

T.Z. Sawyer Technical Consultants

5272 River Road, Suite 460 Bethesda, MD 20816-1440

Station: _____ NonDA Rad: _____

Frequency: _____ Day Std Rad: _____

City: _____ Night Std Rad: _____

State: _____ Day Meas Rad: _____

Inverse Field @ KM or MI: _____ Night Meas Rad: _____

FIELD STRENGTH SURVEY DATA

RADIAL: _____ PAGE _____ OF _____

Meas. Code (Enter # Column)	1	2	3	4	5	6
Date of Measurement						
Measurer (who?)						
Meter Serial Number						
WX - Temp. (Deg. F.)						
WX- Grd Cond. (soil, etc.)*						

* WX Grd. Cond. =
Wet, Dry, Normal, Snow etc.

Note: All Times are LOCAL (2400 HRS. Format) - All F.S. Values in mV/m UNLESS otherwise noted.

Distances
Are In: _____

POINT	DIST.	DESCRIPTION: ROUTING AND LOCATION OF POINT (GENERAL) LANDMARK OR OTHER DETAILS TO MARK POINT	GPS INFO (IF Available)	NON-DA			DA-DAY			DA-NIGHT		
				#	TIME	F.S.	#	TIME	F.S.	#	TIME	F.S.
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									
			Lat: _____ Lon: _____									

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AM FIELD INTENSITY MEASUREMENTS DATA SHEETS

PLEASE READ THESE INSTRUCTIONS CAREFULLY

It is important that you accurately record the measurement data on the data sheets in a legible manner.

FILLING OUT THE FORM

<u>Form Item #</u>	<u>Purpose - Required Data/Example data</u>
1	The radial azimuth in true north degrees, normally provided by us on the form. Example. 92.5, 105.1, 210.0
2	Page number of the form for this radial.
3	Total pages (forms) used for this radial.
4	Normally provided by us, but if not the station call letters, i.e. WLQV
5	Normally provided by us, but if not the station frequency, i.e. 1500 KHZ
6	Normally provided by us, but if not the station city of license, i.e. Detroit
7	Normally provided by us, but if not the station state, i.e. MI
8	This data is not used in the field and will be computed by us in the report.
9	Date of measurement code block (see item 22) - A measurement code block is filled out for each day that measurements are made on the radial. <u>Each day only not for each point.</u>
10	Measured by who? Your Initials are fine, i.e., TZS
11	Meter Serial Number: i.e. 1253
12	WX - Temperature at the start of the day, i.e. 78
13	WX - Ground Conditions, i.e. Snow, dry, wet, rain, normal
15-18	Repeat measurement code block information for each day as needed.

AM FIELD INTENSITY MEASUREMENTS DATA SHEETS

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Page 2 of 6

It is important that you accurately record the measurement data on the data sheets in a legible manner.

FILLING OUT THE FORM

Form Item #	Purpose - Required Data/Example data
19	Point Number, enter the number of the point, must match map number, i.e. 1, 5 ,22A -- it doesn't matter to us as long as it matches the map number and can be in any order - we will probably renumber it here in the office anyway.
Skip	DIST. as indicated above in item 8 this number is usually determined by us upon return of the maps.
20	Point Description: Top line use as a general description, i.e."route 28 0.4 miles west of highland road." Bottom line is the detail location, i.e." in front of house #2514, in-line with front door, west side of road."
21	GPS coordinates in NAD 83 datum if available.
NON-DA	THIS IS THE MEASUREMENT COLUMN FOR THE NONDIRECTIONAL MEASUREMENTS FOR THIS RADIAL
22	# Measurement Code, i.e. enter 1,2,3,4,5, or 6 to match this up with date of measurement code block at top of data sheet. This is the date that you measured this point.
23	TIME, enter the time of the measurement in local time using the 24-hour clock, i.e. 3:10 PM is 1510, 9:03 AM is 0903 – no colons are necessary.
24	F.S. enter the measured field strength value in mV/m, i.e. 1.12 Volts is 1120 and 110 uV is 0.11 (see companion document AM Measurement Instructions for more details if not sure about what is needed here.)

