

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

**Groundwave Interference Protection
FCC Form 301 §III-A, Question 10.a.**

The proposed facility meets all FCC Rules pertaining to groundwave protection of all existing stations, permits, and applications, including those stations listed in the table below. Contour maps are included as noted when helpful to demonstrate protection.

Contours have been projected using measured conductivities for six stations: WSNR (licensed), WHEN, WIP, WSNG, WEJL, and WPRO. The attached Exhibit 14F lists these data and indicates their sources. Detailed studies were performed for these stations to ensure that the proposed facilities met FCC protection requirements. Where measured conductivity data was not available for these stations, and for all other stations, contours have been projected using M3 data.

The licensed WSNR facility has existing contour overlap with two other stations (WIP and WPRO) and, as permitted by FCC Rules, the proposed facility maintains but does not increase the land area of those overlaps. Exhibit 14C provides a detailed summary of this situation.

<u>Station</u>	<u>Frequency</u>	<u>Class</u>	<u>Location</u>	<u>FCC File No.</u>	<u>Map</u>
Co-Channel					
WHEN	620 kHz	B	Syracuse, NY	BP19990713AB	Ex. 14B
WKHB	620 kHz	B	Irwin, PA	BL20010416ABD	
WVMT	620 kHz	B	Burlington, VT	BL19881229AE	
First-Adjacent Channel					
WIP	610 kHz	B	Philadelphia, PA	BL19861110AE	Ex. 14C
WSNG	610 kHz	B	Torrington, CT	BL-10511	Ex. 14C
WEJL	630 kHz	D	Scranton, PA	BL19980904AE (lic)	Ex. 14C
				BP19990713AG (CP)	Ex. 14C
WPRO	630 kHz	B	Providence, RI	BL19801215AH	Ex. 14C
Second-Adjacent Channel					
WICC	600 kHz	B	Bridgeport, CT	Facility ID #72345*	Ex. 14D
WWJZ	640 kHz	B	Mount Holly, NJ	BMP19921207AC (CP)	Ex. 14D
				BP19991012ACD (app)	Ex. 14D
Third-Adjacent Channel					
WARM	590 kHz	B	Scranton, PA	BL19820930AD	Ex. 14E
WROW	590 kHz	B	Albany, NY	Facility ID #54853*	Ex. 14E
WJLT	650 kHz	D	Ashland, MA	BP19990521AT	

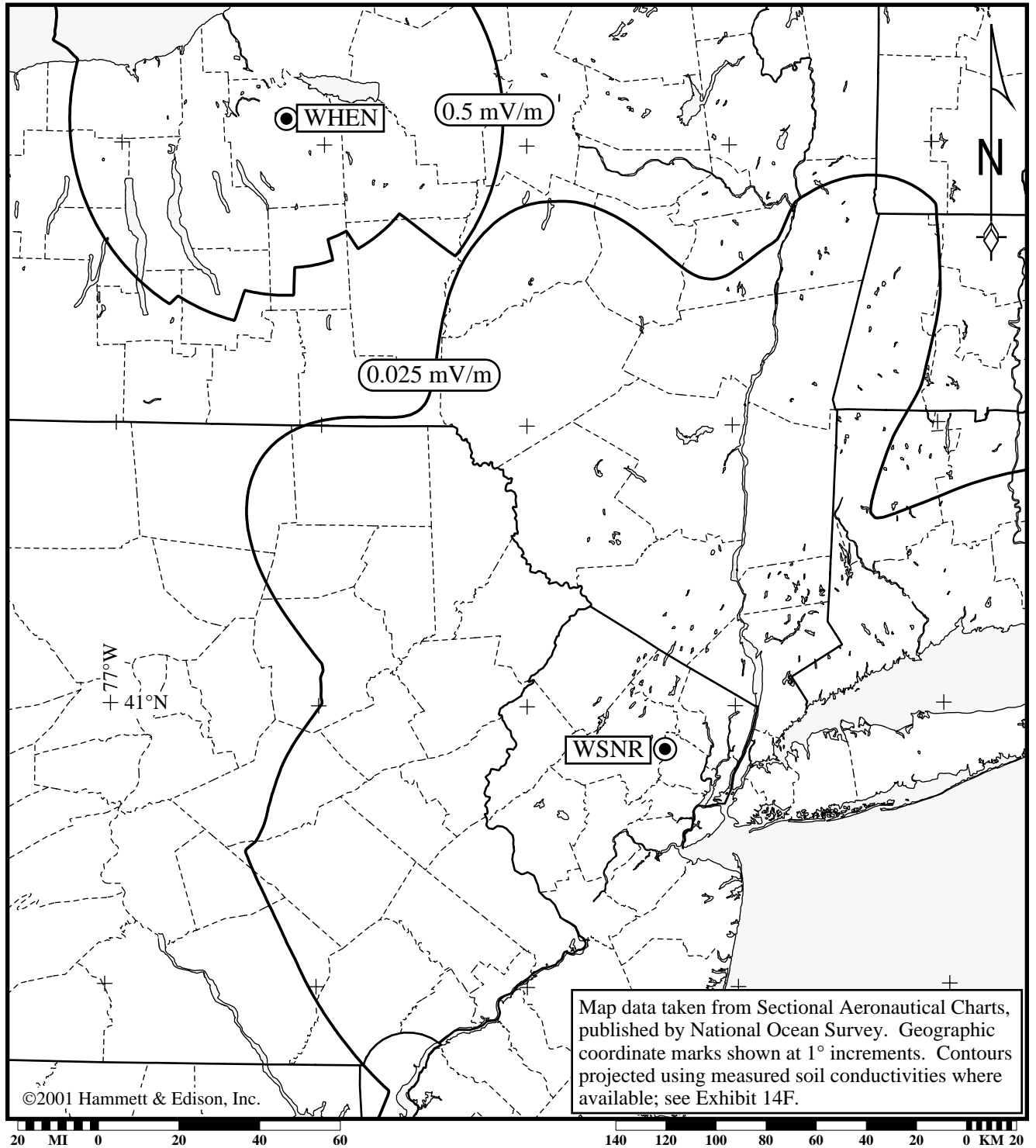
* FCC File No. not listed in FCC engineering database.



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection

Proposed WSNR 0.025 mV/m Interfering Contour
vs. 0.5 mV/m Co-Channel Protected Contour



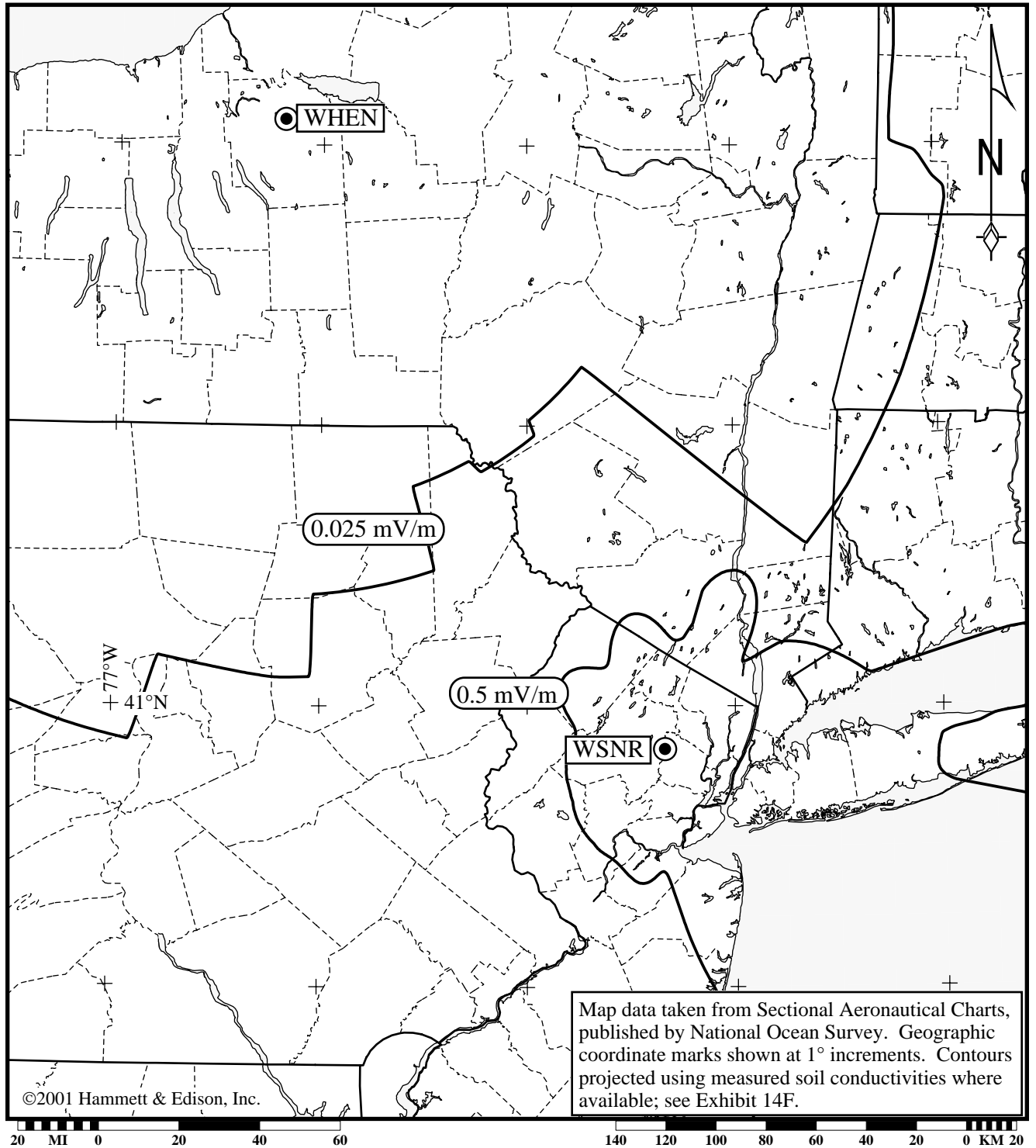
HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

011121
Exhibit 14B1

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection

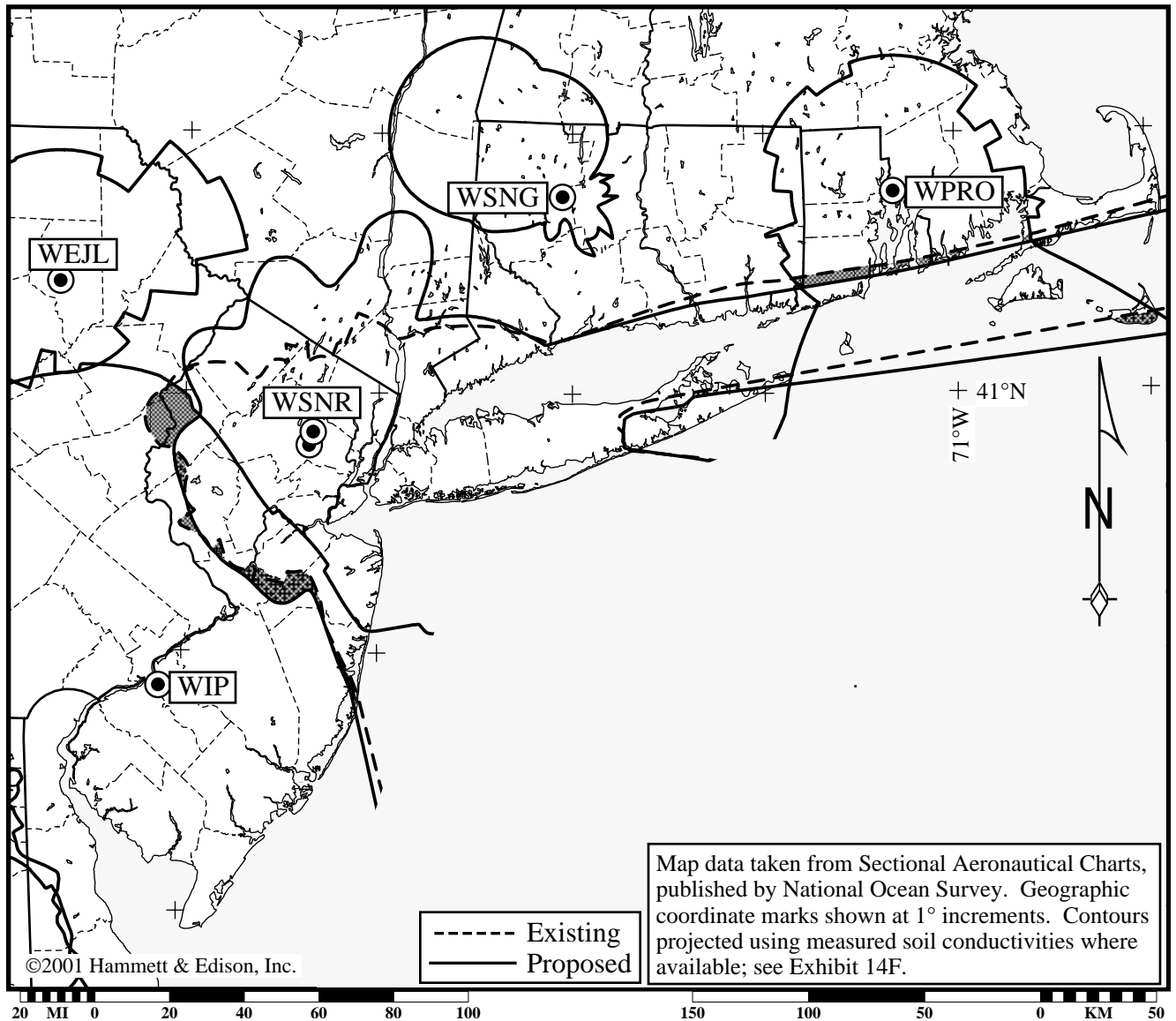
0.025 mV/m Co-Channel Interfering Contour
vs. Proposed WSNR 0.5 mV/m Protected Contour



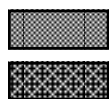
Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection

Proposed WSNR 0.25 mV/m Interfering Contour
vs. 0.5 mV/m Protected First-Adjacent Contours



Areas of overlap determined by polar integration:



Existing overlap relinquished

Proposed overlap increased

Net overlap reduction

vs. WIP

426.3 sq. km

399.1 sq. km

27.2 sq. km

vs. WPRO

241.4 sq. km

74.6 sq. km

166.8 sq. km



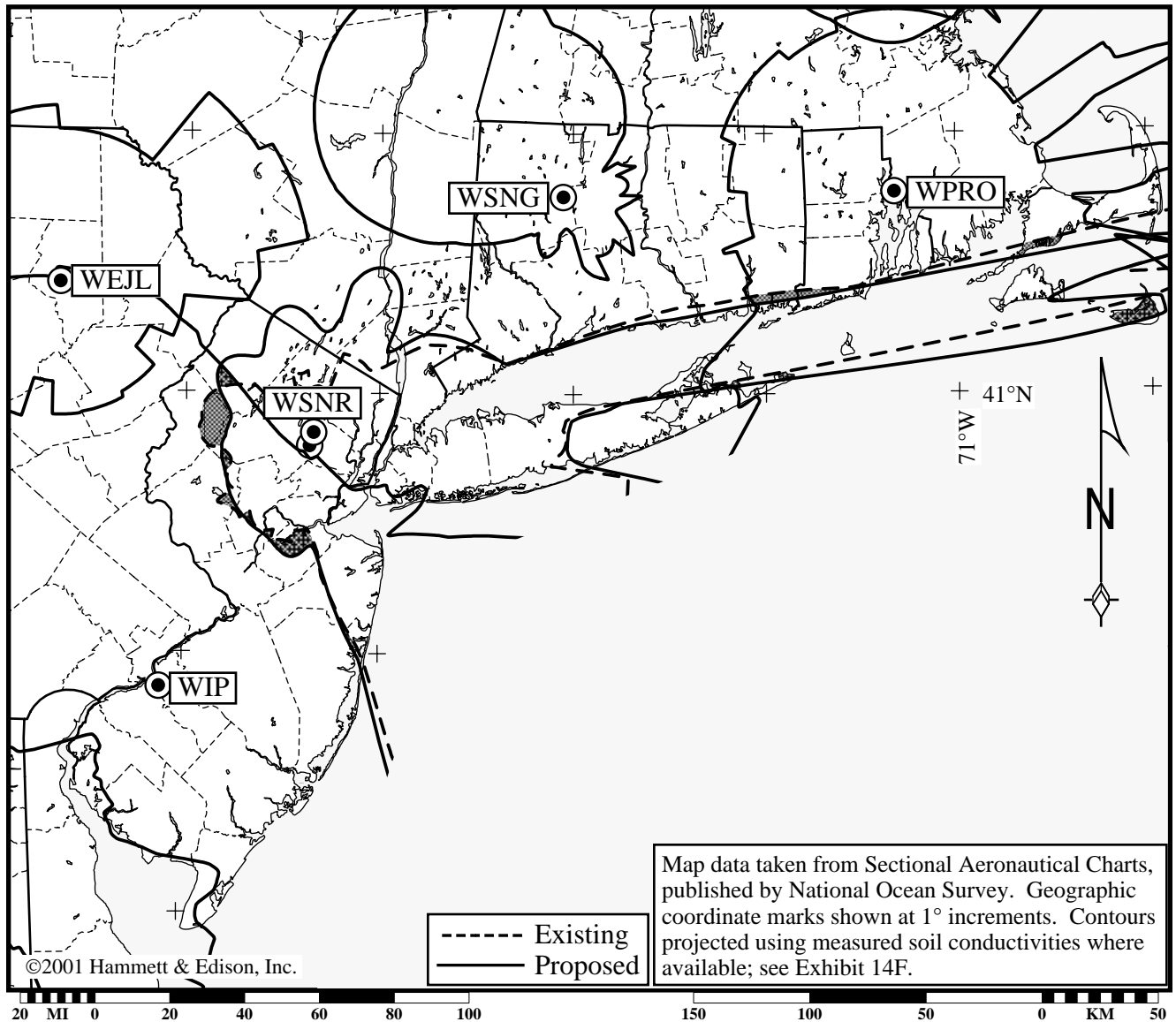
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Exhibit 14C1



