-0.212
6/26/07 2:04 PM	768	82-14-768		40.7	33	0	70	Scrap Metal	3.8	17	Actual	Cultural	578275.51	3751407.55	578275.60	3751407.60	-0.087	-0.046
7/26/07 10:18 AM	769	82-14-769		-8.3	8	0	0	Horseshoe	1.1	7	Actual	Cultural	578278.07	3751407.24	578278.01	3751406.79	0.063	0.452
7/24/07 12:45 PM	769	82-14-769		-8.3	4	0	0	Rock	1.1	1	Actual	Rock	578278.07	3751407.24	578278.26	3751407.00	-0.191	0.243
7/12/07 1:51 PM	770	83-14-770		29.1	60	0	0	Soils	2.7	0	Actual	Soils	578361.73	3751407.68	578361.64	3751407.84	0.092	-0.169
7/12/07 10:24 AM	771	83-14-771		39.8	5	0	50	Frag	2.9	9	Actual	MD	578384.66	3751407.31	578384.48	3751407.58	0.187	-0.267
7/19/07 9:39 AM	772	84-14-772		47.1	30	0	100	Scrap Metal	5.9	150	Actual	Cultural	578440.57	3751407.43	578440.29	3751407.33	0.282	0.102
7/19/07 9:02 AM	773	84-14-773		14	3	-90	90	Scrap Metal	1.7	9	Actual	Cultural	578466.51	3751407.76	578466.62	3751407.75	-0.108	0.01
7/25/07 10:48 AM	774	82-14-774		45.3	15	0	80	Wrench	3.8	25	Actual	Cultural	578290.46	3751408.15	578290.39	3751408.27	0.068	-0.119
7/12/07 10:20 AM	775	83-14-775		3.1	20	0	340	Frag	1.8	12	Actual	MD	578380.16	3751408.02	578380.24	3751408.00	-0.075	0.013
7/24/07 10:36 AM	776	84-14-776		27.5	57	0	0	Soils	2.6	0	Actual	Soils	578429.18	3751407.95	578429.02	3751408.17	0.157	-0.222
7/19/07 9:29 AM	777	84-14-777		19.6	5	0	170	Scrap Metal	1.9	6	Actual	Cultural	578447.22	3751408.40	578447.24	3751408.48	-0.024	-0.084
7/23/07 12:04 PM	778	84-14-778		91.9	121	0	0	Soils	4.9	0	Actual	Soils	578488.25	3751408.73	578487.92	3751408.38	0.333	0.351
7/12/07 10:17 AM	779	83-14-779		52.4	5	45	320	Frag	6.2	20	Actual	MD	578378.37	3751410.15	578378.54	3751410.09	-0.167	0.056
7/16/07 2:27 PM	780	83-14-780		11.7	41	0	0	Soils	2	0	Actual	Rock	578391.32	3751409.95	578390.94	3751410.22	0.376	-0.274
7/23/07 12:47 PM	781	84-14-781		47.9	40	0	270	Seeds	8.3	45	Approximate	Seed Item	578464.34	3751411.11	578464.10	3751410.95	0.232	0.169
7/23/07 12:12 PM	782	84-14-782		46.5	10	45	90	Seeds	10.4	45	Actual	Seed Item	578476.66	3751410.86	578477.05	3751410.76	-0.399	0.099
6/26/07 1:59 PM	783	82-14-783		78.7	60	0	20	Seeds	8.7	45	Actual	Seed Item	578280.10	3751411.42	578280.00	3751411.39	0.098	0.023
7/11/07 11:51 AM	784	83-14-784		0.4	5	0	300	Scrap Metal	1.7	6	Actual	Cultural	578328.72	3751411.57	578328.52	3751411.06	0.202	0.514
7/12/07 1:50 PM	785	83-14-785		31.9	65	0	0	Soils	1.3	0	Actual	Soils	578357.68	3751411.52	578357.78	3751411.75	-0.1	-0.225
7/12/07 2:21 PM	786	83-14-786		23.8	60	0	0	Soils	1.8	0	Actual	Soils	578371.37	3751411.54	578371.32	3751411.17	0.051	0.366
7/12/07 11:07 AM	787	84-14-787		27.5	10	-20	310	Halfshell	7.4	30	Actual	MD	578417.01	3751411.53	578417.09	3751411.57	-0.083	-0.038
7/12/07 2:25 PM	788	83-14-788		-4.7	30	0	0	No Contact	1.2	0	Actual	No Contacts	578374.00	3751411.90	578372.71	3751411.29	1.296	0.61
7/26/07 12:07 PM	789	84-14-789		66.1	96	0	0	Soils	4.4	0	Actual	Soils	578406.47	3751413.22	578406.64	3751412.57	-0.163	0.643
6/26/07 1:57 PM	790	82-14-790		13.5	7	0	90	Baseplate	3.4	11	Actual	MD	578275.93	3751413.08	578275.85	3751413.00	0.083	0.073
7/12/07 1:36 PM	791	83-14-791		99.9	60	0	180	Seeds	9.7	45	Actual	Seed Item	578312.35	3751413.04	578312.50	3751412.99	-0.15	0.047
7/17/07 10:34 AM	792	84-14-792		87.9	107	0	0	Soils	5.1	0	Actual	Soils	578409.56	3751414.54	578409.19	3751414.29	0.371	0.25
7/24/07 10:37 AM	793	84-14-793		39.4	69	0	0	Soils	2.5	0	Actual	Soils	578420.55	3751412.80	578420.18	3751412.62	0.368	0.178
7/17/07 10:18 AM	794	84-14-794		88.4	118	0	0	Soils	4.3	0	Actual	Soils	578413.44	3751413.85	578413.38	3751414.40	0.061	-0.543
6/26/07 1:55 PM	795	82-14-795		-4.2	10	-90	0	Scrap Metal	0.8	10	Actual	Cultural	578262.77	3751414.32	578262.67	3751414.44	0.095	-0.124
7/12/07 2:26 PM	796	83-14-796		27.1	60	0	0	Soils	2.5	0	Actual	Soils	578388.95	3751414.77	578389.26	3751414.51	-0.309	0.262
7/12/07 2:28 PM	797	84-14-797		58.6	88	0	0	Soils	3.4	0	Actual	Soils	578392.00	3751415.26	578392.30	3751415.50	-0.301	-0.237
7/12/07 2:34 PM	798	83-14-798		39.9	70	0	0	Soils	1.6	0	Actual	Soils	578394.94	3751415.44	578395.11	3751415.73	-0.166	-0.285
7/18/07 9:56 AM	799	84-14-799		35.2	5	0	0	Nose Frag	3.1	7	Actual	MD	578432.11	3751415.67	578432.01	3751415.70	0.1	-0.026
7/19/07 9:29 AM	800	84-14-800		16.4	5	-90	0	Baseplate	3.6	12	Actual	MD	578450.98	3751415.59	578451.05	3751415.54	-0.068	0.057
7/17/07 8:42 AM	801	83-14-801		24.6	20	0	100	Scrap Metal	5.3	50	Actual	Cultural	578398.23	3751416.28	578398.10	3751416.07	0.128	0.212
7/18/07 11:22 AM	802	84-14-802		130.5	160	0	0	Soils	6.8	0	Actual	Soils	578442.97	3751416.22	578442.11	3751416.14	0.861	0.073

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/23/07 12:43 PM	803	84-14-803		52.8	30	-45	180	Seeds	9.1	45	Actual	Seed Item	578456.94	3751415.89	578456.85	3751416.01	0.085	-0.124
6/26/07 12:44 PM	804	82-14-804		125.8	75	-45	180	Seeds	8.9	45	Actual	Seed Item	578252.05	3751416.35	578251.77	3751416.52	0.283	-0.168
7/17/07 10:59 AM	805	83-14-805		79.5	109	0	0	Soils	3.9	0	Actual	Soils	578384.09	3751417.76	578383.94	3751418.16	0.149	-0.396
7/17/07 10:31 AM	806	84-14-806		62.9	92	0	0	Soils	2.3	0	Actual	Soils	578411.88	3751416.61	578411.54	3751416.57	0.344	0.046
7/17/07 10:20 AM	807	84-14-807		91.1	121	0	0	Soils	3.6	0	Actual	Soils	578414.49	3751416.81	578414.17	3751417.00	0.317	-0.189
7/18/07 9:58 AM	808	84-14-808		31.4	30	-45	200	Baseplate	4.1	12	Actual	MD	578435.22	3751416.72	578435.15	3751416.73	0.074	-0.003
7/18/07 11:03 AM	809	84-14-809		5	35	0	0	Soils	1.5	0	Actual	Soils	578418.65	3751417.10	578418.63	3751416.73	0.019	0.366
7/17/07 11:01 AM	810	83-14-810		28.6	58	0	0	Soils	2.1	0	Actual	Soils	578381.07	3751417.65	578381.30	3751417.97	-0.228	-0.322
7/17/07 10:54 AM	811	83-14-811		51.7	81	0	0	Soils	3.2	0	Actual	Soils	578391.55	3751418.09	578391.93	3751418.53	-0.378	-0.437
7/17/07 10:46 AM	812	83-14-812		77.2	107	0	0	Soils	4.1	0	Actual	Soils	578394.49	3751418.24	578393.95	3751418.40	0.541	-0.165
7/17/07 10:44 AM	813	83-14-813		26.2	31	0	120	Scrap Metal	2.5	8	Actual	Cultural	578396.73	3751417.76	578397.24	3751417.71	-0.513	0.052
7/18/07 11:05 AM	814	84-14-814		53	83	0	0	Soils	3.5	0	Actual	Soils	578420.81	3751417.28	578418.96	3751417.04	1.858	0.241
7/18/07 11:11 AM	815	84-14-815		19.5	49	0	0	Soils	2	0	Actual	Soils	578424.78	3751418.28	578424.89	3751418.29	-0.115	-0.012
7/19/07 9:27 AM	816	84-14-816		16.5	4	-90	0	Scrap Metal	1.6	15	Actual	Cultural	578467.55	3751417.84	578467.67	3751417.78	-0.118	0.064
7/17/07 10:41 AM	817	84-14-817		25.7	55	0	0	Soils	1.9	0	Actual	Soils	578400.32	3751418.61	578400.25	3751419.05	0.073	-0.44
7/18/07 11:15 AM	818	84-14-818		135	160	0	0	Soils	5.2	0	Actual	Soils	578427.25	3751417.84	578427.20	3751417.86	0.052	-0.022
7/19/07 9:03 AM	819	84-14-819		23.4	15	0	0	Nose Frag	2.1	7	Actual	MD	578483.83	3751418.74	578484.00	3751418.70	-0.173	0.034
6/26/07 10:29 AM	820	82-14-820		---	7	0	90	Scrap Metal	---	10	Actual	Cultural	578252.50	3751419.00	578252.24	3751419.37	0.265	-0.369
7/11/07 11:56 AM	821	83-14-821		30.5	4	0	0	Rock	2.2	1	Actual	Rock	578325.03	3751418.64	578325.08	3751418.29	-0.057	0.35
7/18/07 11:33 AM	822	84-14-822		69.5	99	0	0	Soils	3.7	0	Actual	Soils	578443.31	3751418.75	578443.46	3751418.58	-0.15	0.177
6/26/07 11:06 AM	823	82-14-823		42	30	0	0	Seeds	9.1	45	Actual	Seed Item	578265.38	3751419.43	578265.28	3751419.37	0.097	0.055
6/27/07 11:08 AM	824	82-14-824		32.2	100	0	0	Soils	1.6	0	Actual	Soils	578293.63	3751419.25	578293.89	3751419.34	-0.265	-0.089
7/17/07 10:49 AM	825	83-14-825		111.8	141	0	0	Soils	5.5	0	Actual	Soils	578392.92	3751419.58	578392.72	3751419.87	0.198	-0.292
7/17/07 10:57 AM	826	83-14-826		9.4	40	0	0	Soils	1.5	0	Actual	Soils	578390.86	3751420.18	578390.73	3751420.58	0.134	-0.4
7/19/07 8:49 AM	827	84-14-827		45.1	8	0	330	Scrap Metal	4.3	15	Actual	Cultural	578495.50	3751420.28	578495.70	3751420.18	-0.194	0.103
7/11/07 11:59 AM	828	83-14-828		64.1	7	0	0	Rock	3.1	2	Actual	Rock	578328.96	3751420.60	578329.05	3751420.45	-0.088	0.148
7/17/07 10:23 AM	829	84-14-829		88.3	38	0	0	Scrap Metal	4.2	10	Actual	Cultural	578416.78	3751420.94	578416.82	3751420.36	-0.044	0.575
7/19/07 8:51 AM	830	84-14-830		16.3	2	0	270	Seeds	1.9	11	Actual	Seed Item	578499.54	3751420.30	578499.56	3751420.29	-0.019	0.009
7/11/07 12:00 PM	831	83-14-831		90.1	9	0	0	Rock	5.2	2	Actual	Rock	578337.31	3751420.42	578337.29	3751420.37	0.02	0.044
7/17/07 8:40 AM	832	84-14-832		36.7	30	-20	150	Seeds	9.6	45	Actual	Seed Item	578405.82	3751420.64	578405.67	3751420.56	0.15	0.076
7/19/07 9:10 AM	833	84-14-833		17.4	5	-90	180	Scrap Metal	1.8	8	Actual	Cultural	578481.44	3751420.84	578481.40	3751420.93	0.04	-0.093
7/11/07 12:01 PM	834	83-14-834		98	3	0	0	Rock	5.5	1	Actual	Rock	578339.53	3751421.50	578338.94	3751421.55	0.589	-0.05
7/18/07 11:18 AM	835	84-14-835		63.3	93	0	0	Soils	2.7	0	Actual	Soils	578430.78	3751420.85	578430.77	3751420.73	0.013	0.122
7/19/07 9:07 AM	836	84-14-836		61.5	61	0	0	Soils	2.7	0	Actual	Soils	578483.95	3751422.52	578484.27	3751422.21	-0.324	0.311
7/19/07 9:05 AM	837	84-14-837		18.7	3	0	0	Nose Frag	2	7	Actual	MD	578490.34	3751422.80	578490.34	3751422.75	0.002	0.05
6/27/07 11:02 AM	838	82-14-838		129.1	95	-45	170	Seeds	8.6	45	Actual	Seed Item	578294.82	3751423.05	578294.64	3751423.15	0.181	-0.103
7/17/07 10:38 AM	839	84-14-839		35.1	65	0	0	Soils	2	0	Actual	Soils	578403.59	3751423.23	578403.10	3751423.27	0.485	-0.044
7/17/07 10:29 AM	840	84-14-840		11.4	41	0	0	Soils	1.5	0	Actual	Soils	578414.21	3751422.85	578413.84	3751423.11	0.37	-0.258
7/18/07 10:59 AM	841	84-14-841		57	90	0	0	Soils	2.8	0	Actual	Soils	578417.63	3751423.07	578417.91	3751423.21	-0.278	-0.132
7/19/07 9:12 AM	842	84-14-842		31	30	-90	100	Nose Frag	2.4	7	Actual	MD	578476.80	3751423.38	578476.79	3751423.31	0.005	0.075
7/18/07 11:38 AM	843	84-14-843		18.1	48	0	0	Soils	1.8	0	Actual	Soils	578444.03	3751423.98	578444.10	3751424.01	-0.071	-0.031
7/19/07 8:47 AM	844	84-14-844		2.6	1	0	0	Nose Frag	1.9	7	Actual	MD	578494.53	3751424.82	578494.50	3751424.77	0.024	0.044
6/26/07 12:25 PM	845	82-14-845		55.2	100	0	0	Soils	1.8	0	Actual	Soils	578252.53	3751424.97	578253.13	3751424.74	-0.599	0.229
7/17/07 11:03 AM	846	83-14-846		100.5	130	0	0	Soils	5.7	0	Actual	Soils	578383.77	3751424.88	578384.13	3751424.81	-0.353	0.068
7/17/07 11:07 AM	847	83-14-847		68.6	98	0	0	Soils	3.6	0	Actual	Soils	578386.00	3751425.38	578386.89	3751425.35	-0.889	0.037

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/19/07 9:13 AM	848	84-14-848		32.2	20	-45	270	Baseplate	4	12	Actual	MD	578477.24	3751425.37	578477.28	3751425.38	-0.037	-0.01
7/17/07 8:35 AM	849	84-14-849		83.5	10	0	20	Halfshell	4.5	30	Actual	MD	578415.43	3751425.88	578415.51	3751425.95	-0.078	-0.065
7/17/07 11:11 AM	850	83-14-850		83.5	113	0	0	Soils	4.5	0	Actual	Soils	578392.99	3751427.17	578392.81	3751427.60	0.175	-0.428
6/26/07 12:08 PM	851	82-14-851		58.4	70	0	0	Soils	3.1	0	Actual	Soils	578253.91	3751428.19	578253.83	3751428.21	0.086	-0.017
6/26/07 10:23 AM	852	82-14-852		24.4	5	0	80	Scrap Metal	3.9	15	Actual	Cultural	578282.67	3751427.19	578282.80	3751427.23	-0.128	-0.04
7/17/07 8:33 AM	853	84-14-853		65.6	30	45	270	Seeds	10.3	45	Actual	Seed Item	578407.68	3751427.54	578407.94	3751427.31	-0.259	0.233
6/26/07 12:05 PM	854	82-14-854		109.6	53	0	0	Soils	6.2	0	Actual	Soils	578284.95	3751428.11	578285.06	3751428.18	-0.115	-0.07
7/16/07 2:18 PM	855	83-14-855		-3.3	33	0	0	Soils	0.8	0	Actual	Soils	578350.84	3751428.14	578350.93	3751428.39	-0.091	-0.247
7/23/07 12:20 PM	856	84-14-856		34.4	30	-45	0	Seeds	7.2	45	Approximate	Seed Item	578470.79	3751428.16	578470.77	3751428.09	0.017	0.063
6/26/07 10:25 AM	857	82-14-857		25.9	9	0	50	Scrap Metal	2.4	20	Actual	Cultural	578274.96	3751428.98	578274.99	3751429.02	-0.028	-0.046
6/27/07 10:33 AM	858	83-14-858		43.9	10	0	240	Frag	5.1	7	Actual	MD	578330.20	3751429.06	578330.09	3751428.92	0.109	0.142
7/11/07 12:03 PM	859	83-14-859		20.8	10	0	0	Nose Frag	1.9	7	Actual	MD	578344.68	3751428.76	578344.61	3751428.63	0.074	0.126
7/17/07 8:47 AM	860	83-14-860		69.2	60	80	210	Seeds	9.9	45	Actual	Seed Item	578388.95	3751428.96	578389.06	3751429.37	-0.109	-0.407
7/23/07 12:36 PM	861	84-14-861		106.8	131	0	0	Soils	5.9	0	Actual	Soils	578454.28	3751428.84	578454.21	3751428.59	0.071	0.247
7/19/07 8:46 AM	862	84-14-862		150.2	2	0	90	Scrap Metal	7.4	10	Actual	Cultural	578495.94	3751429.72	578495.62	3751429.27	0.317	0.455
7/18/07 9:59 AM	863	84-14-863		17.3	5	0	90	Halfshell	6.7	30	Actual	MD	578434.10	3751430.00	578434.18	3751429.87	-0.076	0.129
7/18/07 11:41 AM	864	84-14-864		8.2	38	0	0	Nose Frag	1.5	7	Actual	MD	578438.43	3751430.03	578438.61	3751429.93	-0.179	0.101
7/18/07 11:42 AM	865	84-14-865		35.5	65	0	0	Soils	2	0	Actual	Soils	578442.65	3751430.06	578442.70	3751430.04	-0.056	0.014
7/16/07 2:00 PM	866	83-14-866		95.5	125	0	0	Soils	5.1	0	Actual	Soils	578373.78	3751430.57	578374.00	3751430.75	-0.217	-0.177
7/16/07 2:17 PM	867	83-14-867		97.8	127	0	0	Soils	6.1	0	Actual	Soils	578352.34	3751430.97	578352.73	3751431.35	-0.382	-0.377
7/18/07 9:51 AM	868	84-14-868		29.2	20	-90	60	Frag	2.8	14	Actual	MD	578426.04	3751430.72	578425.84	3751431.27	0.2	-0.548
7/11/07 12:09 PM	869	83-14-869		34.5	10	0	0	Rock	2.5	2	Actual	Rock	578315.21	3751431.29	578315.46	3751431.17	-0.247	0.124
7/12/07 1:41 PM	870	83-14-870		61.1	60	90	0	Seeds	8.1	45	Actual	Seed Item	578318.84	3751431.50	578318.91	3751431.42	-0.064	0.074
7/11/07 12:08 PM	871	83-14-871		-1	9	0	0	Nose Frag	1.4	7	Actual	MD	578323.49	3751431.43	578323.42	3751431.55	0.069	-0.129
7/16/07 2:08 PM	872	83-14-872		116.1	146	0	0	Soils	5.4	0	Actual	Soils	578356.87	3751430.78	578356.87	3751431.20	-0.002	-0.42
7/16/07 2:01 PM	873	83-14-873		53.9	83	0	0	Soils	3.2	0	Actual	Rock	578366.54	3751432.52	578366.69	3751432.52	-0.148	0.002
7/18/07 11:48 AM	874	84-14-874		105.5	60	90	0	Seeds	9.5	45	Actual	Seed Item	578420.75	3751432.10	578421.19	3751432.25	-0.438	-0.152
7/23/07 12:22 PM	875	84-14-875		29.3	59	0	0	Soils	2.2	0	Actual	Soils	578458.42	3751431.58	578458.21	3751431.87	0.205	-0.284
7/23/07 12:14 PM	876	84-14-876		32.6	30	-45	170	Seeds	7.8	45	Approximate	Seed Item	578483.54	3751431.58	578483.44	3751431.56	0.104	0.025
7/19/07 2:57 PM	877	84-14-877		79.3	109	0	0	Soils	4.2	0	Actual	Soils	578498.17	3751432.56	578498.52	3751432.38	-0.353	0.175
7/11/07 12:12 PM	878	83-14-878		30	12	0	140	Scrap Metal	1.6	14	Actual	Cultural	578305.83	3751433.50	578305.66	3751433.38	0.167	0.122
7/16/07 2:04 PM	879	83-14-879		64.8	94	0	0	Soils	3.6	0	Actual	Soils	578367.90	3751434.10	578368.21	3751434.37	-0.309	-0.274
7/16/07 1:59 PM	880	83-14-880		1.5	60	0	0	Soils	1.4	0	Actual	Soils	578374.85	3751434.30	578375.04	3751434.55	-0.191	-0.249
7/18/07 11:45 AM	881	84-14-881		29	59	0	0	Soils	2.3	0	Actual	Soils	578438.69	3751433.79	578438.83	3751433.94	-0.138	-0.147
7/23/07 12:24 PM	882	84-14-882		36.7	56	0	0	Soils	2.1	0	Actual	Soils	578457.24	3751433.83	578456.72	3751434.02	0.523	-0.19
7/11/07 12:07 PM	883	83-14-883		20.2	20	-45	320	Baseplate	4	12	Actual	MD	578327.32	3751435.09	578327.34	3751435.16	-0.018	-0.065
7/11/07 12:05 PM	884	83-14-884		0	8	0	0	Nose Frag	1.7	7	Actual	MD	578333.67	3751435.21	578333.68	3751435.09	-0.007	0.116
7/24/07 11:37 AM	885	83-14-885		19.1	49	0	0	Soils	1.6	0	Actual	Soils	578377.87	3751435.13	578378.38	3751435.07	-0.512	0.06
7/18/07 9:50 AM	886	84-14-886		95.5	10	-90	50	Scrap Metal	5.1	14	Actual	Cultural	578419.20	3751435.91	578419.21	3751435.92	-0.009	-0.009
7/23/07 12:30 PM	887	84-14-887		33.6	63	0	0	Soils	2.6	0	Actual	Soils	578446.42	3751435.97	578446.65	3751435.84	-0.234	0.133
7/19/07 8:44 AM	888	85-14-888		35.5	1	-90	0	Scrap Metal	2.7	6	Actual	Cultural	578500.07	3751436.03	578500.24	3751436.47	-0.169	-0.444
6/26/07 10:20 AM	889	82-14-889		94.7	46	0	0	Soils	6.7	0	Actual	Soils	578288.55	3751436.38	578288.51	3751436.73	0.037	-0.345
7/19/07 2:54 PM	890	84-14-890		52.5	15	-45	300	Seeds	9.8	45	Actual	Seed Item	578492.78	3751436.79	578492.86	3751436.72	-0.081	0.078
6/26/07 12:07 PM	891	82-14-891		117.3	43	0	0	Soils	6.5	0	Actual	Soils	578254.87	3751437.07	578255.02	3751436.99	-0.15	0.076
7/17/07 11:18 AM	892	83-14-892		43.4	73	0	0	Soils	2.7	0	Actual	Soils	578396.44	3751436.93	578396.67	3751437.29	-0.228	-0.36

