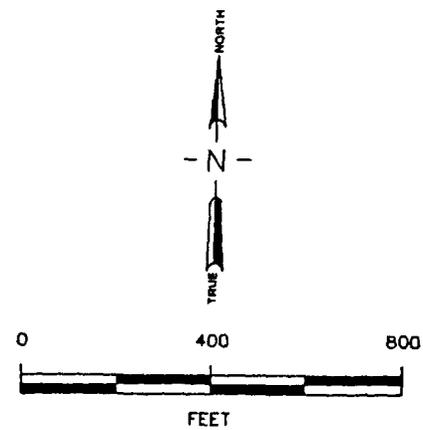


*provided by Dr. Chuck  
 Bennett, MCAS EL TORO  
 RAB Subcommittee Chair,  
 at 5/31/00 RAB Meeting*



<b>Remedial Investigation</b> <b>Figure 4-2</b> <b>Surface Geophysical Results</b> <b>Site 2 - Magazine Road Landfill</b>	
<b>MCAS, El Toro, California</b>	
 <b>Bechtel National, Inc.</b> <b>CLEAN II Program</b>	Date: 3/8/96 File No: Job No: 22214-076 Rev No: A

## Section 4 Nature and Extent of Contamination

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as two trench-like features that merge at the south end to form a continuous anomalous zone. This increase in size with depth suggests relatively deep burial with minimal near-surface debris.

Zone E is defined by EM-34 (10-meter) contours as a group of high-TC contour closures that are aligned along a general east-west trend. The size and magnitude of the anomalous zone decreases with depth as shown by the EM-34 (10-meter) and EM-34 (20-meter) contours. This zone could be interpreted as metallic debris buried at relatively shallow depths.

\* Zone F is a high-TC anomaly with approximately the same size and magnitude by all three EM contours. The nearly circular symmetry and vertical continuity of this anomaly suggests a relatively deep pit containing metallic debris. Alternatively, it could be caused by a steel well casing.

\* Zone G is a high-conductivity anomaly that is resolved only by the contours from the EM-34 (20-meter) contour. This suggests a deeply buried metal object.

### 4.1.3 Trenching

Trenching was used to evaluate geophysical anomalies, areas of surface wastes, or obscure boundaries of exposed wastes, as discussed in Section 2.4. Twelve trenches were completed (Figure 4-3). The length and presence of landfill wastes is summarized in Table 4-2. Trench logs are included in Appendix D.

Trench 02TR01 bisected a large geophysical anomaly along the northwestern border of the Site 2 study area. The excavated material in 02TR01 consisted of highly conductive moist clays and silts.

Trench 02TR02 was in the upper west fork of the Borrego Canyon Wash. No waste was encountered in this trench, only native soils consisting of silts and sands.

Trench 02TR03 was in the man-made channel in the central portion of the landfill. The excavated material in trench 02TR03 consisted of pieces of wood, plastic, corrugated metal sheeting, and glass.

Trenches 02TR04, 02TR09, and 02TR10 were advanced to evaluate whether landfill material existed beneath the lower reach of the Borrego Canyon Wash. At the locations of these trenches, landfill waste was exposed in the stream bank where geophysical anomalies had been identified. Trench 02TR04 contained large (approximately 3 feet in diameter) pieces of concrete and asphalt at approximately 3 feet bgs beneath the wash. Trenches 02TR09 and 02TR10 contained surficial waste adjacent to the stream bank. No waste was encountered beneath the wash in trenches 02TR09 and 02TR10.

Trenches 02TR05, 02TR06, and 02TR12 were located on the banks of the Borrego Canyon Wash to evaluate the boundary of the waste identified in trench 02TR04. Trench 02TR05 had waste along most of its length, and the other two trenches had waste exposed just above the wash.