

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 15

Bay City, MI

Channel Study

REFERENCE		CH# 206C2- 89.1 MHz, Pwr= 50 kW, HAAT=112.8M, COR= 296 M								DISPLAY DATES	
43 33 42 N.		Average Protected F(50-50)= 46.9 km								DATA	06-21-06
83 58 52 W.		Ave. F(50-10) 40 dBu= 132.6 54 dBu= 72.1 80 dBu= 16.9 100 dBu= 5.2								SEARCH	06-23-06
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
206B Bay City	WTRK	VAC MI	N 61.1 241.2	13.59	43 37 14 83 50 01	50.000 -180	0 115.0	26.5	-148.31*	-144.24*	
206C2 Bay City	WTRK.A	APP DCX MI	0.0 0.0	0.00 BPED20040331AVG	43 33 42 83 58 52	12.496 115	296 101.4	35.8 Educational Media Foundati	-148.53*	-168.60*	
206A Bay City	WTRK	LIC CN MI	75.4 255.5	10.11 BLED19930810KA	43 35 04 83 51 36	2.000 97	278 69.2	21.7 Beyond The Bay Media Group	-100.28*	-127.01*	
206A Imlay City	WWKM	LIC C MI	127.5 308.1	90.81 BLED20010108AAA	43 03 42 83 05 44	1.500 37	306 45.9	12.4 Michigan Community Radio	20.41	3.59	
206A Imlay City	WWKM.C	CP DEX MI	140.5 321.0	95.54 BPED20030508ACX	42 53 47 83 14 09	1.199 112	404 64.9	20.7 Michigan Community Radio	6.62	1.24	
206B1 Ypsilanti	WEMU	LIC DCN MI	168.6 348.8	147.12 BLED19920109KA	42 15 48 83 37 34	7.527 57	331 82.3	23.2 Eastern Michigan Universit	32.74	30.99	
205B Elkton	WJCE.C	CP DCX MI	105.4 286.4	117.29 BPED19990104MO	43 16 25 82 35 16	16.788 64	290 46.6	29.1 Csn International	40.25	41.39	
205A Flint	WAKL	LIC DVX MI	153.1 333.3	72.42 BLED20041102AEF	42 58 49 83 34 40	0.380 103	330 21.8	14.5 Educational Media Foundati	23.22	16.09	
207A Marlette	WMSQ.C	CP CN MI	106.1 286.7	79.83 BMPED20030508ACR	43 21 35 83 02 04	0.250 17	268 10.1	7.1 Great Lakes Community Broa	39.42	26.22	
207A Gaines	AP207	APP VX MI	175.1 355.2	80.18 BNPED20000218AAV	42 50 33 83 53 52	3.500 85	331 35.0	23.2 Pensacola Christian Colleg	11.05	4.67	
206A Warren	WPHS	LIC CN MI	145.5 326.1	140.50 BMLLED19880126KB	42 31 00 83 00 36	0.100 29	225 18.6	5.6 Warren Consolidated School	96.56	57.79	
204A Taymouth Township	AP204	APP VX MI	154.8 335.0	37.41 BNPED19991206ABJ	43 15 25 83 47 05	0.250 63	249 1.1	10.4 Great Lakes Community Broa	8.41	24.41	
208C1 Mount Pleasant	WCMUFM	LIC CN MI	271.4 90.9	63.95 BLED1085	43 34 24 84 46 21	100.000 154	371 7.2	58.9 Central Michigan Universit	11.51	0.05	
206A Hope Township	AP206	APP VX MI	228.6 47.6	156.70 BNPED19991112AAH	42 37 20 85 25 00	0.650 85	337 52.1	15.1 Great Lakes Community Broa	58.76	10.04	
207A Huron Township	AP207	APP NCX MI	63.2 244.0	99.38 BNPED20000330ACE	43 57 30 82 52 30	1.000 75	289 23.5	15.7 Great Lakes Community Broa	29.84	13.25	
205A East Lansing	WDBM	LIC CN MI	203.0 22.7	103.25 BLED19890123KJ	42 42 20 84 28 30	2.000 89	349 30.6	20.8 Bd Of Trustee Of Michigan	28.75	15.20	
209A Burton	WTAC	LIC VX MI	154.6 334.8	58.57 BLED20020603AAL	43 05 07 83 40 19	1.000 64	286 1.6	14.6 Superior Communications	29.13	41.39	
259C Midland	WUGN	LIC CN MI	263.8 83.4	46.02 BMLH20050728AOB	43 30 56 84 32 49	100.000 319	520 87.7	73.8 Family Life Broadcasting S	35.0R	11.0M	
207B Zeeland	WGNB	LIC DCN MI	244.3 63.0	181.90 BLED19881221KA	42 50 14 85 59 17	1.217 154	355 35.8	23.9 The Moody Bible Institute	100.49	87.29	
205C3 Bucks	AP205	APP VX MI	8.1 188.3	131.55 BNPED20000110ABB	44 44 00 83 44 42	0.500 81	402 20.5	13.7 Great Lakes Community Broa	63.49	44.98	
203A Gagetown	WPEE.C	CP CX MI	72.5 253.1	74.73 BPED19980505MD	43 45 36 83 05 45	6.000 114	321 2.9	30.0 Plonta Broadcasting Inc.	29.52	40.20	
206A Kalamazoo	WIDR	LIC CN MI	223.7 42.6	195.12 BLED19881031KA	42 16 55 85 37 05	0.100 64	319 27.3	8.2 Western Michigan Universit	121.79	55.10	
207C1 Bear Creek Township	WTLI	LIC VX MI	341.4 160.8	188.96 BLED20050708AAH	45 10 12 84 45 04	17.000 236	640 74.5	50.5 Superior Communications	67.59	66.40	

