

1 DELIVERABLES

1.1 Electromagnetic data

Draft Electromagnetic Data		
Co-ordinates: GDA94/MGA52		
File name	*.xyz	
Format	Geosoft GDB / ASEG-GDF2	
Columns	Name	Description
	Fid	Fiducial [sec]
	Line	Line number
	Flight	Flight number
	DateTime	Decimal days since midnight, December 31st, 1899
	Date	Date – GMT (yyyymmdd)
	Time	Time – GMT (hhmmss.s)
	AngleX	Tilt of frame from horizontal in flight direction [degrees]
	AngleY	Tilt of frame from horizontal perpendicular to flight direction [degrees]
	Height	Laser altitude of Tx loop centre (average of lasers 1 and 2) [metres]
	DTM_AHD	Digital terrain model: (moved to AUSGeoid09) [metres]
	Lon	Longitude (WGS84)
	Lat	Latitude (WGS84)
	E	Easting (GDA94 MGA zone 52) [metres]
	N	Northing (GDA94 MGA zone 52) [metres]
	DTM_AHD	Digital terrain model: (moved to AUSGeoid09) [metres]
	Alt	GPS Elevation of Tx loop centre: (GRS80) [metres]
	GdSpeed	Ground speed [km/hr]
	Curr_2	Low Moment Peak transmitter current [Amperes]
	Curr_1	High Moment Peak transmitter current (Amperes)
	MA1	Raw magnetic field (nT)
	PLNI	Power line noise indicator. (no units)
	LM_Z_[0] – LM_Z_[25]	dBz/dt, Low Moment Z Channels 9 – 26, [pV/(A.turns.m4)] NOTE THE FIRST 8 CHANNELS ARE NULL
	HM_Z_[0] – LM_Z_[37]	dBx/dt, High Moment Z Channels 16 – 38, [pV/(A.turns.m4)] NOTE THE FIRST 15 CHANNELS ARE NULL
	LM_X_[0] – LM_X_[25]	dBz/dt, Low Moment X Channels 9 – 26, [pV/(A.turns.m4)] NOTE THE FIRST 8 CHANNELS ARE NULL
	HM_X_[0] – LM_X_[37]	dBx/dt, High Moment X Channels 16 – 38, [pV/(A.turns.m4)] NOTE THE FIRST 15 CHANNELS ARE NULL
	RUNC_LM_Z_[0] – [25]	Relative uncertainty for, Low Moment Z Channels 9 – 26, NOTE THE FIRST 8 CHANNELS ARE NULL

Draft Electromagnetic Data		
Co-ordinates: GDA94/MGA52		
	RUNC_HM_Z_ [0] – [37]	Relative uncertainty for, High Moment Z Channels 16 – 38, NOTE THE FIRST 15 CHANNELS ARE NULL
	RUNC_LM_X_ [0] – [25]	Relative uncertainty for, Low Moment X Channels 9 – 26, NOTE THE FIRST 8 CHANNELS ARE NULL
	RUNC_HM_X_ [0] – [37]	Relative uncertainty for, High Moment X Channels 16 – 38, NOTE THE FIRST 15 CHANNELS ARE NULL

1.2 Gate Times

SkyTEM³¹² LM channel times

Window	LM Gate No.	Width (us)	Open (us)	Centre (us)	Close (us)
1.000	9	3.57	14.63	16.415	18.2
2.000	10	4.57	18.63	20.915	23.2
3.000	11	5.57	23.63	26.415	29.2
4.000	12	7.57	29.63	33.415	37.2
5.000	13	9.57	37.63	42.415	47.2
6.000	14	12.57	47.63	53.915	60.2
7.000	15	15.57	60.63	68.415	76.2
8.000	16	19.57	76.63	86.415	96.2
9.000	17	24.57	96.63	108.915	121.2
10.000	18	30.57	121.63	136.915	152.2
11.000	19	39.57	152.63	172.415	192.2
12.000	20	50.57	192.63	217.915	243.2
13.000	21	62.57	243.63	274.915	306.2
14.000	22	80.57	306.63	346.915	387.2
15.000	23	100.57	387.63	437.915	488.2
16.000	24	126.57	488.63	551.915	615.2
17.000	25	160.57	615.63	695.915	776.2
18.000	26	201.57	776.63	877.415	978.2