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ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/19/07 9:24 AM	893	84-14-893		16.2	3	0	350	Scrap Metal	4.5	18	Actual	Cultural	578448.81	3751436.85	578448.96	3751436.82	-0.154	0.033
7/17/07 11:30 AM	894	84-14-894		115.6	90	0	180	Seeds	9	45	Approximate	Seed Item	578407.33	3751437.29	578407.44	3751437.55	-0.117	-0.26
7/23/07 12:26 PM	895	84-14-895		45.1	75	0	0	Soils	4.2	0	Actual	Soils	578451.62	3751437.39	578451.82	3751437.17	-0.198	0.217
7/19/07 3:07 PM	896	84-14-896		31.5	59	0	0	Soils	2.5	0	Actual	Soils	578468.84	3751437.64	578468.95	3751437.68	-0.107	-0.032
7/11/07 12:04 PM	897	83-14-897		24.8	6	0	90	Frag	2.2	13	Actual	MD	578341.74	3751438.30	578341.31	3751437.74	0.431	0.561
7/19/07 9:21 AM	898	84-14-898		29.8	5	0	180	Frag	2.2	12	Actual	MD	578462.23	3751438.03	578462.57	3751437.86	-0.342	0.167
7/23/07 12:27 PM	899	84-14-899		14.8	44	0	0	Soils	2.1	0	Actual	Soils	578453.62	3751438.65	578453.42	3751438.54	0.206	0.109
7/19/07 3:09 PM	900	84-14-900		0.97	20	0	0	Nose Frag	2	7	Actual	MD	578457.54	3751438.40	578457.59	3751438.32	-0.049	0.082
7/16/07 9:57 AM	901	83-14-901		64.5	94	0	0	Soils	4.7	0	Actual	Soils	578359.52	3751439.43	578359.72	3751439.37	-0.202	0.064
7/17/07 11:27 AM	902	83-14-902		20.7	50	0	0	Soils	1.9	0	Actual	Soils	578389.67	3751438.90	578389.75	3751438.98	-0.08	-0.082
7/25/07 10:29 AM	903	82-14-903		164.6	164	0	0	Soils	10.3	0	Actual	Soils	578263.02	3751439.92	578263.38	3751439.75	-0.359	0.169
7/17/07 11:24 AM	904	83-14-904		66.3	96	0	0	Soils	2.4	0	Actual	Soils	578392.06	3751439.03	578391.91	3751439.12	0.146	-0.089
7/17/07 11:22 AM	905	83-14-905		1.8	48	0	0	Soils	1.3	0	Actual	Soils	578394.83	3751439.70	578394.71	3751440.06	0.115	-0.36
7/18/07 9:46 AM	906	84-14-906		21.5	8	0	320	Scrap Metal	2.7	12	Actual	Cultural	578438.29	3751439.79	578438.43	3751439.77	-0.143	0.018
7/23/07 12:28 PM	907	84-14-907		4.1	34	0	0	Soils	2	0	Actual	Soils	578450.74	3751439.37	578450.64	3751439.00	0.097	0.377
7/25/07 8:56 AM	908	82-14-908		4.5	1	-90	60	Frag	1.2	14	Actual	MD	578275.71	3751439.88	578275.73	3751440.06	-0.023	-0.174
7/19/07 9:22 AM	909	84-14-909		10.3	0	0	140	Halfshell	5.3	20	Actual	MD	578455.80	3751440.09	578455.82	3751440.03	-0.022	0.065
7/19/07 3:08 PM	910	84-14-910		47.6	77	0	0	Soils	4.1	0	Actual	Soils	578460.44	3751439.74	578460.41	3751439.64	0.028	0.102
7/25/07 10:27 AM	911	82-14-911		46.6	76	0	0	Soils	2	0	Actual	Soils	578257.97	3751440.38	578258.56	3751440.40	-0.591	-0.02
6/27/07 11:21 AM	912	83-14-912		13.3	60	0	0	Soils	1.9	0	Actual	Soils	578352.91	3751440.64	578353.40	3751440.84	-0.494	-0.198
7/16/07 1:48 PM	913	83-14-913		21.9	51	0	0	Soils	1.4	0	Actual	Soils	578371.61	3751440.48	578371.53	3751440.23	0.088	0.249
6/26/07 9:56 AM	914	82-14-914		79.9	60	-90	0	Seeds	9.8	45	Actual	Seed Item	578278.35	3751441.18	578278.50	3751441.11	-0.147	0.07
7/25/07 9:00 AM	915	82-14-915		43	30	45	280	Seeds	8.8	45	Actual	Seed Item	578260.91	3751441.77	578260.92	3751441.85	-0.009	-0.085
7/16/07 12:00 PM	916	83-14-916		37.3	67	0	0	Rock	3.2	0	Actual	Soils	578367.32	3751441.89	578367.27	3751441.55	0.054	0.341
7/16/07 9:23 AM	917	83-14-917		21.4	15	0	180	Halfshell	6.8	30	Actual	MD	578376.66	3751441.85	578376.48	3751441.69	0.184	0.163
7/19/07 2:52 PM	918	84-14-918		82.4	112	0	0	Soils	4.2	0	Actual	Soils	578498.00	3751442.07	578497.87	3751442.01	0.131	0.062
6/26/07 11:57 AM	919	82-14-919		41.7	80	0	0	Soils	2.5	0	Actual	Soils	578299.63	3751442.75	578299.47	3751442.41	0.163	0.346
7/11/07 2:04 PM	920	83-14-920		-2.1	12	-90	60	Frag	1.1	7	Actual	MD	578325.55	3751442.86	578325.40	3751442.52	0.154	0.344
7/18/07 9:48 AM	921	84-14-921		15.2	15		260	Scrap Metal	3.5	10	Actual	Cultural	578421.66	3751442.70	578421.80	3751442.70	-0.137	0.004
7/18/07 9:44 AM	922	84-14-922		53.2	7	0	180	Frag	2.1	6	Actual	MD	578452.15	3751442.95	578452.20	3751442.75	-0.049	0.202
7/19/07 3:04 PM	923	84-14-923		23.3	53	0	0	Soils	2.6	0	Actual	Soils	578469.62	3751442.77	578469.37	3751442.57	0.248	0.2
7/16/07 12:02 PM	924	83-14-924		27.2	57	0	0	Soils	3.3	0	Actual	Soils	578370.02	3751442.91	578370.40	3751443.47	-0.382	-0.561
7/19/07 8:40 AM	925	84-14-925		23.5	30	-90	0	Scrap Metal	1.6	25	Actual	Cultural	578489.24	3751443.28	578488.89	3751443.44	0.342	-0.156
6/26/07 10:04 AM	926	82-14-926		1	30	0	60	Frag	6.1	8	Approximate	MD	578285.25	3751444.09	578284.91	3751444.08	0.337	0.009
7/16/07 11:56 AM	927	83-14-927		9.8	40	0	0	Soils	1.6	0	Actual	Soils	578363.38	3751444.51	578363.26	3751444.73	0.117	-0.22
7/16/07 9:13 AM	928	83-14-928		28.8	40	-90	0	Baseplate	4.4	12	Actual	MD	578373.19	3751444.21	578373.31	3751443.93	-0.121	0.281
6/26/07 11:19 AM	929	82-14-929		6.3	73	0	0	Soils	1.5	0	Actual	Soils	578253.97	3751444.40	578253.99	3751444.15	-0.011	0.253
6/26/07 9:51 AM	930	82-14-930		36.1	20	45	80	Baseplate	4	12	Actual	MD	578270.64	3751444.51	578270.51	3751444.52	0.125	-0.016
6/27/07 11:25 AM	931	83-14-931		59	33	0	0	Baseplate	4.5	11	Approximate	MD	578355.30	3751444.66	578355.52	3751444.51	-0.22	0.156
6/27/07 10:14 AM	932	83-14-932		28.5	10	0	290	Halfshell	7.5	30	Actual	MD	578397.67	3751444.62	578397.80	3751444.60	-0.126	0.021
7/18/07 2:18 PM	933	84-14-933		109	100	0	-90	Seeds	10.2	45	Actual	Seed Item	578430.96	3751444.54	578430.66	3751444.47	0.297	0.077
7/17/07 2:53 PM	934	84-14-934		20.8	2	0	60	Halfshell	4.7	15	Actual	MD	578455.33	3751444.39	578455.44	3751444.45	-0.116	-0.063
7/19/07 3:05 PM	935	84-14-935		24.5	54	0	0	Soils	2.2	0	Actual	Soils	578468.19	3751444.34	578468.24	3751444.33	-0.057	0.008
7/16/07 11:55 AM	936	83-14-936		34.2	64	0	0	Soils	2.7	0	Actual	Soils	578366.27	3751444.90	578366.01	3751444.96	0.256	-0.055
6/26/07 11:55 AM	937	82-14-937		60.6	95	0	0	Soils	3.1	0	Actual	Soils	578299.19	3751445.61	578299.18	3751445.48	0.006	0.126

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Single Point Anomaly Results
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TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/12/07 1:46 PM	938	83-14-938		70.9	60	90	0	Seeds	9.7	45	Approximate	Seed Item	578328.15	3751446.27	578327.96	3751445.91	0.189	0.362
7/12/07 2:42 PM	939	83-14-939		24.2	60	0	0	Soils	2.3	0	Actual	Soils	578368.62	3751445.58	578369.01	3751445.86	-0.392	-0.282
7/16/07 9:05 AM	939	83-14-939		24.2	54	0	0	Soils	2.3	0	Actual	Soils	578368.62	3751445.58	578369.01	3751445.86	-0.392	-0.282
7/18/07 11:52 AM	940	84-14-940		59.8	30	-45	350	Seeds	9.7	45	Actual	Seed Item	578418.21	3751445.92	578418.08	3751445.70	0.127	0.215
7/19/07 3:00 PM	941	84-14-941		59.5	89	0	0	Soils	3.1	0	Actual	Soils	578481.46	3751446.08	578481.47	3751446.01	-0.016	0.074
7/19/07 8:36 AM	942	84-14-942		20.2	18	0	320	Halfshell	2	10	Actual	MD	578491.69	3751446.22	578491.48	3751445.99	0.211	0.229
6/27/07 11:31 AM	943	83-14-943		108.6	60	0	0	Soils	6.3	0	Actual	Soils	578344.27	3751446.09	578344.16	3751446.14	0.113	-0.047
6/27/07 10:27 AM	944	83-14-944		22.2	3	0	60	Halfshell	7.8	30	Actual	MD	578373.06	3751446.27	578373.03	3751446.23	0.031	0.04
7/16/07 9:09 AM	945	83-14-945		38.1	36	-90	0	Baseplate	4.2	12	Actual	MD	578375.89	3751446.48	578376.07	3751446.40	-0.184	0.077
7/19/07 9:19 AM	946	84-14-946		29.4	8	-90	0	Baseplate	4.4	12	Actual	MD	578477.66	3751446.57	578477.74	3751446.64	-0.071	-0.068
7/19/07 2:49 PM	947	84-14-947		28.4	58	0	0	Soils	2.8	0	Actual	Soils	578493.84	3751446.62	578493.41	3751446.75	0.431	-0.126
7/25/07 9:27 AM	948	82-14-948		89	119	0	0	Soils	5.3	0	Actual	Soils	578249.99	3751446.21	578249.58	3751446.23	0.408	-0.023
7/19/07 11:23 AM	949	84-14-949		88	118	0	0	Soils	6.7	0	Actual	Soils	578495.81	3751447.18	578495.32	3751446.87	0.493	0.315
7/19/07 11:20 AM	950	84-14-950		42.2	72	0	0	Soils	3.7	0	Actual	Soils	578498.84	3751447.14	578499.01	3751447.19	-0.167	-0.055
6/26/07 11:15 AM	951	82-14-951		48.9	45	0	0	Soils	3.9	0	Actual	Soils	578252.88	3751446.55	578253.41	3751446.90	-0.527	-0.344
6/26/07 9:48 AM	952	82-14-952		93.6	30	0	0	No Contact	5.1	0	Actual	No Contacts	578263.84	3751447.63	578264.32	3751447.66	-0.48	-0.033
6/26/07 10:06 AM	953	82-14-953		17.8	12	0	250	Scrap Metal	1.8	9	Actual	Cultural	578287.97	3751447.99	578288.02	3751447.93	-0.058	0.064
7/11/07 2:01 PM	954	83-14-954		40.6	15	0	0	Scrap Metal	3	9	Actual	Cultural	578315.90	3751447.52	578315.76	3751447.25	0.137	0.276
7/18/07 2:27 PM	955	84-14-955		60.5	40	-90	0	Seeds	9	45	Approximate	Seed Item	578442.90	3751447.43	578442.94	3751447.52	-0.045	-0.089
6/26/07 12:20 PM	956	82-14-956		55.3	60	0	90	Seeds	8.3	45	Actual	Seed Item	578277.67	3751447.87	578277.56	3751447.73	0.111	0.137
7/16/07 10:01 AM	957	83-14-957		30.4	61	0	0	Soils	2.2	0	Actual	Soils	578344.27	3751448.18	578344.63	3751448.30	-0.365	-0.117
7/17/07 2:49 PM	958	84-14-958		9.4	12	-45	320	Baseplate	3.2	12	Actual	MD	578459.95	3751447.84	578459.95	3751447.89	-0.003	-0.055
6/26/07 10:09 AM	959	82-14-959		25.8	20	0	0	Frag	2.2	7	Actual	MD	578297.41	3751448.37	578297.33	3751448.39	0.084	-0.021
7/25/07 10:34 AM	960	82-14-960		39.6	69	0	0	Soils	2.2	0	Actual	Soils	578272.17	3751448.74	578272.68	3751448.41	-0.505	0.337
7/11/07 12:13 PM	961	83-14-961		51.6	20	0	0	Rock	2.4	3	Actual	Rock	578301.35	3751449.54	578301.74	3751449.55	-0.392	-0.01
6/27/07 10:31 AM	962	83-14-962		20.8	7	0	160	Halfshell	7.1	30	Actual	MD	578338.45	3751449.25	578338.49	3751449.22	-0.044	0.027
7/16/07 11:39 AM	963	83-14-963		17.1	47	0	0	Soils	2	0	Actual	Soils	578380.33	3751449.32	578380.26	3751448.88	0.074	0.446
6/26/07 9:47 AM	964	82-14-964		16.3	0	0	90	Baseplate	3.8	11	Actual	MD	578266.14	3751449.31	578266.20	3751449.38	-0.058	-0.066
7/16/07 8:34 AM	965	83-14-965		16.6	15	-45	330	Frag	1.6	19	Actual	MD	578342.50	3751449.36	578342.31	3751449.19	0.194	0.162
7/16/07 11:45 AM	966	83-14-966		49	77	0	0	Soils	3.6	0	Actual	Soils	578378.31	3751449.10	578378.38	3751449.14	-0.074	-0.04
7/18/07 2:33 PM	967	84-14-967		55	60	-90	0	Scrap Metal	3.3	15	Actual	Cultural	578440.61	3751449.12	578440.75	3751449.12	-0.138	0.008
7/23/07 12:17 PM	968	84-14-968		44.2	30	45	350	Seeds	8.7	45	Approximate	Seed Item	578472.62	3751449.28	578472.75	3751449.52	-0.131	-0.24
7/11/07 12:21 PM	969	83-14-969		25	2	0	330	Scrap Metal	5.8	40	Actual	Cultural	578313.63	3751450.09	578313.64	3751450.03	-0.005	0.061
7/16/07 8:39 AM	970	83-14-970		38.1	5	0	0	Nose Frag	4.2	7	Actual	MD	578349.48	3751450.01	578349.41	3751450.25	0.067	-0.249
7/16/07 11:51 AM	971	83-14-971		63.5	93	0	0	Soils	3.6	0	Actual	Soils	578362.09	3751450.42	578361.99	3751450.99	0.095	-0.579
7/16/07 11:37 AM	972	83-14-972		1.8	40	0	0	Soils	1.3	0	Actual	Soils	578383.22	3751449.84	578383.36	3751450.09	-0.138	-0.252
7/18/07 9:47 AM	973	84-14-973		39.4	15	0	290	Frag	3.1	14	Actual	MD	578422.93	3751449.45	578422.70	3751449.61	0.232	-0.162
7/18/07 9:42 AM	974	84-14-974		52.5	10	-45	90	Frag	2.9	8	Actual	MD	578448.59	3751449.77	578448.91	3751450.02	-0.318	-0.253
7/11/07 12:18 PM	975	83-14-975		16.1	7	0	180	Scrap Metal	4.7	17	Actual	Cultural	578306.74	3751450.55	578306.74	3751450.55	-0.005	0
7/18/07 2:33 PM	976	84-14-976		55.3	85	0	0	Soils	4.5	0	Actual	Soils	578438.70	3751450.21	578438.82	3751450.18	-0.116	0.034
7/25/07 9:19 AM	977	82-14-977		90.1	120	0	0	Soils	7.6	0	Actual	Soils	578251.10	3751452.15	578251.37	3751452.35	-0.274	-0.201
7/25/07 10:35 AM	978	82-14-978		75.2	108	0	0	Soils	3.8	0	Actual	Soils	578274.04	3751450.61	578274.45	3751450.79	-0.412	-0.179
6/27/07 11:38 AM	979	83-14-979		56.8	60	0	0	Soils	2.7	0	Actual	Soils	578336.27	3751451.25	578336.16	3751451.02	0.104	0.222
7/16/07 11:40 AM	980	83-14-980		83.7	113	0	0	Soils	4	0	Actual	Soils	578381.45	3751451.54	578381.71	3751450.68	-0.258	0.856
7/18/07 9:37 AM	981	84-14-981		17.6	9	-45	170	Baseplate	4.1	12	Actual	MD	578428.66	3751451.55	578428.79	3751451.63	-0.134	-0.073

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

			Mag-N Flag ID	(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/26/07 9:44 AM	982	82-14-982		84.6	10	0	40	Scrap Metal	2.7	12	Actual	Cultural	578279.51	3751452.50	578279.29	3751453.01	0.228	-0.516
7/16/07 8:36 AM	983	83-14-983		20.3	12	-90	310	Frag	1.8	6	Actual	MD	578341.02	3751452.50	578341.06	3751452.07	-0.041	0.434
7/17/07 8:28 AM	984	84-14-984		43.5	15	0	180	Scrap Metal	3.6	8	Actual	Cultural	578402.91	3751452.33	578402.97	3751452.17	-0.059	0.158
7/26/07 12:05 PM	984	84-14-984		43.5	73	0	0	Soils	3.6	0	Actual	Soils	578402.91	3751452.33	578403.23	3751451.96	-0.32	0.37
7/17/07 11:41 AM	985	84-14-985		-2.9	32	0	0	Soils	1.2	0	Actual	Soils	578411.96	3751453.03	578412.24	3751453.39	-0.28	-0.36
7/17/07 2:54 PM	986	84-14-986		26.7	0	-90	0	Corner Stake	2.4	20	Actual	Cultural	578453.88	3751453.22	578453.87	3751453.12	0.014	0.092
7/25/07 9:17 AM	987	82-14-987		94.2	124	0	0	Soils	4.7	0	Actual	Soils	578252.96	3751453.60	578253.54	3751453.72	-0.587	-0.117
7/25/07 10:38 AM	988	82-14-988		50.2	80	0	0	Soils	3.2	0	Actual	Soils	578286.13	3751453.21	578286.80	3751453.22	-0.668	-0.009
7/18/07 9:35 AM	989	84-14-989		10.9	10	-90	280	Frag	2.1	14	Actual	MD	578427.34	3751453.57	578427.33	3751453.68	0.012	-0.112
7/18/07 9:38 AM	990	84-14-990		31.9	5	0	350	Frag	2.1	10	Actual	MD	578431.96	3751453.63	578432.08	3751453.69	-0.12	-0.052
7/26/07 3:13 PM	991	84-14-991		50.5	40	-90	0	Seeds	9.9	45	Approximate	Seed Item	578461.62	3751453.51	578461.73	3751453.55	-0.109	-0.036
7/19/07 11:16 AM	992	85-14-992		61.5	91	0	0	Soils	4.6	0	Actual	Soils	578500.03	3751453.38	578500.16	3751453.21	-0.126	0.174
7/25/07 8:48 AM	993	82-14-993		25.5	7	0	0	Rock	2.4	3	Actual	Rock	578296.17	3751454.61	578295.95	3751454.35	0.217	0.258
7/11/07 2:06 PM	994	83-14-994		69.1	14	-45	340	Frag	3.3	6	Actual	MD	578336.28	3751454.65	578336.25	3751454.18	0.034	0.468
7/16/07 9:07 AM	995	83-14-995		18.9	2	0	170	Halfshell	7.2	30	Actual	MD	578371.43	3751455.25	578371.44	3751455.19	-0.008	0.058
7/17/07 11:49 AM	996	84-14-996		73.9	103	0	0	Soils	4.1	0	Actual	Soils	578401.23	3751455.05	578401.07	3751455.10	0.165	-0.048
7/19/07 8:33 AM	997	84-14-997		37.7	8	0	0	Nose Frag	2.6	7	Actual	MD	578479.37	3751455.09	578479.23	3751455.28	0.131	-0.198
7/16/07 10:55 AM	998	83-14-998		88.8	90	0	270	Seeds	7.5	45	Actual	Seed Item	578376.44	3751456.27	578376.42	3751456.28	0.018	-0.005
6/26/07 11:38 AM	999	82-14-999		81.8	42	0	0	Soils	2.9	0	Actual	Soils	578280.93	3751456.47	578280.77	3751456.62	0.155	-0.15
7/17/07 2:47 PM	1000	84-14-1000		20.6	30	0	180	Frag	2.4	14	Actual	MD	578457.90	3751456.49	578457.94	3751456.78	-0.041	-0.29
7/17/07 11:45 AM	1001	84-14-1001		56.1	86	0	0	Soils	4.2	0	Actual	Soils	578407.79	3751456.94	578408.12	3751456.67	-0.335	0.276
7/11/07 4:01 PM	1002	83-14-1002		113.9	60	0	0	Soils	5.8	0	Actual	Soils	578336.55	3751457.15	578336.66	3751457.10	-0.118	0.048
7/16/07 10:22 AM	1003	83-14-1003		11.7	141	0	0	Soils	1.8	0	Actual	Soils	578357.20	3751457.53	578357.12	3751456.98	0.083	0.547
7/17/07 2:58 PM	1004	84-14-1004		43.6	10	-45	270	Baseplate	4.8	12	Actual	MD	578441.95	3751457.48	578442.04	3751457.40	-0.081	0.077
7/17/07 12:07 PM	1005	83-14-1005		43.7	73	0	0	Soils	2.8	0	Actual	Soils	578383.29	3751457.69	578383.20	3751457.60	0.094	0.09
7/17/07 8:25 AM	1006	84-14-1006		35.1	30	0	0	Nose Frag	2.9	7	Actual	MD	578412.40	3751457.75	578412.21	3751457.89	0.191	-0.148
7/17/07 2:47 PM	1007	84-14-1007		32.5	10	-45	110	Baseplate	4.4	12	Actual	MD	578454.45	3751458.14	578454.37	3751458.01	0.076	0.127
7/17/07 3:08 PM	1008	84-14-1008		48.1	40	0	0	Nose Frag	5.5	7	Actual	MD	578432.42	3751458.66	578432.24	3751459.01	0.182	-0.349
7/17/07 8:26 AM	1009	84-14-1009		57	30	-45	330	Seeds	10	45	Actual	Seed Item	578407.09	3751458.88	578407.32	3751458.72	-0.23	0.166
7/17/07 2:57 PM	1010	84-14-1010		51.9	35	-90	0	Baseplate	5.2	12	Actual	MD	578449.52	3751459.06	578449.25	3751458.81	0.27	0.251
7/16/07 10:51 AM	1011	83-14-1011		27.9	30	0	0	Soils	2.7	30	Actual	Soils	578366.04	3751460.62	578365.51	3751460.44	0.534	0.178
6/26/07 11:27 AM	1012	82-14-1012		30.2	105	0	0	Soils	2.6	0	Actual	Soils	578272.58	3751460.69	578272.61	3751460.76	-0.032	-0.074
7/17/07 11:42 AM	1013	84-14-1013		39.4	69	0	0	Soils	2.3	0	Actual	Soils	578416.71	3751460.21	578416.91	3751460.36	-0.203	-0.144
7/17/07 3:03 PM	1014	84-14-1014		12.8	8	0	60	Frag	1.6	7	Actual	MD	578432.10	3751460.72	578432.13	3751460.98	-0.028	-0.259
7/11/07 2:16 PM	1015	83-14-1015		4.1	11	-30	140	Frag	1.3	9	Actual	MD	578301.21	3751461.78	578301.59	3751461.58	-0.382	0.2
7/11/07 3:17 PM	1016	83-14-1016		32.4	62	0	0	Soils	2.6	0	Actual	Soils	578314.60	3751460.84	578314.46	3751461.10	0.14	-0.257
7/11/07 3:47 PM	1017	83-14-1017		78.1	60	0	0	Soils	5.2	0	Actual	Soils	578324.10	3751461.69	578323.97	3751461.66	0.129	0.023
7/17/07 8:23 AM	1018	84-14-1018		26.5	12	-90	0	Baseplate	3.4	12	Actual	MD	578413.57	3751461.46	578413.67	3751461.37	-0.102	0.09
7/17/07 2:46 PM	1019	84-14-1019		24.4	7	0	210	Nose Frag	2.5	7	Actual	MD	578452.02	3751461.25	578452.24	3751461.39	-0.222	-0.146
7/26/07 10:15 AM	1020	82-14-1020		46.3	76	0	0	Soils	3	0	Actual	Soils	578290.03	3751462.09	578290.44	3751461.86	-0.406	0.227
7/11/07 3:54 PM	1021	83-14-1021		82	60	0	0	Soils	4.5	0	Actual	Soils	578327.63	3751462.81	578327.53	3751462.25	0.098	0.563
6/27/07 10:02 AM	1022	83-14-1022		28.2	15	20	200	Seeds	8.7	45	Actual	Seed Item	578340.19	3751462.10	578340.13	3751462.13	0.064	-0.031
7/16/07 10:04 AM	1023	83-14-1023		20.6	50	0	0	Soils	2.1	0	Actual	Soils	578345.25	3751461.91	578345.73	3751461.71	-0.476	0.205
7/25/07 9:16 AM	1024	82-14-1024		42.6	52	0	0	Soils	2.6	0	Actual	Soils	578254.79	3751462.09	578253.81	3751461.17	0.974	0.918
6/26/07 9:24 AM	1025	82-14-1025		18	0	-90	0	Corner Stake	3.1	20	Actual	Corner Stake	578249.89	3751463.11	578250.04	3751462.93	-0.155	0.188