AM FIELD INTENSITY MEASUREMENTS DATA SHEETS

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Page 3 of 6

It is important that you accurately record the measurement data on the data sheets in a legible manner.

FILLING OUT THE FORM

Form

Item #Purpose - Required Data/Example data

DA-DAY

THIS IS THE MEASUREMENT COLUMN FOR THE DAYTIME DIRECTIONAL MEASUREMENTS FOR THIS RADIAL.

IF THE RADIAL IS NOT TO BE MEASURED IN THIS MODE YOU LEAVE THIS COLUMN BLANK

25

Measurement Code, i.e. enter 1,2,3,4,5, or 6 to match this up with date of measurement code block at top of data sheet. This is the date that you measured this point.

26

TIME, enter the time of the measurement in local time using the 24-hour clock, i.e. 3:10 pm is 1510, 9:03 AM is 0903

27

F.S. enter the measured field strength value in mV/m, i.e. 1.1 Volts is 1100 and 100 μ V is 0.1 (see companion document am measurement instructions for more details if not sure about what is needed here.)

DA-NIGHT

THIS IS THE MEASUREMENT COLUMN FOR THE NIGHTTIME DIRECTIONAL MEASUREMENTS FOR THIS RADIAL.

IF THE RADIAL IS NOT TO BE MEASURED IN THIS MODE YOU LEAVE THIS COLUMN BLANK

28

Measurement Code, i.e. enter 1,2,3,4,5, or 6 to match this up with date of measurement code block at top of data sheet. This is the date that you measured this point.

29

TIME, enter the time of the measurement in local time using the 24-hour clock, i.e. 3:10 pm is 1510, 9:03 AM is 0903

30

F.S. enter the measured field strength value in mV/m, i.e. 1.1 Volts is 1100 and 100 μ V is 0.1 (see companion document am measurement instructions for more details if not sure about what is needed here.)

AM FIELD INTENSITY MEASUREMENTS DATA SHEETS

PLEASE READ THESE INSTRUCTIONS CAREFULLY

Page 4 of 6

For each point, items 19 to 30 are repeated as necessary. Each form allows for 10 points per form (page) to be entered over a maximum of 6 days. Typically each radial will require 3 or more data (form) sheets.

As always, call us if you have any questions concerning the measurement form or the procedures required.

An example form is provided.

On the example form (attached) the nondirectional measurements were made on 1/10/02, the daytime directional measurements were made on 1/14/02 and the nighttime directional measurements were made on 1/12/02. The example is given so that you clearly understand how the measurement code boxes work.

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Station: _____ (4) NonDA Rad: _____ (8)

Frequency: _____ (5) Day Std Rad: _____ (8)

City: _____ (6) Night Std Rad: _____ (8)

State: _____ (7) Day Meas Rad: _____ (8)

Inverse Field @ KM or MI: KM Night Meas Rad: _____ (8)

FIELD STRENGTH SURVEY DATA

RADIAL: (1) PAGE (2) OF (3)

Meas. Code (Enter # Column)	1	2	3	4	5	6
Date of Measurement	(9)	(14)	(15)	(16)	(17)	(18)
Measurer (who?)	(10)					
Meter Serial Number	(11)					
WX - Temp. (Deg. F.)	(12)					
WX- Grd Cond. (soil, etc.)*	(13)					

* WX Grd. Cond. =
Wet, Dry, Normal, Snow etc.

Note: All Times are LOCAL (2400 HRS. Format) - All F.S. Values in mV/m UNLESS otherwise noted.

