

Tables

Table 5-1

Digital Geophysical Mapping Quality Control Tests

Test	Acceptance Criteria	Frequency of Testing			
		Start of Day	Start & End of Day	First Day of Project Only	Equipment Change
Equipment Warm-up	Equipment Specific - typically 5 minutes	X			
Record Sensor Position	+/- 1 inch	X			X
Personnel Test	EM: 2 mV Mag: 1 nT	X			X
Vibration Test (Cable Shake)	Data spiking not evident in profile	X			X
Static Background Test	EM: 2.5 mV Mag: 1 nT		X		X
Static Spike Test	+/- 20% of standard response after background correction		X		X
Azimuthal Test (magnetics only)	Sensor orientation minimizes drop outs			X	
Height Optimization (magnetics only)	Maximum S/N that reliably detects smallest target objective			X	
6 Line Test	Repeatability of response amplitude +/- 20%, Positional accuracy +/- 0.5 foot			X	X
Octant Test (magnetics only)	Document heading error for post-processing correction			X	X
2 Line Repeat Data	Repeatability of response amplitude +/- 20%, Positional accuracy +/- 0.5 foot		X		

EM = Electromagnetic.

nT = nanoTeslas.

Mag = Magnetic.

mV = Millivolts.

S/N = Signal to noise ratio.

Table 5-2

Location and Description of Items Buried in Known Grids 1 and 2
 Ordnance Detection and Discrimination Study
 Fort Ord, California

Anomaly Number	Coordinates		Depth (inches)	Orientation2		Grid	Description
	Northing	Eastings		Azimuth	Inclination		
623	2115057.48	5744617.31	0	N/A1	N/A	K1	Empty Hole
622	2115063.4	5744647.8	0	N/A	N/A	K1	Empty Hole
621	2115075.53	5744641.42	0	N/A	N/A	K1	Empty Hole
620	2115080.32	5744670.99	0	N/A	N/A	K1	Empty Hole
619	2115066.58	5744662.84	0	N/A	N/A	K1	Empty Hole
618	2115051.06	5744664.27	0	N/A	N/A	K1	Empty Hole
617	2115048.67	5744651.26	0	N/A	N/A	K1	Empty Hole
616	2115037.59	5744650.5	24	vertical	Nose down	K1	Projectile, 35mm, Practice, Sub-caliber, M73
615	2115031.14	5744669.66	6	horizontal	225	K1	Signals, Illumination, M125, M126, M127
614	2115033.83	5744687.03	12	vertical	Nose Up	K1	Signals, Illumination, M125, M126, M127
613	2115019.22	5744678.62	24	horizontal	South	K1	Projectile, 2.36mm, Practice, M7 Series
612	2115013.59	5744666.63	12	horizontal	East	K1	Signals, Illumination, M125, M126, M127
611	2114995.88	5744669.3	6	vertical		K1	Signals, Illumination, M125, M126, M127
610	2115016.53	5744652.25	6	horizontal	West	K1	Grenade Hand, MK-2, Practice
609	2115006.58	5744649.83	12	horizontal	North	K1	Grenade Hand, MK-2, Practice
608	2114994.08	5744639.38	18	vertical		K1	Projectile, 35mm, Practice, Sub-caliber, M73
607	2115010.04	5744632.96	12	vertical	Nose down	K1	Projectile, 35mm, Practice, Sub-caliber, M73
606	2115030.89	5744638.67	6	vertical	Nose up	K1	Projectile, 35mm, Practice, Sub-caliber, M73
605	2115015.01	5744624.09	18	horizontal	315	K1	Projectile, 35mm, Practice, Sub-caliber, M73
604	2115000.16	5744620.38	24	horizontal	135	K1	Projectile, 35mm, Practice, Sub-caliber, M73
603	2114997.94	5744611.47	6	horizontal	North	K1	Projectile, 35mm, Practice, Sub-caliber, M73
602	2115014.72	5744606.41	18	vertical		K1	Projectile, 2.36mm, Practice, M7 Series, Head Only
601	2115025.29	5744609.51	18	horizontal	East	K1	Grenade, Rifle, AT, Practice, M9, Head Only
600	2115032.48	5744620.46	12	horizontal	South	K1	Projectile, 35mm, Practice, Sub-caliber, M73
599	2115036.09	5744586.37	12			K1	Fragment
598	2115019.61	5744586.54	12	horizontal	East	K1	Fragment
597	2115007.54	5744589.36	6	vertical		K1	Fragment
596	2114994.1	5744567.49	12	horizontal	North	K1	Fragment
595	2115010.9	5744568.75	6			K1	Fragment
594	2115030.91	5744565.39	24	vertical		K1	Projectile, 2.36mm, Practice, M7 Series
593	2115038.11	5744548.62	24	vertical		K1	Projectile, 35mm, Practice, Sub-caliber, M73
592	2115020.43	5744547.85	12	horizontal	West	K1	Projectile, 35mm, Practice, Sub-caliber, M73
591	2115006.79	5744546.36	24	horizontal	South	K1	Projectile, 35mm, Practice, Sub-caliber, M73
590	2114996.36	5744529.84	18	vertical		K1	Projectile, 35mm, Practice, Sub-caliber, M73
589	2115016.72	5744528.64	12	horizontal	North	K1	Signals, Illumination, M125, M126, M127
588	2115027.32	5744528.72	12	vertical		K1	Signals, Illumination, M125, M126, M127
587	2115016.55	5744508.51	12	vertical		K1	Grenade Hand, MK-2, Practice
586	2115001.75	5744680.51	24	vertical	Nose down	K1	Projectile, 2.36mm, Practice, M7 Series