SkyTEM³¹² HM channel times

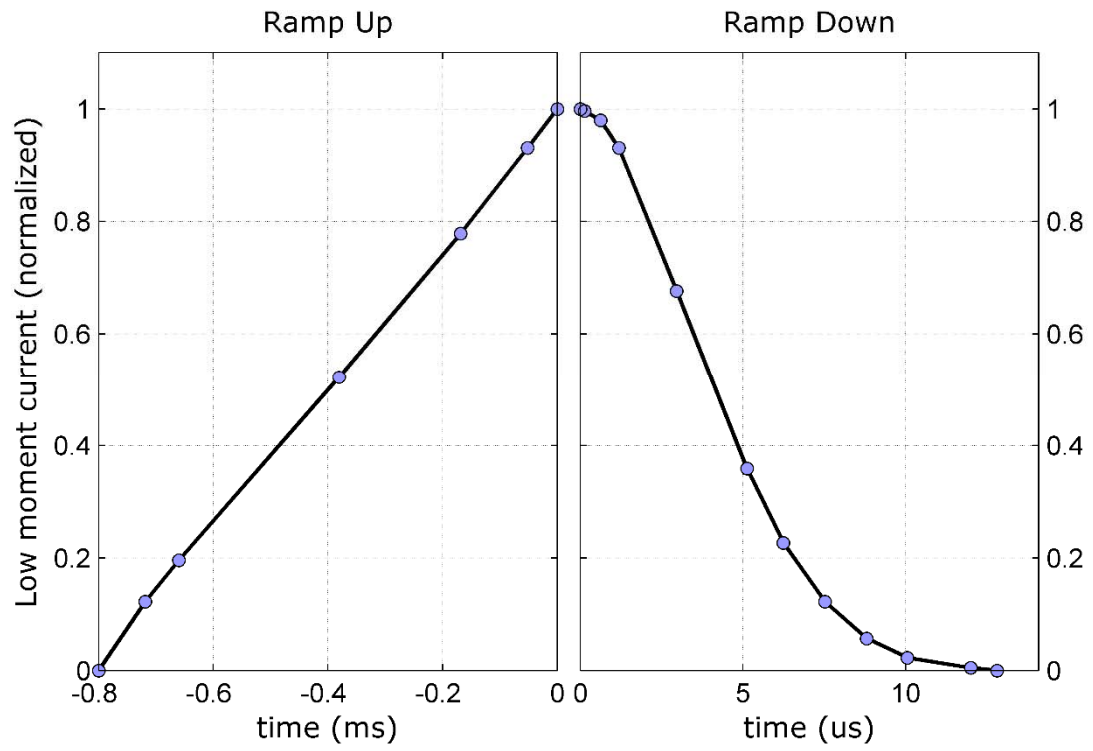
Window	HM Gate No.	Width (us)	Open (us)	Centre (us)	Close (us)
1	16	19.570	426.63	436.415	446.20
2	17	24.570	446.63	458.915	471.20
3	18	30.570	471.63	486.915	502.20
4	19	39.570	502.63	522.415	542.20
5	20	50.570	542.63	567.915	593.20
6	21	62.570	593.63	624.915	656.20
7	22	80.570	656.63	696.915	737.20
8	23	100.570	737.63	787.915	838.20
9	24	126.570	838.63	901.915	965.20
10	25	160.570	965.63	1045.915	1126.20
11	26	201.570	1126.63	1227.415	1328.20
12	27	254.570	1328.63	1455.915	1583.20
13	28	321.570	1583.63	1744.415	1905.20
14	29	405.570	1905.63	2108.415	2311.20
15	30	510.570	2311.63	2566.915	2822.20
16	31	645.570	2822.63	3145.415	3468.20
17	32	791.570	3468.63	3864.415	4260.20
18	33	967.570	4260.63	4744.415	5228.20
19	34	1184.570	5228.63	5820.915	6413.20
20	35	1451.570	6413.63	7139.415	7865.20
21	36	1775.570	7865.63	8753.415	9641.20
22	37	2179.570	9641.63	10731.415	11821.20
23	38	2669.570	11821.63	13156.415	14491.20