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/16/07 8:51 AM	1026	83-14-1026		-2	5	-45	120	Scrap Metal	1.5	20	Actual	Cultural	578357.65	3751463.08	578357.93	3751462.72	-0.28	0.362
7/25/07 9:03 AM	1027	82-14-1027		47.8	77	0	0	Soils	3.4	0	Actual	Soils	578253.19	3751463.66	578253.18	3751463.89	0.009	-0.229
6/26/07 11:40 AM	1028	82-14-1028		72.2	64	0	0	Soils	3.6	0	Actual	Soils	578294.85	3751463.24	578294.30	3751463.20	0.544	0.034
7/11/07 2:08 PM	1029	83-14-1029		5.5	3	-45	220	Baseplate	3.2	12	Actual	MD	578304.95	3751463.58	578304.95	3751463.51	0.003	0.079
7/16/07 10:12 AM	1030	83-14-1030		52	82	0	0	Soils	2.9	0	Actual	Soils	578347.42	3751463.86	578347.32	3751464.22	0.104	-0.361
7/18/07 9:33 AM	1031	84-14-1031		-0.4	5	0	350	Frag	1.5	12	Actual	MD	578429.60	3751463.67	578429.67	3751463.78	-0.067	-0.111
6/26/07 9:26 AM	1032	82-14-1032		25.4	30	-45	330	Halfshell	4.9	30	Actual	MD	578269.36	3751463.89	578269.43	3751463.85	-0.065	0.045
7/18/07 2:39 PM	1033	84-14-1033		93.3	80	-45	350	Seeds	8.7	45	Approximate	Seed Item	578421.72	3751464.30	578421.45	3751464.28	0.273	0.019
7/18/07 3:06 PM	1034	84-14-1034		49.8	60	45	90	Seeds	8.1	45	Approximate	Seed Item	578445.18	3751463.67	578445.24	3751463.80	-0.06	-0.128
7/17/07 3:01 PM	1035	84-14-1035		-2.3	15	-90	300	Frag	1.5	14	Actual	MD	578432.98	3751464.32	578432.74	3751464.27	0.243	0.056
7/11/07 3:45 PM	1036	83-14-1036		143.5	60	0	0	Soils	9.2	0	Actual	Soils	578318.56	3751464.99	578318.76	3751465.02	-0.198	-0.034
8/1/07 11:22 AM	1037	83-14-1037		54.5	84	0	0	No Contact	3	0	Actual	No Contacts	578376.20	3751465.33	578376.21	3751465.29	-0.01	0.04
7/17/07 3:00 PM	1038	84-14-1038		24.5	15	-45	310	Baseplate	4.2	12	Actual	MD	578434.79	3751465.26	578434.77	3751465.03	0.023	0.229
6/27/07 11:52 AM	1039	83-14-1039		80.2	82	0	0	Soils	4.7	0	Actual	Soils	578334.05	3751466.25	578333.90	3751465.97	0.144	0.273
7/25/07 8:51 AM	1040	82-14-1040		-2.1	32	0	0	Soils	1.3	0	Actual	Soils	578285.79	3751466.59	578285.68	3751466.48	0.108	0.11
7/16/07 10:07 AM	1041	83-14-1041		100.5	131	0	0	Soils	6.5	0	Actual	Soils	578348.55	3751466.53	578348.14	3751466.02	0.41	0.513
8/1/07 11:16 AM	1042	82-14-1042		1.8	48	0	0	No Contact	1.3	0	Actual	No Contacts	578298.98	3751467.16	578298.93	3751467.05	0.06	0.11
7/16/07 8:41 AM	1043	83-14-1043		28.6	3	0	170	Scrap Metal	3.5	40	Actual	Cultural	578350.77	3751467.37	578350.61	3751467.58	0.165	-0.147
7/16/07 10:26 AM	1044	83-14-1044		88.3	118	0	0	Soils	6.1	0	Actual	Soils	578363.28	3751467.80	578363.42	3751467.05	-0.142	0.75
7/18/07 3:14 PM	1045	84-14-1045		73.9	60	-90	0	Seeds	9.4	45	Actual	Seed Item	578461.43	3751467.02	578461.38	3751467.09	0.054	-0.078
7/11/07 2:57 PM	1046	83-14-1046		49.4	80	0	0	Soils	2.6	0	Actual	Soils	578301.37	3751467.69	578301.24	3751467.89	0.136	-0.192
7/18/07 2:43 PM	1047	84-14-1047		65.1	95	0	0	Soils	3	0	Actual	Soils	578419.28	3751467.98	578418.88	3751467.81	0.401	0.167
7/19/07 8:29 AM	1048	84-14-1048		15.6	2	0	70	Halfshell	6.5	30	Actual	MD	578470.06	3751467.57	578469.97	3751467.58	0.088	-0.011
6/26/07 9:40 AM	1049	82-14-1049		1.5	8	-45	140	Frag	1.4	15	Actual	MD	578289.25	3751467.68	578289.30	3751467.65	-0.051	0.028
7/11/07 2:56 PM	1050	83-14-1050		42.5	73	0	0	Soils	2.6	0	Actual	Soils	578303.61	3751468.03	578303.76	3751468.28	-0.149	-0.252
6/27/07 9:59 AM	1051	83-14-1051		21.8	2	0	180	Frag	1.4	10	Actual	MD	578326.15	3751467.80	578325.99	3751467.65	0.157	0.155
7/16/07 10:32 AM	1052	83-14-1052		15	53	0	0	Soils	1.9	0	Actual	Soils	578368.45	3751468.07	578368.39	3751468.17	0.055	-0.102
7/17/07 12:01 PM	1053	83-14-1053		-2.5	33	0	0	Soils	1.2	0	Actual	Soils	578391.68	3751467.72	578391.68	3751467.49	-0.002	0.23
7/18/07 10:54 AM	1054	84-14-1054		48	80	0	0	Soils	2.8	0	Actual	Soils	578378.46	3751468.37	578378.21	3751468.52	0.244	-0.15
7/16/07 10:35 AM	1055	83-14-1055		7.4	37	0	0	Soils	1.6	0	Actual	Soils	578370.05	3751469.90	578369.86	3751470.24	0.192	-0.342
6/27/07 1:25 PM	1056	83-14-1056		115.6	35	0	0	Soils	7.4	0	Actual	Soils	578381.04	3751469.13	578380.97	3751468.85	0.075	0.286
7/11/07 3:57 PM	1057	83-14-1057		71.4	60	45	180	Seeds	9.5	45	Actual	Seed Item	578331.45	3751470.14	578331.40	3751469.90	0.052	0.241
7/11/07 3:06 PM	1058	83-14-1058		74.1	120	0	270	Seeds	4.8	45	Actual	Seed Item	578299.62	3751470.37	578299.75	3751470.39	-0.133	-0.019
7/16/07 10:37 AM	1059	83-14-1059		21.3	60	0	0	Soils	2	0	Actual	Soils	578372.91	3751470.35	578372.48	3751470.65	0.425	-0.304
7/11/07 2:52 PM	1060	83-14-1060		31.9	61	0	0	Soils	1.8	0	Actual	Soils	578303.77	3751470.87	578304.12	3751470.91	-0.344	-0.04
7/17/07 8:20 AM	1061	84-14-1061		83.4	2	0	120	Scrap Metal	4.8	6	Actual	Cultural	578397.14	3751470.87	578397.20	3751471.20	-0.062	-0.329
7/19/07 10:54 AM	1062	84-14-1062		Inf	30	0	0	Soils	Inf	3	Actual	Soils	578474.50	3751471.00	578474.54	3751470.91	-0.038	0.093
7/19/07 11:03 AM	1063	84-14-1063		37.8	10	0	60	Seeds	8.8	45	Actual	Seed Item	578486.35	3751470.93	578486.37	3751470.75	-0.014	0.179
7/11/07 2:48 PM	1064	83-14-1064		-10.1	71	0	0	Soils	0.9	0	Actual	Soils	578321.63	3751472.01	578321.35	3751471.65	0.279	0.351
7/18/07 9:20 AM	1065	84-14-1065		2.2	2	0	0	Nose Frag	1.6	7	Actual	MD	578430.61	3751471.69	578430.66	3751471.62	-0.05	0.07
6/26/07 9:35 AM	1066	82-14-1066		3	0	-90	0	Scrap Metal	2.5	20	Actual	Cultural	578286.08	3751472.01	578285.96	3751471.90	0.126	0.112
6/26/07 9:36 AM	1067	82-14-1067		14	15	0	90	Baseplate	3	11	Actual	MD	578291.60	3751472.29	578291.57	3751472.26	0.028	0.034
7/11/07 2:43 PM	1068	83-14-1068		22.4	116	0	0	Soils	2.2	0	Actual	Soils	578318.27	3751471.81	578317.92	3751471.95	0.352	-0.146
7/17/07 11:57 AM	1069	84-14-1069		89.8	119	0	0	Soils	4.9	0	Actual	Soils	578403.49	3751472.44	578403.41	3751472.21	0.077	0.225
7/17/07 8:18 AM	1070	83-14-1070		2.6	5	0	60	Scrap Metal	1.7	14	Actual	Cultural	578389.82	3751472.84	578389.59	3751472.69	0.233	0.15

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/17/07 11:52 AM	1071	84-14-1071		103.5	133	0	0	Soils	4.9	0	Actual	Soils	578406.56	3751472.43	578406.87	3751472.52	-0.311	-0.094
7/16/07 10:41 AM	1072	83-14-1072		54.4	51	0	0	Soils	2.7	0	Actual	Soils	578365.55	3751473.18	578365.98	3751473.02	-0.429	0.153
7/17/07 8:22 AM	1073	84-14-1073		102.3	5	0	0	Rock	5.7	2	Actual	Rock	578410.51	3751472.79	578411.09	3751472.80	-0.573	-0.012
7/18/07 3:03 PM	1074	84-14-1074		28.7	58	0	0	Soils	1.8	0	Actual	Soils	578454.65	3751472.86	578454.97	3751472.74	-0.319	0.115
7/19/07 8:26 AM	1075	84-14-1075		5.6	4	0	170	Scrap Metal	1.7	11	Actual	Cultural	578473.48	3751473.12	578473.44	3751473.08	0.041	0.045
7/18/07 9:13 AM	1076	84-14-1076		64.2	60	-45	290	Baseplate	5	12	Actual	MD	578427.37	3751475.02	578427.62	3751474.86	-0.252	0.157
7/16/07 8:46 AM	1077	83-14-1077		46.7	20	0	0	Nose Frag	2.8	7	Actual	MD	578347.21	3751475.70	578346.73	3751475.62	0.488	0.085
7/11/07 2:33 PM	1078	83-14-1078		37.3	46	0	0	Soils	1.9	0	Actual	Soils	578322.68	3751476.14	578322.82	3751476.43	-0.141	-0.295
7/18/07 3:22 PM	1079	84-14-1079		86	60	0	0	Rock	5	6	Actual	Rock	578459.07	3751476.14	578459.45	3751476.21	-0.374	-0.078
6/27/07 1:01 PM	1080	83-14-1080		69.5	60	0	0	Soils	3.5	0	Actual	Soils	578342.57	3751476.69	578343.01	3751476.79	-0.435	-0.101
7/11/07 2:17 PM	1081	83-14-1081		2.4	15	45	180	Baseplate	3.1	12	Actual	MD	578309.15	3751477.94	578309.03	3751477.87	0.126	0.063
7/18/07 8:52 AM	1082	83-14-1082		34.9	4	0	0	Rock	2.2	1	Actual	Rock	578397.68	3751477.44	578398.10	3751477.70	-0.424	-0.267
6/27/07 12:55 PM	1083	83-14-1083		34.8	60	0	0	Soils	3.7	0	Actual	Soils	578329.78	3751478.64	578329.49	3751478.58	0.287	0.059
7/18/07 8:48 AM	1084	83-14-1084		-10.4	25	0	0	Nose Frag	1	7	Actual	MD	578384.29	3751478.41	578384.19	3751478.41	0.099	0.003
7/18/07 8:55 AM	1085	85-15-1085		30.8	40	-90	0	Baseplate	3.2	12	Actual	MD	578406.24	3751478.65	578406.39	3751478.51	-0.15	0.137
6/4/07 2:34 PM	1086	89-17-1086	mf9		13	-30	120	Frag		8	Actual	MD			578935.40	3751708.01		
6/4/07 2:08 PM	1087	89-17-1087	mf11		14	0	210	Frag		3	Actual	MD			578933.82	3751705.23		
6/4/07 2:17 PM	1088	89-17-1088	mf18		6	90	51	Frag		10	Approximate	MD			578936.00	3751703.14		
6/4/07 2:24 PM	1089	89-17-1089	mf19		4	-90	45	Scrap Metal		13	Actual	Cultural			578936.90	3751704.30		
6/4/07 2:29 PM	1090	89-17-1090	mf20		16	90	300	Frag		9	Actual	MD			578938.15	3751704.42		
6/4/07 2:01 PM	1091	89-17-1091	mf6		12	0	242	Frag		5	Actual	MD			578930.15	3751700.99		
6/5/07 8:24 AM	1092	89-17-1092	mf35		22	0	355	Frag		10	Actual	MD			578943.49	3751707.84		
6/5/07 8:36 AM	1093	89-17-1093	mf36		7	0	0	Frag		4	Approximate	MD			578943.51	3751709.84		
6/5/07 8:40 AM	1094	89-17-1094	mf37		8	45	270	Nose Frag		7	Actual	MD			578946.76	3751707.84		
6/5/07 8:48 AM	1095	89-17-1095	mf38		1	0	0	Frag		1	Actual	MD			578948.61	3751703.05		
6/5/07 8:56 AM	1096	89-17-1096	mf46		15	-90	260	Frag		13	Actual	MD			578950.24	3751705.80		
6/5/07 9:17 AM	1097	89-17-1097	mf47		5	0	120	Rock		5	Actual	Rock			578954.25	3751703.79		
6/5/07 9:15 AM	1098	89-17-1098	mf48		1	0	0	Rock		1	Actual	Rock			578954.64	3751704.29		
6/4/07 1:59 PM	1099	89-16-1099	mf12		1	0	0	Scrap Metal		4	Actual	Cultural			578934.16	3751699.82		
6/4/07 1:56 PM	1100	89-16-1100	mf5		3	0	0	Frag		1	Approximate	MD			578930.82	3751696.49		
6/4/07 1:53 PM	1101	89-16-1101	mf13		32	0	85	Nose Frag		8	Actual	MD			578934.26	3751696.13		
6/4/07 12:52 PM	1102	89-16-1102	mf16		25	0	285	Frag		16	Actual	MD			578936.40	3751695.45		
6/4/07 1:45 PM	1103	89-16-1103	mf17		16	90	70	Frag		19	Actual	MD			578935.99	3751697.50		
6/4/07 12:48 PM	1104	89-16-1104	mf22+23		7	0	239	Halfshell		19	Actual	MD			578937.75	3751695.86		
8/1/07 1:00 PM	1105	89-16-1105		NA	30	0	0	No Contact	NA	0	Actual	No Contacts			578937.85	3751695.74		
6/4/07 12:43 PM	1106	89-16-1106	mf24		17	-45	241	Frag		6	Actual	MD			578937.01	3751693.38		
6/4/07 12:18 PM	1107	89-16-1107	mf15		3	0	300	Frag		5	Approximate	MD			578934.74	3751692.13		
6/4/07 12:41 PM	1108	89-16-1108	mf30		4	0	120	Frag		3	Actual	MD			578942.38	3751690.05		
6/4/07 12:39 PM	1109	89-16-1109	mf29		2	0	89	Scrap Metal		9	Actual	Cultural			578943.61	3751690.25		
6/5/07 10:30 AM	1110	89-16-1110	mf40		5	0	0	Rock		1	Approximate	Rock			Soil			
6/4/07 12:32 PM	1111	89-16-1111	mf28		5	0	50	Frag		3	Actual	MD			578944.51	3751685.06		
6/5/07 10:35 AM	1112	89-16-1112	mf41		2	0	330	Frag		3	Actual	MD			578950.20	3751686.07		
6/5/07 10:33 AM	1113	89-16-1113	mf42		3	0	0	Rock		1	Approximate	Rock			Soil			
6/5/07 10:36 AM	1114	89-16-1114	mf43		18	-45	120	Frag		9	Actual	MD			578953.57	3751686.96		
6/5/07 10:42 AM	1115	89-16-1115	mf44		22	0	170	Frag		13	Actual	MD			578954.66	3751687.07		