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
207B Chatham	NEW«	OPE ON	CN	128.0 309.3	197.94	42 27 00 82 05 00	16.700 189	368 68.8	59.0	104.76 87.79
205A Grand Rapids	WBLUFM	LIC MI	CN	244.9 63.8	147.83 BLED19930712KB	42 59 15 85 37 26	0.650 101	341 24.8	16.7 Blue Lake Fine Arts Camp	77.41 60.45
207A Dearborn	WHFR	LIC MI	CN	156.0 336.5	150.36 BLED19931006KF	42 19 26 83 14 09	0.270 32	219 10.6	7.4 Henry Ford Community Colle	111.53 99.72
209A Speaker Twp.	990510	APP MI	CN	114.6 295.3	99.67 BPED19990510MA	43 11 03 82 51 56	0.175 32	275 0.9	6.7 Speaker Radio	70.94 90.36
209A Lansing	WLNZ	LIC MI	V	207.1 26.7	102.71 BLED20001006AAA	42 44 15 84 33 12	0.420 33	289 1.4	8.5 Lansing Community College	55.87 89.21
203B1 Eagle	WJOM.C	CP MI	DVX	218.2 37.6	106.14 BPED20060417AHC	42 48 32 84 47 06	10.000 100	335 3.2	31.8 Michigan Community Radio	56.81 69.23
206B Paris	ALLO«		ON	95.5 277.9	288.36	43 15 39 80 26 39	50.000 -296	0 115.0	65.0	139.46 96.65
203A Eagle	WJOM	LIC MI	VX	218.2 37.7	106.48 BLED20060427AFG	42 48 25 84 47 18	4.300 51	287 2.0	19.2 Michigan Community Radio	58.34 82.13
204C Interlochen	WIAA	LIC MI	CN	300.4 119.2	160.19 BLED19900105KB	44 16 33 85 42 49	100.000 243	658 9.1	67.7 Interlochen Center For The	105.43 87.46
207A Spring Arbor	WJKNFM	LIC MI	V	196.7 16.3	163.16 BLED20050411AAG	42 09 13 84 32 57	2.500 100	398 34.8	23.2 Spring Arbor University	86.86 76.70
206A Bruce Peninsula	ALLO«		ON	51.2 233.0	268.22	45 02 30 81 19 30	6.000 -180	0 68.3	33.0	152.42 68.60
204C1 Windsor	CIMX«	OPE ON	HN	152.1 332.8	174.36	42 10 15 82 59 29	100.000 178	360 7.8	75.4	139.50 86.87
208A Auburn Hills	WAHS.A	APP MI	DCX	149.4 329.9	120.29 BPED20060516AAB	42 37 42 83 13 56	1.063 6	304 1.6	10.3 Avondale School District	92.36 107.54
208A Auburn Hills	WAHS.A	APP MI	DCX	149.4 329.9	120.29 BPED20060516AAC	42 37 42 83 13 56	1.044 23	321 1.6	10.3 Avondale School District	92.36 107.59
208A Auburn Heights	WAHS	LIC MI	CN	149.4 329.9	120.29 BLED19811214AG	42 37 42 83 13 56	0.100 6	304 0.7	5.6 Avondale School District	93.26 112.22
208A Novi	WOVI	LIC MI	CN	161.8 342.1	128.36 BLED19920206KA	42 27 49 83 29 28	0.100 9	295 0.7	5.6 Board Of Education, Novi C	97.74 119.86
209C2 Harrisville	WJOJ	LIC MI	E	15.9 196.2	132.02 BLED20010517ABE	44 42 12 83 31 27	31.000 142	395 5.1	46.8 Northland Community Broadc	79.53 79.95
209A Lake Odessa	NEW	CP MI	VX	225.9 45.1	130.03 BNPED19990928AAV	42 44 35 85 07 25	0.400 43	300 1.4	9.6 Great Lakes Community Broa	82.65 115.33
209A Olivet	WOCR	LIC MI	CN	212.0 31.3	146.28 BLED19890525KD	42 26 31 84 55 30	0.125 33	303 0.8	6.2 Board Of Trustees/olivet C	99.12 134.90
06Z2 Stevenson	CIII-D«	AP ON	HN	143.3 324.3	206.73 BPFS20041023AAN	42 03 41 82 29 05	3.000 300	484 21.4	67.1	211.0R -4.3M•
06-2C Lansing	WLNSTV	LI MI	HN	198.4 18.2	102.19 BLCT20020103AAA	42 41 19 84 22 35	100.000 305	577 39.5	104.5 Young Broadcasting Of Lans	211.0R -108.8M
06Z2E Alpena	WCML	LI MI	HN	355.4 175.2	175.76 BLET394	45 08 17 84 09 44	100.000 448	723 45.5	114.0 Central Michigan Universit	211.0R -35.2M•