1.3 Current Waveforms

1.3.1 Low Moment

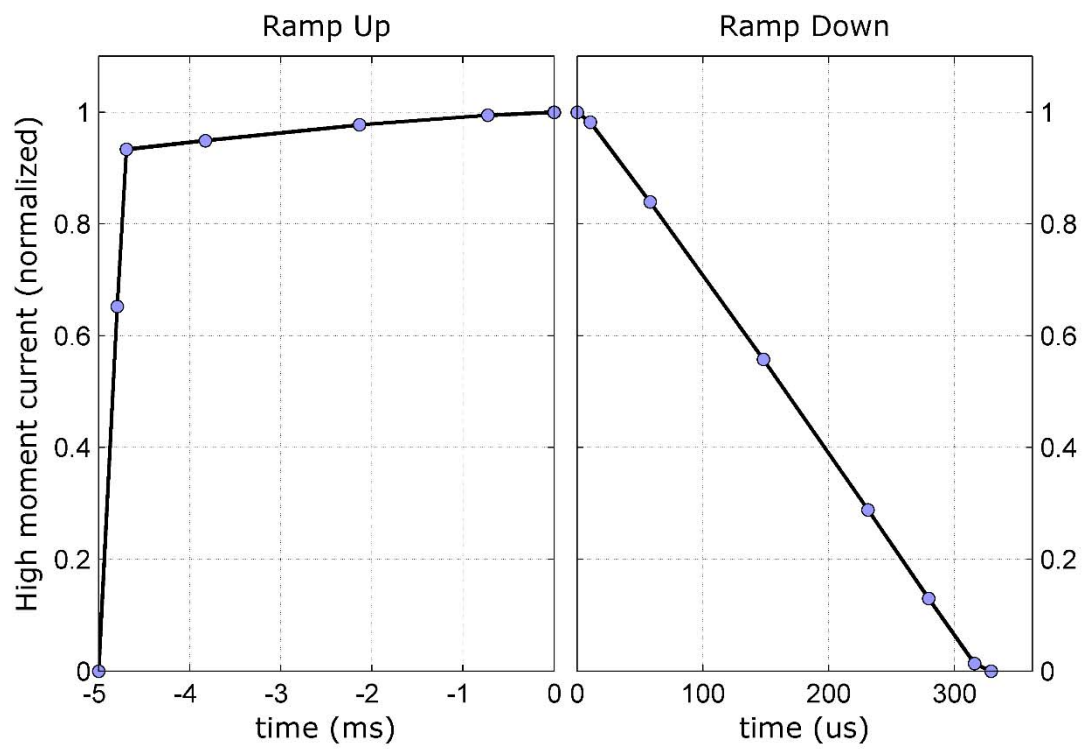
Time (sec)	Amplitude (Normalized)
-8.0000E-04	0.0000E+00
-7.1847E-04	1.2266E-01
-6.5990E-04	1.9609E-01
-3.8062E-04	5.2228E-01
-1.6838E-04	7.7866E-01
-5.1442E-05	9.3110E-01
0.0000E+00	1.0000E+00
1.2800E-07	9.9627E-01
6.2400E-07	9.7994E-01
1.1840E-06	9.3093E-01
2.9600E-06	6.7610E-01
5.1200E-06	3.5920E-01
6.2400E-06	2.2688E-01
7.5200E-06	1.2234E-01
8.8000E-06	5.6996E-02
1.0048E-05	2.2692E-02
1.2000E-05	4.7230E-03
1.2800E-05	0.0000E+00
1.0182E-03	0.0000E+00





1.3.2 High Moment

Time (sec)	Amplitude (Normalized)
-5.00000E-03	0.00000E+00
-4.79532E-03	6.52344E-01
-4.69386E-03	9.33594E-01
-3.82897E-03	9.49219E-01
-2.13784E-03	9.77344E-01
-7.26966E-04	9.94531E-01
-2.19939E-06	1.00000E+00
1.04316E-05	9.81961E-01
5.79841E-05	8.39282E-01
1.48063E-04	5.57539E-01
2.31183E-04	2.88357E-01
2.79509E-04	1.29935E-01
3.15850E-04	1.35143E-02
3.28993E-04	0.00000E+00
1.50000E-02	0.00000E+00



1.4 Conductivity data

HayesCk_WB_MGA52

Geosoft (.gdb) & ASCII (xyx) NULL=-1e32

FIELD	CHANNEL	DESCRIPTION	UNITS
1	Fiducial	Fiducial Number	s
2	DateTime	Decimal Days since midnight 31/12/1899	days
3	Line	Line number	
4	Easting	Easting (GDA94 MGA Zone 52)	m
5	Northing	Northing (GDA94 MGA Zone 52)	m
6	DTM_AHD	Digital terrain model (Australian Height Datum)	m
7	RESI1	Residual of the data	
8	HEIGHT	Laser altimeter measured height of the Tx loop centre above ground	m
9	INVHEIGHT	Calculated inversion height of the Tx loop centre above ground	m
10	DOI	Estimated Depth of investigation, below ground level	m
11:40	Elev	Elevation to the top of the layer	m
41:70	Con	Conductivity of the layer	mS/m
71:100	Con_doi	Conductivity of the layer masked to the depth of investigation	mS/m
101:130	RUnc	Calculated relative uncertainty of the layer conductivity	