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection

0.25 mV/m First-Adjacent Interfering Contours
vs. Proposed WSNR 0.5 mV/m Protected Contour



Areas of overlap determined by polar integration:

	vs. WIP	vs. WPRO
 Existing overlap relinquished	278.9 sq. km	184.3 sq. km
 Proposed overlap increased	259.9 sq. km	138.3 sq. km
Net overlap reduction	19.0 sq. km	46.0 sq. km

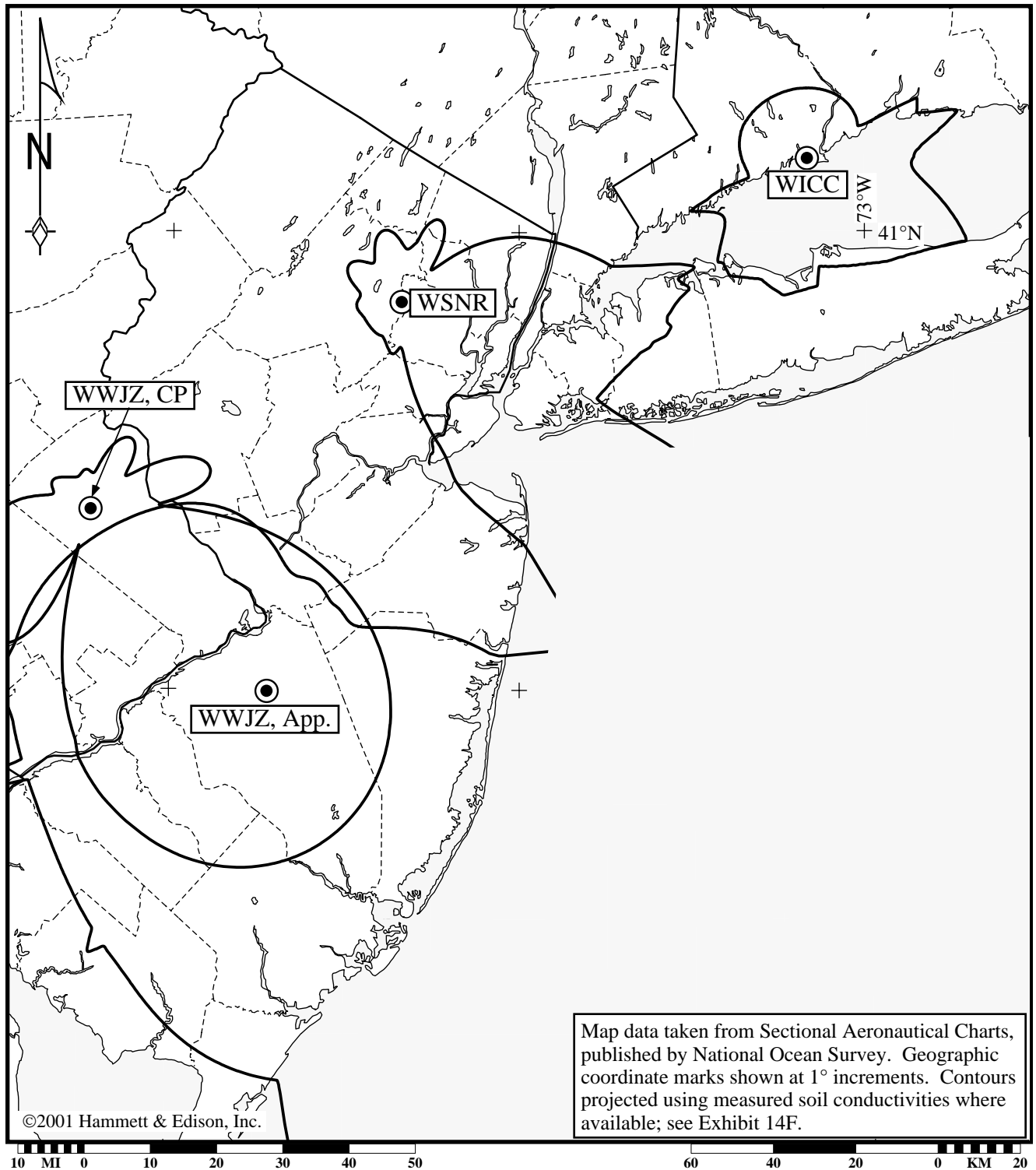


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Exhibit 14C2

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection of
Proposed WSNR 5 mV/m Contour
vs. 5 mV/m Second-Adjacent Contours

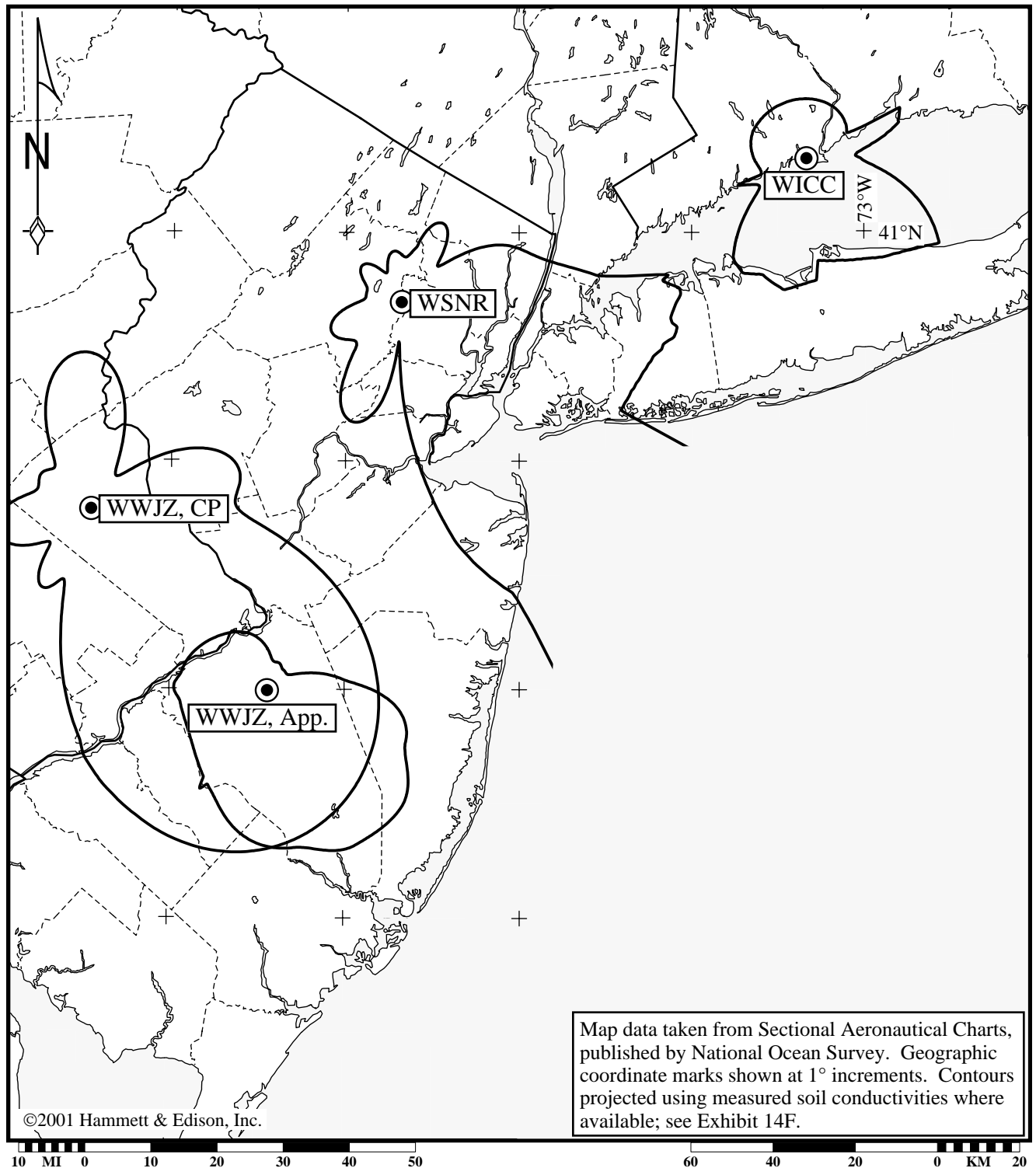


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Exhibit 14D1

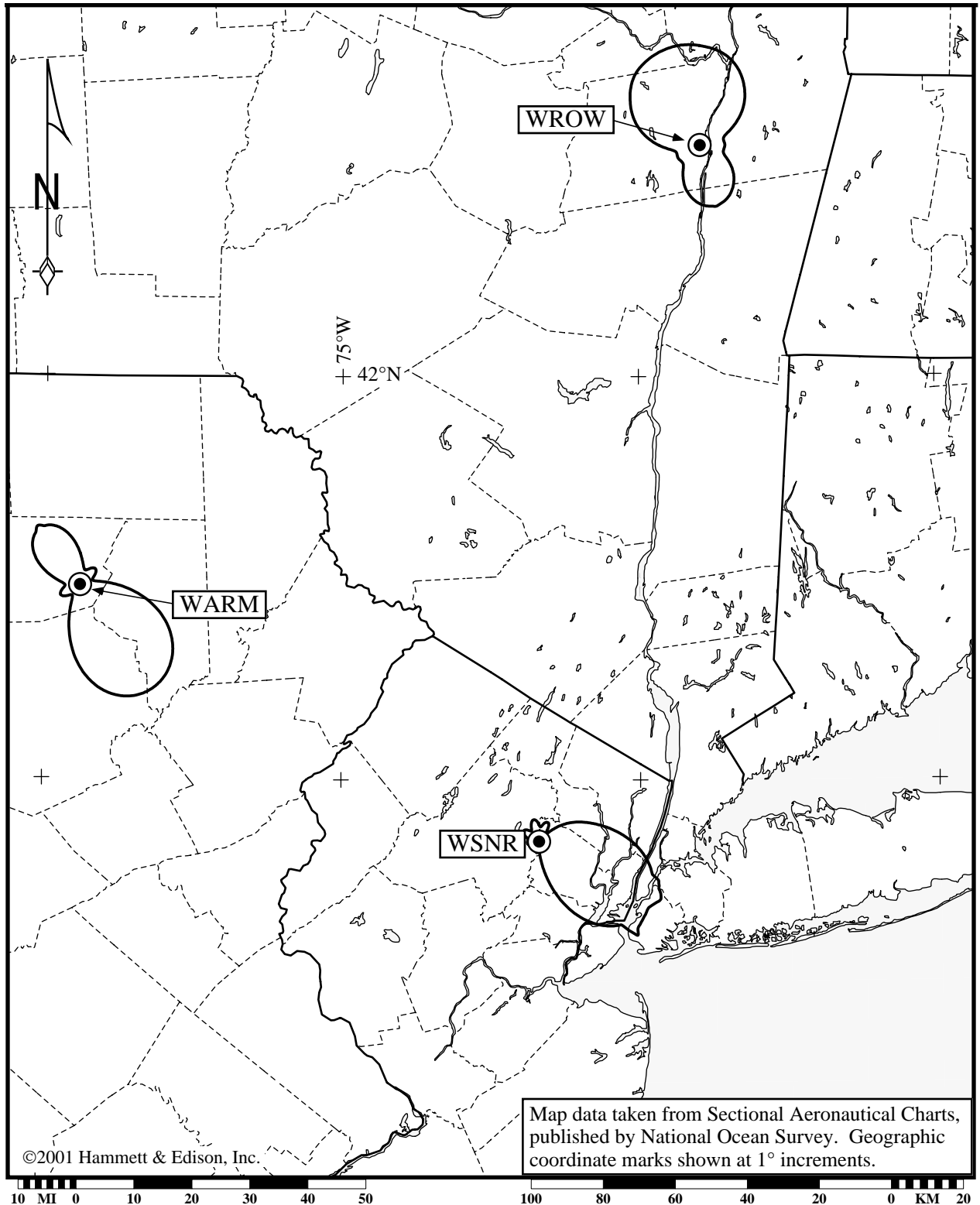
Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Nighttime Groundwave Protection
Proposed WSNR 5 mV/m Contour
vs. 5 mV/m Second-Adjacent Contours



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Daytime Groundwave Protection
Proposed WSNR 25 mV/m Contour
vs. 25 mV/m Third-Adjacent Contours



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Exhibit 14E

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

The following tables show the soil conductivities and unattenuated radiation values used to determine the locations of pertinent field strength contours for six stations: WSNR (licensed), WHEN, WIP, WSNR, WEJL, and WPRO. Detailed studies were performed for these stations to ensure that the proposed facilities met FCC protection requirements. Measured conductivities, labeled “M” in the tables, were used over an arc of $\pm 10^\circ$ from each measured radial; in cases where measured conductivity data exists for radials spaced closer than 20° , the break was taken at the center point between the radials. Estimated conductivities (*i.e.*, from Map M3) are labeled “E” in the tables and were combined with the measured data (using the equivalent distance method) for contours located beyond the measured data.

Licensed Radio Station WSNR - 620 kHz, Jersey City, New Jersey

Source(s) of Measured Data:

FCC File No. BZ19780817AB, WSNR Application for License

Coordinates: N 40 47 51 W 74 21 36

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
0	75.3	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	63.6	4.0E	240.9	2.0E	270.5
		4.0E	467.2	4.0E	500.0												
1	76.8	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	62.3	4.0E	240.0	2.0E	275.8
		4.0E	467.4	4.0E	500.0												
2	78.3	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	61.2	4.0E	239.5	2.0E	282.9
		4.0E	467.5	4.0E	500.0												
3	79.6	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	59.9	4.0E	240.0	2.0E	290.5
		4.0E	468.0	4.0E	500.0												
4	80.8	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	58.9	4.0E	240.6	2.0E	298.7
		4.0E	468.5	4.0E	500.0												
5	81.8	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	57.8	4.0E	241.2	2.0E	311.1
		4.0E	469.1	4.0E	500.0												
6	82.5	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	56.8	4.0E	242.5	2.0E	324.8
		4.0E	469.9	4.0E	500.0												
7	83.0	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	55.8	4.0E	244.0	2.0E	339.7
		4.0E	470.9	4.0E	500.0												
8	83.2	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	55.0	4.0E	245.4	2.0E	365.3
		4.0E	472.0	4.0E	500.0												
9	83.2	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	53.9	4.0E	247.0	2.0E	395.4
		4.0E	473.3	4.0E	500.0												
10	82.8	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	52.0	4.0E	248.8	2.0E	421.2
		4.0E	474.8	4.0E	500.0												
11	82.3	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	50.2	4.0E	250.6	2.0E	447.1
		4.0E	476.4	4.0E	500.0												
12	81.4	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	48.6	4.0E	252.5	2.0E	478.3
		4.0E	500.0														
13	80.4	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	47.0	4.0E	253.6	2.0E	480.4
		4.0E	500.0														
14	79.2	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	34.1	4.0E	254.8	2.0E	482.8
		4.0E	500.0														
15	77.8	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	21.9	4.0E	256.0	2.0E	485.2
		4.0E	500.0														
16	76.4	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	4.0E	257.3	2.0E	488.0	4.0E	500.0
17	74.9	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	4.0E	258.6	2.0E	490.8	4.0E	500.0
18	73.4	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	4.0E	260.2	2.0E	493.9	4.0E	500.0
19	72.0	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	4.0E	261.2	2.0E	497.1	4.0E	500.0
20	70.7	2.0E	12.4	4.0E	262.0	2.0E	420.8	0.5E	500.0								
21	69.6	2.0E	11.4	4.0E	262.8	2.0E	393.0	0.5E	500.0								
22	68.7	2.0E	10.6	4.0E	263.8	2.0E	382.9	0.5E	500.0								
23	68.0	2.0E	9.8	4.0E	264.7	2.0E	380.3	0.5E	500.0								
24	67.5	2.0E	9.2	4.0E	265.4	2.0E	330.2	1.0E	382.2	0.5E	500.0						
25	67.3	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	265.5	2.0E	293.9	1.0E	385.6	0.5E	500.0		
26	67.2	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	264.9	1.0E	392.0	0.5E	500.0				
27	67.2	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	245.6	1.0E	405.9	0.5E	500.0				
28	67.4	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	229.3	1.0E	420.8	0.5E	500.0				
29	67.6	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	215.2	1.0E	437.3	0.5E	500.0				
30	67.7	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	202.6	1.0E	458.2	0.5E	500.0				
31	67.8	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	191.7	1.0E	500.0						
32	67.7	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	181.7	1.0E	500.0						
33	67.5	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	164.0	1.0E	500.0						