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
6/20/07 2:22 PM	1116	88-16-1116		73	80	80	0	Seeds	11	45	Actual	Seed Item	578839.68	3751646.78	578839.73	3751646.79	-0.0557	-0.007
6/21/07 1:44 PM	1117	89-16-1117		24	10	-45	300	Seeds	9	45	Actual	Seed Item	578924.28	3751647.63	578924.26	3751647.68	0.0227	-0.048
6/25/07 3:49 PM	1118	88-16-1118		36	-90	30	0	Seeds	12	45	Actual	Seed Item	578875.46	3751654.16	578875.43	3751654.12	0.0263	0.039
6/21/07 1:48 PM	1119	89-16-1119		67	53	-45	90	Seeds	14	45	Actual	Seed Item	578906.82	3751655.31	578906.77	3751655.38	0.0507	-0.069
6/21/07 2:00 PM	1120	89-16-1120		11	2	0	180	Halfshell	8	30	Actual	MD	578920.59	3751682.69	578920.64	3751682.57	-0.0517	0.116
6/21/07 8:46 AM	1121	84-14-1121		9	5	-90	350	Baseplate	5	11	Actual	MD	578902.77	3751684.94	578902.75	3751684.92	0.013	0.019
6/21/07 10:19 AM	1122	88-16-1122		10	5	-45	45	Halfshell	6	13	Actual	MD	578856.26	3751686.79	578856.27	3751686.79	-0.0143	0
6/21/07 2:15 PM	1123	89-16-1123		7	8	0	320	Halfshell	8	30	Actual	MD	578966.27	3751690.84	578966.35	3751690.94	-0.083	-0.101
8/2/07 7:10 AM	1124	89-16-1124		20	0	0	0	No Contact	6	0	Actual	Dig 1104	578937.76	3751695.89	No Contact			
6/21/07 2:14 PM	1125	89-16-1125		11	8	0	60	Scrap Metal	4	15	Actual	Cultural	578960.73	3751696.65	578960.83	3751696.56	-0.0973	0.092
8/1/07 1:01 PM	1126	89-16-1126		33	30	0	0	No Contact	5	0	Actual	No Contacts	578936.00	3751697.52	578935.88	3751697.47	0.12	0.05
6/21/07 2:25 PM	1127	90-17-1127		44	50	45	180	Seeds	12	45	Actual	Seed Item	579004.97	3751703.43	579004.91	3751703.46	0.056	-0.031
6/21/07 2:16 PM	1128	89-17-1128		8	5	0	140	Frag	5	12	Actual	MD	578982.56	3751704.37	578982.60	3751704.36	-0.0347	0.007
6/20/07 2:48 PM	1129	88-17-1129		79	0	0	120	Frag	14	17	Actual	MD	578820.32	3751706.35	578820.31	3751706.42	0.0113	-0.066
6/21/07 2:10 PM	1130	89-17-1130		28	5	-90	0	Scrap Metal	18	30	Actual	Survey Point	578957.46	3751709.55	578957.36	3751709.46	0.0923	0.096
6/21/07 2:18 PM	1131	89-17-1131		46	32	-90	90	Halfshell	13	30	Actual	MD	578995.19	3751713.65	578994.92	3751713.73	0.2735	-0.08
6/21/07 2:30 PM	1132	90-17-1132		13	2	0	0	Nose Frag	3	7	Actual	MD	579004.82	3751720.33	579004.83	3751720.35	-0.0083	-0.027
6/21/07 2:29 PM	1133	90-17-1133		12	3	0	50	Halfshell	7	30	Actual	MD	579017.77	3751721.68	579017.72	3751721.63	0.0573	0.048
6/21/07 2:38 PM	1134	89-17-1134		39	33	-90	0	Baseplate	6	15	Actual	MD	578971.63	3751737.72	578971.60	3751737.79	0.0293	-0.074
6/21/07 2:08 PM	1135	89-17-1135		12	5	0	30	Halfshell	8	30	Actual	MD	578932.32	3751740.93	578932.32	3751740.88	-0.0053	0.057
6/25/07 2:27 PM	1136	90-15-1136		65	50	-45	40	Baseplate	7	11	Actual	MD	579067.28	3751527.53	579067.23	3751527.56	0.0487	-0.027
6/25/07 12:21 PM	1137	84-14-1137		15	3	0	90	Nose Frag	3	7	Actual	MD	579061.45	3751530.04	579061.50	3751530.02	-0.0457	0.027
6/25/07 2:11 PM	1138	90-15-1138		25	37	-90	100	Halfshell	5	30	Actual	MD	579056.58	3751540.75	579056.76	3751540.98	-0.178	-0.226
6/25/07 3:14 PM	1139	90-15-1139		22	14	0	60	Baseplate	5	11	Actual	MD	579069.61	3751549.86	579069.66	3751549.87	-0.043	-0.007
6/25/07 12:08 PM	1140	84-14-1140		4	4	0	0	Nose Frag	1	7	Actual	MD	579029.38	3751552.47	579029.20	3751552.56	0.1793	-0.089
6/25/07 11:57 AM	1141	90-15-1141		10	0	0	180	Baseplate	5	11	Actual	MD	579039.13	3751556.54	579039.24	3751556.33	-0.1123	0.204
6/25/07 3:20 PM	1142	90-15-1142		17	5	-90	160	Baseplate	5	11	Actual	MD	579055.09	3751557.48	579055.15	3751557.44	-0.0615	0.042
6/25/07 12:05 PM	1143	90-15-1143		34	28	-90	30	Halfshell	15	30	Actual	MD	579029.02	3751563.89	579029.09	3751563.82	-0.0753	0.071
6/25/07 11:48 AM	1144	90-15-1144		29	38	45	160	Baseplate	6	12	Actual	MD	579035.87	3751570.32	579035.88	3751570.29	-0.0033	0.027
6/25/07 12:33 PM	1145	90-15-1145		7	0	0	0	Baseplate	4	11	Actual	MD	579007.12	3751587.50	579007.15	3751587.37	-0.0243	0.134
6/25/07 11:45 AM	1146	90-15-1146		8	4	-45	170	Baseplate	5	11	Actual	MD	579044.70	3751593.49	579044.67	3751593.48	0.0277	0.006
6/25/07 12:30 PM	1147	84-14-1147		8	9	0	300	Frag	3	12	Actual	MD	579011.73	3751595.17	579011.80	3751595.11	-0.068	0.062
6/21/07 2:58 PM	1148	90-16-1148		17	8	8	90	Frag	3	10	Actual	MD	579011.28	3751597.41	579011.19	3751597.34	0.0887	0.064
6/21/07 2:54 PM	1149	90-16-1149		7	8	0	120	Frag	3	14	Actual	MD	579025.09	3751601.78	579025.06	3751601.76	0.0287	0.019
6/21/07 2:49 PM	1150	90-16-1150		3	5	0	0	Nose Frag	2	7	Actual	MD	579010.73	3751605.79	579010.76	3751605.77	-0.0233	0.017
6/25/07 11:41 AM	1151	90-16-1151		8	4	0	170	Nose Frag	3	7	Actual	MD	579039.39	3751610.75	579039.25	3751610.67	0.1365	0.082
6/25/07 11:37 AM	1152	90-16-1152		23	11	0	60	Nose Frag	2	7	Actual	MD	579042.66	3751612.01	579042.56	3751612.07	0.0983	-0.059
6/25/07 11:20 AM	1153	90-16-1153		6	2	0	270	Nose Frag	2	7	Actual	MD	579043.84	3751614.14	579043.80	3751614.14	0.0337	0.003
6/25/07 11:12 AM	1154	90-16-1154		11	5	0	180	Nose Frag	3	7	Actual	MD	579035.59	3751630.00	579035.62	3751630.02	-0.03	-0.023
6/25/07 11:55 AM	1155	90-15-1155		4	1	0	0	Nose Frag	2	7	Actual	MD	579037.63	3751563.68	579037.33	3751563.33	0.3075	0.345
8/1/07 12:15 PM	1156	90-16-1156		133				Seeds	35		Actual	Seed Item	579034.49	3751631.42	579034.15	3751631.30	0.34	0.12
7/18/07 9:09 AM	1157	84-14-1157		71.4	45	-45	350	Frag	9.5	12	Actual	MD	578428.60	3751478.48	578428.57	3751478.47	0.026	0.004
7/17/07 2:41 PM	1158	84-14-1158		22.6	10	0	150	Halfshell	6.9	30	Actual	MD	578449.49	3751478.37	578449.58	3751478.46	-0.089	-0.086
7/11/07 2:37 PM	1159	83-14-1159		21.3	59	0	0	Soils	2	0	Actual	Soils	578315.92	3751478.82	578315.88	3751479.04	0.04	-0.214
7/16/07 10:45 AM	1160	83-14-1160		76.9	106	0	0	Soils	5.6	0	Actual	Soils	578361.07	3751479.48	578361.29	3751479.63	-0.214	-0.151

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

			Mag-N Flag ID	(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID						Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/17/07 2:40 PM	1161	84-14-1161		8.5	5	0	220	Frag	2.4	9	Actual	MD	578453.08	3751479.41	578453.20	3751479.50	-0.118	-0.085
7/17/07 3:17 PM	1162	84-14-1162		19.9	4	0	160	Frag	1.7	9	Actual	MD	578413.18	3751479.92	578413.00	3751479.69	0.18	0.229
7/19/07 10:48 AM	1163	84-14-1163		37.8	143	0	0	Soils	8.8	0	Actual	Soils	578473.59	3751480.25	578473.45	3751480.36	0.14	-0.116
7/17/07 2:39 PM	1164	84-14-1164		40.4	70	0	0	Soils	3	0	Actual	Soils	578457.91	3751480.89	578458.20	3751480.90	-0.284	-0.011
7/11/07 2:23 PM	1165	84-14-1165		2.2	8	0	190	Scrap Metal	1.6	14	Actual	Cultural	578322.02	3751481.38	578321.92	3751481.35	0.098	0.027
7/18/07 8:54 AM	1166	84-14-1166		9.5	7	0	350	Scrap Metal	2.4	12	Actual	Cultural	578400.96	3751481.96	578400.83	3751481.88	0.136	0.08
7/18/07 9:02 AM	1167	84-14-1167		61.9	40	0	0	Baseplate	4.6	12	Actual	MD	578418.57	3751481.99	578418.59	3751481.64	-0.018	0.35
7/18/07 9:28 AM	1168	84-14-1168		85.3	5	0	140	Frag	5	7	Actual	MD	578444.02	3751481.55	578443.77	3751481.77	0.255	-0.223
7/18/07 8:39 AM	1169	83-14-1169		35.3	25	0	170	Baseplate	4.4	12	Actual	MD	578372.30	3751482.38	578372.33	3751482.18	-0.027	0.2
6/27/07 10:04 AM	1170	83-14-1170		---	7	-90	340	Frag	---	11	Actual	MD	578377.50	3751482.50	578377.58	3751482.61	-0.082	-0.114
7/18/07 8:50 AM	1171	83-14-1171		40.1	10	20	180	Seeds	10.1	45	Actual	Seed Item	578395.50	3751482.98	578395.45	3751482.74	0.049	0.24
6/25/07 4:05 PM	1172	88-16-1172		21	2	0	0	Nose Frag	3	7	Actual	MD	578811.49	3751693.81	578811.28	3751693.81	0.207	-0.003
6/25/07 3:56 PM	1173	84-15-1173		53	40	0	210	Baseplate	5	13	Actual	MD	578824.69	3751653.41	578824.36	3751653.46	0.332	-0.052
6/25/07 1:58 PM	1174	90-15-1174		48	78	0	0	Soils	2	0	Actual	Soils	579030.69	3751544.21	579030.80	3751543.98	-0.107	0.227
6/25/07 1:53 PM	1175	90-15-1175		40	70	0	0	Soils	2	0	Actual	Soils	579018.69	3751561.01	579018.90	3751560.86	-0.212	0.149
6/25/07 3:29 PM	1176	84-15-1176		-286	30	0	0	No Contact	52	0	Actual	No Contacts	579042.69	3751519.21	579042.68	3751519.28	0.008	-0.066
6/25/07 2:18 PM	1177	90-15-1177		113	143	0	0	Soils	33	0	Actual	Soils	579057.29	3751534.01	579057.16	3751534.63	0.135	-0.621
6/25/07 11:15 AM	1178	90-16-1178		16	10	0	0	Rock	2	2	Actual	Rock	579029.69	3751624.81	579029.70	3751624.65	-0.006	0.161
7/26/07 10:53 AM	1179	82-13-1179		4430	30	-90	0	Soils	86.5	45	Actual	Soils	578279.69	3751350.41	578279.74	3751350.10	-0.048	0.307
7/26/07 10:25 AM	1180	82-13-1180		69.5	99	0	0	Soils	3.5	0	Actual	Soils	578259.89	3751388.61	578259.91	3751388.76	-0.02	-0.15
7/24/07 12:28 PM	1181	82-13-1181		316	4	0	0	Rock	38.7	3	Actual	Rock	578252.09	3751388.21	578251.91	3751388.08	0.184	0.133
7/25/07 8:53 AM	1182	82-14-1182		21	15	0	270	Halfshell	7.3	30	Actual	MD	578271.29	3751468.41	578271.22	3751468.29	0.067	0.121
7/25/07 8:49 AM	1183	82-14-1183		34.8	2	0	350	Frag	3.7	14	Actual	MD	578294.49	3751474.21	578294.46	3751474.19	0.028	0.019
7/24/07 12:33 PM	1184	82-14-1184		87.1	3	0	0	Rock	7.8	2	Actual	Rock	578256.89	3751401.41	578257.03	3751401.28	-0.139	0.133
7/24/07 12:31 PM	1185	82-14-1185		124.2	6	0	0	Rock	7.4	2	Actual	Rock	578253.69	3751405.61	578253.48	3751405.76	0.213	-0.154
7/11/07 11:45 AM	1186	89-17-1186		22	7	0	0	Rock	3	3	Actual	Rock	578316.89	3751392.41	578316.66	3751392.33	0.232	0.08
7/10/07 11:13 AM	1187	83-13-1187		6854	5	0	0	Rock	81	2	Actual	Rock	578317.89	3751383.41	578317.68	3751383.73	0.212	-0.324
7/10/07 11:19 AM	1188	83-13-1188		31.8	2	0	0	Rock	1.7	2	Actual	Rock	578344.09	3751360.61	578344.03	3751360.12	0.063	0.492
7/10/07 11:22 AM	1189	83-13-1189		71.2	1	0	0	Rock	4	3	Actual	Rock	578357.89	3751366.21	578358.42	3751366.01	-0.533	0.199
7/12/07 12:00 PM	1190	83-13-1190		36	60	0	0	Soils	2.9	0	Actual	Soils	578365.69	3751371.01	578365.37	3751371.04	0.322	-0.029
7/16/07 2:22 PM	1191	89-17-1191		117	147	0	0	Soils	7.7	0	Actual	Soils	578383.89	3751398.61	578383.79	3751397.89	0.103	0.717
7/10/07 3:14 PM	1192	83-13-1192		100	10	0	0	Rock	5.8	3	Actual	Rock	578398.49	3751365.61	578398.49	3751365.61	0.003	-0.004
7/10/07 3:05 PM	1193	83-13-1193		-1590000	35	0	0	Rock	5233	3	Actual	Rock	578394.29	3751356.01	578394.33	3751356.02	-0.035	-0.012
7/16/07 2:53 PM	1194	83-13-1194		-4170	71	0	0	Soils	94.4	0	Actual	Soils	578376.89	3751380.61	578377.38	3751380.52	-0.494	0.094
7/10/07 10:09 AM	1195	83-13-1195		55.3	3	0	0	Rock	18.1	2	Actual	Rock	578380.49	3751361.01	578380.06	3751361.27	0.429	-0.255
7/10/07 10:18 AM	1196	83-13-1196		-56811	4	0	0	Rock	67.9	3	Actual	Rock	578374.89	3751353.41	578374.72	3751353.12	0.174	0.293
7/10/07 2:49 PM	1197	83-13-1197		71.3	2	0	0	Rock	4.7	2	Actual	Rock	578355.29	3751357.01	578355.40	3751357.15	-0.105	-0.138
7/10/07 11:16 AM	1198	83-13-1198		53.3	3	0	0	Rock	2.9	2	Actual	Rock	578332.69	3751359.21	578332.73	3751359.25	-0.035	-0.042
7/10/07 11:15 AM	1199	83-13-1199		99	4	0	0	Rock	26	3	Actual	Rock	578330.29	3751362.21	578330.26	3751362.29	0.033	-0.079
7/10/07 11:24 AM	1200	83-13-1200		114.3	5	0	0	Rock	13.4	2	Actual	Rock	578322.89	3751361.61	578322.98	3751361.63	-0.085	-0.018
7/10/07 11:27 AM	1201	83-13-1201		55	2	0	0	Rock	3.3	2	Actual	Rock	578311.09	3751357.81	578311.16	3751357.73	-0.071	0.081
7/10/07 2:26 PM	1202	83-13-1202		97.4	4	0	0	Rock	6.3	3	Actual	Rock	578304.69	3751356.61	578304.62	3751356.57	0.074	0.037
7/16/07 10:16 AM	1203	83-14-1203		78.8	108	0	0	Soils	6.5	0	Actual	Soils	578349.29	3751452.21	578348.54	3751452.77	0.751	-0.557
7/11/07 2:25 PM	1204	83-14-1204		31	7	0	260	Scrap Metal	3.5	14	Actual	Cultural	578333.89	3751485.21	578333.61	3751485.11	0.282	0.098
7/11/07 2:26 PM	1205	83-14-1205		36	5	0	340	Scrap Metal	8.9	60	Actual	Cultural	578338.69	3751485.81	578338.76	3751486.14	-0.073	-0.33

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification				Dig Type						
7/17/07 12:03 PM	1206	83-14-1206		53	83	0	0	Soils	3.4	0	Actual	Soils	578384.49	3751459.61	578384.50	3751459.57	-0.01	0.038
7/17/07 11:15 AM	1207	83-14-1207		27	57	0	0	Soils	2.1	0	Actual	Soils	578396.29	3751432.21	578396.19	3751432.39	0.098	-0.18
7/24/07 11:40 AM	1208	83-14-1208		22	52	0	0	Soils	2.1	0	Actual	Soils	578376.29	3751421.21	578376.50	3751420.71	-0.211	0.496
7/16/07 11:05 AM	1209	83-14-1209		78.3	108	0	0	Soils	4	0	Actual	Soils	578372.09	3751451.01	578371.75	3751451.24	0.343	-0.23
7/16/07 9:54 AM	1210	83-14-1210		136	1	0	60	Nail	7.8	15	Actual	Cultural	578350.09	3751432.61	578350.33	3751432.63	-0.235	-0.02
7/17/07 8:56 AM	1211	84-13-1211		105	3	0	0	Rock	25.5	3	Actual	Rock	578411.89	3751374.61	578411.88	3751374.70	0.008	-0.086
7/10/07 3:12 PM	1212	84-13-1212		39	8	0	0	Rock	1.9	3	Actual	Rock	578403.69	3751364.21	578403.66	3751364.40	0.035	-0.194
7/10/07 9:39 AM	1213	84-13-1213		7.4	7	300	-60	Scrap Metal	3.2	12	Actual	Cultural	578407.89	3751358.21	578407.87	3751358.44	0.023	-0.232
7/23/07 10:16 AM	1214	84-13-1214		29	5	0	0	Rock	2.9	1	Actual	Rock	578474.29	3751381.61	578474.39	3751381.92	-0.102	-0.311
7/23/07 10:56 AM	1215	84-13-1215		50	35	0	0	Soils	3.2	0	Actual	Soils	578491.09	3751380.81	578490.78	3751380.88	0.308	-0.074
7/23/07 10:13 AM	1216	84-13-1216		113	4	0	110	Scrap Metal	6.1	7	Actual	Cultural	578496.49	3751386.61	578496.43	3751386.87	0.058	-0.259
7/19/07 8:58 AM	1217	84-14-1217		36.7	2	0	0	Rock	1.7	2	Actual	Rock	578482.89	3751400.21	578482.72	3751400.03	0.174	0.18
7/24/07 9:15 AM	1218	84-13-1218		54	84	0	0	Soils	12.8	0	Actual	Soils	578453.49	3751399.21	578453.34	3751399.05	0.148	0.159
7/19/07 9:35 AM	1219	84-13-1219		22	6	-90	90	Scrap Metal	2.6	6	Actual	Cultural	578441.69	3751387.61	578441.61	3751387.20	0.082	0.41
7/19/07 9:36 AM	1220	84-13-1220		47.1	0	0	0	Rock	5.1	2	Actual	Rock	578439.69	3751387.41	578439.27	3751387.35	0.422	0.063
7/12/07 11:34 AM	1221	84-13-1221		68.8	60	0	0	Rock	9.1	4	Actual	Rock	578402.09	3751381.41	578401.52	3751381.11	0.569	0.301
7/17/07 8:58 AM	1222	84-13-1222		25	5	0	0	Rock	3.4	2	Actual	Rock	578411.29	3751383.41	578411.23	3751383.40	0.059	0.014
7/17/07 10:15 AM	1223	84-13-1223		52.3	4	0	0	Rock	2.4	2	Actual	Rock	578414.29	3751384.41	578414.37	3751384.27	-0.082	0.137
7/17/07 10:15 AM	1224	84-13-1224		56	0	0	0	Rock	4.1	2	Actual	Rock	578417.09	3751385.21	578416.94	3751385.14	0.146	0.071
7/19/07 10:31 AM	1225	84-14-1225		126.8	146	0	0	Soils	6	0	Actual	Soils	578493.09	3751487.21	578492.98	3751487.32	0.113	-0.106
7/18/07 3:23 PM	1226	84-14-1226		53.1	83	0	0	Soils	2.7	0	Actual	Soils	578469.49	3751483.81	578469.57	3751483.82	-0.08	-0.014
7/24/07 10:50 AM	1227	84-14-1227		55.6	85	0	0	Soils	3	0	Actual	Soils	578463.89	3751494.21	578464.14	3751494.39	-0.253	-0.175
7/24/07 10:59 AM	1228	84-14-1228		129.7	159	0	0	Soils	6.3	0	Actual	Soils	578459.09	3751494.01	578459.37	3751494.15	-0.276	-0.139
7/18/07 9:26 AM	1229	84-14-1229		50.5	7	-90	120	Scrap Metal	2.3	9	Actual	MD	578437.29	3751485.61	578437.44	3751486.02	-0.153	-0.413
7/18/07 2:24 PM	1230	84-14-1230		162	192	0	0	Soils	12.2	0	Actual	Soils	578441.49	3751443.41	578441.45	3751443.49	0.043	-0.078
7/18/07 3:10 PM	1231	84-14-1231		26	56	0	0	Soils	5.2	0	Actual	Soils	578461.09	3751445.41	578461.09	3751445.51	-0.001	-0.102
7/17/07 11:38 AM	1232	84-14-1232		115	145	0	0	Soils	6.6	0	Actual	Soils	578413.69	3751439.61	578413.94	3751439.53	-0.245	0.082
7/24/07 10:35 AM	1233	84-14-1233		55	74	0	0	Soils	4.2	0	Actual	Soils	578422.69	3751405.01	578422.51	3751405.30	0.179	-0.29
7/23/07 12:05 PM	1234	84-14-1234		44.2	74	0	0	Soils	2.2	0	Actual	Soils	578484.89	3751406.21	578484.37	3751405.73	0.521	0.485
7/19/07 9:16 AM	1235	84-14-1235		39.6	10	0	0	Rock	12	1	Actual	Rock	578473.09	3751428.01	578473.19	3751427.86	-0.104	0.153
7/23/07 12:01 PM	1236	84-14-1236		26	56	0	0	Soils	2.6	0	Actual	Soils	578499.29	3751415.81	578498.61	3751416.10	0.682	-0.289
7/19/07 10:58 AM	1237	84-14-1237		79	109	0	0	Soils	5.5	0	Actual	Soils	578481.49	3751461.41	578481.39	3751461.14	0.105	0.266
7/19/07 8:30 AM	1238	84-14-1238		101	3	0	0	Rock	6	2	Actual	Rock	578478.49	3751466.01	578478.29	3751466.14	0.202	-0.125
7/19/07 10:56 AM	1239	84-14-1239		16	46	0	0	Soils	1.6	0	Actual	Soils	578476.49	3751466.01	578476.59	3751466.18	-0.101	-0.173
7/19/07 10:52 AM	1240	84-14-1240		69.9	99	0	0	Soils	3.4	0	Actual	Soils	578472.49	3751470.21	578472.41	3751470.50	0.083	-0.286
7/19/07 11:10 AM	1241	84-14-1241		41	71	0	0	Soils	3	0	Actual	Soils	578497.49	3751469.21	578497.35	3751469.47	0.141	-0.258
7/19/07 11:07 AM	1242	84-14-1242		102.1	132	0	0	Soils	5.3	0	Actual	Soils	578491.49	3751474.21	578491.55	3751473.93	-0.061	0.281
7/19/07 11:04 AM	1243	84-14-1243		53.2	83	0	0	Soils	3	0	Actual	Soils	578489.49	3751474.01	578489.53	3751474.01	-0.044	0
7/19/07 10:41 AM	1244	84-14-1244		58.8	115	0	0	Soils	4.1	0	Actual	Soils	578488.09	3751480.41	578488.23	3751480.53	-0.143	-0.118
7/25/07 8:05 AM	1245	84-15-1245		56	1	0	0	Rock	3.8	1	Actual	Rock	578491.89	3751501.01	578492.36	3751500.68	-0.468	0.33
7/25/07 8:27 AM	1246	84-15-1246		28	0	-90	0	Corner Stake	4.3	20	Actual	Cultural	578472.09	3751508.61	578472.14	3751508.60	-0.046	0.014
7/18/07 9:21 AM	1247	84-14-1247		30.2	32	-45	260	Baseplate	3.2	12	Actual	MD	578438.59	3751483.02	578438.60	3751482.99	-0.015	0.028
7/18/07 8:44 AM	1248	83-14-1248		15	5	-90	0	Baseplate	4.1	12	Actual	MD	578381.78	3751483.97	578381.88	3751483.83	-0.095	0.138
7/18/07 9:01 AM	1249	84-14-1249		2.4	7	0	140	Frag	1.4	12	Actual	MD	578406.65	3751483.77	578406.61	3751483.67	0.047	0.105
7/18/07 3:00 PM	1250	84-14-1250		56.6	86	0	0	Soils	2.2	0	Actual	Soils	578455.80	3751483.87	578455.94	3751483.76	-0.146	0.11