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

***affixed to 'IN' or 'Out' values = site inside protected contour.

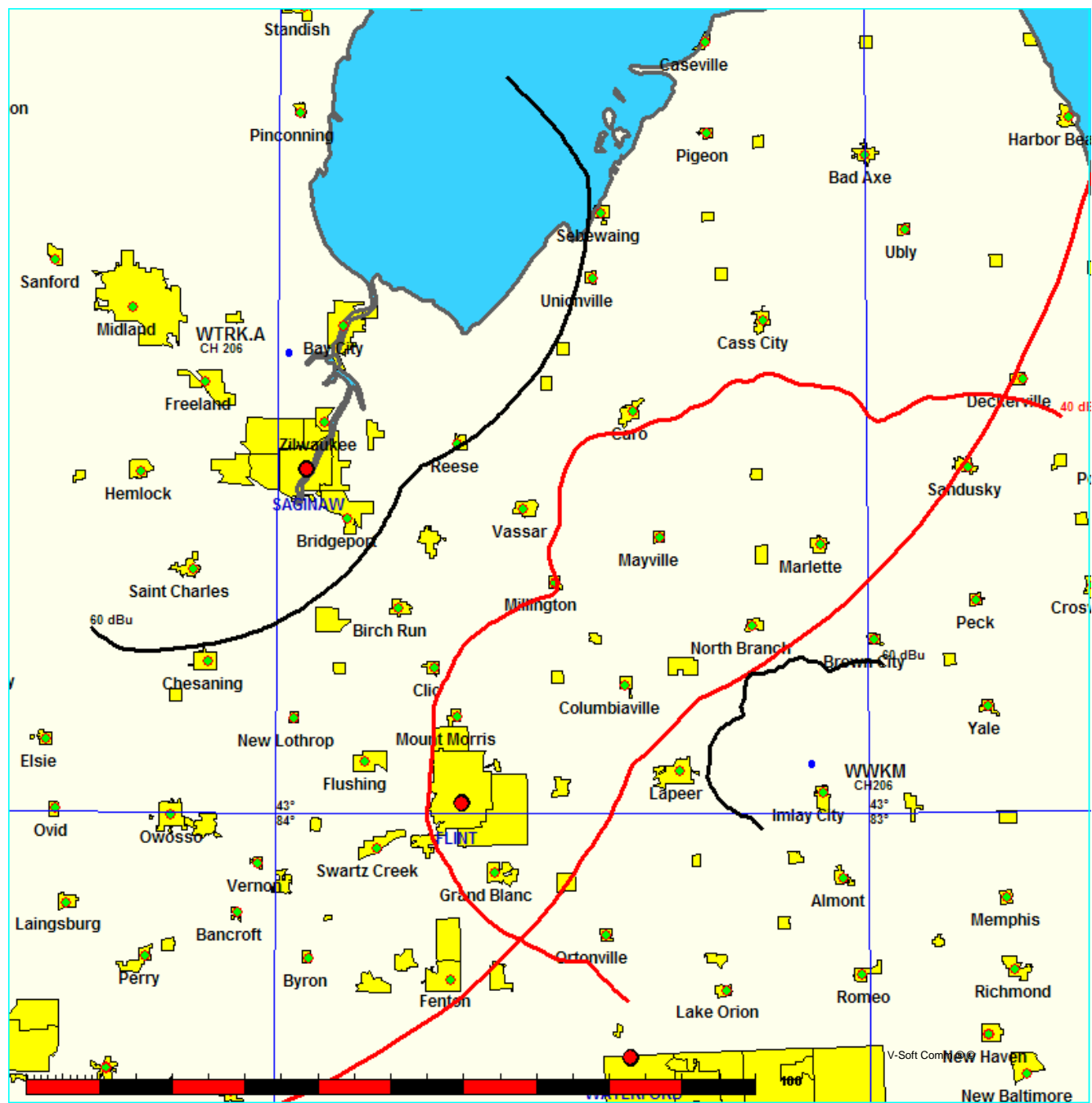
« = Station meets FCC minimum distance spacing for its class.