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	
34	67.2	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	149.5	1.0E	500.0							
35	66.7	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	137.3	1.0E	448.8			1.0E	500.0			
36	66.2	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	90.6	1.0E	424.7		2.0E	500.0				
37	65.8	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	82.7	1.0E	413.0		2.0E	500.0				
38	65.7	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	78.5	1.0E	405.6		2.0E	500.0				
39	66.1	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	76.9	1.0E	401.7		2.0E	500.0				
40	67.5	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	75.3	1.0E	398.0		2.0E	500.0				
41	70.0	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	73.9	1.0E	394.5		2.0E	500.0				
42	74.0	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	72.4	1.0E	391.1		2.0E	500.0				
43	79.8	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	71.5	1.0E	388.0		2.0E	500.0				
44	87.5	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	70.5	1.0E	168.3		2.0E	179.3	1.0E	384.2	2.0E	500.0
45	97.1	3.0M	5.5	5.0M	15.4	3.0M	20.0	4.0E	69.5	1.0E	159.3		2.0E	193.1	1.0E	380.6	2.0E	467.8
		5kE	492.1	2.0E	500.0													
46	108.7	2.0E	1.1	4.0E	68.7	1.0E	154.8	2.0E	245.7	1.0E	375.6		2.0E	448.8	5kE	451.7	2.0E	464.1
		5kE	499.9	2.0E	500.0													
47	122.2	2.0E	1.1	4.0E	67.9	1.0E	150.8	2.0E	257.7	1.0E	369.8		2.0E	381.1	5kE	392.7	2.0E	418.8
		5kE	429.1	2.0E	434.2	5kE	494.4	2.0E	498.9	5kE	500.0							
48	137.4	2.0E	1.0	4.0E	67.1	1.0E	148.7	2.0E	266.3	1.0E	362.9		2.0E	390.1	5kE	392.5	2.0E	411.7
		5kE	500.0															
49	154.3	2.0E	1.0	4.0E	66.3	1.0E	146.6	2.0E	274.2	1.0E	354.7		2.0E	392.5	5kE	396.4	2.0E	397.0
		5kE	500.0															
50	172.9	2.0E	1.0	4.0E	65.7	1.0E	144.7	2.0E	285.0	1.0E	346.2		2.0E	378.7	5kE	500.0		
51	193.0	2.0E	1.0	4.0E	65.0	1.0E	142.7	2.0E	366.1	5kE	366.4		2.0E	370.3	5kE	500.0		
52	214.5	2.0E	0.8	4.0E	64.5	1.0E	141.0	2.0E	365.6	5kE	500.0							
53	237.5	2.0E	0.8	4.0E	64.1	1.0E	139.4	2.0E	363.2	5kE	500.0							
54	261.8	2.0E	0.8	4.0E	63.6	1.0E	137.8	2.0E	362.6	5kE	500.0							
55	287.3	2.0E	0.8	4.0E	63.1	1.0E	136.3	2.0E	345.5	5kE	348.6		2.0E	366.3	5kE	500.0		
56	314.0	2.0E	0.8	4.0E	62.6	1.0E	135.0	2.0E	347.3	5kE	500.0							
57	341.9	2.0E	0.8	4.0E	62.3	1.0E	133.7	2.0E	324.9	5kE	327.0		2.0E	331.0	5kE	500.0		
58	370.8	2.0E	0.6	4.0E	62.1	1.0E	132.6	2.0E	323.5	5kE	500.0							
59	400.7	2.0E	0.6	4.0E	61.8	1.0E	131.5	2.0E	324.1	5kE	500.0							
60	431.6	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.6	1.0E	130.4	2.0E	335.1	5kE	500.0	
61	463.3	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.5	1.0E	129.4	2.0E	338.9	5kE	500.0	
62	495.8	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.3	1.0E	128.4	2.0E	339.2	5kE	500.0	
63	528.9	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.2	1.0E	127.5	2.0E	339.6	5kE	500.0	
64	562.8	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.0	1.0E	126.7	2.0E	339.9	5kE	500.0	
65	597.1	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	61.0	1.0E	125.9	2.0E	272.5	5kE	273.3	
		2.0E	336.0	5kE	500.0													
66	632.0	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.8	1.0E	125.0	2.0E	129.1	5kE	132.8	
		2.0E	270.9	5kE	273.1	2.0E	336.0	5kE	500.0									
67	667.3	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.8	1.0E	90.0	5kE	90.1	1.0E	104.1	
		5kE	107.2	1.0E	119.4	5kE	132.3	2.0E	264.1	5kE	264.3	2.0E	269.2	5kE	274.6	2.0E	340.4	
		5kE	377.7	2.0E	381.3	5kE	500.0											
68	702.9	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.7	1.0E	82.7	5kE	110.2	1.0E	112.5	
		5kE	136.3	2.0E	177.2	5kE	177.2	2.0E	263.1	5kE	274.1	2.0E	279.1	5kE	285.0	2.0E	340.7	
		5kE	379.8	2.0E	383.5	5kE	500.0											
69	738.7	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.7	1.0E	70.7	5kE	150.3	2.0E	176.7	
		5kE	177.8	2.0E	262.2	5kE	280.2	2.0E	338.8	5kE	378.4	2.0E	385.8	5kE	500.0			
70	774.7	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.7	1.0E	67.1	5kE	156.3	2.0E	176.4	
		5kE	178.5	2.0E	190.4	5kE	191.4	2.0E	259.1	5kE	278.7	2.0E	320.1	5kE	325.1	2.0E	340.7	
		5kE	381.7	2.0E	385.6	5kE	500.0											
71	810.8	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.7	1.0E	64.4	5kE	172.8	2.0E	175.9	
		5kE	179.3	2.0E	189.9	5kE	192.6	2.0E	199.4	5kE	200.5	2.0E	259.4	5kE	277.5	2.0E	316.9	
		5kE	326.7	2.0E	348.1	5kE	380.8	2.0E	385.4	5kE	500.0							
72	847.0	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	60.7	1.0E	61.8	5kE	194.1	2.0E	197.9	
		5kE	200.7	2.0E	257.5	5kE	276.2	2.0E	287.1	5kE	289.2	2.0E	299.3	5kE	324.3	2.0E	385.1	
		5kE	500.0															
73	883.0	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	59.4	5kE	213.2	2.0E	247.8	5kE	250.1	
		2.0E	253.1	5kE	288.9	2.0E	293.4	5kE	322.2	2.0E	342.1	5kE	345.4	2.0E	379.0	5kE	500.0	
74	919.0	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	57.1	5kE	218.7	2.0E	221.9	5kE	320.1	
		2.0E	322.4	5kE	500.0													
75	954.8	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	55.2	5kE	500.0					
76	990.3	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	53.3	5kE	500.0					
77	1025.4	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	51.5	5kE	169.9	0.5E	180.4	5kE	500.0	
78	1060.2	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	49.7	5kE	73.4	4.0E	74.8	5kE	81.6	
		4.0E	82.4	5kE	164.3	0.5E	171.7	5kE	500.0									
79	1094.5	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	48.3	5kE	71.9	4.0E	76.4	5kE	81.3	
		4.0E	85.0	5kE	159.2	0.5E	167.9	5kE	500.0									
80	1128.3	1.0M	3.5	1.5M	6.9	2.0M	11.4	3.0M	20.0	4.0E	47.0	5kE	62.4	4.0E	78.1	5kE	81.0	
		4.0E	87.7	5kE	104.0	0.5E	111.7	5kE	154.3	0.5E	164.0	5kE	500.0					
81	1161.4	2.0E	0.5	4.0E	46.8	5kE	61.2	4.0E	79.7	5kE	80.8	4.0E	90.8	5kE	103.6	0.5E	126.0	
		5kE	149.8	0.5E	160.5	5kE	179.1	0.5E	187.6	5kE	201.7	0.5E	209.7	5kE	500.0			
82	1194.0	2.0E	0.5	4.0E	46.7	5kE	53.1	4.0E	54.7	5kE	61.0	4.0E	74.2	0.5E	92.7	5kE	103.5	
		0.5E	155.8	5kE	168.0	0.5E	190.7	5kE	195.2	0.5E	202.6	5kE	500.0					
83	1225.8	2.0E	0.5	4.0E	46.5	5kE	52.6	4.0E	56.0	5kE	60.7	4.0E	72.1	0.5E	94.6	5kE	98.0	
		0.5E	151.0	5kE	165.4	0.5E	195.9	5kE	500.0									
84	1256.9	2.0E	0.5	4.0E	46.5	5kE	52.1	4.0E	57.5	5kE	60.5	4.0E	70.2	0.5E	146.5	5kE	163.2	
		0.5E	186.5	5kE	500.0													
85	1287.2	2.0E	0.5	4.0E	46.3	5kE	51.8	4.0E	57.8	5kE	60.4	4.0E	68.2	0.5E	151.8	5kE	159.3	
		0.5E	177.0	5kE	500.0													

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
94	1516.8	2.0E	0.5	4.0E	34.6	5kE	36.9	4.0E	53.9	0.5E	109.0	5kE	500.0				
95	1536.9	2.0E	0.5	4.0E	34.3	5kE	36.5	4.0E	52.5	0.5E	99.6	5kE	500.0				
96	1555.8	2.0E	0.3	4.0E	34.0	5kE	36.2	4.0E	51.0	0.5E	93.8	5kE	500.0				
97	1573.5	2.0E	0.3	4.0E	33.6	5kE	35.9	4.0E	49.1	0.5E	90.6	5kE	500.0				
98	1589.9	2.0E	0.3	4.0E	33.3	5kE	35.7	4.0E	47.3	0.5E	87.5	5kE	500.0				
99	1605.1	2.0E	0.3	4.0E	33.0	5kE	35.4	4.0E	45.7	0.5E	84.8	5kE	500.0				
100	1619.0	2.0M	8.0	3.0M	17.9	4.0E	30.7	5kE	30.7	4.0E	32.7	5kE	35.2	4.0E	44.3	0.5E	81.6
		5kE	500.0														
101	1631.7	2.0M	8.0	3.0M	17.9	4.0E	30.4	5kE	30.9	4.0E	32.5	5kE	34.9	4.0E	43.0	0.5E	78.1
		5kE	500.0														
102	1643.0	2.0M	8.0	3.0M	17.9	4.0E	30.1	5kE	31.1	4.0E	32.2	5kE	34.8	4.0E	41.7	0.5E	74.8
		5kE	500.0														
103	1653.1	2.0M	8.0	3.0M	17.9	4.0E	29.8	5kE	31.1	4.0E	32.0	5kE	34.6	4.0E	40.4	0.5E	72.4
		5kE	500.0														
104	1661.8	2.0M	8.0	3.0M	17.9	4.0E	29.5	5kE	31.2	4.0E	31.9	5kE	34.3	4.0E	39.4	0.5E	71.5
		5kE	500.0														
105	1669.2	2.0M	8.0	3.0M	17.9	4.0E	29.3	5kE	31.4	4.0E	31.7	5kE	34.1	4.0E	38.3	0.5E	70.5
		5kE	500.0														
106	1675.2	2.0M	8.0	3.0M	17.9	4.0E	29.0	5kE	34.0	4.0E	37.3	0.5E	69.7	5kE	500.0		
107	1680.0	2.0M	8.0	3.0M	17.9	4.0E	28.8	5kE	33.8	4.0E	36.4	0.5E	68.7	5kE	500.0		
108	1683.3	2.0M	8.0	3.0M	17.9	4.0E	28.6	5kE	33.6	4.0E	35.6	0.5E	67.9	5kE	500.0		
109	1685.4	2.0M	8.0	3.0M	17.9	4.0E	28.3	5kE	33.6	4.0E	34.8	0.5E	67.3	5kE	500.0		
110	1686.0	2.0M	8.0	3.0M	17.9	4.0E	28.2	5kE	33.5	4.0E	34.0	0.5E	66.5	5kE	500.0		
111	1685.4	2.0M	8.0	3.0M	17.9	4.0E	28.0	5kE	33.3	0.5E	44.1	5kE	53.3	0.5E	62.9	5kE	500.0
112	1683.3	2.0M	8.0	3.0M	17.9	4.0E	27.8	5kE	33.3	0.5E	44.3	5kE	52.8	0.5E	59.7	5kE	500.0
113	1680.0	2.0M	8.0	3.0M	17.9	4.0E	27.7	5kE	33.3	0.5E	44.4	5kE	52.3	0.5E	56.6	5kE	500.0
114	1675.2	2.0M	8.0	3.0M	17.9	4.0E	27.5	5kE	33.3	0.5E	44.6	5kE	51.8	0.5E	54.1	5kE	500.0
115	1669.2	2.0M	8.0	3.0M	17.9	4.0E	27.4	5kE	33.3	0.5E	44.7	5kE	51.3	0.5E	51.7	5kE	500.0
116	1661.8	2.0M	8.0	3.0M	17.9	4.0E	27.2	5kE	33.3	0.5E	44.9	5kE	500.0				
117	1653.1	2.0M	8.0	3.0M	17.9	4.0E	27.2	5kE	33.3	0.5E	45.1	5kE	500.0				
118	1643.0	2.0M	8.0	3.0M	17.9	4.0E	27.0	5kE	33.3	0.5E	45.4	5kE	500.0				
119	1631.7	2.0M	8.0	3.0M	17.9	4.0E	27.0	5kE	33.5	0.5E	45.5	5kE	500.0				
120	1619.0	2.0M	8.0	3.0M	17.9	4.0E	27.5	5kE	33.5	0.5E	45.9	5kE	500.0				
121	1605.1	2.0E	0.3	4.0E	28.0	5kE	33.5	0.5E	44.9	5kE	500.0						
122	1589.9	2.0E	0.3	4.0E	28.5	5kE	34.0	0.5E	43.9	5kE	500.0						
123	1573.5	2.0E	0.3	4.0E	29.1	5kE	34.6	0.5E	43.0	5kE	500.0						
124	1555.8	2.0E	0.3	4.0E	29.8	5kE	35.2	0.5E	42.2	5kE	500.0						
125	1536.9	2.0E	0.3	4.0E	30.4	5kE	36.0	0.5E	41.4	5kE	500.0						
126	1516.8	2.0E	0.3	4.0E	31.1	5kE	36.7	0.5E	40.6	5kE	500.0						
127	1495.6	2.0E	0.3	4.0E	31.7	5kE	37.5	0.5E	39.8	5kE	500.0						
128	1473.2	2.0E	0.3	4.0E	32.5	5kE	38.5	0.5E	39.1	5kE	500.0						
129	1449.7	2.0E	0.3	4.0E	33.3	5kE	500.0										
130	1425.1	2.0E	0.3	4.0E	34.1	5kE	500.0										
131	1399.5	2.0E	0.3	4.0E	34.0	5kE	500.0										
132	1372.8	2.0E	0.3	4.0E	33.8	5kE	500.0										
133	1345.2	2.0E	0.3	4.0E	33.8	5kE	500.0										
134	1316.7	2.0E	0.3	4.0E	33.6	5kE	500.0										
135	1287.2	2.0E	0.3	4.0E	33.6	5kE	500.0										
136	1256.9	2.0E	0.3	4.0E	33.5	5kE	500.0										
137	1225.8	2.0E	0.3	4.0E	33.5	5kE	500.0										
138	1194.0	2.0E	0.5	4.0E	33.5	5kE	500.0										
139	1161.4	2.0E	0.5	4.0E	33.3	5kE	500.0										
140	1128.2	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	500.0						
141	1094.5	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	49.7	4.0E	49.7	5kE	500.0		
142	1060.2	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	49.7	4.0E	51.0	5kE	500.0		
143	1025.4	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	49.9	4.0E	52.3	5kE	500.0		
144	990.3	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	50.1	4.0E	53.8	5kE	500.0		
145	954.8	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	50.1	4.0E	55.4	5kE	500.0		
146	919.0	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	50.2	4.0E	57.0	5kE	500.0		
147	883.0	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.5	5kE	49.2	4.0E	58.7	5kE	500.0		
148	846.9	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.5	5kE	47.6	4.0E	60.5	5kE	500.0		
149	810.8	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.5	5kE	46.2	4.0E	62.3	5kE	500.0		
150	774.7	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.6	5kE	44.9	4.0E	63.6	5kE	500.0		
151	738.7	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.6	5kE	44.1	4.0E	65.0	5kE	500.0		
152	702.8	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.6	5kE	43.8	4.0E	66.5	5kE	500.0		
153	667.3	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.5	5kE	43.3	4.0E	67.9	5kE	500.0		
154	632.0	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.3	5kE	43.0	4.0E	69.5	5kE	500.0		
155	597.1	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.2	5kE	42.6	4.0E	71.3	5kE	500.0		
156	562.7	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.2	5kE	42.2	4.0E	73.1	5kE	500.0		
157	528.9	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	33.0	5kE	42.0	4.0E	75.0	5kE	500.0		
158	495.7	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	32.8	5kE	41.7	4.0E	77.1	5kE	500.0		
159	463.3	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	32.8	5kE	41.4	4.0E	79.3	5kE	500.0		
160	431.6	1.5M	1.1	2.0M	8.0	3.0M	15.6	4.0E	32.7	5kE	41.0	4.0E	81.8	5kE	500.0		
161	400.7	2.0E	0.5	4.0E	32.7	5kE	40.9	4.0E	84.2	5kE	500.0						
162	370.8	2.0E	0.5	4.0E	32.5	5kE	40.6	4.0E	85.0	5kE	500.0						
163	341.9	2.0E	0.5	4.0E	32.5	5kE	40.4	4.0E	84.5	5kE	500.0						
164	314.0	2.0E	0.5	4.0E	32.3	5kE	39.1	4.0E	84.0	5kE	88.4	4.0E	89.2	5kE	500.0		
165	287.3	2.0E	0.6	4.0E	32.3	5kE	38.0	4.0E	83.7	5kE	85.5	4.0E	91.9	5kE	500.0		
166	261.8	2.0E	0.6	4.0E	32.3	5kE	36.9	4.0E	95.0	5kE	500.0						
167	237.5	2.0E	0.6	4.0E	32.3	5kE	35.7	4.0E	98.3	5kE	500.0						
168	214.5	2.0E	0.6	4.0E	32.3	5kE	34.9	4.0E	103.8	5kE	500.0						
169	193.0	2.0E	0.6	4.0E	32.3	5kE	34.0	4.0E	107.8	5kE	500.0						
170	172.9	2.0E	0.6	4.0E	32.3	5kE	33.2	4.0E	110.6	5kE	500.0						
171	154.3	2.0E	0.6	4.0E	113.3	5kE	118.8	4.0E	119.3	5kE	500.0						
172	137.4	2.0E	0.6	4.0E	123.1	5kE	500.0										
173	122.2	2.0E	0.6</														