Distances Are In: <u> KM </u>		DESCRIPTION: _____ ROUTING AND LOCATION OF POINT (GENERAL) LANDMARK OR OTHER DETAILS TO MARK POINT	GPS INFO (IF Available)	NON-DA			DA-DAY			DA-NIGHT		
POINT	DIST.			#	TIME	F.S.	#	TIME	F.S.	#	TIME	F.S.
(19)	(8)	(20)	Lat: (21) Lon:	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									
			Lat: Lon:									

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Station: WTNY NonDA Rad: 185

Frequency: 790 Day Std Rad: 195.2

City: WATERTOWN Night Std Rad: 386.3

State: NY Day Meas Rad: 188.5

Inverse Field @ KM or MI: KM Night Meas Rad: 343.0

FIELD STRENGTH SURVEY DATA

RADIAL: 35.2 PAGE 1 OF 2

Meas. Code (Enter # Column)	1	2	3	4	5	6
Date of Measurement	01-10-03	01-12-03	01-14-03			
Measurer (who?)	MRG	TZS	TZS			
Meter Serial Number	145	660	660			
WX - Temp. (Deg. F.)	48	48	48			
WX- Grd Cond. (soil, etc.)*	DRY	DRY	NORMAL			

* WX Grd. Cond. =
Wet, Dry, Normal, Snow etc.

Note: All Times are LOCAL (2400 HRS. Format) - All F.S. Values in mV/m UNLESS otherwise noted.

Distances Are In: <u>KM</u>		DESCRIPTION: ROUTING AND LOCATION OF POINT (GENERAL) LANDMARK OR OTHER DETAILS TO MARK POINT	GPS INFO (IF Available)	NON-DA			DA-DAY			DA-NIGHT		
POINT	DIST.			#	TIME	F.S.	#	TIME	F.S.	#	TIME	F.S.
13	1.98	INTERSECT PADDOCK AND MASSEY (NEAR RESERVE CENTER) IN FRONT OF YELLOW GARAGE	Lat: 43 58 09.1 75 55 34.9 Lon:	1	1408	66.0	3	0911	72.0	2	1048	145
14	2.22	W. MULLIN STREET IN FRONT OF 412/414 ON W. MULLIN STREET	Lat: 43 58 19.6 75 55 19.5 Lon:	1	1402	63.0	3	0915	62.0	2	1052	122
15	2.45	SIDEWALK HOUSE 401/403 (WHITE) NOT MARKED, MIDDLE OF 3RD WINDOW FROM LEFT	Lat: 43 58 31.0 75 55 11.5 Lon:	1	1356	53.0	3	0951	58.5	2	1056	83.0
18	3.12	WEST LYNDE STREET, IN FRONT OF #365 TAN HOUSE	Lat: 43 58 57.2 75 54 45.1 Lon:	1	1338	52.0	3	0958	42.1	2	1102	95.0
19	3.34	720 GRIFFIN STREET	Lat: 43 59 08.7 75 54 35.8 Lon:	1	1332	50.0	3	1010	12.5	2	1116	75.0
20	3.67	WEST DIVISION STREET, DEAD END - AT END OF PAVEMENT	Lat: 43 59 21.6 75 54 22.0 Lon:	1	1326	46.8	3	1015	9.80	2	1107	70.0
22	4.76	PLAZA ROAD WEST SIDE OF ROAD - MARKED	Lat: 43 59 53.7 75 53 48.3 Lon:	1	1338	32.5	3	1102	5.55	2	1125	65.0
23	5.58	PATTERSON ROAD CENTER OF ROAD - MARKED	Lat: 44 00 41.1 75 53 02.7 Lon:	1	1330	20.0	3	1215	2.80	2	1130	40.0
25	7.20	PLANK ROAD - WEST SIDE OF ROAD - MARKED	Lat: 44 01 49.2 75 51 55.7 Lon:	1	1320	15.0	3	1310	1.10	2	1143	29.5
26	7.91	NEAR MARKER 342-7301-1044, SR342 SOUTH SIDE OF ROAD - MARKED	Lat: 44 02 21.0 75 51 23.8 Lon:	1	1313	12.5	3	1418	0.75	3	1150	26.0

EXAMPLE FORM ONLY - SEE INSTRUCTIONS