

APPENDIX L
ORDNANCE AND EXPLOSIVE AVOIDANCE SURVEY

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MEMORANDUM FOR RECORD

SUBJECT: SITE VISIT AND MAGNETOMETER SURVEY CONDUCTED AT
OD-2, RAVENNA ARMY AMMUNITION PLANT, OHIO

1. A site visit and magnetometer survey was conducted on 14 and 15 November 2001 to check feasibility of establishing a fenced area around OD-2 at the Ravenna Army Ammunition Plant in Ravenna, Ohio. Tom Knapp and myself utilizing the Schonstedt GA-52Cx magnetometers and the Garmin Vista GPS personal navigator conducted the survey. Mark Patterson, Environmental Coordinator, Ravenna Army Ammunition Plant, established perimeter guidelines for the survey to be performed.

2. This survey was performed in four sections. The following information is submitted by section:

A. Section 1: South Side - Southwest Corner to Southeast Corner. There were no transects required off this line. Anomaly contacts were isolated and construction of a fence along this designated line should not be a problem utilizing Anomaly Avoidance. 75mm and 105mm projectile halves, 20mm projectiles (burnt out), and miscellaneous fragment pieces were located during this survey for this section.

B. Section 2: East Side - Southeast Corner to Northeast Corner. This line is so heavily saturated with anomalies that fence construction would not be possible on this line. A total of seven transects were conducted off this line. These transects were taken out to an area that would allow a fence to be constructed utilizing anomaly avoidance. Transect line Way Points and Lat/Long's are found in Attachment (A). 75mm and 105mm projectile halves, fuzes, and miscellaneous fragment pieces were located during this survey for this section.

C. Section 3: North Side - Northeast Corner to Northwest Corner. This line is also heavily saturated with anomalies. Fence construction would not be possible on this line. Transect lines were ran out to the firebreak, which demonstrated a clear area of anomalies. Transect line Way Points and Lat/Long's are found in Attachment (A). 75mm, 105mm projectile halves, rifle grenade flares (empty), assorted fuze bodies and pieces, and miscellaneous fragment pieces were located during this survey for this section.

D. Section 4: West Side - Northwest Corner to Southwest Corner. This line is also heavily saturated with anomalies. Anomalies did subside as we approached the creek, but escalated on the southern side of the creek. This increase in anomalies was

evidenced by the presence of several depressions on the southern side of the creek, which are consistent with demolition points. Most of the anomalies found on this line were sub-surface. Transect line Way Points and Lat/Long's are located in Attachment (A). A 90mm casing was located on the surface (empty), ammunition cans and miscellaneous fragment pieces were located during this survey for this section. The southwest corner did not produce any anomalies.

3. A diagram of Way Points is submitted as Attachment (2). This diagram consists of Corner Way Points along with the Transect Lines. The corner way points were established by Mark Patterson and were used as the guidelines for this survey. The transect lines are approximately 100 feet apart and in sequential order starting from the southeast corner to the southwest corner. Operations were conducted in a counter-clockwise direction from the southeast corner. No live OE was discovered on the surface during this survey.

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<u>Way Points</u>	<u>Lat/Long's</u>
Mid Road (South) - 7	41 11 37.4N 81 05 45.7W
Southeast Corner - 8	41 11 40.5N 81 05 34.1W
Creek (East Line/South Side) - 2	41 11 43.5N 81 05 33.4W
Northeast Corner - 3	41 11 51.2N 81 05 36W
Northwest Corner - 4	41 11 55.6N 81 05 49W
Midway Southwest - 5	41 11 46.8N 81 05 52.8W
Southwest Corner - 6	41 11 39.1N 81 05 53.7W

Transects off East Line

9	41 11 44.7N 81 05 27.4W
10	41 11 48.9N 81 05 29.5W
11	41 11 47N 81 05 27.4
12	41 11 47.9N 81 05 25.9W
13	41 11 48.7N 81 05 28.7
14	41 11 48.9N 81 05 28.8
15	41 11 52.5N 81 05 31.9W

Transects off North Line

16	41 11 53.4N 81 05 36.7W
17	41 11 53N 81 05 38.8W
18	41 11 55.9N 81 05 40.9W
19	41 11 57.1N 81 05 42.7W
20	41 11 56.5N 81 05 45W
21	41 11 57N 81 05 46.1W
22	41 11 56.5N 81 05 47.4W
23	41 11 56.7N 81 05 50.2W

Transects off West Line

24	41 11 55.8N 81 05 53.5W
25	41 11 54.6N 81 05 54.1W
26	41 11 51.9N 81 05 53.3W
27	41 11 50.7N 81 05 55.8W
28	41 11 50.4N 81 05 56.2W
29	41 11 49N 81 05 52.9W
30	41 11 49.2N 81 05 57.8W
31	41 11 45.1N 81 05 51.3W
32	41 11 44N 81 05 56.9W
33	41 11 42.1N 81 05 54.6W
34	41 11 42.1N 81 05 58.3W