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
175	97.1	2.0M	20.1	4.0E	129.2	5kE	500.0										
176	87.5	2.0M	20.1	4.0E	131.2	5kE	500.0										
177	79.8	2.0M	20.1	4.0E	132.9	5kE	500.0										
178	74.0	2.0M	20.1	4.0E	135.0	5kE	136.8	4.0E	142.1	5kE	500.0						
179	70.0	2.0M	20.1	4.0E	140.5	5kE	500.0										
180	67.5	2.0M	20.1	4.0E	139.0	5kE	500.0										
181	66.1	2.0M	20.1	4.0E	137.6	5kE	139.7	4.0E	150.5	5kE	500.0						
182	65.7	2.0M	20.1	4.0E	149.3	5kE	500.0										
183	65.8	2.0M	20.1	4.0E	151.1	5kE	154.8	4.0E	157.9	5kE	500.0						
184	66.2	2.0M	20.1	4.0E	161.3	5kE	500.0										
185	66.7	2.0M	20.1	4.0E	164.8	5kE	500.0										
186	67.2	2.0M	20.1	4.0E	165.6	5kE	169.3	4.0E	171.4	5kE	500.0						
187	67.5	2.0M	20.1	4.0E	165.3	5kE	169.0	4.0E	175.9	5kE	500.0						
188	67.7	2.0M	20.1	4.0E	164.8	5kE	167.4	4.0E	180.6	5kE	500.0						
189	67.8	2.0M	20.1	4.0E	164.5	5kE	165.4	4.0E	192.6	5kE	500.0						
190	67.7	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	196.0	5kE	500.0						
191	67.6	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	207.4	5kE	500.0						
192	67.4	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	211.3	5kE	500.0						
193	67.2	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	212.4	5kE	264.6	2.0E	269.2	5kE	500.0		
194	67.2	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	187.2	5kE	207.0	4.0E	212.6	5kE	249.6	2.0E	268.9
		5kE	270.2	2.0E	273.6	5kE	275.7	2.0E	289.4	5kE	295.3	4.0E	212.6	5kE	249.6		
195	67.3	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	186.8	5kE	237.5	4.0E	244.9	2.0E	301.9	5kE	500.0
196	67.5	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	186.7	5kE	230.5	4.0E	247.0	2.0E	320.6	5kE	500.0
197	68.0	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	186.4	5kE	230.9	4.0E	249.1	2.0E	356.1	5kE	365.8
		2.0E	371.4	5kE	475.9	4.0E	476.0	5kE	492.0	4.0E	496.8	5kE	500.0				
198	68.7	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	186.2	5kE	229.7	4.0E	251.4	2.0E	382.2	5kE	462.8
		4.0E	498.3	5kE	498.7	4.0E	500.0										
199	69.6	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	186.5	5kE	227.2	4.0E	253.8	2.0E	400.1	5kE	425.5
		2.0E	431.5	5kE	455.0	4.0E	500.0										
200	70.7	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	189.7	5kE	224.8	4.0E	256.2	2.0E	334.3	5kE	338.8
		2.0E	342.0	5kE	355.0	2.0E	362.7	5kE	364.0	2.0E	368.9	5kE	369.8	2.0E	422.9	5kE	458.2
		4.0E	500.0														
201	72.0	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	190.2	5kE	222.6	4.0E	258.9	2.0E	335.9	5kE	458.2
		4.0E	500.0														
202	73.4	1.5M	1.3	2.0M	6.0	3.0M	19.8	4.0E	187.2	5kE	217.9	4.0E	261.5	2.0E	342.1	5kE	460.0
		4.0E	463.3	5kE	471.1	4.0E	500.0										
203	74.9	2.0M	20.0	4.0E	186.2	5kE	213.7	4.0E	263.6	2.0E	318.5	5kE	319.0	2.0E	327.8	5kE	333.0
		2.0E	336.2	5kE	441.6	4.0E	458.7	5kE	468.5	4.0E	500.0						
204	76.4	2.0M	20.0	4.0E	185.6	5kE	212.4	4.0E	265.7	2.0E	321.4	5kE	410.4	2.0E	414.6	5kE	416.5
		2.0E	420.0	5kE	441.4	4.0E	459.0	5kE	466.5	4.0E	480.4	5kE	481.0	4.0E	500.0		
205	77.8	2.0M	20.0	4.0E	185.1	5kE	211.3	4.0E	268.1	2.0E	312.7	5kE	317.2	2.0E	324.3	5kE	404.9
		2.0E	417.3	5kE	426.5	2.0E	430.5	5kE	438.1	2.0E	452.9	4.0E	455.4	5kE	463.8	4.0E	500.0
206	79.2	2.0M	20.0	4.0E	184.6	5kE	206.5	4.0E	270.5	2.0E	299.2	5kE	397.3	2.0E	402.7	5kE	403.3
		2.0E	414.7	5kE	415.9	2.0E	420.4	5kE	422.3	2.0E	434.4	5kE	437.4	2.0E	454.5	5kE	462.2
		2.0E	500.0														
207	80.4	2.0M	20.0	4.0E	183.5	5kE	196.7	4.0E	272.9	2.0E	313.2	5kE	367.4	4.0E	368.5	5kE	375.5
		4.0E	392.2	5kE	397.3	2.0E	432.9	5kE	436.9	2.0E	445.8	5kE	453.5	2.0E	500.0		
208	81.4	2.0M	20.0	4.0E	182.3	5kE	193.1	4.0E	275.7	2.0E	303.7	5kE	312.1	2.0E	318.5	5kE	359.0
		4.0E	368.5	5kE	370.3	4.0E	392.2	5kE	399.1	2.0E	428.9	5kE	432.4	2.0E	449.2	5kE	455.1
		2.0E	500.0														
209	82.3	2.0M	20.0	4.0E	181.4	5kE	189.9	4.0E	278.4	2.0E	316.2	5kE	359.5	4.0E	368.5	5kE	368.7
		4.0E	393.3	5kE	398.8	2.0E	425.0	5kE	428.2	2.0E	450.3	5kE	453.5	2.0E	500.0		
210	82.8	2.0M	20.0	4.0E	180.4	5kE	187.8	4.0E	281.5	2.0E	314.5	5kE	345.4	4.0E	348.9	5kE	360.2
		4.0E	388.7	5kE	394.5	2.0E	421.5	5kE	424.4	2.0E	452.4	5kE	456.4	2.0E	500.0		
211	83.2	2.0M	20.0	4.0E	179.4	5kE	186.8	4.0E	284.5	2.0E	312.7	5kE	337.2	4.0E	346.7	5kE	360.5
		4.0E	387.7	5kE	392.2	2.0E	420.4	5kE	420.5	2.0E	500.0						
212	83.2	2.0M	20.0	4.0E	178.6	5kE	186.0	4.0E	283.6	5kE	286.0	4.0E	288.2	2.0E	314.6	5kE	334.4
		4.0E	344.2	5kE	363.6	4.0E	387.7	5kE	391.6	2.0E	500.0						
213	83.0	2.0M	20.0	4.0E	177.8	5kE	185.2	4.0E	282.4	5kE	287.4	4.0E	291.6	5kE	298.7	2.0E	311.1
		5kE	328.1	4.0E	340.4	5kE	341.0	4.0E	347.1	5kE	355.8	4.0E	385.4	5kE	387.9	2.0E	500.0
214	82.5	2.0M	20.0	4.0E	121.8	5kE	122.8	4.0E	175.7	5kE	184.6	4.0E	276.2	5kE	289.0	4.0E	294.0
		5kE	306.1	2.0E	307.9	5kE	318.5	4.0E	326.4	5kE	330.7	4.0E	347.1	5kE	353.9	4.0E	383.0
		5kE	386.1	2.0E	500.0												
215	81.8	2.0M	20.0	4.0E	123.9	5kE	126.0	4.0E	173.5	5kE	183.9	4.0E	268.3	5kE	274.1	4.0E	276.8
		5kE	290.6	4.0E	291.8	5kE	316.9	4.0E	324.4	5kE	328.8	4.0E	347.1	5kE	357.0	4.0E	380.6
		5kE	384.5	2.0E	500.0												
216	80.8	2.0M	20.1	4.0E	126.2	5kE	129.6	4.0E	167.7	5kE	179.9	4.0E	258.3	5kE	264.3	4.0E	268.8
		5kE	272.8	4.0E	276.5	5kE	279.5	4.0E	281.3	5kE	315.4	4.0E	322.7	5kE	328.3	4.0E	346.8
		5kE	359.5	4.0E	377.9	5kE	381.4	4.0E	383.0	2.0E	500.0						
217	79.6	2.0M	20.1	4.0E	128.6	5kE	133.4	4.0E	166.4	5kE	172.5	4.0E	256.9	5kE	262.3	4.0E	264.9
		5kE	271.5	4.0E	285.2	5kE	310.8	4.0E	324.8	5kE	328.3	4.0E	352.1	5kE	361.5	4.0E	381.9
		2.0E	500.0														
218	78.3	2.0M	20.1	4.0E	131.2	5kE	137.4	4.0E	165.3	5kE	171.7	4.0E	251.2	5kE	251.7	4.0E	260.2
		5kE	304.0	4.0E	323.5	5kE	327.2	4.0E	349.1	5kE	363.6	4.0E	380.8	2.0E	500.0		
219	76.8	2.0M	20.1	4.0E	135.2	5kE	141.6	4.0E	144.0	5kE	170.9	4.0E	234.0	5kE	297.6	4.0E	325.1
		5kE	326.2	4.0E	345.0	5kE	348.4	4.0E	352.8	5kE	360.7	4.0E	379.6	2.0E	500.0		
220	75.3	2.0M	20.1	4.0E	141.6	5kE	147.3	4.0E	242.4	5kE	248.5	4.0E	250.3	5kE	295.3	4.0E	353.6
		5kE	359.2	4.0E	378.5	2.0E	500.0										
221	73.7	2.0M	20.1	4.0E	206.8	5kE	208.6	4.0E	247.7	5kE	284.0	4.0E	351.2	5kE	354.4	4.0E	377.6
		2.0E	500.0														
222	72.2	2.0M	20.1	4.0E	208.7	5kE	211.6	4.0E	245.4	5kE	266.7	4.0E	268.0	5kE	273.7	4.0E	277.1
		5kE	279.7	4.0E	283.4	5kE	283.9	4.0E	346.8	5kE	356.6	4.0E	375.6	2.0E	500.0		
223	70.8	2.0M	20.1	4.0E	188.1	5kE	207.4	4.0E	212.0	5kE	215.0	4.0E	238.8	5kE	264.7		

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
227	67.5	2.0M	5.8	3.0M	17.7	4.0E	201.0	5kE	202.6	4.0E	221.8	5kE	225.5	4.0E	231.3	5kE	236.3
		4.0E	238.7	5kE	241.7	4.0E	244.9	5kE	246.2	4.0E	251.1	5kE	257.7	4.0E	313.8	5kE	316.9
		4.0E	345.2	2.0E	500.0												
228	67.5	2.0M	5.8	3.0M	17.7	4.0E	218.2	5kE	221.8	4.0E	244.9	5kE	245.6	4.0E	252.8	5kE	260.7
		4.0E	315.4	2.0E	500.0												
229	67.8	2.0M	5.8	3.0M	17.7	4.0E	255.7	5kE	259.1	4.0E	291.0	2.0E	500.0				
230	68.4	2.0M	5.8	3.0M	17.7	4.0E	258.8	5kE	259.4	4.0E	265.4	2.0E	500.0				
231	69.3	2.0M	5.8	3.0M	17.7	4.0E	251.9	2.0E	500.0								
232	70.5	2.0M	5.8	3.0M	17.7	4.0E	242.9	2.0E	500.0								
233	71.9	2.0M	5.8	3.0M	17.7	4.0E	236.3	2.0E	500.0								
234	73.5	2.0M	5.8	3.0M	17.7	4.0E	234.0	2.0E	500.0								
235	75.2	2.0M	5.8	3.0M	17.7	4.0E	234.0	2.0E	500.0								
236	76.9	2.0M	5.8	3.0M	17.7	4.0E	236.1	2.0E	500.0								
237	78.5	2.0M	5.8	3.0M	17.7	4.0E	238.5	2.0E	500.0								
238	80.1	2.0M	5.8	3.0M	17.7	4.0E	241.6	2.0E	500.0								
239	81.6	2.0E	10.3	4.0E	247.2	2.0E	500.0										
240	82.9	2.0M	10.0	1.5M	18.5	4.0E	253.1	2.0E	500.0								
241	84.0	2.0M	10.0	1.5M	18.5	4.0E	259.6	2.0E	500.0								
242	84.9	2.0M	10.0	1.5M	18.5	4.0E	266.3	2.0E	500.0								
243	85.6	2.0M	10.0	1.5M	18.5	4.0E	269.6	2.0E	500.0								
244	86.0	2.0M	10.0	1.5M	18.5	4.0E	272.5	2.0E	500.0								
245	86.1	2.0M	10.0	1.5M	18.5	4.0E	272.9	2.0E	500.0								
246	86.0	2.0M	10.0	1.5M	18.5	4.0E	268.9	2.0E	500.0								
247	85.6	2.0M	10.0	1.5M	18.5	4.0E	262.6	2.0E	381.1	4.0E	470.4	2.0E	500.0				
248	85.0	2.0M	10.0	1.5M	18.5	4.0E	254.9	2.0E	368.5	4.0E	492.0	2.0E	500.0				
249	84.3	2.0M	10.0	1.5M	18.5	4.0E	247.8	2.0E	356.8	4.0E	500.0						
250	83.3	2.0M	10.0	1.5M	18.5	4.0E	241.1	2.0E	345.8	4.0E	500.0						
251	82.3	2.0M	10.0	1.5M	18.5	4.0E	235.1	2.0E	335.7	4.0E	500.0						
252	81.2	2.0M	10.0	1.5M	18.5	4.0E	230.0	2.0E	328.5	4.0E	500.0						
253	80.1	2.0M	10.0	1.5M	18.5	4.0E	225.1	2.0E	322.2	4.0E	500.0						
254	79.1	2.0M	9.8	1.5M	18.8	4.0E	220.6	2.0E	316.2	4.0E	500.0						
255	78.2	2.0M	9.8	1.5M	18.8	2.0E	19.2	4.0E	216.3	2.0E	310.6	4.0E	500.0				
256	77.6	2.0M	9.8	1.5M	18.8	2.0E	19.6	4.0E	212.1	2.0E	306.1	4.0E	500.0				
257	77.4	2.0M	9.8	1.5M	18.8	2.0E	20.3	4.0E	204.5	2.0E	301.9	4.0E	491.8	2.0E	500.0		
258	77.5	2.0M	9.8	1.5M	18.8	2.0E	20.8	4.0E	197.5	2.0E	298.1	4.0E	496.5	2.0E	500.0		
259	78.1	2.0M	9.8	1.5M	18.8	2.0E	21.4	4.0E	190.2	2.0E	294.3	4.0E	500.0				
260	79.2	2.0M	9.8	1.5M	18.8	2.0E	22.0	4.0E	147.3	2.0E	290.6	4.0E	500.0				
261	80.9	2.0M	9.8	1.5M	18.8	2.0E	22.7	4.0E	137.1	2.0E	288.2	4.0E	369.3	2.0E	376.3	4.0E	500.0
262	83.1	2.0M	9.8	1.5M	18.8	2.0E	23.5	4.0E	128.4	2.0E	286.3	4.0E	360.8	2.0E	381.7	4.0E	500.0
263	85.9	2.0M	9.8	1.5M	18.8	2.0E	24.3	4.0E	121.2	2.0E	284.5	4.0E	353.9	2.0E	386.6	4.0E	500.0
264	89.2	2.0M	9.8	1.5M	18.8	2.0E	25.3	4.0E	116.5	2.0E	282.9	4.0E	348.9	2.0E	391.7	4.0E	500.0
265	93.0	2.0M	9.8	1.5M	18.8	2.0E	26.1	4.0E	112.3	2.0E	282.3	4.0E	344.1	2.0E	397.0	4.0E	500.0
266	97.2	2.0M	9.8	1.5M	18.8	2.0E	27.2	4.0E	108.3	2.0E	281.6	4.0E	339.6	2.0E	401.9	4.0E	500.0
267	101.8	2.0M	9.8	1.5M	18.8	2.0E	28.3	4.0E	104.8	2.0E	281.2	4.0E	335.2	2.0E	406.7	4.0E	500.0
268	106.7	2.0M	9.8	1.5M	18.8	2.0E	29.6	4.0E	101.4	2.0E	282.4	4.0E	331.0	2.0E	411.7	4.0E	500.0
269	111.8	2.0E	30.6	4.0E	98.5	2.0E	284.7	4.0E	327.2	2.0E	417.0	4.0E	500.0				
270	117.1	2.0E	31.4	4.0E	96.1	2.0E	286.8	4.0E	322.7	2.0E	422.6	4.0E	500.0				
271	122.4	2.0E	32.3	4.0E	94.0	2.0E	293.7	4.0E	317.5	2.0E	428.4	4.0E	500.0				
272	127.9	2.0E	33.2	4.0E	91.9	2.0E	435.5	4.0E	500.0								
273	133.3	2.0E	34.1	4.0E	90.0	2.0E	443.1	4.0E	499.1	8.0E	500.0						
274	138.6	2.0E	35.2	4.0E	88.2	2.0E	450.9	4.0E	490.2	8.0E	500.0						
275	143.9	2.0E	36.4	4.0E	86.4	2.0E	459.3	4.0E	482.6	8.0E	500.0						
276	149.0	2.0E	37.5	4.0E	84.8	2.0E	468.2	4.0E	477.7	8.0E	500.0						
277	153.9	2.0E	38.8	4.0E	83.2	2.0E	473.8	8.0E	500.0								
278	158.6	2.0E	40.2	4.0E	81.8	2.0E	471.1	8.0E	500.0								
279	163.1	2.0E	41.7	4.0E	80.3	2.0E	468.8	8.0E	500.0								
280	167.2	6.0M	7.6	2.0M	19.8	2.0E	43.3	4.0E	79.0	2.0E	467.0	8.0E	500.0				
281	171.1	6.0M	7.6	2.0M	19.8	2.0E	45.2	4.0E	77.7	2.0E	140.5	4.0E	144.7	2.0E	465.6	8.0E	500.0
282	174.6	6.0M	7.6	2.0M	19.8	2.0E	47.0	4.0E	76.6	2.0E	129.4	4.0E	156.8	2.0E	464.6	8.0E	500.0
283	177.7	6.0M	7.6	2.0M	19.8	2.0E	48.6	4.0E	75.5	2.0E	125.0	4.0E	163.0	2.0E	464.1	8.0E	500.0
284	180.5	6.0M	7.6	2.0M	19.8	2.0E	50.4	4.0E	74.2	2.0E	121.8	4.0E	169.9	2.0E	462.8	8.0E	500.0
285	182.8	6.0M	7.6	2.0M	19.8	2.0E	52.3	4.0E	72.9	2.0E	118.8	4.0E	176.7	2.0E	237.7	4.0E	305.0
		2.0E	460.0	4.0E	500.0												
286	184.8	6.0M	7.6	2.0M	19.8	2.0E	54.4	4.0E	71.6	2.0E	116.0	4.0E	185.2	2.0E	217.4	4.0E	397.2
		2.0E	453.5	4.0E	500.0												
287	186.3	6.0M	7.6	2.0M	19.8	2.0E	56.6	4.0E	70.3	2.0E	113.3	4.0E	500.0				
288	187.4	6.0M	7.6	2.0M	19.8	2.0E	59.1	4.0E	69.4	2.0E	110.7	4.0E	500.0				
289	188.1	6.0M	7.6	2.0M	19.8	2.0E	108.3	4.0E	500.0								
290	188.3	6.0M	7.6	2.0M	19.8	2.0E	106.1	4.0E	493.1	8.0E	500.0						
291	188.1	6.0M	7.6	2.0M	19.8	2.0E	104.0	4.0E	487.3	8.0E	500.0						
292	187.4	6.0M	7.6	2.0M	19.8	2.0E	101.9	4.0E	477.2	8.0E	500.0						
293	186.3	6.0M	7.6	2.0M	19.8	2.0E	100.1	4.0E	445.8	8.0E	500.0						
294	184.8	6.0M	7.6	2.0M	19.8	2.0E	98.2	4.0E	440.5	8.0E	491.3	10.0E	500.0				
295	182.8	6.0M	7.6	2.0M	19.8	2.0E	96.6	4.0E	437.1	8.0E	483.6	10.0E	500.0				
296	180.5	6.0M	7.6	2.0M	19.8	2.0E	95.0	4.0E	433.9	8.0E	476.2	10.0E	500.0				
297	177.7	6.0M	7.6	2.0M	19.8	2.0E	93.3	4.0E	430.8	8.0E	469.3	10.0E	500.0				
298	174.6	6.0M	7.6	2.0M	19.8	2.0E	91.9	4.0E	427.8	8.0E	464.1	10.0E	500.0				
299	171.1	6.0M	7.6	2.0M	19.8	2.0E	90.4	4.0E	424.4	8.0E	460.0	10.0E	497.9	8.0E	500.0		
300	167.2	6.0M	7.6	2.0M	19.8	2.0E	89.2	4.0E	421.3	8.0E	455.6	10.0E	481.5	8.0E	500.0		
301	163.1	2.0E	87.9	4.0E	418.3	8.0E	450.0	10.0E	468.5	8.0E	500.0						
302	158.6	2.0E	86.6	4.0E	416.5	8.0E	444.5	10.0E	452.4	8.0E	500.0						
303	153.9	2.0E	85.6	4.0E	414.9	8.0E	442.6	10.0E	444.0	8.0E	500.0						