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/18/07 8:42 AM	1251	83-14-1251		12.2	2	0	20	Halfshell	6.6	30	Actual	MD	578379.45	3751484.30	578379.42	3751484.18	0.029	0.119
7/18/07 2:47 PM	1252	84-14-1252		23	53	0	0	Soils	3.1	0	Actual	Soils	578420.38	3751484.41	578420.38	3751484.55	0.004	-0.141
7/19/07 8:20 AM	1253	84-14-1253		-1.4	12	0	0	Nose Frag	1.3	7	Actual	MD	578477.63	3751484.59	578477.57	3751484.60	0.059	-0.011
7/18/07 8:45 AM	1254	83-14-1254		12.9	28	45	80	Baseplate	2.7	12	Actual	MD	578384.11	3751485.00	578384.10	3751484.94	0.002	0.058
7/19/07 10:38 AM	1255	84-14-1255		21.5	51	0	0	Soils	1.9	0	Actual	Soils	578483.62	3751484.78	578483.55	3751485.12	0.07	-0.338
6/27/07 1:08 PM	1256	83-14-1256		36.2	75	0	0	Soils	2.4	0	Actual	Soils	578370.55	3751485.95	578370.65	3751486.18	-0.101	-0.226
7/18/07 2:51 PM	1257	84-14-1257		84.7	114	0	0	Soils	3.1	0	Actual	Soils	578426.58	3751486.44	578426.63	3751486.64	-0.044	-0.199
7/17/07 3:16 PM	1258	84-14-1258		66.3	60	-80	270	Seeds	9.2	45	Actual	Seed Item	578429.02	3751486.65	578429.23	3751486.67	-0.215	-0.021
7/19/07 10:35 AM	1259	84-14-1259		3.6	66	0	0	Soils	1.2	0	Actual	Soils	578489.54	3751486.83	578489.62	3751487.03	-0.079	-0.2
7/16/07 8:49 AM	1260	83-14-1260		20.4	10	-45	90	Baseplate	3.9	12	Actual	MD	578357.34	3751486.92	578357.23	3751487.00	0.108	-0.079
7/18/07 8:51 AM	1261	83-14-1261		76.6	15	-45	100	Nose Frag	3.8	7	Actual	MD	578396.91	3751487.54	578396.52	3751487.13	0.386	0.414
7/18/07 2:54 PM	1262	84-14-1262		Inf	30	0	0	Soils	Inf	0	Actual	Soils	578431.50	3751487.50	578431.61	3751487.54	-0.106	-0.038
7/18/07 9:27 AM	1263	84-14-1263		19.7	10	-30	190	Halfshell	6.8	30	Actual	MD	578440.43	3751487.26	578440.44	3751487.11	-0.016	0.155
7/19/07 10:45 AM	1264	84-14-1264		40.7	30	45	200	Seeds	8.8	45	Actual	Seed Item	578472.87	3751487.44	578472.92	3751487.41	-0.058	0.029
6/27/07 10:09 AM	1265	83-14-1265		18.3	12	-90	10	Scrap Metal	3.1	10	Actual	Cultural	578381.07	3751488.40	578381.05	3751488.11	0.019	0.293
7/19/07 10:28 AM	1266	84-14-1266		27.6	57	0	0	Soils	2.4	0	Actual	Soils	578494.43	3751488.69	578494.01	3751488.79	0.417	-0.096
7/16/07 8:47 AM	1267	83-14-1267		12.1	0	-90	0	Scrap Metal	2.5	15	Actual	Cultural	578349.90	3751488.96	578350.03	3751489.03	-0.134	-0.071
6/27/07 10:12 AM	1268	83-14-1268		-1.5	20	0	40	Scrap Metal	1.3	14	Actual	Cultural	578385.42	3751489.05	578385.43	3751489.00	-0.008	0.052
6/27/07 1:14 PM	1269	83-14-1269		33.1	48	0	0	Soils	4.2	0	Actual	Soils	578390.66	3751489.22	578390.99	3751489.02	-0.332	0.205
7/24/07 8:31 AM	1270	84-14-1270		127.3	4	0	90	Scrap Metal	16.9	6	Actual	Cultural	578437.11	3751489.70	578437.59	3751489.97	-0.485	-0.269
7/18/07 9:29 AM	1271	84-14-1271		3.8	5	0	90	Scrap Metal	1.9	12	Actual	Cultural	578447.45	3751488.61	578447.11	3751488.50	0.337	0.115
7/24/07 9:00 AM	1272	83-14-1272		25.9	6	0	280	Halfshell	7.1	30	Actual	MD	578362.61	3751490.04	578362.64	3751489.92	-0.031	0.12
7/24/07 8:57 AM	1273	83-14-1273		19.7	5	0	100	Halfshell	7.2	30	Actual	MD	578399.82	3751490.15	578399.76	3751490.24	0.055	-0.092
7/25/07 8:26 AM	1274	84-14-1274		7.8	0	-90	0	Corner Stake	7.5	20	Actual	Cultural	578487.11	3751490.56	578487.04	3751490.73	0.067	-0.171
7/24/07 11:19 AM	1275	84-14-1275		79.3	60	-45	350	Seeds	10.1	45	Actual	Seed Item	578409.27	3751490.83	578409.46	3751490.54	-0.193	0.288
7/23/07 3:57 PM	1276	84-14-1276		28.6	3	0	270	Scrap Metal	2.9	8	Actual	Cultural	578463.31	3751490.29	578463.38	3751490.35	-0.067	-0.051
7/18/07 2:56 PM	1277	84-14-1277		257.8	100	0	0	Soils	15.4	0	Actual	Soils	578437.42	3751481.07	578437.44	3751481.09	-0.022	-0.018
7/24/07 8:30 AM	1278	84-14-1278		25.1	4	0	190	Scrap Metal	2.4	7	Actual	Cultural	578446.38	3751491.40	578445.98	3751491.46	0.397	-0.063
6/27/07 10:11 AM	1279	83-14-1279		4.3	8	0	330	Frag	1.2	15	Actual	MD	578382.41	3751491.54	578382.52	3751491.63	-0.113	-0.087
7/24/07 11:09 AM	1280	84-14-1280		79.2	40	-90	0	Scrap Metal	14.3	40	Actual	Cultural	578440.37	3751490.79	578440.72	3751491.43	-0.349	-0.638
6/27/07 1:15 PM	1281	83-14-1281		31.6	40	-90	20	Halfshell	38.7	30	Actual	MD	578391.62	3751492.45	578391.67	3751492.60	-0.052	-0.157
7/24/07 8:54 AM	1282	83-14-1282		79	2	0	0	Rock	4.3	2	Actual	Rock	578394.80	3751492.67	578394.52	3751492.57	0.283	0.102
7/24/07 8:55 AM	1283	83-14-1283		30	7	0	140	Frag	2.9	14	Actual	MD	578389.90	3751493.76	578390.14	3751493.81	-0.247	-0.05
7/24/07 8:44 AM	1284	84-14-1284		51.2	4	0	0	Rock	4	2	Actual	Rock	578439.46	3751493.26	578439.18	3751493.42	0.281	-0.167
7/24/07 11:05 AM	1285	84-14-1285		14.4	49	0	0	Soils	2.1	0	Actual	Soils	578451.13	3751493.95	578450.96	3751493.92	0.174	0.039
7/23/07 4:15 PM	1286	84-14-1286		12.1	2	0	140	Scrap Metal	3.1	12	Actual	Cultural	578444.99	3751494.45	578445.06	3751494.38	-0.072	0.073
7/25/07 8:22 AM	1287	84-14-1287		27.4	20	0	0	Rock	2.9	2	Actual	Rock	578488.98	3751494.32	578489.20	3751494.36	-0.22	-0.046
7/24/07 11:33 AM	1288	83-14-1288		13.6	43	0	0	Soils	1.8	0	Actual	Soils	578371.46	3751495.32	578371.10	3751494.96	0.353	0.364
7/23/07 3:59 PM	1289	84-14-1289		35.7	20	0	310	Scrap Metal	3.7	15	Actual	Cultural	578457.93	3751495.87	578457.97	3751495.82	-0.039	0.048
7/26/07 11:51 AM	1290	84-14-1290		81.3	111	0	0	Soils	4.9	0	Actual	Soils	578487.52	3751495.76	578487.52	3751495.60	-0.003	0.157
7/24/07 11:30 AM	1291	83-14-1291		60.9	40	90	0	Seeds	9.6	45	Approximate	Seed Item	578395.43	3751496.95	578395.65	3751496.97	-0.217	-0.015
7/24/07 8:49 AM	1292	84-14-1292		15.7	0	-45	300	Baseplate	3.8	12	Actual	MD	578428.53	3751498.69	578428.56	3751498.75	-0.039	-0.052
7/24/07 8:47 AM	1293	84-14-1293		12.8	10	30	90	Halfshell	6.3	30	Actual	MD	578431.09	3751498.28	578431.08	3751498.28	0.01	-0.006
7/24/07 8:46 AM	1294	84-14-1294		5.9	5	0	0	Scrap Metal	1.4	6	Actual	Cultural	578434.73	3751497.79	578434.86	3751497.99	-0.13	-0.199
7/23/07 4:12 PM	1295	84-14-1295		27.7	3	0	300	Frag	2.3	8	Actual	MD	578450.42	3751498.30	578450.06	3751498.41	0.356	-0.119

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted Easting	Predicted Northing	Measured Easting	Measured Northing	Δ Easting	Δ Northing
7/26/07 12:03 PM	1295	84-14-1295		27.7	57	0	0	Soils	2.3	0	Actual	Soils	578450.42	3751498.30	578450.07	3751497.82	0.35	0.471
7/25/07 8:25 AM	1296	84-14-1296		21.1	15	0	0	Nose Frag	2.4	7	Actual	MD	578480.16	3751498.36	578480.03	3751498.56	0.135	-0.205
7/24/07 10:58 AM	1297	84-14-1297		36.5	70	0	0	Soils	2.7	0	Actual	Soils	578456.51	3751498.62	578456.27	3751499.33	0.241	-0.707
7/24/07 8:50 AM	1298	84-14-1298		4	5	0	350	Scrap Metal	1.5	8	Actual	Cultural	578402.51	3751499.53	578402.52	3751499.57	-0.007	-0.046
7/24/07 11:23 AM	1299	84-14-1299		-3.1	33	0	0	Soils	1.1	0	Actual	Soils	578408.28	3751499.67	578408.16	3751500.03	0.121	-0.353
7/25/07 8:01 AM	1300	84-14-1300		50.2	10	0	0	Frag	3.5	7	Actual	MD	578493.44	3751499.70	578493.24	3751499.99	0.2	-0.29
7/25/07 8:21 AM	1301	84-15-1301		34.8	10	0	280	Scrap Metal	2.7	11	Actual	Cultural	578487.27	3751500.60	578487.26	3751500.69	0.003	-0.092
7/24/07 10:54 AM	1302	84-15-1302		75.7	40	45	270	Seeds	9.5	45	Approximate	Seed Item	578464.64	3751501.37	578464.75	3751501.47	-0.112	-0.1
7/26/07 11:49 AM	1303	84-15-1303		67.8	97	0	0	Soils	3.6	0	Actual	Soils	578495.16	3751502.11	578495.43	3751502.01	-0.272	0.1
7/25/07 8:39 AM	1304	84-15-1304		16.9	25	-90	270	Frag	2.2	18	Actual	MD	578428.43	3751502.70	578428.53	3751502.63	-0.101	0.064
7/25/07 7:54 AM	1305	84-15-1305		38.9	45	-90	0	Baseplate	4.1	12	Actual	MD	578498.75	3751502.70	578498.86	3751502.30	-0.117	0.394
7/24/07 8:51 AM	1306	84-15-1306		30.1	0	-90	0	Survey Point	3.1	20	Actual	Cultural	578400.01	3751502.92	578399.87	3751502.94	0.144	-0.018
7/24/07 11:26 AM	1307	84-15-1307		21.9	51	0	0	Soils	1.9	0	Actual	Soils	578411.15	3751503.20	578410.92	3751503.25	0.227	-0.05
7/23/07 4:03 PM	1308	84-15-1308		-1.7	5	0	60	Scrap Metal	1.2	9	Actual	Cultural	578456.78	3751503.09	578456.74	3751502.86	0.046	0.236
7/25/07 8:06 AM	1309	84-15-1309		-11.8	7	0	90	Scrap Metal	1	8	Actual	Cultural	578491.93	3751503.12	578491.89	3751503.20	0.04	-0.084
7/23/07 4:11 PM	1310	84-15-1310		12.6	3	0	250	Scrap Metal	3.4	16	Actual	Cultural	578438.88	3751503.26	578438.90	3751503.25	-0.023	0.015
7/25/07 8:38 AM	1311	84-15-1311		13.8	2	0	140	Scrap Metal	1.8	5	Actual	Cultural	578430.94	3751504.49	578431.14	3751504.23	-0.194	0.266
7/25/07 8:38 AM	1312	84-15-1312		18.7	8	0	0	Nose Frag	1.3	7	Actual	MD	578436.06	3751504.95	578436.14	3751505.00	-0.079	-0.048
7/23/07 4:03 PM	1313	84-15-1313		11.9	3	0	110	Scrap Metal	4.2	15	Actual	Cultural	578455.74	3751505.16	578455.81	3751505.22	-0.069	-0.062
7/25/07 8:07 AM	1314	84-15-1314		16.2	5	-45	200	Baseplate	4	12	Actual	MD	578491.10	3751505.34	578491.03	3751505.25	0.078	0.084
7/23/07 4:09 PM	1315	84-15-1315		2.9	0	-45	110	Baseplate	3.3	12	Actual	MD	578441.57	3751505.73	578441.54	3751505.69	0.037	0.031
7/23/07 4:06 PM	1316	84-15-1316		6.7	7	0	80	Scrap Metal	2.5	14	Actual	Cultural	578445.66	3751505.44	578445.66	3751505.44	0.005	0.008
7/25/07 8:19 AM	1317	84-15-1317		1.5	4	0	310	Scrap Metal	1.8	15	Actual	Cultural	578482.00	3751506.10	578482.13	3751506.25	-0.131	-0.146
7/25/07 7:59 AM	1318	84-15-1318		11.3	15	0	0	Nose Frag	2	7	Actual	MD	578499.34	3751505.71	578499.47	3751505.60	-0.134	0.11
7/23/07 4:05 PM	1319	84-15-1319		-1.9	4	0	260	Frag	1.1	12	Actual	MD	578445.07	3751507.83	578445.16	3751507.87	-0.087	-0.038
7/26/07 11:53 AM	1320	84-15-1320		-12.1	42	0	0	Soils	0.9	0	Actual	Soils	578486.48	3751507.67	578486.13	3751507.86	0.353	-0.196
7/25/07 8:41 AM	1321	84-15-1321		36	5	0	0	Rock	2.4	4	Actual	Rock	578428.64	3751508.35	578428.61	3751508.15	0.025	0.204
7/25/07 8:08 AM	1322	84-15-1322		54.5	10	0	160	Halfshell	3.7	10	Actual	MD	578497.59	3751508.83	578498.06	3751509.02	-0.469	-0.19
7/23/07 4:04 PM	1323	84-15-1323		20.6	3	0	0	Nose Frag	2.7	7	Actual	MD	578449.85	3751509.73	578450.18	3751509.72	-0.328	0.007
7/25/07 8:33 AM	1324	84-15-1324		32.4	0	-90	0	Nail	2.9	20	Actual	Cultural	578476.01	3751510.23	578475.63	3751509.98	0.379	0.248
7/25/07 8:30 AM	1325	84-15-1325		121.3	10	0	0	Rock	5.8	1	Actual	Rock	578473.21	3751511.05	578473.11	3751511.07	0.096	-0.017
7/25/07 8:18 AM	1326	84-15-1326		2.1	20	-90	100	Scrap Metal	1.9	15	Actual	Cultural	578489.69	3751513.14	578489.55	3751513.08	0.145	0.057
7/25/07 8:31 AM	1327	84-15-1327		21.6	8	-90	0	Scrap Metal	3.2	10	Actual	Cultural	578468.61	3751513.48	578468.28	3751513.23	0.327	0.252
7/26/07 11:55 AM	1328	84-15-1328		29.3	59	0	0	Soils	2.1	0	Actual	Soils	578477.95	3751515.48	578478.14	3751515.79	-0.185	-0.306
7/26/07 11:54 AM	1329	84-15-1329		111.4	141	0	0	Soils	5.9	0	Actual	Soils	578480.35	3751515.61	578480.26	3751515.89	0.089	-0.286
7/26/07 11:53 AM	1330	84-15-1330		50	35	0	0	Soils	3	0	Actual	Soils	578484.72	3751516.01	578484.41	3751515.80	0.313	0.208
7/25/07 8:11 AM	1331	85-15-1331		21.6	0	-90	0	Corner Stake	3.2	20	Actual	Cultural	578500.25	3751515.91	578500.24	3751515.95	0.009	-0.034
7/25/07 8:13 AM	1332	84-15-1332		8.9	42	0	0	Nose Frag	1.4	7	Actual	MD	578492.44	3751517.71	578492.60	3751517.27	-0.157	0.436
7/25/07 8:15 AM	1333	84-15-1333		9.3	6	0	60	Scrap Metal	1.9	12	Actual	Cultural	578490.66	3751520.00	578490.68	3751519.75	-0.019	0.258
7/25/07 8:16 AM	1334	84-15-1334		14.3	0	-90	0	Corner Stake	2.3	20	Actual	Cultural	578480.95	3751526.12	578480.95	3751525.97	-0.002	0.151
7/16/07 8:30 AM	1335	83-14-1335		31	30	-90	0	Baseplate	4.1	12	Actual	MD	578340.77	3751445.52	578340.80	3751445.65	-0.03	-0.134
7/16/07 9:02 AM	1336	83-14-1336		35.9	15	0	0	Seeds	10	45	Actual	Seed Item	578357.16	3751448.20	578357.20	3751448.35	-0.039	-0.157
7/16/07 8:57 AM	1337	83-14-1337		45.2	30	-90	0	Baseplate	5.3	12	Actual	MD	578354.81	3751455.97	578354.67	3751455.84	0.139	0.135
7/25/07 8:54 AM	1338	82-14-1338		14.3	1	0	140	Frag	3.4	16	Actual	MD	578270.80	3751457.93	578270.70	3751458.04	0.097	-0.109
7/17/07 2:45 PM	1339	84-14-1339		-2.8	5	0	140	Nose Frag	1.4	7	Actual	MD	578453.25	3751463.79	578453.13	3751463.64	0.119	0.153

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Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

TimeStamp	Alias	Anomaly ID	Mag-N Flag ID	(cm)	(cm)	(°)	(°)	Identification	(cm)	(cm)	Actual/ Approx	Dig Type	UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured	Δ Easting	Δ Northing
													Easting	Northing	Easting	Northing		
7/17/07 2:43 PM	1340	84-14-1340		45.9	15	-90	0	Baseplate	4.7	12	Actual	MD	578453.88	3751465.38	578454.11	3751465.54	-0.232	-0.162
7/19/07 8:25 AM	1341	84-14-1341		23.9	6	0	0	Nose Frag	2.5	7	Actual	MD	578479.31	3751474.62	578479.33	3751474.75	-0.023	-0.13
7/19/07 8:23 AM	1342	84-14-1342		14.9	1	-45	130	Baseplate	4.1	12	Actual	MD	578478.65	3751476.41	578478.63	3751476.50	0.023	-0.088
7/18/07 9:31 AM	1343	84-14-1343		25.4	4	-45	180	Baseplate	4.6	12	Actual	MD	578451.53	3751485.87	578451.35	3751485.81	0.184	0.063
8/1/07 12:50 PM	1385	88-17-1385		28.6	50	-45	270	Halfshell	Inf	25	Actual	MD	578896.28	3751737.91	578896.25	3751737.88	0.03	0.03
7/26/07 1:51 PM	1386	89-17-1386		11.9	10	0	60	Scrap Metal	---	9	Actual	Cultural	578951.46	3751756.04	578951.42	3751755.95	0.0436	0.088
7/26/07 1:35 PM	1387	89-17-1387		5.5	3	0	0	Frag	---	4	Actual	MD	578989.78	3751768.74	578989.69	3751768.59	0.0886	0.147
8/1/07 12:42 PM	1388	88-17-1388		3.1	0	0	0	Rock	Inf	2	Actual	Rock	578823.09	3751713.43	578822.89	3751713.44	0.20	-0.01
8/1/07 12:43 PM	1389	88-17-1389		6.5	15	0	0	Scrap Metal	Inf	9	Actual	Cultural	578844.71	3751720.60	578844.54	3751720.63	0.17	-0.03
8/1/07 12:45 PM	1390	88-17-1390		0	4	0	330	Frag	Inf	9	Actual	MD	578858.23	3751725.19	578858.12	3751725.14	0.12	0.05
8/1/07 12:46 PM	1391	88-17-1391		3.1	6	0	90	Halfshell	Inf	45	Actual	MD	578863.07	3751726.71	578863.11	3751726.54	-0.04	0.17
7/26/07 1:37 PM	1392	90-17-1392		6.1	5	0	120	Frag	---	8	Actual	MD	579002.53	3751769.64	579002.51	3751769.71	0.0236	-0.066
8/1/07 12:40 PM	1393	88-17-1393		20.8	30	0	220	Frag	Inf	8	Actual	MD	578807.86	3751703.92	578807.74	3751703.98	0.13	-0.06
8/1/07 12:36 PM	1394	88-17-1394		2.6	7	0	100	Frag	Inf	20	Actual	MD	578805.86	3751702.65	578805.94	3751702.48	-0.08	0.17
8/1/07 12:34 PM	1395	88-16-1395		3.9	5	0	80	Scrap Metal	Inf	7	Actual	Cultural	578806.68	3751698.60	578806.66	3751698.49	0.02	0.11
7/26/07 2:53 PM	1396	88-17-1396		2.4	30	0	80	Scrap Metal	---	8	Actual	Cultural	578897.07	3751727.25	578897.23	3751727.21	-0.1584	0.038
7/26/07 2:54 PM	1397	89-17-1397		2.1	32	0	0	No Contact	---	0	Actual	No Contacts	578927.06	3751736.85	access to re-shot coord.			
7/26/07 12:46 PM	1398	90-17-1398		0.2	38	0	0	No Contact	---	0	Actual	No Contacts	579003.65	3751762.16	579003.85	3751762.22	-0.2044	-0.056
8/1/07 12:48 PM	1399	88-17-1399		0	1	0	0	Rock	Inf	3	Actual	Rock	578866.83	3751717.27	578866.75	3751717.38	0.08	-0.11
7/26/07 1:41 PM	1400	90-17-1400		4.5	3	0	70	Horseshoe	---	13	Actual	Cultural	579007.47	3751761.86	579007.51	3751761.64	-0.0404	0.221
7/26/07 1:49 PM	1401	89-17-1401		5.3	2	0	0	Rock	---	1	Actual	Rock	578972.25	3751748.56	578972.44	3751748.56	-0.1894	-0.002
7/26/07 2:51 PM	1402	89-17-1402		1.3	31	0	0	No Contact	---	0	Actual	No Contacts	578903.56	3751724.28	578903.55	3751724.12	0.0156	0.159
7/26/07 2:49 PM	1403	89-17-1403		0	5	-90	0	Frag	---	7	Actual	MD	578903.35	3751717.71	578903.23	3751717.93	0.1296	-0.217
7/26/07 1:42 PM	1404	89-17-1404		9.9	39	0	0	No Contact	---	0	Actual	No Contacts	578998.80	3751745.20	578998.74	3751745.25	0.0606	-0.048
7/26/07 1:46 PM	1405	89-17-1405		0	20	-90	0	Frag	---	10	Actual	MD	578983.90	3751740.13	578984.03	3751740.05	-0.1244	0.088
7/26/07 2:47 PM	1406	88-16-1406		0.4	30	30	30	No Contact	---	0	Actual	No Contacts	578884.25	3751697.63	578884.29	3751697.77	-0.0424	-0.132
7/26/07 2:44 PM	1407	88-16-1407		3	3	0	140	Halfshell	---	30	Actual	MD	578815.87	3751673.69	578815.91	3751673.48	-0.0334	0.207
7/26/07 2:30 PM	1408	88-16-1408		1.8	22	-90	180	Frag	---	6	Actual	MD	578882.38	3751688.95	578882.41	3751688.86	-0.0294	0.092
7/26/07 1:53 PM	1409	90-17-1409		0	30	0	0	No Contact	---	0	Actual	No Contacts	579019.76	3751732.83	579019.56	3751732.55	0.1926	0.275
7/26/07 2:33 PM	1410	88-16-1410		0.3	10	-90	0	Bolt	---	9	Actual	Cultural	578873.97	3751680.12	578873.74	3751680.10	0.2286	0.018
7/26/07 2:42 PM	1411	88-16-1411		0	30	0	0	No Contact	---	0	Actual	No Contacts	578821.38	3751659.36	578821.14	3751659.44	0.2409	-0.072
7/26/07 1:55 PM	1412	90-17-1412		2.9	0	0	90	Halfshell	---	30	Actual	MD	579024.97	3751725.73	579025.06	3751725.60	-0.0944	0.132
7/26/07 1:56 PM	1413	90-17-1413		0	30	0	0	No Contact	---	0	Actual	No Contacts	579019.48	3751719.51	579019.46	3751719.54	0.0167	-0.031
7/26/07 2:28 PM	1414	89-16-1414		2.2	32	0	0	No Contact	---	0	Actual	No Contacts	578906.07	3751682.31	578906.24	3751682.27	-0.1704	0.039
7/26/07 2:34 PM	1415	88-16-1415		0	3	-90	0	Scrap Metal	---	6	Actual	Cultural	578879.91	3751669.33	578879.90	3751669.23	0.0126	0.101
7/26/07 1:58 PM	1416	90-17-1416		0	5	-90	0	Scrap Metal	---	9	Actual	Cultural	579027.68	3751715.36	579028.10	3751715.55	-0.4144	-0.189
7/26/07 2:01 PM	1417	90-17-1417		1.6	4	-90	0	Frag	---	3	Actual	MD	579001.88	3751702.23	579002.15	3751701.95	-0.2744	0.281
7/26/07 2:00 PM	1418	90-17-1418		1.1	5	0	120	Halfshell	---	4	Actual	MD	579014.05	3751705.46	579013.97	3751705.41	0.0826	0.048
8/1/07 12:25 PM	1419	88-16-1419		11.2	41	0	0	No Contact	Inf	0	Actual	No Contacts	578894.03	3751665.58	578894.03	3751665.56	0.01	0.02
7/26/07 2:37 PM	1420	88-16-1420		0	15	0	190	Scrap Metal	---	6	Actual	Cultural	578872.89	3751654.78	578872.48	3751654.71	0.4094	0.07
7/26/07 2:26 PM	1421	89-16-1421		0	5	0	220	Frag	---	6	Actual	MD	578910.53	3751666.09	578910.44	3751665.88	0.0914	0.212
7/26/07 2:03 PM	1422	90-17-1422		4.6	15	0	310	Frag	---	2	Actual	MD	579031.21	3751700.67	579031.18	3751700.43	0.0304	0.236
7/26/07 2:18 PM	1423	89-16-1423		6.5	36	0	0	No Contact	---	0	Actual	No Contacts	578976.85	3751676.17	578976.78	3751676.13	0.0744	0.048
7/26/07 2:38 PM	1424	88-16-1424		0	9	0	0	Scrap Metal	---	10	Actual	Cultural	578867.57	3751639.65	578867.61	3751639.69	-0.0386	-0.036
7/26/07 2:40 PM	1425	88-16-1425		3.9	0	-90	0	Corner Stake	---	20	Actual	Cultural	578832.40	3751628.92	578833.00	3751628.77	-0.5986	0.144