FMCommander Allocation Study
06-30-2006

WTRK.A CH 206 C2
50.0 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

WWKM CH 206 A BLED20010108AAA
1.5 kW, 306 M COR
Prot. = 60 dBu
Intef. = 40 dBu Scale = 1

Scale = 1:1,350,000



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5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 15-A

Bay City, MI

WTRK.P vs. WWKM

06-30-2006 30 Arc-Sec. Sec. Terrain Data

WWKM BLED20010108AAA
Channel = 206A
Max ERP = 1.5 kW
RCAMSL = 306 M
N. Lat = 43 03 42
W. Lng = 83 05 44
Protected
60 dBu

WTRK.P
Channel = 206C2
Max ERP = 50 kW
RCAMSL = 296 M
N. Lat = 43 33 42
W. Lng = 83 58 52
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
300.0	001.5000	0034.6	011.9	128.7	002.1191	0119.0	079.0	38.55
301.0	001.5000	0033.4	011.7	128.6	002.1350	0119.0	079.1	38.54
302.0	001.5000	0032.5	011.6	128.4	002.1502	0119.0	079.3	38.54
303.0	001.5000	0031.8	011.5	128.2	002.1649	0119.0	079.3	38.54
304.0	001.5000	0031.7	011.5	128.1	002.1788	0119.0	079.3	38.57
305.0	001.5000	0032.6	011.6	128.0	002.1922	0119.0	079.2	38.64
306.0	001.5000	0034.1	011.8	127.8	002.2056	0119.0	078.9	38.74
307.0	001.5000	0035.9	012.1	127.7	002.2197	0119.0	078.7	38.85
308.0	001.5000	0037.3	012.3	127.5	002.2347	0119.0	078.4	38.94
309.0	001.5000	0038.2	012.5	127.4	002.2502	0119.0	078.3	39.01
310.0	001.5000	0038.6	012.5	127.2	002.2660	0119.0	078.3	39.06
311.0	001.5000	0038.8	012.6	127.0	002.2819	0119.0	078.2	39.10
312.0	001.5000	0039.2	012.6	126.9	002.2981	0119.0	078.2	39.14
313.0	001.5000	0039.9	012.7	126.7	002.3148	0119.0	078.1	39.20
314.0	001.5000	0041.0	012.9	126.5	002.3324	0119.0	078.0	39.27
315.0	001.5000	0042.5	013.1	126.3	002.3512	0119.0	077.8	39.37
316.0	001.5000	0044.1	013.4	126.1	002.3710	0119.0	077.5	39.47
317.0	001.5000	0045.6	013.6	125.9	002.3911	0119.0	077.4	39.56
318.0	001.5000	0046.7	013.8	125.7	002.4113	0119.0	077.2	39.63
319.0	001.5000	0047.8	014.0	125.5	002.4316	0119.0	077.1	39.69
320.0	001.5000	0048.8	014.1	125.3	002.4525	0119.0	077.0	39.76
321.0	001.5000	0049.9	014.3	125.1	002.4739	0119.0	076.9	39.83
322.0	001.5000	0050.9	014.4	124.9	002.4953	0119.0	076.9	39.88
323.0	001.5000	0051.6	014.5	124.7	002.5163	0119.0	076.8	39.93
324.0	001.5000	0051.9	014.6	124.5	002.5362	0119.0	076.9	39.95
325.0	001.5000	0051.8	014.6	124.3	002.5541	0119.0	077.0	39.95
326.0	001.5000	0051.2	014.5	124.2	002.5703	0119.0	077.1	39.93
327.0	001.5000	0050.4	014.4	124.0	002.5850	0119.0	077.4	39.89
328.0	001.5000	0049.3	014.2	123.9	002.5978	0119.0	077.6	39.84
329.0	001.5000	0048.1	014.0	123.8	002.6092	0119.0	077.9	39.78
330.0	001.5000	0047.1	013.9	123.7	002.6213	0119.0	078.1	39.73
331.0	001.5000	0046.5	013.8	123.6	002.6351	0119.0	078.3	39.70
332.0	001.5000	0046.2	013.7	123.4	002.6502	0119.0	078.5	39.68
333.0	001.5000	0046.2	013.7	123.3	002.6664	0119.0	078.6	39.67
334.0	001.5000	0046.3	013.7	123.1	002.6828	0119.0	078.7	39.67
335.0	001.5000	0046.2	013.7	123.0	002.6983	0119.0	078.8	39.65
336.0	001.5000	0045.8	013.7	122.9	002.7116	0119.0	079.0	39.62
337.0	001.5000	0045.2	013.6	122.7	002.7230	0119.0	079.2	39.58
338.0	001.5000	0044.7	013.5	122.6	002.7348	0119.0	079.4	39.54
339.0	001.5000	0044.9	013.5	122.5	002.7512	0119.0	079.5	39.53
340.0	001.5000	0045.5	013.6	122.3	002.7702	0119.0	079.6	39.54
341.0	001.5000	0045.7	013.6	122.2	002.7869	0119.0	079.7	39.54
342.0	001.5000	0045.6	013.6	122.0	002.8005	0119.0	079.9	39.51
343.0	001.5000	0045.7	013.6	121.9	002.8155	0119.0	080.0	39.49