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
309	122.4	2.0E	81.1	4.0E	348.6	8.0E	488.8	15.0E	500.0								
310	117.1	2.0E	80.5	4.0E	349.7	8.0E	484.1	15.0E	500.0								
311	111.8	2.0E	79.8	4.0E	351.8	8.0E	478.1	15.0E	500.0								
312	106.7	2.0E	79.3	4.0E	354.7	8.0E	471.7	15.0E	500.0								
313	101.8	2.0E	78.9	4.0E	358.9	8.0E	465.6	15.0E	500.0								
314	97.2	2.0E	78.2	4.0E	363.4	8.0E	457.7	15.0E	500.0								
315	93.0	2.0E	77.9	4.0E	367.9	8.0E	450.0	15.0E	495.2	8.0E	500.0						
316	89.2	2.0E	77.4	4.0E	372.6	8.0E	442.2	15.0E	488.9	8.0E	500.0						
317	85.9	2.0E	76.9	4.0E	376.7	8.0E	434.0	15.0E	482.6	8.0E	500.0						
318	83.1	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	76.6	4.0E	375.6	8.0E	426.2	15.0E	476.8	8.0E	500.0
319	80.9	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	76.3	4.0E	372.7	8.0E	418.8	15.0E	471.5	8.0E	500.0
320	79.2	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	76.0	4.0E	366.8	8.0E	411.7	15.0E	465.3	8.0E	499.1
		5.0E	500.0														
321	78.1	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	75.6	4.0E	362.1	8.0E	405.6	15.0E	459.0	5.0E	469.6
		8.0E	483.6	4.0E	500.0												
322	77.5	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	75.3	4.0E	356.0	8.0E	399.8	15.0E	454.8	5.0E	488.0
		4.0E	500.0														
323	77.4	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	75.0	4.0E	349.4	8.0E	394.3	15.0E	451.7	5.0E	495.8
		4.0E	500.0														
324	77.6	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.8	4.0E	348.3	8.0E	389.1	15.0E	448.0	5.0E	500.0
325	78.2	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.7	4.0E	344.2	8.0E	384.2	15.0E	429.9	5.0E	500.0
326	79.1	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.4	4.0E	343.8	8.0E	379.3	15.0E	417.6	5.0E	420.0
		15.0E	426.0	5.0E	500.0												
327	80.1	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.2	4.0E	344.2	8.0E	374.8	15.0E	408.8	5.0E	500.0
328	81.2	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.0	4.0E	345.7	8.0E	371.3	15.0E	407.6	5.0E	500.0
329	82.3	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	74.0	4.0E	346.5	8.0E	374.7	15.0E	407.0	5.0E	410.4
		15.0E	414.6	5.0E	500.0												
330	83.3	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	73.9	4.0E	346.7	8.0E	378.2	15.0E	406.7	5.0E	407.2
		15.0E	416.8	5.0E	500.0												
331	84.3	1.5M	1.8	2.0M	10.9	1.0M	20.0	2.0E	73.9	4.0E	346.8	8.0E	381.9	15.0E	417.1	5.0E	500.0
332	85.0	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.7	4.0E	344.1	8.0E	385.8	15.0E	419.7	5.0E	500.0
333	85.6	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.7	4.0E	342.0	8.0E	389.8	15.0E	416.3	4.0E	436.0
		5.0E	500.0														
334	86.0	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.7	4.0E	344.6	8.0E	394.1	15.0E	417.8	4.0E	447.1
		5.0E	500.0														
335	86.1	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.7	4.0E	353.4	8.0E	398.6	15.0E	421.0	4.0E	457.4
		5.0E	500.0														
336	86.0	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.7	4.0E	376.1	8.0E	403.0	15.0E	418.8	4.0E	466.5
		5.0E	500.0														
337	85.6	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.9	4.0E	373.5	8.0E	387.4	4.0E	389.6	8.0E	390.7
		4.0E	405.9	15.0E	417.0	4.0E	475.7	5.0E	500.0								
338	84.9	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	73.9	4.0E	378.7	8.0E	381.6	4.0E	385.9	8.0E	393.5
		4.0E	408.5	15.0E	415.4	4.0E	500.0										
339	84.0	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.0	4.0E	407.5	15.0E	414.7	4.0E	500.0		
340	82.9	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.0	4.0E	414.7	4.0E	500.0				
341	81.6	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.2	4.0E	415.9	4.0E	500.0				
342	80.1	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.4	4.0E	416.8	4.0E	500.0				
343	78.5	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.7	4.0E	416.0	4.0E	500.0				
344	76.9	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.5	4.0E	422.1	4.0E	500.0				
345	75.2	3.0M	9.0	2.0M	11.4	1.0M	18.0	2.0E	74.2	4.0E	428.9	4.0E	500.0				
346	73.5	2.0E	74.0	4.0E	433.1	4.0E	500.0										
347	71.9	2.0E	73.9	4.0E	437.4	4.0E	500.0										
348	70.5	2.0E	73.7	4.0E	442.1	4.0E	500.0										
349	69.3	2.0E	73.5	4.0E	447.1	4.0E	500.0										
350	68.4	2.0E	73.5	4.0E	452.2	4.0E	500.0										
351	67.8	2.0E	73.2	4.0E	457.5	4.0E	500.0										
352	67.5	2.0E	72.1	4.0E	460.6	4.0E	500.0										
353	67.5	2.0E	71.0	4.0E	463.8	4.0E	500.0										
354	67.9	2.0E	70.0	4.0E	468.0	4.0E	500.0										
355	68.6	2.0E	69.0	4.0E	469.0	4.0E	500.0										
356	69.6	2.0E	68.1	4.0E	468.3	4.0E	500.0										
357	70.8	2.0E	67.1	4.0E	467.8	4.0E	500.0										
358	72.2	2.0E	66.0	2.0E	247.5	2.0E	261.2	4.0E	467.5	4.0E	500.0						
359	73.7	3.0M	0.8	1.5M	1.8	2.0M	11.4	1.5M	14.0	1.0M	19.2	2.0E	64.7	2.0E	243.2	2.0E	265.9
		4.0E	467.4	4.0E	500.0												



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az	Region mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
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Radio Station WHEN - 620 kHz, Syracuse, New York

Source(s) of Measured Data:

FCC File No. BMP19990713AG, WEJL Application for Construction Permit
plus 1999 Measurements on 135°T (see Exhibit 14H)

Coordinates: N 43 5 32 W 76 11 22

0	284.9	4.0E 86.7	8.0E 96.9	4.0E 100.1	8.0E 108.6	4.0E 123.9	15.0E 131.5	4.0E 253.8	5.0E 323.3
1	284.9	4.0E 370.0	8.0E 96.6	4.0E 101.4	8.0E 109.3	4.0E 132.4	4.0E 252.2	5.0E 323.5	4.0E 370.0
2	284.9	4.0E 93.8	8.0E 97.4	4.0E 102.8	8.0E 105.4	4.0E 133.9	4.0E 250.9	5.0E 323.6	4.0E 370.0
3	284.9	4.0E 95.1	8.0E 98.8	4.0E 135.3	4.0E 249.9	5.0E 324.3	4.0E 370.0		
4	284.9	4.0E 96.4	8.0E 100.4	4.0E 137.0	4.0E 249.0	5.0E 324.9	4.0E 370.0		
5	284.9	4.0E 97.7	8.0E 98.7	4.0E 138.6	4.0E 248.0	5.0E 325.7	4.0E 370.0		
6	284.9	4.0E 140.3	4.0E 247.7	5.0E 326.5	4.0E 370.0				
7	284.9	4.0E 141.3	4.0E 247.7	5.0E 327.7	4.0E 370.0				
8	284.9	4.0E 142.3	4.0E 247.8	5.0E 329.4	4.0E 370.0				
9	284.9	4.0E 143.2	4.0E 248.0	5.0E 331.4	4.0E 370.0				
10	284.9	4.0E 145.5	4.0E 248.2	5.0E 333.3	4.0E 370.0				
11	284.9	4.0E 153.2	4.0E 248.5	5.0E 335.4	4.0E 370.0				
12	284.9	4.0E 161.4	4.0E 249.1	5.0E 337.6	4.0E 370.0				
13	284.9	4.0E 165.9	4.0E 250.3	5.0E 338.9	4.0E 370.0				
14	284.9	4.0E 170.8	4.0E 251.4	5.0E 340.4	4.0E 370.0				
15	284.9	4.0E 175.9	4.0E 252.7	5.0E 340.2	4.0E 370.0				
16	284.9	4.0E 181.4	4.0E 254.0	5.0E 340.1	4.0E 370.0				
17	284.9	4.0E 187.3	4.0E 255.4	5.0E 339.1	4.0E 370.0				
18	284.9	4.0E 193.8	4.0E 257.0	5.0E 337.6	4.0E 370.0				
19	284.9	4.0E 200.7	4.0E 259.6	5.0E 333.5	4.0E 370.0				
20	284.9	4.0E 208.1	4.0E 262.6	5.0E 327.5	4.0E 370.0				
21	284.9	4.0E 213.4	4.0E 265.7	5.0E 320.4	4.0E 370.0				
22	284.9	4.0E 218.2	4.0E 270.4	5.0E 313.7	4.0E 370.0				
23	284.9	4.0E 223.4	4.0E 277.5	5.0E 300.5	4.0E 370.0				
24	284.9	4.0E 229.7	4.0E 370.0						
25	284.9	4.0E 234.8	4.0E 370.0						
26	284.9	4.0E 236.9	4.0E 370.0						
27	284.9	4.0E 239.0	4.0E 370.0						
28	284.9	4.0E 241.4	4.0E 370.0						
29	284.9	4.0E 243.8	4.0E 370.0						
30	284.9	4.0E 246.4	4.0E 370.0						
31	284.9	4.0E 249.1	4.0E 370.0						
32	284.9	4.0E 251.9	4.0E 370.0						
33	284.9	4.0E 254.9	4.0E 370.0						
34	284.9	4.0E 258.0	4.0E 370.0						
35	284.9	4.0E 261.2	4.0E 370.0						
36	284.9	4.0E 264.7	4.0E 370.0						
37	284.9	4.0E 268.3	4.0E 370.0						
38	284.9	4.0E 272.1	4.0E 370.0						
39	284.9	4.0E 276.2	4.0E 370.0						
40	284.9	4.0E 280.3	4.0E 370.0						
41	284.9	4.0E 284.7	4.0E 370.0						
42	284.9	4.0E 289.4	4.0E 370.0						
43	284.9	4.0E 294.3	4.0E 370.0						
44	284.9	4.0E 299.5	4.0E 370.0						
45	284.9	4.0E 305.0	4.0E 370.0						
46	284.9	4.0E 310.8	4.0E 370.0						
47	284.9	4.0E 316.9	4.0E 370.0						
48	284.9	4.0E 323.5	4.0E 370.0						
49	284.9	4.0E 313.2	2.0E 330.7	4.0E 370.0					
50	284.9	4.0E 303.5	2.0E 338.4	4.0E 370.0					
51	284.9	4.0E 294.5	2.0E 346.7	4.0E 370.0					
52	284.9	4.0E 284.5	2.0E 355.3	4.0E 370.0					
53	284.9	4.0E 274.2	2.0E 364.7	4.0E 370.0					
54	284.9	4.0E 264.9	2.0E 370.0						
55	284.9	4.0E 257.0	2.0E 370.0						
56	284.9	4.0E 250.7	2.0E 366.1	0.5E 370.0					
57	284.9	4.0E 244.9	2.0E 359.8	0.5E 370.0					
58	284.9	4.0E 239.3	2.0E 353.3	0.5E 370.0					
59	284.9	4.0M 22.9	4.0E 234.2	2.0E 347.1	0.5E 370.0				
60	284.9	4.0M 22.9	4.0E 229.5	2.0E 341.2	0.5E 370.0				
61	284.9	4.0M 22.9	4.0E 225.0	2.0E 335.5	0.5E 370.0				
62	284.9	4.0M 22.9	4.0E 220.6	2.0E 330.2	0.5E 370.0				
63	284.9	4.0M 22.9	4.0E 216.6	2.0E 325.2	0.5E 370.0				
64	284.9	4.0M 22.9	4.0E 212.8	2.0E 320.4	0.5E 370.0				
65	284.9	4.0M 22.9	4.0E 209.2	2.0E 316.7	0.5E 370.0				
66	284.9	4.0M 22.9	4.0E 205.0	2.0E 313.8	0.5E 370.0				
67	284.9	4.0M 22.9	4.0E 200.8	2.0E 311.2	0.5E 370.0				
68	284.9	4.0M 22.9	4.0E 197.0	2.0E 309.3	0.5E 370.0				
69	284.9	4.0M 22.9	4.0E 193.1	2.0E 308.5	0.5E 370.0				
70	284.9	4.0M 22.9	4.0E 189.6	2.0E 307.9	0.5E 370.0				
71	284.9	4.0M 22.9	4.0E 186.2	2.0E 310.4	0.5E 352.4	1.0E 370.0			
72	284.9	4.0M 22.9	4.0E 183.0	2.0E 309.8	1.0E 320.9	0.5E 335.7	1.0E 370.0		
73	284.9	4.0M 32.2	4.0E 179.9	2.0E 307.1	1.0E 370.0				