Table 8.1
Single Point Anomaly Results
ESTCP Site 18 - Camp Sibert

				(cm)	(cm)	(°)	(°)		(cm)	(cm)			UTM 16 North Meters		UTM 16 North Meters		(Predicted - Measured)	
				Predicted Depth	Depth	Inclination	Azimuth		Predicted Length	Length			Predicted	Predicted	Measured	Measured		
TimeStamp	Alias	Anomaly ID	Mag-N Flag ID					Identification			Actual/ Approx	Dig Type	Easting	Northing	Easting	Northing	Δ Easting	Δ Northing
7/26/07 2:23 PM	1426	89-16-1426		5	35	0	0	No Contact	---	0	Actual	No Contacts	578913.45	3751652.16	578913.35	3751651.89	0.1079	0.266
7/26/07 2:20 PM	1427	89-16-1427		2.7	7	-45	270	Halfshell	---	30	Actual	MD	578976.20	3751656.82	578976.52	3751657.02	-0.3246	-0.201
7/26/07 2:22 PM	1428	89-16-1428		7.9	4	0	330	Halfshell	---	30	Actual	MD	578952.64	3751649.78	578953.20	3751649.29	-0.5596	0.488
7/26/07 2:06 PM	1429	90-16-1429		12.4	10	0	0	Nose Frag	---	7	Actual	MD	579005.02	3751667.47	579004.67	3751667.40	0.3424	0.075
7/26/07 2:08 PM	1430	89-16-1430		0	30	0	0	No Contact	---	0	Actual	No Contacts	578987.30	3751660.88	578987.39	3751660.88	-0.0866	-0.001
7/17/07 3:09 PM	1008a	84-14-1008a			60	-90	200	Baseplate		12	Actual	MD			Same as 1008			
7/25/07 8:10 AM	1085b	85-15-1085		30.8	0	-90	0	Corner Stake	3.2	20	Actual	Cultural			578406.00	3751478.32		
6/25/07 2:33 PM	1136a	90-15-1136a			42	0	60	Nose Frag		7	Actual	MD			579067.56	3751527.57		
6/11/07 11:47 AM	117a	88-17-117a			15	0	120	Frag		7	Actual	MD			Same as 117			
6/7/07 9:42 AM	172a	89-16-172a			32	0	90	Baseplate		11	Actual	MD			578945.05	3751673.20		
6/13/07 10:11 AM	234a	89-16-234		1	0	0	140	Frag	0	3	Actual	MD			578953.77	3751699.67		
5/30/07 3:42 PM	298a	89-17-298a		30	28	0	0	Nose Frag	5	8	Actual	MD			578919.15	3751719.73		
5/31/07 9:51 AM	305a	89-17-305a		48	42	-45	280	Nose Frag	6	5	Actual	MD			578943.48	3751721.79		
5/31/07 10:12 AM	332a	89-17-332a		44	33	-60	240	Baseplate	6	11	Actual	MD			578938.39	3751734.95		
5/31/07 10:13 AM	332b	89-17-332b		44	35	-60	240	Nose Frag	6	5	Actual	MD			578938.29	3751734.98		
6/12/07 9:10 AM	370a	89-17-370a			10	0	50	Frag		7	Actual	MD			578996.00	3751766.76		
6/12/07 8:35 AM	399a	90-16-399a			14	-90	270	Baseplate		11	Actual	MD			579039.42	3751689.56		
6/18/07 12:06 PM	447a	90-15-447a			35	-45	30	Baseplate		11	Actual	MD			Same as 447			
6/18/07 11:32 AM	454a	90-15-454a			0	0	110	Frag		12	Actual	MD			579044.71	3751531.26		
6/18/07 2:18 PM	459a	90-15-459a			47	-45	120	Baseplate		11	Actual	MD			579054.75	3751533.90		
6/18/07 10:58 AM	475a	90-15-475a			30	-45	0	Baseplate		12	Actual	MD			579058.72	3751543.21		
6/18/07 10:51 AM	477a	90-15-477a			31	-90	60	Nose Frag		7	Actual	MD			579058.74	3751543.50		
6/19/07 8:29 AM	478a	90-15-478a			7	0	0	Nose Frag		7	Actual	MD			579021.91	3751546.79		
6/14/07 12:34 PM	539a	90-15-539a			32	90	-45	Baseplate		11	Actual	MD			579009.89	3751586.91		
6/19/07 10:24 AM	543a	90-15-543A			39	-45	120	Halfshell		30	Actual	MD			579009.61	3751589.18		
6/19/07 10:28 AM	543b	90-15-543B			45	-90	0	Baseplate		12	Approximate	MD			579009.55	3751588.69		
6/27/07 10:34 AM	838a	83-14-858a		---	14	-90	0	Baseplate		11	Actual	MD			578330.43	3751429.35		

Notes:

1. Frag - Munitions debris
2. No Contact - No anomaly acquired at the location after investigation 30 cm below the predicted depth
3. Hot Soil - Magnetic soil resulting in signature with Schonstedt.
4. Base - Base plate of a 4.2-inch mortar
5. Nose Frag - Munitions debris from the nose of a 4.2-inch mortar

Table 8.2
Cluster Anomaly Results
ESTCP Site 18 - Camp Sibert

										UTM 16 North Meters	
			(cm)	(°)	(°)		(cm)			Measured	Measured
TimeStamp	Alias	Anomaly_ID	Depth	Inclination	Azimuth	Identification	Length	Actual/A pprox	Dig Type	Easting	Northing
8/1/07 12:30 PM	1344	88-16-1344	20	0	180	Scrap Metal	40	Actual	Cultural	578854.92	3751636.07
8/2/07 10:39 AM	1345	88-16-1345a	10	0	120	Frag	20	Actual	MD	578861.06	3751676.47
7/30/07 3:33 PM	1377	90-16-1377a	7	0	0	Nose Frag	7	Actual	MD	579032.04	3751613.02
7/30/07 3:41 PM	1380	90-15-1380a	50	-90	0	Baseplate	12	Actual	MD	579037.37	3751585.99
7/30/07 3:53 PM	1381	90-15-1381a	2	0	120	Frag	6	Actual	MD	579032.83	3751575.56
8/2/07 12:04 PM	1346a	89-16-1346a	40	-90	10	Halfshell	30	Actual	MD	578907.45	3751685.41
8/2/07 12:08 PM	1346b	89-16-1346b	30	-90	60	Halfshell	30	Actual	MD	578906.55	3751686.47
8/2/07 10:23 AM	1347a	89-16-1347a	5	0	0	Nose Frag	7	Actual	MD	578923.71	3751665.38
8/2/07 10:25 AM	1347b	89-16-1347b	10	0	180	Baseplate	12	Actual	MD	578924.45	3751666.74
8/2/07 1:28 PM	1348a	89-17-1348a	10	0	20	Halfshell	30	Actual	MD	578968.24	3751742.08
8/2/07 1:31 PM	1348b	89-17-1348b	4	0	130	Frag	14	Actual	MD	578968.79	3751740.10
8/2/07 1:20 PM	1349a	89-17-1349a	30	-90	50	Baseplate	12	Actual	MD	578970.29	3751726.58
8/2/07 1:25 PM	1349b	89-17-1349b	30	0	0	Nose Frag	7	Actual	MD	578970.33	3751726.43
8/2/07 1:27 PM	1349c	89-17-1349c	8	0	120	Frag	0	Actual	MD	578969.47	3751725.16
8/2/07 1:17 PM	1350a	89-16-1350a	1	0	180	Scrap Metal	30	Actual	Cultural	578992.60	3751690.86
8/2/07 1:48 PM	1351a	90-17-1351a	4	0	80	Frag	14	Actual	MD	579007.33	3751716.25
8/2/07 1:43 PM	1352a	90-17-1352a	15	-90	0	Scrap Metal	12	Actual	Cultural	579010.16	3751733.63
8/2/07 1:45 PM	1352b	90-17-1352b	5	0	40	Scrap Metal	3	Actual	Cultural	579010.05	3751734.62
7/30/07 3:35 PM	1353a	90-15-1353a	12	0	220	Wrench	20	Actual	Cultural	579034.76	3751593.87
7/30/07 3:37 PM	1353b	90-15-1353b	30	-90	0	Baseplate	12	Actual	MD	579036.50	3751594.39
7/30/07 3:40 PM	1353c	90-15-1353c	15	0	0	Nose Frag	7	Actual	MD	579036.64	3751592.95
7/30/07 3:56 PM	1354a	90-15-1354a	1	0	0	Nose Frag	7	Actual	MD	579033.50	3751558.10
7/30/07 3:59 PM	1354b	90-15-1354b	5	0	0	Nose Frag	7	Actual	MD	579033.00	3751558.94
7/30/07 4:01 PM	1355a	90-15-1355a	40	-45	160	Halfshell	30	Actual	MD	579056.22	3751551.52
7/30/07 4:06 PM	1355b	90-15-1355b	12	-90	0	Baseplate	12	Actual	MD	579056.81	3751550.49
7/30/07 4:12 PM	1355c	90-15-1355c	40	-90	0	Baseplate	12	Actual	MD	579057.75	3751549.49
7/30/07 4:13 PM	1355d	90-15-1355d	40	0	110	Frag	6	Actual	MD	579057.59	3751549.49
7/30/07 4:16 PM	1355e	90-15-1355e	4	0	60	Frag	4	Actual	MD	579056.76	3751551.59
7/30/07 4:18 PM	1355f	90-15-1355f	18	0	310	Frag	2	Actual	MD	579057.99	3751550.59
7/30/07 4:21 PM	1356a	90-15-1356a	30	-90	0	Baseplate	12	Actual	MD	579051.49	3751548.04
7/30/07 4:25 PM	1356b	90-15-1356b	2	0	0	Nose Frag	7	Actual	MD	579050.86	3751549.15

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Cluster Anomaly Results
ESTCP Site 18 - Camp Sibert

										UTM 16 North Meters	
			(cm)	(°)	(°)		(cm)			Measured	Measured
TimeStamp	Alias	Anomaly_ID	Depth	Inclination	Azimuth	Identification	Length	Actual/A pprox	Dig Type	Easting	Northing
8/1/07 3:17 PM	1357a	90-15-1357a	30	-90	0	Baseplate	12	Actual	MD	579051.82	3751544.41
8/1/07 3:22 PM	1357b	90-15-1357b	30	-90	0	Nose Frag	12	Actual	MD	579052.19	3751545.52
8/1/07 3:23 PM	1357c	90-15-1357c	5	0	0	Frag	7	Actual	MD	579051.91	3751546.46
8/1/07 2:06 PM	1358a	90-15-1358a	3	0	0	Nose Frag	7	Actual	MD	579059.77	3751535.63
8/1/07 2:08 PM	1358b	90-15-1358b	40	-90	0	Baseplate	12	Actual	MD	579061.16	3751535.03
8/1/07 2:25 PM	1359a	90-15-1359a	40	0	0	Nose Frag	7	Actual	MD	579070.32	3751540.16
8/1/07 2:30 PM	1359b	90-15-1359b	45	-45	140	Baseplate	12	Actual	MD	579070.44	3751540.30
8/1/07 3:05 PM	1359c	90-15-1359c	50	-45	350	Halfshell	30	Actual	MD	579068.31	3751539.64
8/1/07 3:11 PM	1359d	90-15-1359d	2	0	290	Frag	4	Actual	MD	579067.12	3751537.78
8/1/07 3:14 PM	1359e	90-15-1359e	25	0	80	Frag	4	Actual	MD	579068.61	3751538.42
8/1/07 2:02 PM	1360a	90-15-1360a	0	0	0	Nose Frag	7	Actual	MD	579043.97	3751522.62
8/1/07 2:03 PM	1360b	90-15-1360b	0	0	0	Nose Frag	7	Actual	MD	579044.35	3751522.01
8/1/07 2:04 PM	1360c	90-15-1360c	2	0	250	Baseplate	12	Actual	MD	579045.32	3751522.86
7/30/07 1:55 PM	1361a	83-14-1361a	2	0	50	Scrap Metal	4	Actual	Cultural	578310.64	3751451.32
7/30/07 1:57 PM	1361b	83-14-1361b	15	0	0	Scrap Metal	10	Actual	Cultural	578309.91	3751450.16
7/30/07 1:59 PM	1361c	83-14-1361c	5	0	0	Scrap Metal	7	Actual	Cultural	578313.40	3751453.03
7/30/07 2:03 PM	1361d	83-14-1361d	15	0	0	Nose Frag	7	Actual	MD	578308.14	3751451.77
7/30/07 1:47 PM	1362a	83-14-1362a	3	0	0	Nose Frag	7	Actual	MD	578365.32	3751419.36
7/30/07 1:50 PM	1362b	83-14-1362b	4	-90	340	Frag	6	Actual	MD	578365.02	3751419.77
7/30/07 1:50 PM	1362c	83-14-1362c	12	-90	0	Baseplate	12	Actual	MD	578364.47	3751418.18
7/30/07 1:30 PM	1363a	83-14-1363a	15	0	60	Frag	14	Actual	MD	578369.97	3751443.63
7/30/07 1:37 PM	1363b	83-14-1363b	4	0	350	Frag	7	Actual	MD	578366.43	3751438.90
7/30/07 1:42 PM	1363c	83-14-1363c	5	0	110	Frag	5	Actual	MD	578357.72	3751441.14
7/30/07 1:45 PM	1363d	83-14-1363d	3	0	70	Frag	5	Actual	MD	578356.92	3751440.55
7/30/07 1:27 PM	1364a	83-14-1364a	1	0	20	Scrap Metal	30	Actual	Cultural	578385.67	3751464.00
7/30/07 2:23 PM	1365a	83-14-1365a	4	0	110	Frag	13	Actual	MD	578443.58	3751434.10
7/30/07 2:26 PM	1365b	83-14-1365b	20	-90	170	Scrap Metal	22	Actual	Cultural	578442.02	3751434.62
7/30/07 12:54 PM	1366a	83-14-1366a	5	0	270	Scrap Metal	7	Actual	Cultural	578433.40	3751488.92
7/30/07 1:00 PM	1366b	83-14-1366b	4	0	0	Scrap Metal	4	Actual	Cultural	578434.47	3751486.92
7/30/07 1:12 PM	1367a	83-14-1367a	16	0	0	Nose Frag	7	Actual	MD	578413.49	3751498.83
7/30/07 1:15 PM	1367b	83-14-1367b	12	0	90	Frag	9	Actual	MD	578413.05	3751496.81

Table 8.2
Cluster Anomaly Results
ESTCP Site 18 - Camp Sibert

										UTM 16 North Meters	
			(cm)	(°)	(°)		(cm)			Measured	Measured
TimeStamp	Alias	Anomaly_ID	Depth	Inclination	Azimuth	Identification	Length	Actual/A pprox	Dig Type	Easting	Northing
7/30/07 1:18 PM	1367c	83-14-1367c	8	0	320	Frag	5	Actual	MD	578415.63	3751499.76
7/30/07 1:22 PM	1367d	83-14-1367d	18	0	190	Frag	14	Actual	MD	578415.69	3751498.79
7/30/07 1:24 PM	1367e	83-14-1367e	14	0	330	Frag	15	Actual	MD	578414.86	3751497.88
7/30/07 1:01 PM	1368a	84-15-1368a	15	0	90	Frag	6	Actual	MD	578418.88	3751505.28
7/30/07 1:08 PM	1368b	84-15-1368b	2	-45	190	Frag	7	Actual	MD	578417.83	3751505.06
7/30/07 1:05 PM	1368c	84-15-1368c	12	0	120	Baseplate	12	Actual	MD	578417.19	3751505.28
7/30/07 1:09 PM	1368d	84-15-1368d	2	0	140	Baseplate	12	Actual	MD	578416.49	3751506.88
7/30/07 1:10 PM	1368e	84-15-1368e	4	0	80	Frag	5	Actual	MD	578416.26	3751507.50
8/2/07 11:00 AM	1369a	88-17-1369a	2	0	0	Frag	3	Actual	MD	578883.69	3751734.40
8/2/07 11:00 AM	1369b	88-17-1369b	0	0	90	Halfshell	30	Actual	MD	578884.19	3751735.52
8/2/07 11:05 AM	1369c	88-17-1369c	35	0	100	Frag	6	Actual	MD	578885.81	3751735.18
8/2/07 11:07 AM	1369d	88-17-1369d	15	0	80	Frag	11	Actual	MD	578887.38	3751735.12
8/2/07 11:08 AM	1369e	88-17-1369e	15	0	200	Frag	7	Actual	MD	578888.92	3751736.44
8/2/07 11:09 AM	1369f	88-17-1369f	13	-90	0	Baseplate	12	Actual	MD	578888.58	3751734.70
8/2/07 11:12 AM	1369g	88-17-1369g	4	0	270	Halfshell	30	Actual	MD	578886.84	3751733.28
8/2/07 10:45 AM	1370a	88-16-1370a	75	0	270	Halfshell	30	Actual	MD	578851.52	3751693.85
8/2/07 10:57 AM	1370b	88-16-1370b	30	0	20	Frag	8	Actual	MD	578849.74	3751693.34
8/2/07 10:41 AM	1371a	88-16-1371a	8	0	30	Frag	8	Actual	MD	578853.86	3751680.20
8/2/07 10:41 AM	1371b	88-16-1371b	30	-90	0	Baseplate	12	Actual	MD	578854.89	3751679.02
8/2/07 10:41 AM	1371c	88-16-1371c	35	0	0	Nose Frag	7	Actual	MD	578855.24	3751679.13
8/2/07 12:11 PM	1372a	89-17-1372a	5	0	0	Scrap Metal	6	Actual	MD	578912.86	3751683.10
8/2/07 12:12 PM	1372b	89-17-1372b	10	0	240	Frag	9	Actual	MD	578912.14	3751682.87
8/2/07 10:27 AM	1373a	89-16-1373a	5	0	250	Scrap Metal	10	Actual	Cultural	578929.64	3751645.18
8/2/07 1:50 PM	1374a	90-16-1374a	5	0	200	Frag	7	Actual	MD	579033.77	3751681.77
8/2/07 1:52 PM	1374b	90-16-1374b	10	0	0	Halfshell	4	Actual	MD	579034.63	3751682.91
8/2/07 1:53 PM	1374c	90-16-1374c	4	0	0	Frag	4	Actual	MD	579033.18	3751682.33
8/2/07 1:53 PM	1374d	90-16-1374d	NA	NA	NA	Frag	NA	Actual	MD	579034.61	3751681.43
8/2/07 1:54 PM	1374e	90-16-1374e	3	0	0	Nose Frag	7	Actual	MD	579032.40	3751682.79
8/2/07 1:55 PM	1374f	90-16-1374f	4	0	10	Frag	6	Actual	MD	579031.77	3751682.72
8/2/07 1:56 PM	1374g	90-16-1374g	7	0	60	Frag	7	Actual	MD	579032.10	3751684.09
8/2/07 1:56 PM	1374h	90-16-1374h	8	0	240	Frag	8	Actual	MD	579030.42	3751684.73