Educational Media Foundation

Exhibit 15-A

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Bay City, MI

344.0	001.5000	0046.1	013.7	121.7	002.8326	0119.0	080.1	39.49
345.0	001.5000	0046.8	013.8	121.6	002.8520	0119.0	080.2	39.49
346.0	001.5000	0047.7	013.9	121.4	002.8732	0119.0	080.3	39.50
347.0	001.5000	0048.8	014.1	121.2	002.8967	0119.0	080.3	39.52
348.0	001.5000	0049.6	014.2	121.0	002.9176	0119.0	080.4	39.53
349.0	001.5000	0049.6	014.2	120.8	002.9306	0119.0	080.6	39.49
350.0	001.5000	0049.2	014.2	120.8	002.9401	0119.0	080.8	39.44
351.0	001.5000	0049.2	014.2	120.7	002.9527	0119.0	081.0	39.41
352.0	001.5000	0050.0	014.3	120.5	002.9732	0119.0	081.1	39.40
353.0	001.5000	0050.5	014.4	120.3	002.9903	0119.0	081.3	39.39
354.0	001.5000	0050.5	014.4	120.2	003.0020	0119.0	081.5	39.34
355.0	001.5000	0049.6	014.2	120.2	003.0049	0119.0	081.8	39.27
356.0	001.5000	0048.3	014.0	120.2	003.0039	0119.0	082.1	39.17
357.0	001.5000	0047.3	013.9	120.2	003.0046	0119.0	082.4	39.09
358.0	001.5000	0046.6	013.8	120.2	003.0084	0119.0	082.6	39.02
359.0	001.5000	0046.6	013.8	120.1	003.0180	0119.0	082.8	38.98
000.0	001.5000	0046.4	013.8	120.0	003.0264	0119.0	083.1	38.93

Exhibit 15-B

FMCommander Allocation Study
06-30-2006

WTRK.A CH 206 C2
50.0 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

WWKM.C CH 206 A BPED20030508ACX
6.0 kW, 404 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