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

011121
Exhibit 14F7

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
74	284.9	4.0M	32.2	4.0E	177.0	2.0E	304.0	1.0E	370.0								
75	284.9	4.0M	32.2	4.0E	174.3	2.0E	300.5	1.0E	370.0								
76	284.9	4.0M	32.2	4.0E	170.9	2.0E	297.1	1.0E	370.0								
77	284.9	4.0M	32.2	4.0E	167.5	2.0E	294.0	1.0E	370.0								
78	284.9	4.0M	32.2	4.0E	164.5	2.0E	291.0	1.0E	370.0								
79	284.9	4.0M	32.2	4.0E	161.4	2.0E	288.1	1.0E	370.0								
80	284.9	4.0M	32.2	4.0E	158.7	2.0E	285.5	1.0E	370.0								
81	284.9	4.0M	32.2	4.0E	155.9	2.0E	283.2	1.0E	370.0								
82	284.9	4.0M	32.2	4.0E	153.4	2.0E	281.2	1.0E	370.0								
83	284.9	4.0M	32.2	4.0E	150.3	2.0E	279.2	1.0E	370.0								
84	284.9	4.0M	32.2	4.0E	147.3	2.0E	277.3	1.0E	370.0								
85	284.9	4.0M	32.2	4.0E	144.4	2.0E	275.5	1.0E	370.0								
86	284.9	4.0M	32.2	4.0E	141.6	2.0E	273.9	1.0E	370.0								
87	284.9	4.0M	32.2	4.0E	139.4	2.0E	272.3	1.0E	370.0								
88	284.9	4.0E	138.2	2.0E	270.9	1.0E	370.0										
89	284.9	4.0E	137.1	2.0E	269.4	1.0E	370.0										
90	284.9	4.0E	137.4	2.0E	268.1	1.0E	370.0										
91	284.9	4.0E	137.8	2.0E	267.0	1.0E	370.0										
92	284.9	4.0E	138.6	2.0E	194.7	4.0E	257.8	2.0E	265.9	1.0E	370.0						
93	284.9	4.0E	141.5	2.0E	183.0	4.0E	265.1	1.0E	370.0								
94	284.9	4.0E	144.5	2.0E	172.7	4.0E	264.3	1.0E	370.0								
95	284.9	4.0E	153.5	2.0E	158.5	4.0E	263.6	1.0E	370.0								
96	284.9	4.0E	263.1	1.0E	370.0												
97	284.9	4.0E	262.6	1.0E	370.0												
98	284.9	4.0E	262.3	1.0E	370.0												
99	284.9	4.0E	262.0	1.0E	370.0												
100	284.9	4.0E	261.8	1.0E	370.0												
101	284.9	4.0E	261.7	1.0E	362.4	2.0E	370.0										
102	284.9	4.0E	261.7	1.0E	348.7	2.0E	370.0										
103	284.9	4.0E	261.7	1.0E	339.7	2.0E	370.0										
104	284.9	4.0E	261.8	1.0E	333.8	2.0E	370.0										
105	284.9	4.0E	262.0	1.0E	329.6	2.0E	370.0										
106	284.9	4.0E	262.3	1.0E	327.0	2.0E	370.0										
107	284.9	4.0E	262.6	1.0E	324.6	2.0E	370.0										
108	284.9	4.0E	263.1	1.0E	321.9	2.0E	370.0										
109	284.9	4.0E	263.6	1.0E	318.7	2.0E	370.0										
110	284.9	4.0E	264.3	1.0E	315.4	2.0E	370.0										
111	284.9	4.0E	264.9	1.0E	311.7	2.0E	370.0										
112	284.9	4.0M	29.5	4.0E	265.4	1.0E	307.5	2.0E	370.0								
113	284.9	4.0M	29.5	4.0E	265.4	1.0E	303.8	2.0E	370.0								
114	284.9	4.0M	29.5	4.0E	265.5	1.0E	300.8	2.0E	370.0								
115	284.9	4.0M	29.5	4.0E	265.7	1.0E	298.4	2.0E	370.0								
116	284.9	4.0M	29.5	4.0E	266.0	1.0E	297.9	2.0E	370.0								
117	284.9	4.0M	29.5	4.0E	266.5	1.0E	297.4	2.0E	370.0								
118	284.9	4.0M	29.5	4.0E	267.0	1.0E	298.7	2.0E	370.0								
119	284.9	4.0M	29.5	4.0E	267.5	1.0E	300.1	2.0E	370.0								
120	284.9	4.0M	29.5	4.0E	268.3	1.0E	302.9	2.0E	370.0								
121	284.9	4.0M	29.5	4.0E	268.9	1.0E	306.6	2.0E	370.0								
122	284.9	4.0M	29.5	4.0E	269.7	1.0E	310.4	2.0E	367.6	5kE	370.0						
123	284.9	4.0M	29.5	4.0E	269.6	1.0E	314.5	2.0E	361.5	5kE	370.0						
124	284.9	4.0M	29.5	4.0E	269.6	1.0E	319.1	2.0E	351.8	5kE	370.0						
125	284.9	4.0M	29.5	4.0E	269.4	1.0E	324.1	2.0E	346.2	5kE	370.0						
126	284.9	4.0M	29.5	4.0E	269.6	1.0E	329.3	2.0E	335.7	5kE	339.6	2.0E	340.7	5kE	370.0		
127	284.9	4.0M	29.5	4.0E	269.6	1.0E	334.7	2.0E	335.1	5kE	370.0						
128	284.9	4.0M	29.5	4.0E	269.9	1.0E	332.5	5kE	370.0								
129	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	331.4	5kE	365.8	0.5E	370.0		
130	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	326.4	5kE	359.7	0.5E	370.0		
131	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	324.9	5kE	353.1	0.5E	370.0		
132	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	321.9	5kE	345.7	0.5E	370.0		
133	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	319.6	5kE	348.3	0.5E	370.0		
134	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	318.5	5kE	345.8	0.5E	370.0		
135	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	316.9	5kE	331.8	4.0E	337.3	0.5E	366.4
136	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	315.3	5kE	330.2	4.0E	333.8	0.5E	361.6
137	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	303.2	1.0E	315.1	5kE	326.4	4.0E	331.4
138	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.3	5kE	323.8	4.0E	331.2	0.5E	356.1
139	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.3	5kE	326.2	4.0E	330.9	0.5E	352.9
140	284.9	4.0M	20.0	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.4	5kE	320.6	4.0E	330.6	0.5E	349.9
141	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	317.8	5kE	325.1
142	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	230.9	2.0E	265.7
143	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	227.4	2.0E	269.9
144	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	225.1	2.0E	274.1
145	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	224.0	2.0E	278.6
146	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	223.5	2.0E	283.9
147	284.9	5.0M	12.1	4.0M	28.0	3.0M	42.0	2.0M	120.1	1.5M	135.0	1.0M	140.8	4.0E	223.1	2.0E	289.7



Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist			
148	284.9	5.0M 4.0E	12.1 329.6	4.0M 5kE	28.0 346.3	3.0M 4.0E	42.0 352.3	2.0M 5kE	120.1 370.0	1.5M	135.0	1.0M	140.8	4.0E	222.7	2.0E	294.5
149	284.9	5.0M 4.0E	12.1 329.9	4.0M 5kE	28.0 340.1	3.0M 4.0E	42.0 362.1	2.0M 5kE	120.1 370.0	1.5M	135.0	1.0M	140.8	4.0E	222.4	2.0E	297.2
150	284.9	5.0M 4.0E	12.1 328.1	4.0M 5kE	28.0 336.7	3.0M 4.0E	42.0 369.8	2.0M 5kE	120.1 370.0	1.5M	135.0	1.0M	140.8	4.0E	222.3	2.0E	297.6
151	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
152	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
153	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
154	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
155	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
156	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
157	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
158	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
159	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
160	284.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	370.0						
161	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	223.7	2.0E	250.6	4.0E	370.0		
162	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	224.0	2.0E	252.0	4.0E	370.0		
163	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	224.2	2.0E	253.6	4.0E	370.0		
164	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	224.5	2.0E	255.4	4.0E	370.0		
165	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	225.0	2.0E	257.3	4.0E	370.0		
166	284.9	2.0M 4.0E	6.9 370.0	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	225.5	2.0E	259.3	4.0E	366.4	5kE	366.9
167	284.9	2.0M 4.0E	6.9 370.0	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	226.0	2.0E	261.4	4.0E	366.3	5kE	368.1
168	284.9	2.0M 4.0E	6.9 370.0	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	226.6	2.0E	263.4	4.0E	366.3	5kE	369.2
169	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	227.2	2.0E	265.2	4.0E	367.6	5kE	370.0
170	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	228.0	2.0E	267.0	4.0E	370.0	5kE	370.0
171	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	228.8	2.0E	268.9	4.0E	370.0		
172	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	229.8	2.0E	271.0	4.0E	370.0		
173	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	230.5	2.0E	273.1	4.0E	370.0		
174	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	231.1	2.0E	274.7	4.0E	370.0		
175	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	230.8	2.0E	276.3	4.0E	370.0		
176	284.9	2.0M	6.9	3.0M	46.0	2.0M	127.9	1.5M	148.9	4.0E	230.1	2.0E	278.1	4.0E	370.0		
177	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	229.3	2.0E	280.0	4.0E	370.0				
178	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	227.7	2.0E	282.0	4.0E	370.0				
179	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	226.3	2.0E	283.9	4.0E	370.0				
180	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	224.0	2.0E	285.0	4.0E	370.0				
181	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	221.4	2.0E	286.1	4.0E	370.0				
182	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	218.9	2.0E	287.3	4.0E	370.0				
183	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	216.5	2.0E	288.2	4.0E	370.0				
184	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	213.9	2.0E	289.2	4.0E	370.0				
185	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	211.5	2.0E	290.6	4.0E	370.0				
186	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	209.2	2.0E	294.3	4.0E	370.0				
187	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	207.6	2.0E	299.0	4.0E	370.0				
188	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	206.3	2.0E	304.8	4.0E	370.0				
189	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	205.4	2.0E	310.9	4.0E	370.0				
190	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	204.2	2.0E	321.9	4.0E	370.0				
191	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.7	2.0E	336.5	4.0E	370.0				
192	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.7	2.0E	351.0	4.0E	370.0				
193	284.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.9	2.0E	365.5	4.0E	370.0				
194	284.9	4.0M	12.1	3.0M	29.9	4.0E	204.2	2.0E	370.0								
195	284.9	4.0M	12.1	3.0M	29.9	4.0E	204.9	2.0E	370.0								
196	284.9	4.0M	12.1	3.0M	29.9	4.0E	205.8	2.0E	370.0								
197	284.9	4.0M	12.1	3.0M	29.9	4.0E	206.8	2.0E	370.0								
198	284.9	4.0M	12.1	3.0M	29.9	4.0E	207.9	2.0E	370.0								
199	284.9	4.0M	12.1	3.0M	29.9	4.0E	209.1	2.0E	370.0								
200	284.9	4.0M	12.1	3.0M	29.9	4.0E	210.2	2.0E	370.0								
201	284.9	4.0M	12.1	3.0M	29.9	4.0E	210.8	2.0E	370.0								
202	284.9	4.0M	12.1	3.0M	29.9	4.0E	211.8	2.0E	370.0								
203	284.9	4.0M	12.1	3.0M	29.9	4.0E	212.6	2.0E	333.9	4.0E	357.9	2.0E	370.0				
204	284.9	4.0M	12.1	3.0M	29.9	4.0E	213.6	2.0E	311.7	4.0E	370.0						
205	284.9	4.0M	12.1	3.0M	29.9	4.0E	214.4	2.0E	300.1	4.0E	370.0						
206	284.9	4.0M	12.1	3.0M	29.9	4.0E	215.2	2.0E	296.0	4.0E	370.0						
207	284.9	4.0M	12.1	3.0M	29.9	4.0E	216.1	2.0E	291.9	4.0E	370.0						
208	284.9	4.0M	12.1	3.0M	29.9	4.0E	217.3	2.0E	290.6	4.0E	370.0						
209	284.9	4.0M	12.1	3.0M	29.9	4.0E	218.2	2.0E	290.2	4.0E	370.0						
210	284.9	4.0M	12.1	3.0M	29.9	4.0E	219.5	2.0E	290.8	4.0E	370.0						
211	284.9	4.0M	12.1	3.0M	29.9	4.0E	220.8	2.0E	292.9	4.0E	370.0						
212	284.9	4.0E	222.1	2.0E	297.6	4.0E	370.0										
213	284.9	4.0M	31.1	4.0E	223.2	2.0E	310.8	4.0E	332.5	2.0E	368.2	4.0E	370.0				
214	284.9	4.0M	31.1	4.0E	224.3	2.0E	370.0										
215	284.9	4.0M	31.1	4.0E	225.5	2.0E	370.0										
216	284.9	4.0M	31.1	4.0E	226.8	2.0E	370.0										
217	284.9	4.0M	31.1	4.0E	228.0	2.0E	370.0										
218	284.9	4.0M	31.1	4.0E	229.5	2.0E	370.0										
219	284.9	4.0M	31.1	4.0E	231.1	2.0E	370.0										
220	284.9	4.0M	31.1	4.0E	232.9	2.0E	370.0										
221	284.9	4.0M	31.1	4.0E	234.8	2.0E	370.0										
222	284.9	4.0M	31.1	4.0E	236.7	2.0E	370.0										
223	284.9	4.0M	31.1	4.0E	239.0	2.0E	370.0										
224	284.9	4.0M	31.1	4.0E	241.2	2.0E	370.0										
225	284.9	4.0M	31.1	4.0E	243.5	2.0E	370.0										
226	284.9	4.0M	31.1	4.0E	245.9	2.0E	370.0										
227	284.9	4.0M	31.1	4.0E	248.3	2.0E	370.0										
228	284.9	4.0M	31.1	4.0E	250.9	2.0E	370.0										

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
229	284.9	4.0M	31.1	4.0E	253.8	2.0E	370.0										
230	284.9	4.0M	31.1	4.0E	256.7	2.0E	370.0										
231	284.9	4.0M	31.1	4.0E	259.4	2.0E	370.0										
232	284.9	4.0M	31.1	4.0E	262.0	2.0E	370.0										
233	284.9	4.0M	31.1	4.0E	264.9	2.0E	370.0										
234	284.9	4.0E	267.8	2.0E	370.0												
235	284.9	4.0E	270.9	2.0E	370.0												
236	284.9	4.0E	273.9	2.0E	370.0												
237	284.9	4.0E	277.0	2.0E	370.0												
238	284.9	4.0E	280.3	2.0E	369.3	8.0E	370.0										
239	284.9	4.0E	283.7	2.0E	360.7	8.0E	370.0										
240	284.9	4.0E	287.3	2.0E	353.3	8.0E	370.0										
241	284.9	4.0E	291.1	2.0E	346.5	8.0E	370.0										
242	284.9	4.0E	295.2	2.0E	340.7	8.0E	370.0										
243	284.9	4.0E	299.8	2.0E	334.9	8.0E	370.0										
244	284.9	4.0E	308.7	2.0E	323.3	4.0E	328.0	8.0E	370.0								
245	284.9	4.0E	334.7	8.0E	370.0												
246	284.9	4.0E	342.6	8.0E	370.0												
247	284.9	4.0M	31.2	4.0E	351.2	8.0E	370.0										
248	284.9	4.0M	31.2	4.0E	360.0	8.0E	370.0										
249	284.9	4.0M	31.2	4.0E	369.7	8.0E	370.0										
250	284.9	4.0M	31.2	4.0E	370.0												
251	284.9	4.0M	31.2	4.0E	131.3	8.0E	141.1	4.0E	370.0								
252	284.9	4.0M	31.2	4.0E	127.3	8.0E	144.5	4.0E	264.1	8.0E	286.9	4.0E	370.0				
253	284.9	4.0M	31.2	4.0E	124.9	8.0E	148.1	4.0E	254.4	8.0E	296.1	4.0E	330.4	8.0E	337.5	4.0E	341.8
254	284.9	4.0M	31.2	4.0E	123.3	8.0E	151.8	4.0E	245.4	8.0E	301.6	4.0E	304.0	8.0E	370.0		
255	284.9	4.0M	31.2	4.0E	121.8	8.0E	154.5	4.0E	237.2	8.0E	370.0						
256	284.9	4.0M	31.2	4.0E	120.4	8.0E	157.4	4.0E	228.2	8.0E	370.0						
257	284.9	4.0M	31.2	4.0E	118.9	8.0E	160.6	4.0E	219.8	8.0E	370.0						
258	284.9	4.0M	31.2	4.0E	117.6	8.0E	163.8	4.0E	212.4	8.0E	309.2	10.0E	370.0				
259	284.9	4.0M	31.2	4.0E	116.8	8.0E	167.4	4.0E	207.1	8.0E	286.0	10.0E	370.0				
260	284.9	4.0M	31.2	4.0E	116.2	8.0E	171.1	4.0E	202.3	8.0E	267.8	10.0E	370.0				
261	284.9	4.0M	31.2	4.0E	115.6	8.0E	174.9	4.0E	197.6	8.0E	258.5	10.0E	370.0				
262	284.9	4.0M	31.2	4.0E	115.1	8.0E	249.8	10.0E	370.0								
263	284.9	4.0M	31.2	4.0E	114.4	8.0E	236.3	10.0E	341.8	8.0E	370.0						
264	284.9	4.0M	31.2	4.0E	113.9	8.0E	225.6	10.0E	338.1	8.0E	370.0						
265	284.9	4.0M	31.2	4.0E	113.6	8.0E	222.6	10.0E	226.1	8.0E	242.2	10.0E	332.8	8.0E	370.0		
266	284.9	4.0M	31.9	4.0E	113.1	8.0E	221.9	8.0E	311.2	5.0E	322.2	8.0E	370.0				
267	284.9	4.0M	31.9	4.0E	112.8	8.0E	224.7	8.0E	310.4	5.0E	323.2	8.0E	370.0				
268	284.9	4.0M	31.9	4.0E	112.5	8.0E	229.5	8.0E	309.5	5.0E	324.3	8.0E	370.0				
269	284.9	4.0M	31.9	4.0E	112.2	8.0E	230.0	8.0E	308.8	5.0E	326.5	8.0E	370.0				
270	284.9	4.0M	31.9	4.0E	111.8	8.0E	229.8	8.0E	307.4	5.0E	329.3	8.0E	370.0				
271	284.9	4.0M	31.9	4.0E	111.7	8.0E	232.4	8.0E	305.1	5.0E	332.2	8.0E	370.0				
272	284.9	4.0M	31.9	4.0E	111.5	8.0E	232.6	8.0E	303.2	5.0E	335.1	8.0E	370.0				
273	284.9	4.0M	31.9	4.0E	111.4	8.0E	231.4	8.0E	300.8	5.0E	338.3	8.0E	370.0				
274	284.9	4.0M	31.9	4.0E	111.0	8.0E	232.2	8.0E	249.9	15.0E	276.2	8.0E	298.1	5.0E	341.2	8.0E	361.0
275	284.9	10.0E	370.0	4.0E	110.7	8.0E	233.2	8.0E	242.2	15.0E	290.0	8.0E	295.3	5.0E	343.8	8.0E	349.7
276	284.9	4.0M	31.9	4.0E	110.6	8.0E	234.2	8.0E	235.0	15.0E	292.1	8.0E	292.9	5.0E	346.3	10.0E	370.0
277	284.9	4.0M	31.9	4.0E	110.4	8.0E	236.9	15.0E	289.8	5.0E	348.6	10.0E	370.0				
278	284.9	4.0M	31.9	4.0E	110.2	8.0E	240.0	15.0E	286.6	5.0E	351.0	10.0E	370.0				
279	284.9	4.0M	31.9	4.0E	110.1	8.0E	243.0	15.0E	283.7	5.0E	353.6	10.0E	370.0				
280	284.9	4.0M	31.9	4.0E	108.8	8.0E	244.5	15.0E	281.2	5.0E	355.5	10.0E	370.0				
281	284.9	4.0M	31.9	4.0E	105.7	8.0E	238.2	15.0E	278.4	5.0E	357.3	10.0E	370.0				
282	284.9	4.0M	31.9	4.0E	102.8	8.0E	232.4	15.0E	275.4	5.0E	359.7	10.0E	370.0				
283	284.9	4.0M	31.9	4.0E	100.1	8.0E	226.9	15.0E	272.5	5.0E	314.1	10.0E	328.6	8.0E	345.8	5.0E	362.7
284	284.9	4.0M	31.9	4.0E	93.3	8.0E	218.9	15.0E	263.8	5.0E	303.4	10.0E	325.4	8.0E	350.2	5.0E	368.7
285	284.9	4.0E	88.0	8.0E	211.3	15.0E	259.7	8.0E	268.3	5.0E	294.5	10.0E	322.4	8.0E	349.1	5.0E	370.0
286	284.9	4.0E	64.2	8.0E	65.7	4.0E	83.8	8.0E	204.2	15.0E	256.4	8.0E	273.3	5.0E	288.1	10.0E	319.5
287	284.9	8.0E	348.1	5.0E	370.0												
288	284.9	4.0E	64.9	8.0E	67.9	4.0E	80.1	8.0E	195.9	15.0E	253.1	8.0E	278.4	5.0E	282.1	10.0E	316.2
289	284.9	8.0E	345.7	5.0E	370.0												
290	284.9	4.0E	65.3	8.0E	186.8	15.0E	250.3	8.0E	277.0	10.0E	312.5	8.0E	343.3	5.0E	370.0		
291	284.9	4.0E	65.5	8.0E	178.8	15.0E	248.5	8.0E	272.5	10.0E	309.0	8.0E	341.0	5.0E	370.0		
292	284.9	4.0E	64.4	8.0E	170.3	15.0E	241.9	8.0E	268.1	10.0E	306.4	8.0E	338.4	5.0E	370.0		
293	284.9	4.0E	63.4	8.0E	161.3	15.0E	236.6	8.0E	263.9	10.0E	304.2	8.0E	335.5	5.0E	370.0		
294	284.9	4.0E	62.4	8.0E	153.4	15.0E	231.7	8.0E	260.9	5.0E	269.1	10.0E	302.1	8.0E	332.8	5.0E	370.0
295	284.9	4.0E	61.5	8.0E	146.1	15.0E	226.4	8.0E	258.3	5.0E	277.0	10.0E	300.5	8.0E	330.2	5.0E	370.0
296	284.9	4.0E	60.0	8.0E	139.5	15.0E	220.5	8.0E	255.9	5.0E	283.9	10.0E	300.1	8.0E	326.4	5.0E	370.0
297	284.9	4.0E	57.8	8.0E	133.6	15.0E	214.8	8.0E	253.6	5.0E	290.2	10.0E	299.8	8.0E	322.0	5.0E	365.2
298	284.9	4.0E	55.7	8.0E	128.6	15.0E	209.4	8.0E	251.4	5.0E	295.5	10.0E	299.5	8.0E	317.8	5.0E	356.6
299	284.9	4.0E	54.6	8.0E	124.2	15.0E	204.1	8.0E	249.3	5.0E	299.5	8.0E	313.7	5.0E	349.5	4.0E	370.0
300	284.9	4.0E	54.1	8.0E	120.1	15.0E	199.4	8.0E	246.4	5.0E	301.8	8.0E	309.2	5.0E	345.2	4.0E	347.3
301	284.9	10.0E	370.0														
302	284.9	4.0E	53.4	8.0E	116.4	15.0E	195.1	8.0E	243.3	5.0E	304.3	8.0E	304.8	5.0E	342.3	4.0E	346.5
303	284.9	10.0E	370.0														
304	284.9	4.0E	52.9	8.0E	112.8	15.0E	191.0	8.0E	240.4	5.0E	341.5	4.0E	347.1	10.0E	370.0		
305	284.9	4.0E	52.5	8.0E	109.6	15.0E	187.2	8.0E	235.9	5.0E	340.7	4.0E	349.5	10.0E	370.0		
306	284.9	4.0E	52.0	8.0E	106.5	15.0E	182.3	8.0E	231.4	5.0E	339.7	4.0E	365.8	10.0E	370.0		
307	284.9	4.0E	51.5	8.0E	103.6	15.0E	177.7	8.0E	226.9	5.0E	338.8	4.0E	365.5	10.0E	370.0		
308	284.9	4.0E	51.2	8.0E	101.1	15.0E	173.3	5.0E	174.3	8.0E	219.7	5.0E	338.0	4.0E	345.2	10.0E	352.6
309	284.9	4.0E	360.2	10.0E	370.0												