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Location and Description of Items Buried in Known Grids 1 and 2
 Ordnance Detection and Discrimination Study
 Fort Ord, California

Anomaly Number	Coordinates		Depth (inches)	Orientation2	Inclination	Grid	Description
	Northing	Eastings					
585	2114950.59	5744650.66	36	horizontal	103	K2	Projectile, 3 inch, Stokes Mortar
584	2114934	5744649.52	24	vertical		K2	Projectile, 37mm, AP-T, M-51
583	2114937.96	5744672.97	24	horizontal	West	K2	Projectile, 37mm, AP-T, M-51
582	2114914.59	5744672.17	48	vertical		K2	Projectile, 105mm, Smoke
581	2114898.24	5744674.56	12	horizontal	North	K2	Fragment
580	2114887.63	5744660.41	24	vertical		K2	Projectile, 25mm
579	2114875.3	5744681.41	12	horizontal	135	K2	Fragment
578	2114865.78	5744653.31	6	vertical		K2	Fragment
577	2114879.99	5744638.56	40	vertical		K2	Projectile, 3 inch, Stokes Mortar
576	2114876.68	5744619.17	6	horizontal	47	K2	Signals, Illumination, M125, M126, M127
575	2114894.91	5744618.87	12	vertical		K2	Projectile, 35mm, Practice, Sub-caliber, M73
574	2114904	5744635.94	12	horizontal	238	K2	Signals, Illumination, M125, M126, M127
573	2114925.05	5744625.18	40	vertical		K2	Projectile, 3 inch, Stokes Mortar
572	2114943.29	5744620.98	36	horizontal		K2	Projectile, 75mm, Shrapnel, MK I, Cases Only
571	2114942.75	5744595.88	36	vertical	Nose down	K2	Projectile, 81mm, Mortar, Target Practice, M43
570	2114926.12	5744585.42	30	horizontal	East	K2	Projectile, 90mm
569	2114900.53	5744585.42	12			K2	Fragment
568	2114883.08	5744578.45	12	vertical		K2	Fragment
567	2114864.67	5744581.97	6			K2	Fragment
566	2114872.57	5744571.47	12			K2	Fragment
565	2114884.68	5744566.67	6	horizontal		K2	Fragment
564	2114879.09	5744555.03	30	horizontal	North	K2	Projectile, 75mm, Shrapnel, MK I, Cases Only
563	2114868.7	5744538.77	18	vertical	Nose down	K2	Projectile, 37mm, AP-T, M-51
562	2114883.2	5744539.36	48	horizontal	North	K2	Projectile, 105mm, Smoke
561	2114890.94	5744552.78	36	horizontal	West	K2	Illumination, 81mm, Mortar, Target Practice, M43
560	2114898.98	5744537.53	12	vertical	Nose down	K2	Signals, Illumination, M125, M126, M127
559	2114906.89	5744552.54	24	vertical	Nose down	K2	Projectile, 35mm, Practice, Sub-caliber, M73
558	2114906.09	5744567.63	24	vertical	Nose down	K2	Projectile, 2.36mm, Practice, M7 Series
557	2114943.98	5744568.97	30	vertical	Nose down	K2	Projectile, 90mm
556	2114934.68	5744548.26	18	vertical	Nose down	K2	Projectile, 25mm
555	2114939.37	5744525.11	18	horizontal		K2	Projectile, 25mm
554	2114901.67	5744521.83	24	vertical	Nose down	K2	Projectile, 2.36mm, Practice, M7 Series
553	2114889.95	5744524.19	24	vertical	Nose down	K2	Projectile, 35mm, Practice, Sub-caliber, M73
552	2114874.29	5744526.85	12	vertical	Nose down	K2	Grenade Hand, MK-2, Practice
1 - N/A - Not Applicable							
2 - Refers to the inclination of the OE Item. "Horizontal, Nose Down" refers to a horizontal OE Item with nose pointing to the north.							

Table 6-1

DGM QC Frequency and Acceptance Criteria
DGM QC Tests

Test	Acceptance Criteria	Frequency of Testing			
		Start of Day	Start and End of Day	First Day of Project Only	Equipment Change
Equipment Warm-up	Equipment Specific - typically 5 minutes	X			
Record Sensor Position	±1 inch	X			X
Personnel Test	EM: 2 mVp-p Mag: 1 nT p-p	X			X
Vibration Test (cable shake)	Data spiking not evident in profile	X			X
Static Background Test	EM: 2.5 mVp-p Mag: 1 nT p-p		X		X
Static Spike Test	±20% of standard response after background correction		X		X
Azimuthal Test (magnetics only)	Sensor orientation minimizes drop outs			X	
Height Optimization (magnetics only)	Maximum S/N ratio that reliably detects smallest target objective			X	
Six-Line Test	Repeatability of response amplitude ±20%, Positional accuracy ±0.5 foot			X	X
Octant Test (magnetics only)	Document heading error for post-processing correction			X	X
Two-Line Repeat Data	Repeatability of response amplitude ±20%, Positional accuracy ±0.5 foot		X		