Scale = 1:1,350,000

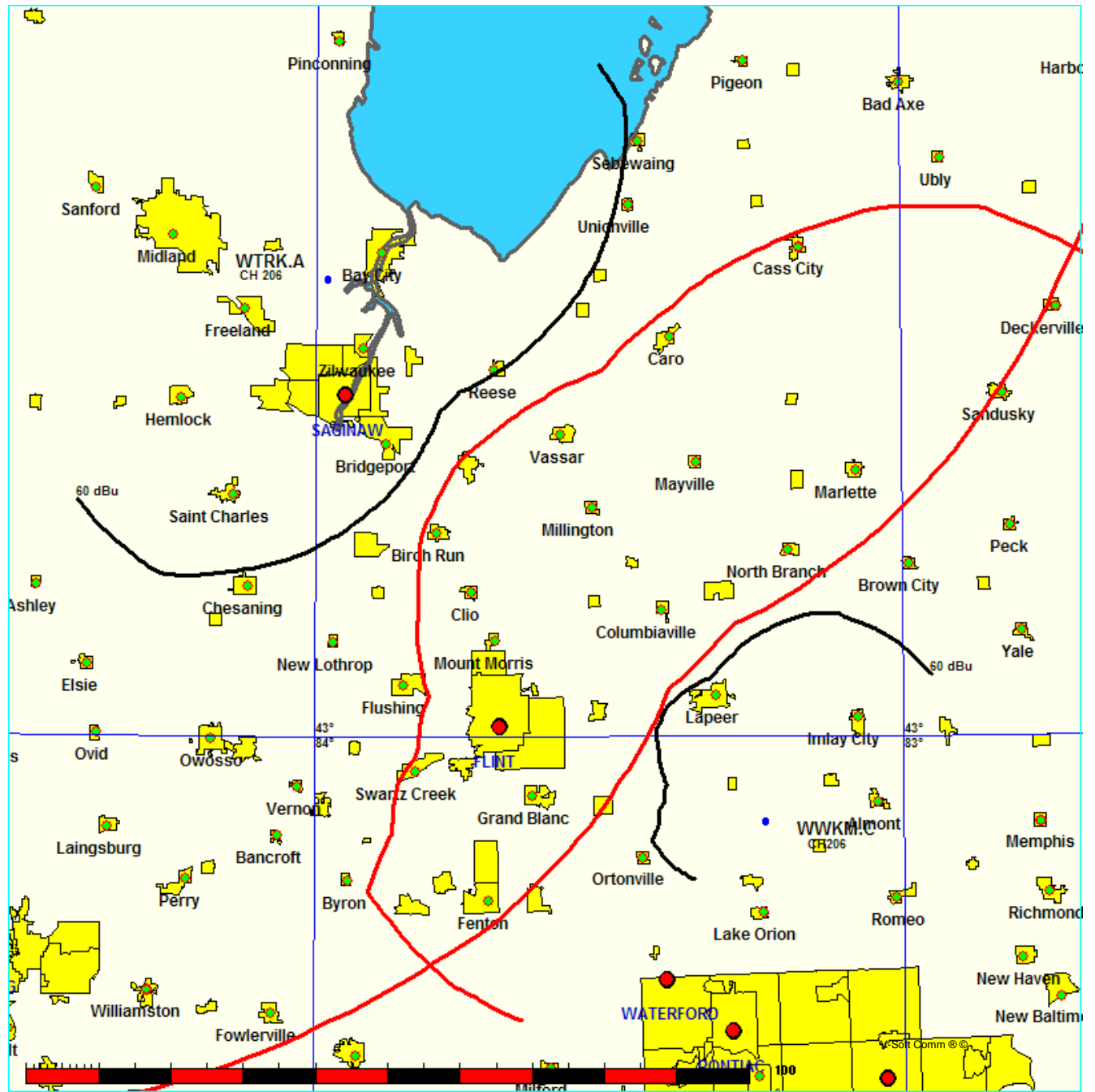


Exhibit 15-C

FMCommander Allocation Study
07-09-2006

WTRK.A CH 206 C2
50.0 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

AP207 CH 207 A BNPED20000218AAV
3.5 kW, 331 M COR
Prot. = 60 dBu
Intef. = 54 dBu

Scale = 1:1,350,000

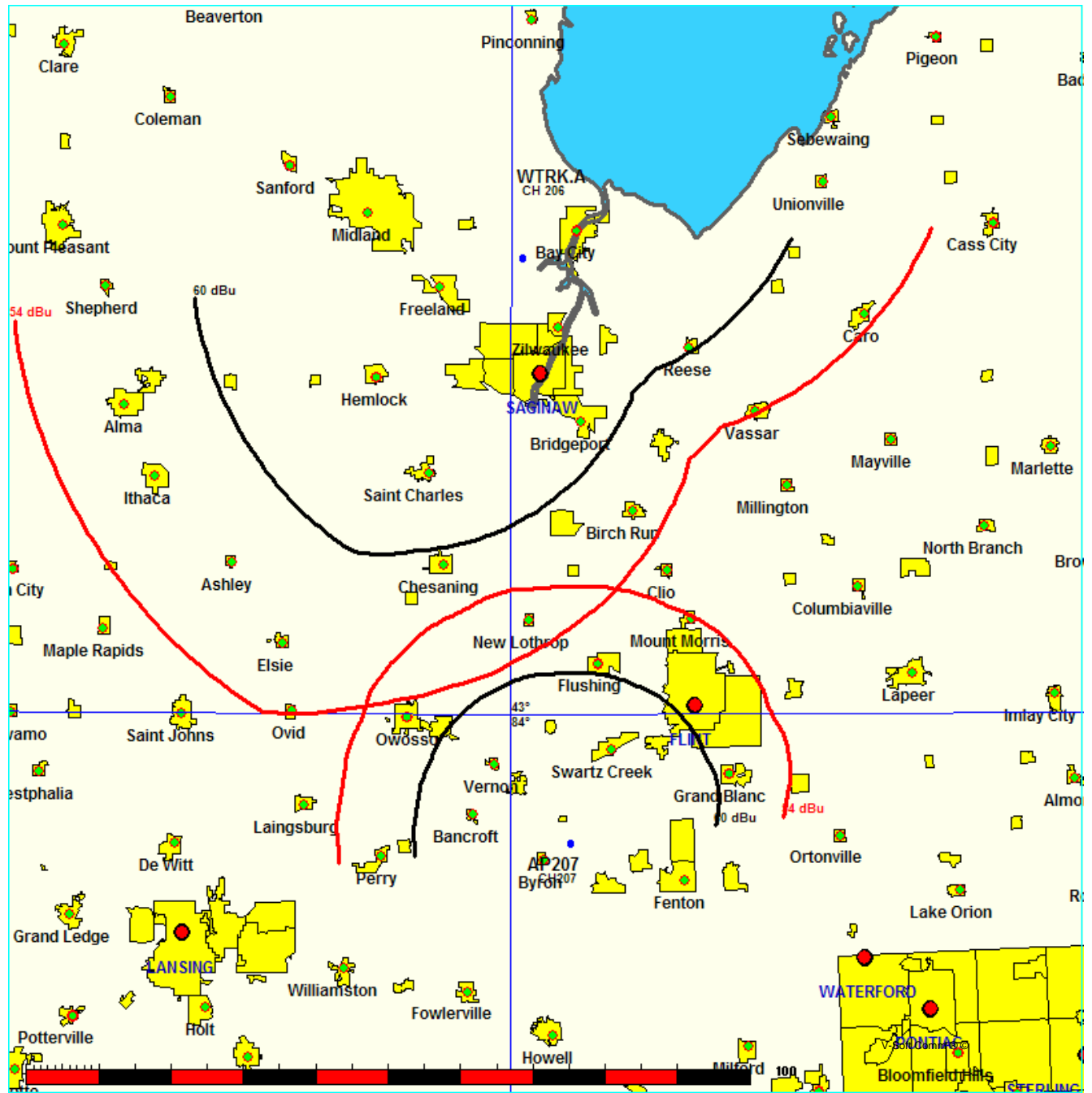


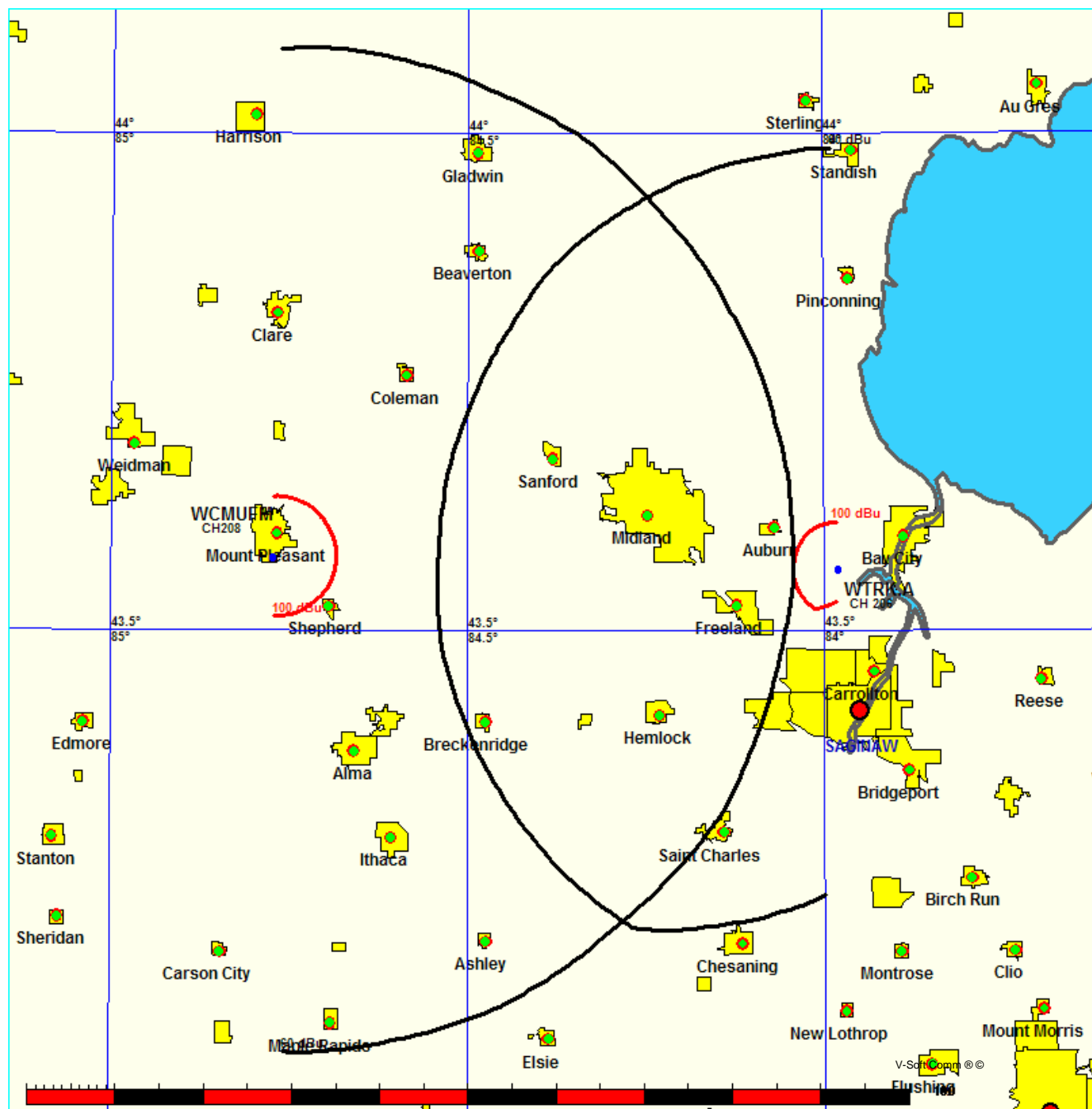
Exhibit 15-D

FMCommander Allocation Study
07-09-2006

WTRK.A CH 206 C2
50.0 kW 296 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

WCMUFM CH 208 C1 BLED1085
100.0 kW, 371 M COR
Prot. = 60 dBu
Intef. = 100 dBu

Scale = 1:1,125,000



WTRK.P vs. WCMU-FM

07-09-2006 30 Arc-Sec. Sec. Terrain Data

WCMU-FM BLED1085
 Channel = 208C1
 Max ERP = 100 kW
 RCAMSL = 371 M
 N. Lat = 43 34 24
 W. Lng = 84 46 21
 Protected
 60 dBu

WTRK.P
 Channel = 206C2
 Max ERP = 50 kW
 RCAMSL = 296 M
 N. Lat = 43 33 42
 W. Lng = 83 58 52
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