Table 8.2
Cluster Anomaly Results
ESTCP Site 18 - Camp Sibert

										UTM 16 North Meters	
			(cm)	(°)	(°)		(cm)			Measured	Measured
TimeStamp	Alias	Anomaly_ID	Depth	Inclination	Azimuth	Identification	Length	Actual/A pprox	Dig Type	Easting	Northing
8/2/07 1:57 PM	1374i	90-16-1374i	3	0	20	Frag	3	Actual	MD	579035.31	3751680.25
8/2/07 1:59 PM	1374j	90-16-1374j	20	0	270	Frag	4	Actual	MD	579030.86	3751686.21
8/2/07 2:02 PM	1374k	90-16-1374k	2	0	0	Frag	1	Actual	MD	579034.60	3751681.52
8/2/07 9:25 AM	1375a	90-16-1375a	3	0	0	Rock	2	Actual	Rock	579020.70	3751620.58
8/2/07 9:26 AM	1375b	90-16-1375b	15	0	0	Nose Frag	7	Actual	MD	579021.64	3751619.10
8/2/07 9:23 AM	1376a	90-16-1376a	30	-90	0	Baseplate	12	Actual	MD	579016.99	3751613.17
8/1/07 3:48 PM	1378a	90-16-1378a	25	0	60	Frag	15	Actual	MD	579018.21	3751600.61
8/2/07 9:04 AM	1378b	90-16-1378b	70	-90	170	Halfshell	30	Actual	MD	579018.86	3751599.60
8/2/07 9:10 AM	1378c	90-16-1378c	56	0	0	Soils	0	Actual	Soils	579015.17	3751599.62
8/1/07 3:26 PM	1379a	90-15-1379a	30	0	0	Nose Frag	7	Actual	MD	579020.28	3751587.35
8/1/07 3:37 PM	1379b	90-15-1379b	60	-90	0	Baseplate	12	Actual	MD	579020.48	3751587.48
8/1/07 2:14 PM	1382a	90-15-1382a	38	-45	280	Baseplate	45	Actual	MD	579062.98	3751542.48
8/2/07 11:54 AM	1383a	89-17-1383a	110	90	0	Seeds	45	Actual	Seed Item	578903.09	3751712.19
8/2/07 1:34 PM	1384a	89-17-1384a	100	-45	180	Seeds	45	Actual	Seed Item	578986.79	3751746.11

Notes:

1. Frag - Munitions debris
2. No Contact - No anomaly reacquired at the location after investigation 30 cm below the predicted depth
3. Hot Soil - Magnetic soil resulting in signature with Schonstedt.
4. Base - Base plate of a 4.2-inch mortar
5. Nose Frag - Munitions debris from the nose of a 4.2-inch mortar

ESTCP Support Activities
Former Camp Sibert

FIGURES



Figure 1.1

Site 18

Site Location

ESTCP UXO Discrimination Study

Site Boundary

Former Camp Sibert Boundary

Locator Map

1,000 500 0 1,000 2,000

feet

300 150 0 300 600

meters

Map Units: NAD 1983 UTM 16N (Meter)

U.S. ARMY CORPS
OF ENGINEERS

PARSONS

DESIGNED BY: PDS	FORMER CAMP SIBERT, ALABAMA	
DRAWN BY: PDS		
CHECKED BY: XX	PRINT DATE: 10/29/2007 @ 02:02 PM	PROJECT NUMBER: 745682
SUBMITTED BY: XX	AERIAL PHOTOGRAPHY: 2006 Color Aerial	SCALE: 1:22,000
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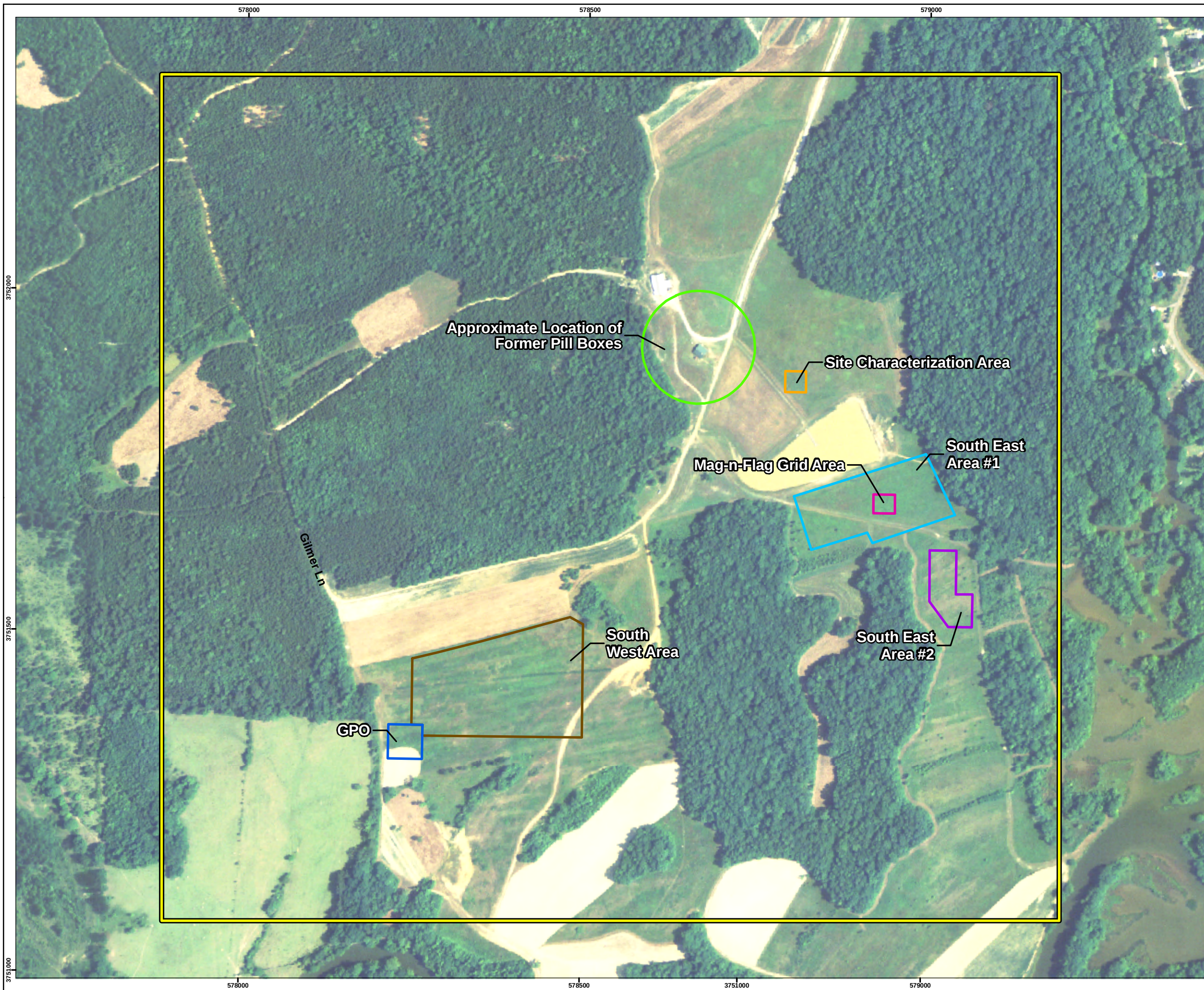
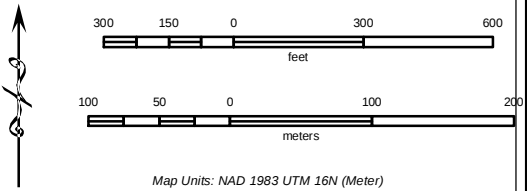
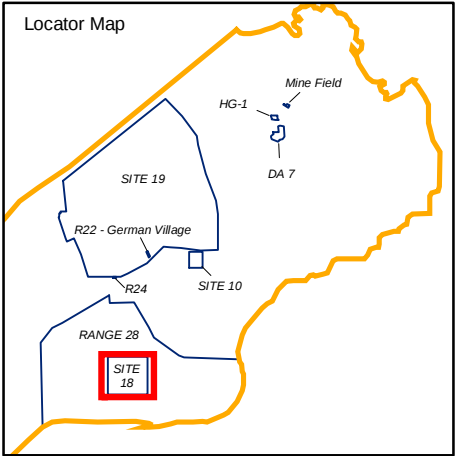
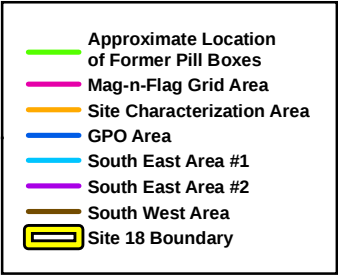


Figure 1.2

Site 18
Site Map

ESTCP UXO Discrimination Study



U.S. ARMY CORPS
OF ENGINEERS

PARSONS

DESIGNED BY:

PDS

DRAWN BY:

PDS

CHECKED BY:

XX

SUBMITTED BY:

XX

FORMER CAMP SIBERT,
ALABAMA

PRINT DATE:
Oct 23, 2007 at 05:00 PM

AERIAL PHOTOGRAPHY:
2006 Color Aerial

SOURCE OF DATA:
ESTCP Data Collection

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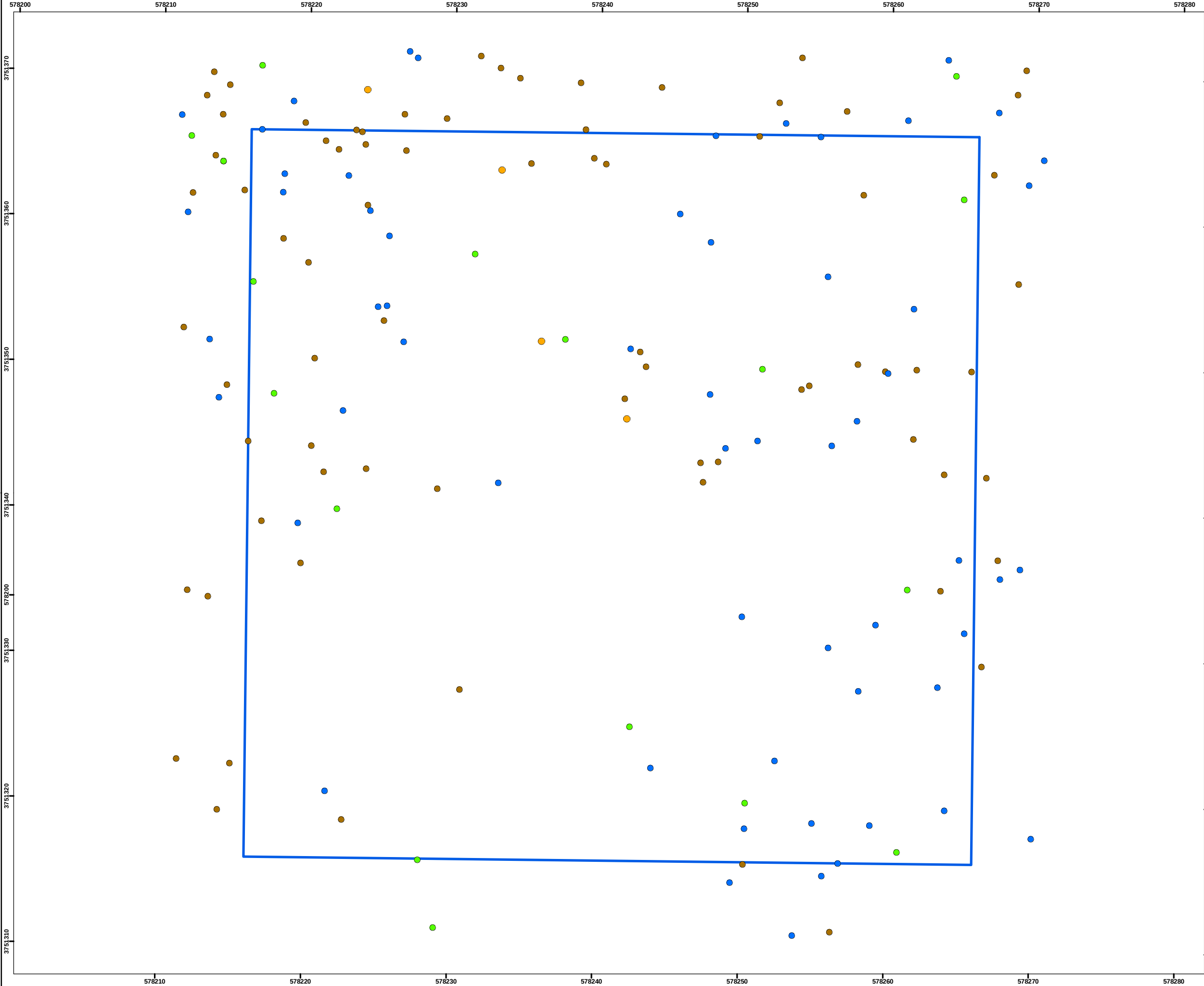


Figure 3.1

Site 18

Results of GPO Intrusive Investigations

ESTCP UXO Discrimination Study

Munitions Debris

Cultural Debris

Hot Rocks

No Contact

GPO Area

Locator Map

105020

feet

42008

meters

Map Units: NAD 1983 UTM 16N (Meter)

U.S. ARMY CORPS
OF ENGINEERS

PARSONS

DESIGNED BY:
PDS

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PDS

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XX

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XX

FORMER CAMP SIBERT,
ALABAMA

PRINT DATE:
10/29/2007 @ 01:58 PM

PROJECT NUMBER:
745682

AERIAL PHOTOGRAPHY:

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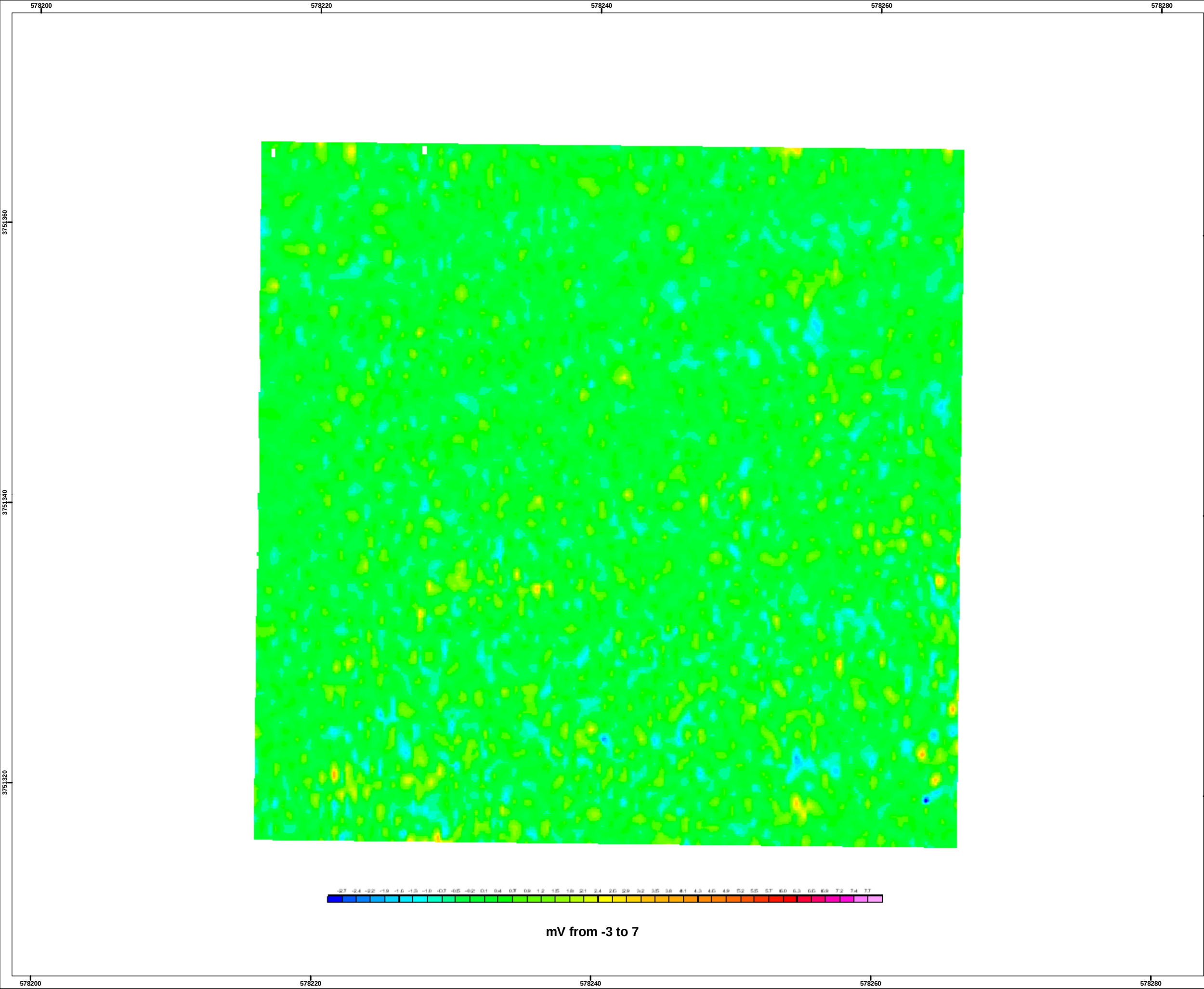
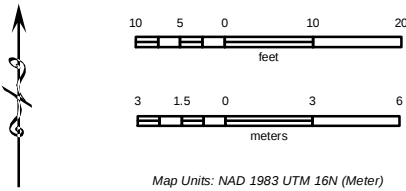
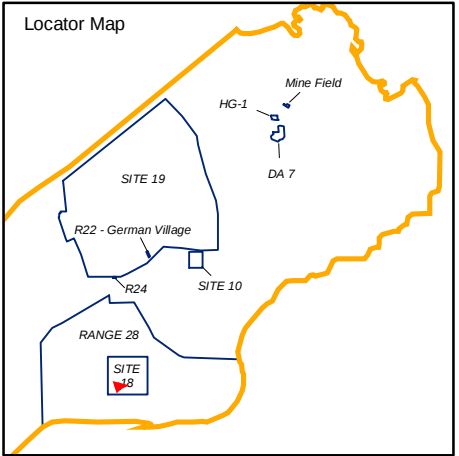


Figure 3.2

Site 18

GPO Final Geophysical Survey

ESTCP UXO Discrimination Study



U.S. ARMY CORPS OF ENGINEERS		PARSONS	
DESIGNED BY: PDS		FORMER CAMP SIBERT, ALABAMA	
DRAWN BY: PDS			
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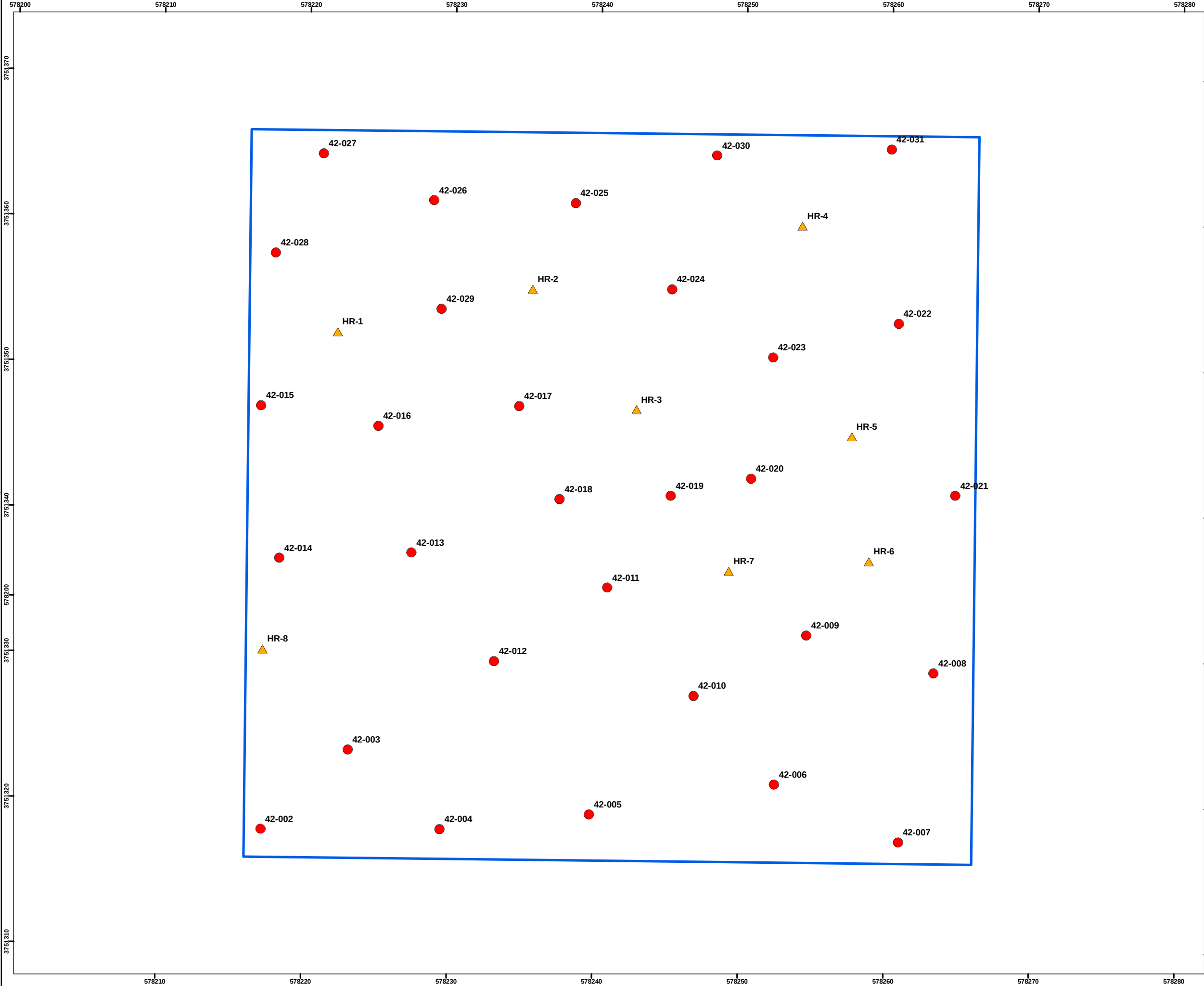


Figure 3.3

Site 18 GPO Items

ESTCP UXO Discrimination Study

42-inch Mortar

Splayed Round

GPO Area

Locator Map

10

5

0

10

20

feet

4

2

0

4

8

meters

Map Units: NAD 1983 UTM 16N (Meter)

U.S. ARMY CORPS
OF ENGINEERS

PARSONS

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PDS

DRAWN BY:
PDS

CHECKED BY:
XX

SUBMITTED BY:
XX

FILE:
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FORMER CAMP SIBERT,
ALABAMA

PRINT DATE:
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PROJECT NUMBER:
745682

AERIAL PHOTOGRAPHY:

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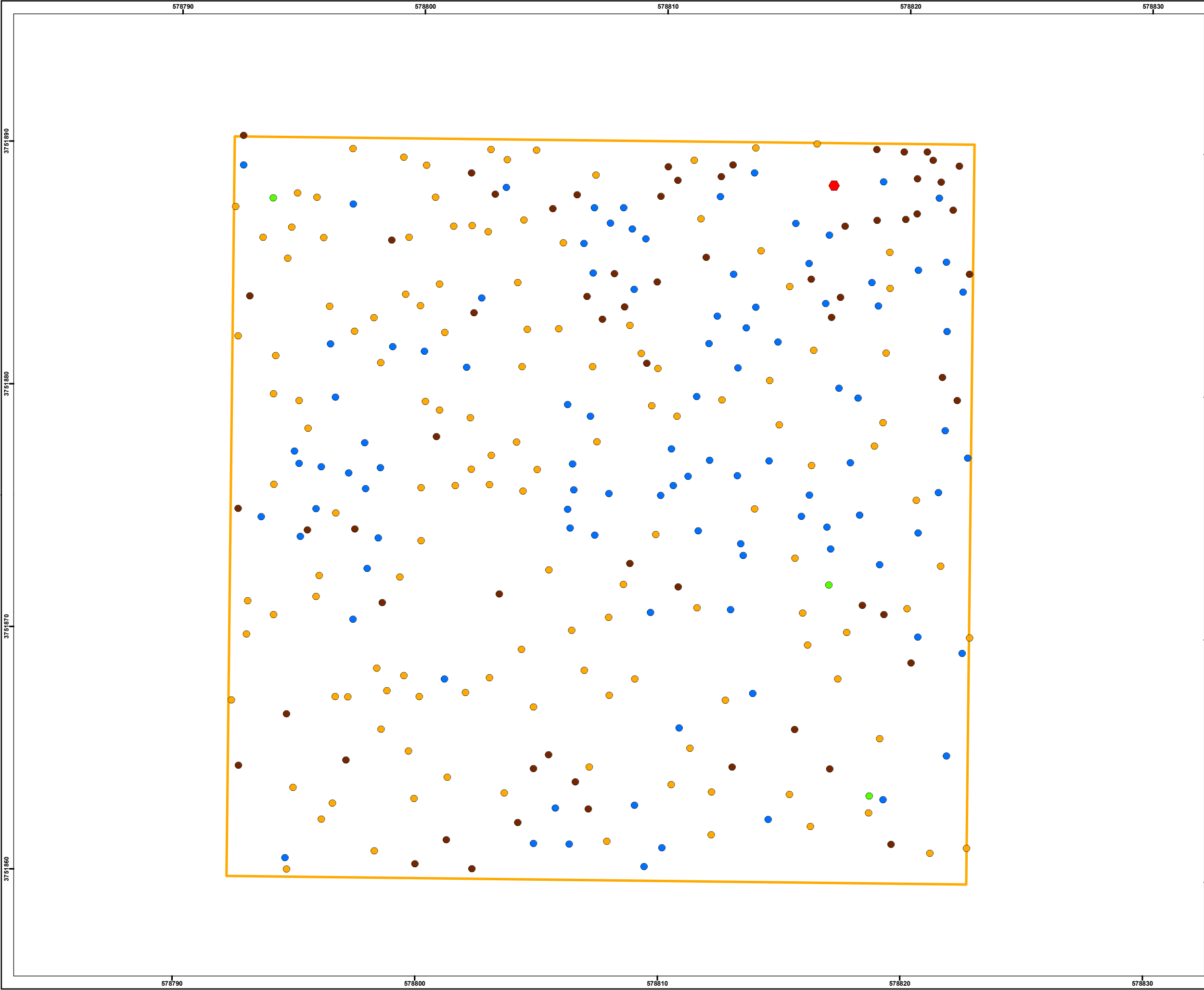


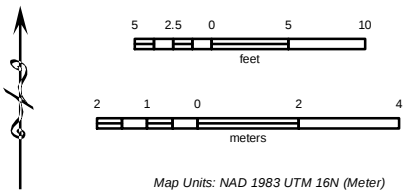
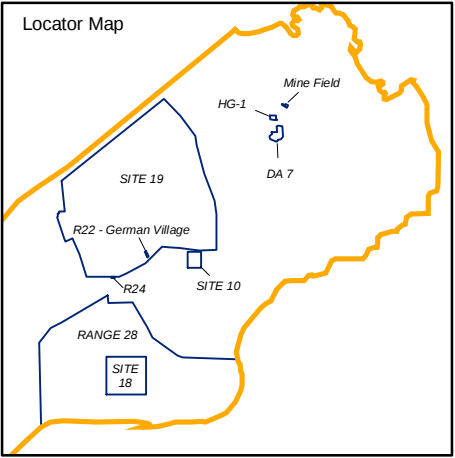
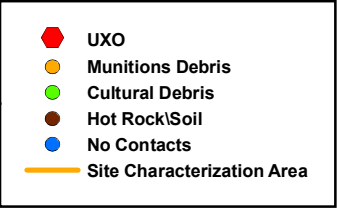
Figure 4.1

Site 18

Results of 100' x 100'

Grid Intrusive Investigations

ESTCP UXO Discrimination Study



U.S. ARMY CORPS
OF ENGINEERS

PARSONS

DESIGNED BY:

PDS

DRAWN BY:

PDS

CHECKED BY:

XX

SUBMITTED BY:

XX

**FORMER CAMP SIBERT,
ALABAMA**

PRINT DATE:

10/29/2007 @ 02:01 PM

AERIAL PHOTOGRAPHY:

SOURCE OF DATA:

ESTCP Data Collection

FILE:

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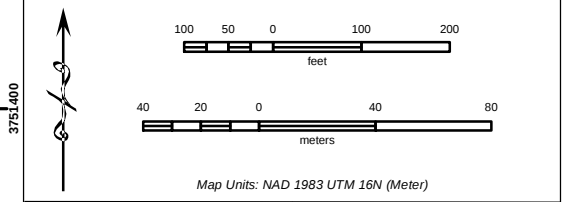
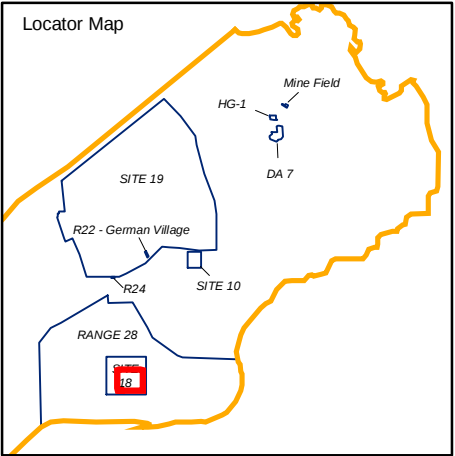
Figure 5.1

Site 18

Locations of Seed Items

ESTCP UXO Discrimination Study

- Seed Item Location
- South East Area #1
- South East Area #2
- South West Area



U.S. ARMY CORPS OF ENGINEERS		PARSONS	
DESIGNED BY: PDS	FORMER CAMP SIBERT, ALABAMA		
DRAWN BY: PDS			
CHECKED BY: XX	PRINT DATE: 10/29/2007 @ 02:01 PM	PROJECT NUMBER: 745682	
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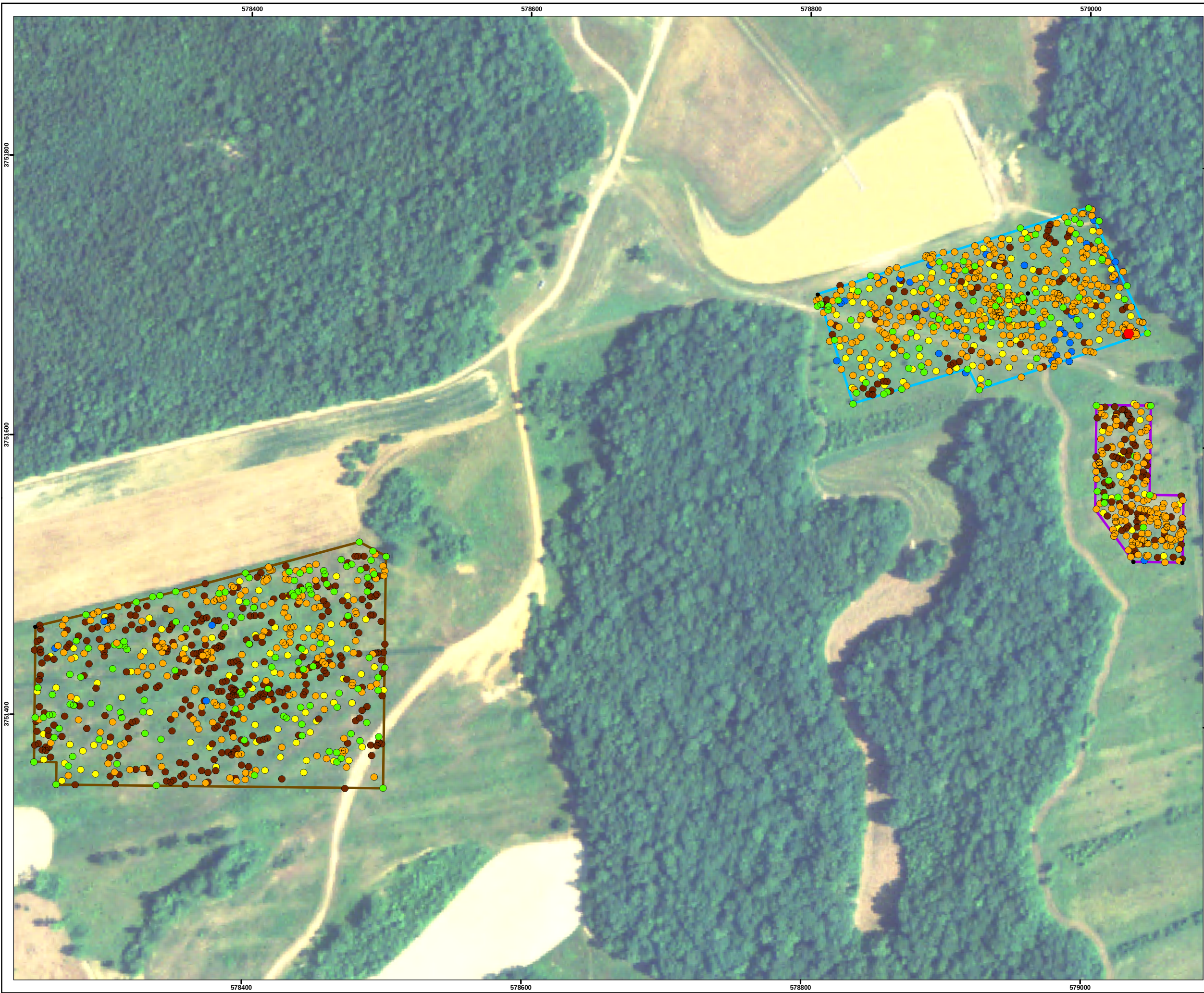


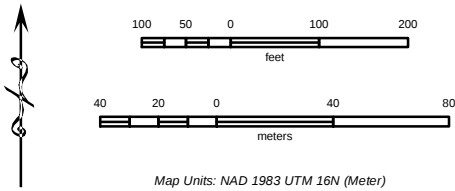
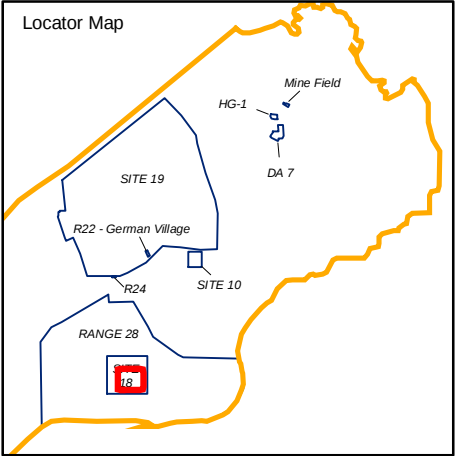
Figure 8.1

Site 18

Results of Intrusive Investigations

ESTCP UXO Discrimination Study

- UXO
- Munitions Debris
- Cultural Debris
- Seed Item
- Hot Rock/Soil
- No Contacts
- Corner Stake/Survey Point
- South East Area #1
- South East Area #2
- South West Area



U.S. ARMY CORPS OF ENGINEERS		PARSONS	
SIGNED BY: PDS		FORMER CAMP SIBERT, ALABAMA	
AWN BY: PDS			
ECKED BY: XX		PRINT DATE: 10/29/2007 @ 02:00 PM	PROJECT NUMBER: 745682
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*ESTCP Support Activities
Former Camp Sibert*

APPENDIX A

GPO Photographs

Included on Enclosed CD

APPENDIX B

Seeding Photographs

Included on Enclosed CD

APPENDIX C

EM61-MK2 Data Collection and Analysis at Camp Sibert

Included on Enclosed CD

APPENDIX D
Intrusive Investigation Photographs

Included on Enclosed CD

APPENDIX E

Munitions and Cultural Debris Disposition Documentation

27. MATERIAL DATA		25. NATIONAL STOCK NO. & ADD (8-22)		24. DOCUMENT NUMBER & SUFFIX (30-44)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>00</td> </tr> <tr> <td colspan="10">FROM</td> <td colspan="10">QUANTITY</td> <td colspan="10">SUPPLIER</td> <td colspan="10">DISPATCH</td> <td colspan="10">PROJECT</td> <td colspan="10">RECEIVED</td> <td colspan="10">MARK</td> </tr> </table>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	FROM										QUANTITY										SUPPLIER										DISPATCH										PROJECT										RECEIVED										MARK									
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26. RIC (4-6) U (23-24) QTY (25-29) CON CODE (7-1) DIST (55-58) UP (74-80)		This Certifies that the material listed has been 100 percent properly inspected and to best of our knowledge and belief, is free of explosive hazards, engine fluids illuminating dials, and other volatile liquid HPRV material SUXOS <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i> Date <i>28 Mar 2007</i>		28. RECEIVED BY <i>Delia T & Eduardo</i> 29. DATE RECEIVED <i>3/29/07</i>		1. TOTAL PRICE 2. SHIP FROM 3. SHIP TO																																																																																																																																																																											
USAESCH Safety Specialist <i>Michael Smith</i> Date <i>28 Mar 07</i>		17. ITEM NOMENCLATURE Munitions Debris 18. TV CONT 19. NO CONT 20. TOTAL WEIGHT 21. TOTAL CUBE		10. QTY. RECD 11. UP 12. UNIT WEIGHT 13. UNIT CUBE 14. UFG 15. SL		5. DOC DATE & NMFC 7. FRT RATE 8. TYPE CARGO 9. PS																																																																																																																																																																											
Item #5 HR-1, HR-2, HR-3, HR-4, HR-5, HR-6 HR-7, HR-8		16. FREIGHT CLASSIFICATION NOMENCLATURE		4. MARK FOR		1. TOTAL PRICE 2. SHIP FROM 3. SHIP TO																																																																																																																																																																											

PREVIOUS EDITION MAY BE USED

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

24. DOCUMENT NUMBER & SUFFIX (30-44)										1. TOTAL PRICE										2. SHIP FROM										3. SHIP TO																																							
Munitions Debris from Former Camp Sibert Alabama, MEC Investigation										4. MARK FOR																																																											
Drum # 1 seal # 1230113 Drum # 2 seal # 1230116										5. DOC DATE										6. NMFC										7. FRT RATE										8. TYPE CARGO										9. PS																			
Drum # 3 seal # 1230114 Drum # 4 seal # 1230112										10. QTY. RECD										11. UP										12. UNIT WEIGHT										13. UNIT CUBE										14. UFC										15. SL									
Drum # 5 seal # 1230111 Drum # 6 seal # 1230115										20 Drums																																																											
Drum # 7 seal # 1230120 Drum # 8 seal # 1230107										16. FREIGHT CLASSIFICATION NOMENCLATURE																																																											
Drum # 9 seal # 1230119 Drum # 10 seal # 1230118										Scrap Metal/Munitions Debris																																																											
Drum # 11 seal # 1230117 Drum # 12 Seal # 1230110																																																																					
Drum # 13 seal # 1230109 Drum # 14 seal # 1230108										17. ITEM NOMENCLATURE																																																											
Drum # 15 seal # 1230106 Drum # 16 seal # 1230102										Scrap Metal/ Munitions Debris																																																											
Drum # 17 seal # 1230101 Drum # 18 seal # 1230105										18. TV CONT										19. NO CONT										20. TOTAL WEIGHT										21. TOTAL CUBE																													
Drum # 19 seal # 1230104 Drum # 20 seal # 1230103										Drum										20 each																																																	
LAST ITEM										22. RECEIVED BY																																																											

This Certifies that the material listed has been 100 percent inspected and to the best of our knowledge and belief, are inert and/ or free of explosives or related materials.

Kenneth A Cargel SUXOS
Parsons Huntsville AL
256-217-2501

James O. Gilchrist UXOSO
Parsons Huntsville AL
256-217-2501

PerFORM (DLA)

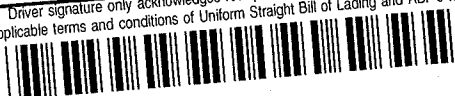
PREVIOUS EDITION MAY BE USED

COMMERCIAL BILL OF LADING				DATE 2007-09-04	ORIGINAL B/L NO. > N001730000670
CARRIER ABF Freight System Inc			SCAC ABFS	CARRIER ACCOUNT NO.	
DESTINATION (Name, address and ZIP code) ARMY RESEARCH LABORATORY BLOSSOM POINT ROAD BLDG. 511 WELCOME, MD 20693 US BLOS			SPLC (Dest.) 239475000	ORIGIN (Name, address and ZIP code) PARSON'S 1200 PINEVIEW CIRCLE RAINBOW CITY, AL 35904 US PARS SPLC (Orig.) 471762000	
CONSIGNEE (Name, address and ZIP code of installation) ARMY RESEARCH LABORATORY BLOSSOM POINT ROAD BLDG. 511 WELCOME, MD 20693 US BLOS			SHIPPER (Name, address and ZIP code) US NAVY C/O US NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE, S.W., BLDG 49 WASHINGTON, DC 20375 US N00173		
APPROPRIATION CHARGEABLE N015			BILL CHARGES TO (Dep/Agency, bureau/office mailing address and ZIP code) PowerTrack, U.S. Bank EP-MN-L27C 200 South Sixth Street Minneapolis, MN 55402 FWRYRK		
VIA (Route shipment when advantageous to the Government)					
MARKS AND ANNOTATION: (U) K290232179 POC IN ALABAMA IS KEN CANCEL. PII: 256-295-5064 POC IN MARYLAND IS GLENN HARBAUGH.			TP: J DD:2007-09-14 5290228355 PH: 804-761-5904 PICK-UP NUMBER: PRO 4335937 (111) SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD. DOES NOT APPLY TO TOWAWAY SHIPMENTS. 405 - Fuel Related Rate Adjustment \$ 12.43		
TOTAL PKGS.		DESCRPTION OF ARTICLES (Use carrier's classification or tariff description if possible; otherwise use clear nontchnical description)		QUANTITY (Pounds, Gallons or Barrels)	
NO	KIND	HM		FOR USE OF BILLING CARRIER ONLY	
				Services	Rate
				Charges	
8	BRL		CLASSIFICATION ITEM NO 999913 PAK (See MPTNY IC for Cargo Liability) TCN: N001732285003XXX CU:355.6 COMMODITY: 999913 BARRELS ON SKIDS 8 BL CU 155.6 48L 40W 40H 2000.0 LB	2800.0 LB	
8	BRL		Mileage 681 TOT QTY: 2800 LB CU: 356	2800.0 LB	
			TOTAL CHARGES		
TARIFF/SPECIAL RATE AUTHORITY ABFS:003934-00			PICKUP SERVICE FURNISHED ☐ VEHICLE FULLY LOADED ☐ SHIPPERS INITIALS BWB		
STOP SHIPMENT AT			ROUTE ORDER/RELEASE NUMBER		
FURNISH INFORMATION ON CAR/TRUCKLOAD/CONTAINER SHIPMENTS					
INITIALS & NO.		SEAL NUMBERS		LENGTH/CUBE	
ABFS:615802P6				ORDERED AV3	
FOR				FURNISHED AV3	
CARRIER'S PICKUP DATE 2007-09-06		SIGNATURE OF AGENT		PER	
MODE B		ESTIMATE 505.23		CARRIER WAY/FREIGHT BILL NO. AND DATE 72285003	
ISSUING OFFICER AND OFFICE (Issuing officer name, office and complete address) US NAVAL RESEARCH LABORATORY SHIPPING OFFICE, CODE 3451 US NAVY C/O US NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE, S.W. BLDG 49 WASHINGTON, DC 20375 US N00173		GBLOC BENV		DELIVERED THIS CONSIGNMENT COMPLETE & IN APPARENT GOOD ORDER EXCEPT AS MAY BE INDICATED SHORTAGE ☐ DAMAGED ☐ ☐ CARRIER OSED REPORT ATTACHED ☐ DELIVERY AT DESTINATION FURNISHED ☐ ACCESSORIAL SERVICES CERTIFICATION ATTACHED	
CONTRACT/PURCHASE ORDER NO. AND FOB POINT		DATED		NAME OF BILLING CARRIER	
				SIGNATURE OF AGENT	
THIS US GOVERNMENT SHIPMENT IS SUBJECT TO THE TERMS AND CONDITIONS LISTED IN THE 41 CFR 102-117 AND 41 CFR 102-118.					
THIS IS TO CERTIFY THAT HEREIN NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION, SUBJECT TO SECTION 7 OF THE CONDITIONS. IF THIS SHIPMENT IS TO BE DELIVERED TO THE CONSIGNEE WITHOUT RECOURSE ON THE CONSIGNOR, THE CONSIGNOR SHALL SIGN THE FOLLOWING STATEMENT: THE CARRIER SHALL NOT MAKE DELIVERY OF THIS SHIPMENT WITHOUT PAYMENT OF FREIGHT AND ALL OTHER LAWFUL CHARGES.					
RECEIVED, SUBJECT TO THE TERMS AND RULES IN EFFECT ON THE DATE OF THE ISSUE OF THIS BILL OF LADING, THE PROPERTY DESCRIBED ABOVE IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITIONS OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONIGNED, AND DESTINED AS INDICATED ABOVE WHICH SAID CARRIER (THE WORD CARRIER BEING UNDERSTOOD THROUGHOUT THIS CONTRACT AS MEANING ANY PERSON OR CORPORATION IN POSSESSION OF THE PROPERTY UNDER THE CONTRACT) AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY AT SAID DESTINATION, IF ON ITS ROUTE, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION. IT IS MUTUALLY AGREED AS TO EACH CARRIER OF ALL OR ANY OF SAID PROPERTY OVER ALL OR ANY PORTION OF THE SAID ROUTE TO DESTINATION AND AS TO EACH PARTY AT ANY TIME INTERESTED IN ALL OR ANY SAID PROPERTY, THAT EVERY SERVICE BE PERFORMED HEREUNDER SHALL BE SUBJECT TO ALL THE BILL OF LADING TERM AND CONDITIONS IN THE GOVERNING CLASSIFICATION ON THE DATE OF THE SHIPMENT. SHIPPER HEREBY CERTIFIES THAT HE IS FAMILIAR WITH ALL THE BILL OF LADING TERM AND CONDITIONS IN THE GOVERNING CLASSIFICATION AND THE SAID TERMS AND CONDITIONS ARE HEREBY AGREED BY THE SHIPPER AND ACCEPTED FOR HIMSELF AND HIS ASSIGNS, NOTE - WHERE THE RATE IS DEPENDENT ON VALUE, SHIPPERS ARE REQUIRED TO STATE SPECIFICALLY IN WRITING THE AGREED OR DECLARED VALUE OF THE PROPERTY. THE AGREED OR DECLARED VALUE OF THE PROPERTY IS HEREBY SPECIFICALLY STATED BY THE SHIPPER TO BE NOT EXCEEDING:					
PER FREIGHT CHARGES PREPAID ☐ COLLECT ☐ FREIGHT PREPAID UNLESS COLLECT BOX IS CHECKED					

ABF ABF Freight System
084 782 507

Total
Pages

Driver signature only acknowledges receipt of freight. Shipment is subject to applicable terms and conditions of Uniform Straight Bill of Lading and ABF's tariffs.



PerFORM (DLA)

PREVIOUS EDITION MAY BE USED

Date: 4 Sept 07

To

~~Barry W. Belcastro~~ Barry W. Belcastro, U.S. Naval Research Laboratory (NRL), Washington, DC
(P) 202-767-2461
DSN 297-2461
(F) 202-767-0346

From

~~Ken Cargel~~ Ken Cargel
Fax: 256-442-1926

Total pages (including cover sheet): 21

Comment: Attached is the Commercial Bill of Lading for the shipment of the drums to Maryland. Please have the driver sign where I have circled and fax me a copy (at the number above) and give the driver a copy. The pick-up will occur on Thursday (9/6/07). If you have any questions, please call. Thank you!

Picked up at
13:30
Friday 9/7/7
ME