075.0	100.0000	0153.0	058.9	337.1	050.0000	0112.5	018.0	79.08
076.0	100.0000	0153.2	058.9	336.7	050.0000	0112.5	016.9	79.92
077.0	100.0000	0153.6	058.9	336.2	050.0000	0112.4	015.9	80.76
078.0	100.0000	0153.8	059.0	335.5	050.0000	0112.4	014.9	81.50
079.0	100.0000	0153.9	059.0	334.6	050.0000	0112.3	013.9	82.65
080.0	100.0000	0154.0	059.0	333.5	050.0000	0112.1	012.9	83.93
081.0	100.0000	0154.1	059.0	332.0	050.0000	0112.0	011.9	85.33
082.0	100.0000	0154.1	059.0	330.2	050.0000	0112.0	011.0	86.84
083.0	100.0000	0153.8	059.0	327.7	050.0000	0112.2	010.0	88.45
084.0	100.0000	0153.5	058.9	324.7	050.0000	0112.3	009.1	90.11
085.0	100.0000	0153.2	058.9	320.9	050.0000	0112.1	008.3	91.77
086.0	100.0000	0153.1	058.9	316.3	050.0000	0110.8	007.5	93.45
087.0	100.0000	0153.3	058.9	310.7	050.0000	0108.8	006.7	95.26
088.0	100.0000	0153.4	058.9	303.7	050.0000	0105.9	006.1	96.89
089.0	100.0000	0153.4	058.9	294.9	050.0000	0104.2	005.5	98.31
090.0	100.0000	0153.5	058.9	284.6	050.0000	0103.5	005.2	99.38
091.0	100.0000	0153.6	058.9	273.1	050.0000	0102.7	005.0	99.83
092.0	100.0000	0153.7	059.0	261.4	050.0000	0105.1	005.1	99.81
093.0	100.0000	0153.8	059.0	250.5	050.0000	0104.7	005.4	98.85
094.0	100.0000	0153.3	058.9	241.5	050.0000	0105.1	005.9	97.25
095.0	100.0000	0152.8	058.8	234.3	050.0000	0105.7	006.6	95.40
096.0	100.0000	0152.3	058.8	228.6	050.0000	0106.2	007.3	93.43
097.0	100.0000	0151.9	058.7	224.1	050.0000	0107.6	008.2	91.68
098.0	100.0000	0151.4	058.7	220.5	050.0000	0108.0	009.0	89.98
099.0	100.0000	0151.0	058.6	217.7	050.0000	0108.4	010.0	88.31
100.0	100.0000	0150.6	058.6	215.4	050.0000	0108.9	010.9	86.74
101.0	100.0000	0150.4	058.5	213.5	050.0000	0109.5	011.8	85.27
102.0	100.0000	0150.2	058.5	211.9	050.0000	0109.6	012.8	83.88
103.0	100.0000	0150.0	058.5	210.6	050.0000	0109.7	013.8	82.60
104.0	100.0000	0149.9	058.5	209.5	048.9366	0110.0	014.8	81.37
105.0	100.0000	0149.8	058.4	208.6	047.1165	0110.0	015.8	80.44