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
305	284.9	4.0E	50.9	8.0E	98.5	15.0E	170.4	5.0E	181.4	8.0E	212.8	5.0E	336.0	4.0E	344.4
306	284.9	4.0E	50.9	8.0E	96.1	15.0E	167.7	5.0E	188.9	8.0E	200.7	5.0E	333.8	10.0E	370.0
		10.0E	370.0											4.0E	366.0
307	284.9	4.0E	50.7	8.0E	94.0	15.0E	165.4	5.0E	193.8	4.0E	213.2	5.0E	330.6	4.0E	370.0
308	284.9	4.0E	50.5	8.0E	91.9	15.0E	163.3	5.0E	196.3	4.0E	216.8	5.0E	326.2	4.0E	370.0
309	284.9	4.0E	50.5	8.0E	89.8	15.0E	161.4	5.0E	198.9	4.0E	221.3	5.0E	320.3	4.0E	370.0
310	284.9	4.0E	50.5	8.0E	88.0	15.0E	159.5	5.0E	201.2	4.0E	227.6	5.0E	313.3	4.0E	364.8
311	284.9	4.0E	50.5	8.0E	86.3	15.0E	157.2	5.0E	203.3	4.0E	234.5	5.0E	303.8	1.0E	370.0
312	284.9	4.0E	50.4	8.0E	84.5	15.0E	139.5	5.0E	152.9	15.0E	155.1	5.0E	205.4	4.0E	370.0
		4.0E	345.0	1.0E	370.0									5.0E	292.4
313	284.9	4.0E	50.4	8.0E	82.9	15.0E	137.1	5.0E	206.8	4.0E	262.0	5.0E	271.8	4.0E	370.0
314	284.9	4.0E	50.5	8.0E	81.4	15.0E	134.7	5.0E	207.6	4.0E	327.3	1.0E	370.0	4.0E	335.9
315	284.9	4.0E	50.5	8.0E	80.0	15.0E	133.1	5.0E	208.4	4.0E	318.2	1.0E	370.0	1.0E	370.0
316	284.9	4.0E	50.5	8.0E	78.7	15.0E	117.6	5.0E	126.5	15.0E	131.6	5.0E	209.2	4.0E	309.5
317	284.9	4.0E	50.5	8.0E	77.4	15.0E	114.4	5.0E	127.6	15.0E	130.2	5.0E	210.2	1.0E	370.0
318	284.9	4.0E	50.7	8.0E	76.1	15.0E	113.8	5.0E	128.7	15.0E	128.9	5.0E	211.1	4.0E	301.4
319	284.9	4.0E	50.5	8.0E	75.6	15.0E	113.1	5.0E	212.1	4.0E	290.3	1.0E	370.0	4.0E	295.8
320	284.9	4.0E	50.4	8.0E	76.1	15.0E	112.7	5.0E	213.2	4.0E	285.3	1.0E	370.0	1.0E	370.0
321	284.9	4.0E	50.4	8.0E	76.6	15.0E	112.2	5.0E	214.4	4.0E	280.5	1.0E	370.0		
322	284.9	4.0E	50.4	8.0E	77.1	15.0E	111.7	5.0E	215.5	4.0E	276.5	1.0E	370.0		
323	284.9	4.0E	50.2	8.0E	77.7	15.0E	111.4	5.0E	216.9	4.0E	273.6	1.0E	370.0		
324	284.9	4.0E	50.2	8.0E	78.4	15.0E	111.0	5.0E	115.4	15.0E	116.0	5.0E	218.2	4.0E	271.0
325	284.9	4.0E	50.2	8.0E	78.9	15.0E	110.9	5.0E	114.4	15.0E	117.6	5.0E	220.0	4.0E	269.7
326	284.9	4.0E	50.2	8.0E	79.5	15.0E	110.6	5.0E	113.5	15.0E	119.3	5.0E	221.9	1.0E	370.0
327	284.9	4.0E	50.2	8.0E	80.3	15.0E	110.4	5.0E	112.5	15.0E	120.4	5.0E	223.9	4.0E	268.6
328	284.9	4.0E	50.2	8.0E	81.0	15.0E	110.2	5.0E	111.5	15.0E	120.4	5.0E	226.1	4.0E	267.6
329	284.9	4.0E	50.2	8.0E	81.8	15.0E	110.2	5.0E	110.7	15.0E	120.4	5.0E	228.4	4.0E	268.0
330	284.9	4.0E	50.2	8.0E	82.6	15.0E	120.4	5.0E	230.8	4.0E	268.9	1.0E	370.0	4.0E	268.4
331	284.9	4.0E	50.2	8.0E	83.4	15.0E	120.5	5.0E	233.0	4.0E	270.2	1.0E	370.0	1.0E	370.0
332	284.9	4.0E	50.4	8.0E	84.3	15.0E	120.7	5.0E	235.3	4.0E	271.7	1.0E	370.0		
333	284.9	4.0E	50.4	8.0E	85.3	15.0E	121.5	5.0E	237.5	4.0E	273.1	1.0E	370.0		
334	284.9	4.0E	50.5	8.0E	86.3	15.0E	122.3	5.0E	240.0	4.0E	274.7	1.0E	370.0		
335	284.9	4.0E	50.5	8.0E	87.2	15.0E	123.3	5.0E	242.5	4.0E	277.5	1.0E	370.0		
336	284.9	4.0E	50.7	8.0E	88.4	15.0E	124.2	5.0E	245.1	4.0E	280.8	1.0E	370.0		
337	284.9	4.0E	50.9	8.0E	89.5	15.0E	124.6	4.0E	127.0	5.0E	247.8	4.0E	287.1	1.0E	370.0
338	284.9	4.0E	51.0	8.0E	90.8	15.0E	121.7	4.0E	139.7	5.0E	248.2	4.0E	293.5	1.0E	370.0
339	284.9	4.0E	50.9	8.0E	91.9	15.0E	121.5	4.0E	145.6	5.0E	248.5	4.0E	301.1	1.0E	370.0
340	284.9	4.0E	50.4	8.0E	93.3	15.0E	121.3	4.0E	149.8	5.0E	248.2	4.0E	309.5	1.0E	370.0
341	284.9	4.0E	49.9	8.0E	94.6	15.0E	121.8	4.0E	154.3	5.0E	247.0	4.0E	314.3	5.0E	318.0
342	284.9	4.0E	49.6	8.0E	96.1	15.0E	123.1	4.0E	159.3	5.0E	244.9	4.0E	301.6	5.0E	325.7
343	284.9	4.0E	49.1	8.0E	97.7	15.0E	124.6	4.0E	164.5	5.0E	242.5	4.0E	294.3	5.0E	333.9
344	284.9	4.0E	48.8	8.0E	99.3	15.0E	126.0	4.0E	169.5	5.0E	240.1	4.0E	288.4	5.0E	338.8
		1.0E	370.0											4.0E	340.9
345	284.9	4.0E	48.3	8.0E	101.1	15.0E	127.6	4.0E	174.1	5.0E	236.1	4.0E	284.4	5.0E	338.3
		1.0E	370.0											4.0E	345.2
346	284.9	4.0E	48.0	8.0E	102.8	15.0E	128.4	4.0E	179.1	5.0E	231.3	4.0E	280.5	5.0E	338.0
		1.0E	370.0											4.0E	349.5
347	284.9	4.0E	47.6	8.0E	104.8	15.0E	128.1	4.0E	184.4	5.0E	226.8	4.0E	277.0	5.0E	337.6
		1.0E	370.0											4.0E	352.0
348	284.9	4.0E	47.8	8.0E	106.7	15.0E	127.9	4.0E	273.9	5.0E	337.3	4.0E	354.5	1.0E	370.0
349	284.9	4.0E	48.1	8.0E	108.8	15.0E	127.9	4.0E	271.5	5.0E	336.4	4.0E	357.1	1.0E	370.0
350	284.9	4.0E	48.4	8.0E	111.0	15.0E	127.9	4.0E	269.4	5.0E	335.4	4.0E	359.5	1.0E	370.0
351	284.9	4.0E	48.8	8.0E	112.8	15.0E	127.9	4.0E	267.3	5.0E	333.9	4.0E	361.3	1.0E	370.0
352	284.9	4.0E	49.1	8.0E	113.8	15.0E	128.1	4.0E	265.4	5.0E	331.8	4.0E	363.4	1.0E	370.0
353	284.9	4.0E	49.4	8.0E	108.3	4.0E	113.3	8.0E	114.7	15.0E	128.3	4.0E	263.9	5.0E	330.1
		1.0E	370.0											4.0E	365.5
354	284.9	4.0E	49.9	8.0E	84.8	4.0E	86.1	8.0E	108.1	4.0E	118.3	15.0E	128.4	4.0E	262.5
		4.0E	367.7	1.0E	370.0									5.0E	328.3
355	284.9	4.0E	51.2	8.0E	82.7	4.0E	86.6	8.0E	104.9	4.0E	121.5	15.0E	128.6	4.0E	261.2
		4.0E	369.7	1.0E	370.0									5.0E	326.5
356	284.9	4.0E	53.1	8.0E	80.8	4.0E	87.2	8.0E	98.7	4.0E	122.0	15.0E	128.9	4.0E	260.1
		4.0E	370.0											5.0E	325.2
357	284.9	4.0E	55.4	8.0E	78.9	4.0E	87.1	8.0E	99.9	4.0E	102.2	8.0E	106.9	4.0E	222.3
		4.0E	258.9	5.0E	324.0	4.0E	370.0							15.0E	129.6
358	284.9	4.0E	57.6	8.0E	63.2	4.0E	84.5	8.0E	101.2	4.0E	102.0	8.0E	107.5	4.0E	123.0
		4.0E	257.3	5.0E	323.3	4.0E	370.0							15.0E	130.2
359	284.9	4.0E	85.6	8.0E	97.2	4.0E	98.7	8.0E	108.0	4.0E	123.4	15.0E	130.8	4.0E	255.6
		4.0E	370.0											5.0E	323.3



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az	Region mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
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Radio Station WIP - 610 kHz, Philadelphia, Pennsylvania

Source(s) of Measured Data:

FCC File No. BL19861110AE, WIP Application for License

Coordinates: N 39 51 56 W 75 06 43

0	741.8	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 124.1	2.0E 154.5	4.0E 370.0
1	720.3	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 123.3	2.0E 155.8	4.0E 370.0
2	699.0	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 122.6	2.0E 157.4	4.0E 370.0
3	678.0	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 122.0	2.0E 158.8	4.0E 370.0
4	657.1	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 120.7	2.0E 160.5	4.0E 370.0
5	636.6	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E 119.3	2.0E 162.2	4.0E 370.0
6	616.4	4.0E 117.8		2.0E 164.0		4.0E 370.0						
7	596.5	4.0E 116.5		2.0E 165.9		4.0E 370.0						
8	577.1	4.0E 115.2		2.0E 167.9		4.0E 359.8	2.0E 366.1	4.0E 370.0				
9	558.0	4.0E 114.1		2.0E 169.9		4.0E 352.9	2.0E 370.0					
10	539.5	4.0E 113.3		2.0E 172.2		4.0E 350.0	2.0E 370.0					
11	521.4	4.0E 112.5		2.0E 174.5		4.0E 349.9	2.0E 370.0					
12	503.9	4.0E 111.7		2.0E 176.9		4.0E 351.2	2.0E 370.0					
13	486.9	4.0E 110.9		2.0E 179.3		4.0E 353.1	2.0E 370.0					
14	470.5	4.0E 110.2		2.0E 180.7		4.0E 355.7	2.0E 370.0					
15	454.7	4.0E 109.6		2.0E 182.0		4.0E 358.9	2.0E 370.0					
16	439.6	4.0E 109.0		2.0E 183.3		4.0E 362.3	2.0E 370.0					
17	425.2	4.0E 108.3		2.0E 182.7		4.0E 365.6	2.0E 370.0					
18	411.4	4.0E 108.0		2.0E 181.7		4.0E 369.3	2.0E 370.0					
19	398.4	4.0E 108.0		2.0E 180.9		4.0E 370.0						
20	386.1	4.0E 108.0		2.0E 179.6		4.0E 370.0						
21	374.6	4.0E 108.0		2.0E 178.0		4.0E 370.0						
22	363.9	4.0E 108.0		2.0E 176.4		4.0E 370.0						
23	353.9	4.0E 108.1		2.0E 174.8		4.0E 370.0						
24	344.7	4.0E 108.3		2.0E 173.3		4.0E 370.0						
25	336.3	4.0E 108.6		2.0E 170.4		4.0E 370.0						
26	328.6	4.0E 109.6		2.0E 167.2		4.0E 370.0						
27	321.7	4.0E 110.6		2.0E 159.2		4.0E 370.0						
28	315.5	4.0E 111.5		2.0E 149.3		4.0E 369.5	1.0E 370.0					
29	310.0	4.0E 112.7		2.0E 141.5		4.0E 347.5	1.0E 370.0					
30	305.2	4.0E 114.1		2.0E 135.2		4.0E 327.8	1.0E 370.0					
31	301.0	4.0E 118.3		2.0E 129.7		4.0E 310.4	1.0E 370.0					
32	297.4	4.0E 286.0		1.0E 370.0								
33	294.4	4.0E 218.9		1.0E 234.6		4.0E 259.4	1.0E 370.0					
34	291.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 198.8	1.0E 370.0					
35	289.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 193.9	1.0E 370.0					
36	288.1	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 190.4	1.0E 370.0					
37	286.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 187.2	1.0E 370.0					
38	285.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 184.3	1.0E 370.0					
39	285.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 181.7	1.0E 277.3	2.0E 306.3	1.0E 370.0			
40	284.5	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 179.6	1.0E 268.9	2.0E 322.5	1.0E 370.0			
41	284.1	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 177.8	1.0E 264.1	2.0E 368.1	1.0E 370.0			
42	283.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 176.2	1.0E 259.4	2.0E 370.0				
43	283.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 174.6	1.0E 255.1	2.0E 370.0				
44	283.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.5	5kE 100.3	4.0E 125.5	5kE 134.9	4.0E 139.2		
		5kE 148.4	4.0E 173.2		1.0E 251.2	2.0E 370.0						
45	283.8	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.5	5kE 103.0	4.0E 124.2	5kE 138.4	4.0E 145.3		
		5kE 151.1	4.0E 154.8		5kE 184.6	1.0E 247.7	2.0E 370.0					
46	283.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.5	5kE 105.9	4.0E 123.1	5kE 130.4	0.5E 133.4		
		4.0E 146.3	5kE 147.6		4.0E 149.8	5kE 161.1	4.0E 161.7	5kE 197.0	1.0E 244.1	2.0E 370.0		
47	283.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.5	5kE 109.4	4.0E 122.0	5kE 126.2	0.5E 138.7		
		4.0E 151.4	5kE 156.3		4.0E 162.9	5kE 207.3	1.0E 240.9	2.0E 370.0				
48	284.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.6	5kE 125.0	0.5E 144.4	4.0E 162.7	5kE 166.1		
		4.0E 174.6	5kE 218.7		1.0E 237.9	2.0E 370.0						
49	284.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 99.8	5kE 123.9	0.5E 150.6	4.0E 161.7	5kE 163.2		
		4.0E 182.0	5kE 233.5		1.0E 235.0	2.0E 370.0	5kE 243.8	2.0E 370.0				
50	284.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 101.7	5kE 124.7	0.5E 136.3	5kE 137.9	0.5E 179.1		
		4.0E 183.3	5kE 186.5		4.0E 188.8	5kE 241.2	2.0E 370.0					
51	284.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 104.0	5kE 128.3	0.5E 133.4	5kE 139.4	0.5E 185.2		
		4.0E 190.9	5kE 249.3		2.0E 370.0							
52	284.0	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 106.2	5kE 141.0	0.5E 192.3	4.0E 193.3	5kE 258.0		
		2.0E 370.0										
53	283.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 108.0	5kE 142.6	0.5E 194.7	5kE 263.3	2.0E 284.4		
		5kE 284.5	2.0E 370.0									
54	283.9	1.0M 2.4	3.0M 9.7		5.0M 31.9	4.0E 109.0	5kE 139.9	0.5E 198.6	5kE 204.5	0.5E 211.5		
		5kE 270.7	2.0E 282.3		5kE 284.2	2.0E 370.0						
55	283.8	4.0E 109.9	5kE 143.1		0.5E 216.1	5kE 279.2	2.0E 280.2	5kE 284.0	2.0E 295.2	5kE 296.6		
		2.0E 370.0										
56	283.8	4.0E 114.6	5kE 146.3		0.5E 222.3	5kE 297.4	2.0E 303.0	5kE 304.5	2.0E 369.2	5kE 370.0		
57	283.8	4.0E 113.5	5kE 149.8		0.5E 151.4	5kE 163.3	0.5E 229.7	5kE 305.9	2.0E 362.9	5kE 363.4		
		2.0E 366.4	5kE 370.0									
58	283.9	4.0E 112.3	5kE 171.1		0.5E 237.9	5kE 266.2	0.5E 278.7	5kE 315.9	2.0E 362.1	5kE 370.0		
59	284.1	4.0E 111.4	5kE 185.6		0.5E 264.7	5kE 329.8	2.0E 358.2	5kE 370.0				
60	284.5	4.0E 110.4	5kE 193.0		0.5E 242.0	5kE 370.0						
61	285.0	4.0E 109.4	5kE 204.5		0.5E 244.5	5kE 260.7	0.5E 270.0	5kE 274.2	0.5E 278.7	5kE 370.0		
62	285.8	4.0E 108.6	5kE 221.1		0.5E 283.7	5kE 370.0						
63	286.8	4.0E 107.2	5kE 237.7		0.5E 245.7	5kE 253.6	0.5E 299.2	5kE 370.0				
64	288.1	4.0E 105.7	5kE 370.0									



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

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Exhibit 14F12

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
65	289.8	4.0E	104.4	5kE	370.0												
66	291.9	4.0E	103.3	5kE	370.0												
67	294.4	4.0E	102.0	5kE	370.0												
68	297.4	4.0E	101.1	5kE	370.0												
69	301.0	4.0E	99.9	5kE	370.0												
70	305.2	4.0E	99.0	5kE	370.0												
71	310.0	4.0E	98.0	5kE	370.0												
72	315.5	4.0E	97.0	5kE	370.0												
73	321.7	4.0E	96.2	5kE	370.0												
74	328.6	4.0E	95.4	5kE	370.0												
75	336.3	4.0E	87.9	5kE	89.6	4.0E	94.6	5kE	370.0								
76	344.7	4.0E	88.7	5kE	370.0												
77	353.9	4.0E	89.6	5kE	370.0												
78	363.9	4.0E	90.6	5kE	370.0												
79	374.6	4.0E	90.0	5kE	370.0												
80	386.1	4.0E	89.2	5kE	370.0												
81	398.4	4.0E	88.5	5kE	370.0												
82	411.4	4.0E	87.9	5kE	370.0												
83	425.2	4.0E	87.4	5kE	370.0												
84	439.6	4.0E	86.7	5kE	370.0												
85	454.7	4.0E	86.4	5kE	370.0												
86	470.5	4.0E	86.3	5kE	370.0												
87	486.9	4.0E	85.9	5kE	370.0												
88	503.9	4.0E	85.8	5kE	370.0												
89	521.4	4.0E	85.6	5kE	370.0												
90	539.5	4.0E	85.5	5kE	370.0												
91	558.0	4.0E	84.8	5kE	370.0												
92	577.1	4.0E	84.3	5kE	370.0												
93	596.5	4.0E	83.7	5kE	370.0												
94	616.4	4.0E	83.2	5kE	370.0												
95	636.6	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	82.6	5kE	370.0				
96	657.1	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	82.1	5kE	370.0				
97	678.0	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	81.8	5kE	370.0				
98	699.0	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	81.3	5kE	370.0				
99	720.3	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.5	5kE	370.0				
100	741.8	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.8	5kE	370.0				
101	763.4	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.7	5kE	370.0				
102	785.1	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.4	5kE	370.0				
103	806.9	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.2	5kE	370.0				
104	828.7	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	83.0	5kE	370.0				
105	850.5	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	82.2	5kE	370.0				
106	872.2	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	81.3	5kE	370.0				
107	893.9	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	80.5	5kE	370.0				
108	915.4	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	79.8	5kE	370.0				
109	936.8	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	79.0	5kE	370.0				
110	958.0	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	78.4	5kE	370.0				
111	978.9	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	77.6	5kE	370.0				
112	999.5	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	77.1	5kE	370.0				
113	1019.8	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	76.4	5kE	370.0				
114	1039.8	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	75.8	5kE	370.0				
115	1059.4	0.5M	1.1	1.5M	3.1	3.0M	16.1	2.0M	31.2	4.0E	76.1	5kE	370.0				
116	1078.5	4.0E	77.4	5kE	370.0												
117	1097.2	4.0E	78.7	5kE	370.0												
118	1115.4	4.0E	80.1	5kE	370.0												
119	1133.0	4.0E	70.8	5kE	370.0												
120	1150.1	4.0E	71.6	5kE	370.0												
121	1166.6	4.0E	72.4	5kE	370.0												
122	1182.4	4.0E	73.4	5kE	370.0												
123	1197.6	4.0E	74.4	5kE	370.0												
124	1212.1	4.0E	75.3	5kE	370.0												
125	1225.8	4.0E	76.4	5kE	370.0												
126	1238.8	4.0E	77.6	5kE	370.0												
127	1251.1	4.0E	77.6	5kE	370.0												
128	1262.5	4.0E	73.1	5kE	370.0												
129	1273.1	4.0E	73.4	5kE	370.0												
130	1282.8	2.0M	31.9	4.0E	73.7	5kE	370.0										
131	1291.7	2.0M	31.9	4.0E	74.2	5kE	370.0										
132	1299.7	2.0M	31.9	4.0E	74.5	5kE	76.0	4.0E	77.9	5kE	370.0						
133	1306.8	2.0M	31.9	4.0E	77.9	5kE	370.0										
134	1313.0	2.0M	31.9	4.0E	77.9	5kE	370.0										
135	1318.2	2.0M	31.9	4.0E	78.1	5kE	370.0										
136	1322.5	2.0M	31.9	4.0E	78.1	5kE	370.0										
137	1325.9	2.0M	31.9	4.0E	78.2	5kE	370.0										
138	1328.3	2.0M	31.9	4.0E	78.2	5kE	370.0										
139	1329.8	2.0M	31.9	4.0E	78.4	5kE	370.0										
140	1330.2	2.0M	31.9	4.0E	78.5	5kE	370.0										
141	1329.8	2.0M	31.9	4.0E	78.7	5kE	370.0										
142	1328.3	2.0M	31.9	4.0E	77.7	5kE	370.0										
143	1325.9	2.0M	31.9	4.0E	76.0	5kE	370.0										
144	1322.5	2.0M	31.9	4.0E	74.2	5kE	79.8	4.0E	81.1	5kE	370.0						
145	1318.2	2.0M	31.9	4.0E	72.7	5kE	78.4	4.0E	81.6	5kE	370.0						
146	1313.0	2.0M	31.9	4.0E	71.3	5kE	76.6	4.0E	81.9	5kE	370.0						
147	1306.8	2.0M	31.9	4.0E	69.8	5kE	71.5	4.0E	82.4	5kE	370.0						
148	1299.7	2.0M	31.9	4.0E	82.7	5kE	370.0										
149	1291.7	2.0M	31.9	4.0E	83.2	5kE	370.0										
150	1282.8	2.0M	31.9	4.0E	83.8	5kE	370.0										



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
151	1273.1	4.0E	84.3	5kE	370.0												
152	1262.5	4.0E	85.0	5kE	370.0												
153	1251.1	4.0E	85.6	5kE	370.0												
154	1238.8	4.0E	87.1	5kE	370.0												
155	1225.8	4.0E	88.7	5kE	370.0												
156	1212.1	4.0E	90.3	5kE	370.0												
157	1197.6	4.0E	92.1	5kE	370.0												
158	1182.4	4.0E	93.3	5kE	370.0												
159	1166.6	4.0E	93.7	5kE	370.0												
160	1150.1	4.0E	94.1	5kE	370.0												
161	1133.0	4.0E	94.6	5kE	370.0												
162	1115.4	4.0E	95.1	5kE	370.0												
163	1097.2	4.0E	95.8	5kE	370.0												
164	1078.5	4.0E	102.2	5kE	370.0												
165	1059.4	3.0M	16.9	2.0M	31.4	4.0E	102.8	5kE	370.0								
166	1039.8	3.0M	16.9	2.0M	31.4	4.0E	80.6	5kE	81.8	4.0E	103.5	5kE	370.0				
167	1019.8	3.0M	16.9	2.0M	31.4	4.0E	79.7	5kE	84.7	4.0E	104.3	5kE	370.0				
168	999.5	3.0M	16.9	2.0M	31.4	4.0E	78.9	5kE	87.9	4.0E	104.9	5kE	370.0				
169	978.9	3.0M	16.9	2.0M	31.4	4.0E	78.1	5kE	91.2	4.0E	105.7	5kE	370.0				
170	958.0	3.0M	16.9	2.0M	31.4	4.0E	77.2	5kE	94.3	4.0E	105.3	5kE	370.0				
171	936.8	3.0M	16.9	2.0M	31.4	4.0E	76.4	5kE	97.5	4.0E	104.6	5kE	370.0				
172	915.4	3.0M	16.9	2.0M	31.4	4.0E	75.8	5kE	100.9	4.0E	104.1	5kE	370.0				
173	893.9	3.0M	16.9	2.0M	31.4	4.0E	75.0	5kE	370.0								
174	872.2	3.0M	16.9	2.0M	31.4	4.0E	74.4	5kE	370.0								
175	850.5	3.0M	16.9	2.0M	31.4	4.0E	73.9	5kE	370.0								
176	828.7	3.0M	16.9	2.0M	31.4	4.0E	73.2	5kE	370.0								
177	806.9	3.0M	16.9	2.0M	31.4	4.0E	73.2	5kE	370.0								
178	785.1	3.0M	16.9	2.0M	31.4	4.0E	73.9	5kE	137.3	2.0E	159.3	5kE	370.0				
179	763.4	3.0M	16.9	2.0M	31.4	4.0E	74.4	5kE	118.3	4.0E	133.3	2.0E	158.4	5kE	370.0		
180	741.8	3.0M	16.9	2.0M	31.4	4.0E	75.0	5kE	118.0	4.0E	133.7	2.0E	157.6	5kE	158.8	2.0E	162.4
181	720.3	3.0M	16.9	2.0M	31.4	4.0E	75.6	5kE	117.6	4.0E	134.1	2.0E	179.3	5kE	370.0		
182	699.0	3.0M	16.9	2.0M	31.4	4.0E	75.8	5kE	117.3	4.0E	134.5	2.0E	180.2	5kE	370.0		
183	678.0	3.0M	16.9	2.0M	31.4	4.0E	73.5	5kE	115.2	4.0E	135.2	2.0E	184.9	5kE	370.0		
184	657.1	3.0M	16.9	2.0M	31.4	4.0E	71.5	5kE	113.1	4.0E	135.7	2.0E	190.1	5kE	370.0		
185	636.6	3.0M	16.9	2.0M	31.4	4.0E	69.7	5kE	111.0	4.0E	136.3	2.0E	195.4	5kE	370.0		
186	616.4	4.0E	69.0	5kE	109.3	4.0E	137.0	2.0E	203.9	5kE	370.0						
187	596.5	4.0E	68.4	5kE	107.3	4.0E	137.8	2.0E	213.4	5kE	370.0						
188	577.1	4.0E	67.9	5kE	105.7	4.0E	138.6	2.0E	225.1	5kE	370.0						
189	558.0	4.0E	67.3	5kE	104.0	4.0E	139.4	2.0E	241.1	5kE	370.0						
190	539.5	4.0E	66.8	5kE	97.7	4.0E	140.2	2.0E	253.5	5kE	370.0						
191	521.4	4.0E	66.3	5kE	95.8	4.0E	141.1	2.0E	267.0	5kE	370.0						
192	503.9	4.0E	65.8	5kE	94.8	4.0E	142.1	2.0E	218.4	5kE	219.8	2.0E	266.2	5kE	354.2	4.0E	361.1
193	486.9	4.0E	65.5	5kE	93.8	4.0E	143.1	2.0E	216.8	5kE	221.1	2.0E	224.7	5kE	237.7	2.0E	282.8
194	470.5	4.0E	65.0	5kE	92.9	4.0E	143.9	2.0E	217.3	5kE	222.6	2.0E	222.9	5kE	236.9	2.0E	239.1
195	454.7	4.0E	64.5	5kE	92.1	4.0E	144.5	2.0E	217.9	5kE	252.0	2.0E	313.0	5kE	337.6	4.0E	370.0
196	439.6	4.0E	63.9	5kE	91.2	4.0E	145.3	2.0E	222.4	5kE	252.3	2.0E	273.9	5kE	280.7	2.0E	303.2
197	425.2	4.0E	63.2	5kE	87.9	4.0E	146.3	2.0E	207.4	5kE	213.1	2.0E	224.3	5kE	339.4	4.0E	370.0
198	411.4	4.0E	62.6	5kE	77.6	4.0E	147.1	2.0E	200.5	5kE	203.9	2.0E	210.2	5kE	340.7	4.0E	344.2
199	398.4	4.0E	62.1	5kE	75.8	4.0E	148.1	2.0E	202.0	5kE	322.5	4.0E	335.9	5kE	348.9	4.0E	370.0
200	386.1	4.0E	61.5	5kE	74.0	4.0E	149.2	2.0E	192.0	5kE	196.0	2.0E	203.4	5kE	293.9	2.0E	295.2
201	374.6	4.0E	61.0	5kE	72.4	4.0E	150.3	2.0E	193.0	5kE	199.4	2.0E	204.4	5kE	285.3	2.0E	298.5
202	363.9	4.0E	60.5	5kE	70.8	4.0E	151.4	2.0E	180.6	5kE	199.4	4.0E	370.0	5kE	305.5	2.0E	310.9
203	353.9	4.0E	60.0	5kE	69.4	4.0E	152.6	2.0E	193.3	5kE	276.6	2.0E	282.0	5kE	282.8	2.0E	294.2
204	344.7	4.0E	59.7	5kE	68.1	4.0E	153.9	2.0E	191.0	5kE	276.5	2.0E	334.1	5kE	341.8	2.0E	356.6
205	336.3	4.0E	59.2	5kE	66.8	4.0E	155.3	2.0E	182.5	5kE	191.5	2.0E	197.6	5kE	246.9	4.0E	247.7
206	328.6	4.0E	58.9	5kE	66.5	4.0E	156.8	2.0E	196.0	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
207	321.7	4.0E	58.6	5kE	66.0	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
208	315.5	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
209	310.0	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
210	305.2	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
211	301.0	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
212	297.4	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6
213	294.4	2.0M	2.9	5.0M	31.2	4.0E	158.2	2.0E	194.6	5kE	276.6	2.0E	310.8	5kE	237.9	4.0E	239.6



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
214	291.9	2.0M	2.9	5.0M	31.2	4.0E	56.6	5kE	63.9	4.0E	160.6	5kE	166.6	4.0E	171.1	5kE	183.3
		2.0E	188.1	5kE	197.9	4.0E	205.8	5kE	207.9	4.0E	225.6	5kE	233.2	4.0E	262.5	5kE	265.1
		2.0E	370.0														
215	289.8	2.0M	2.9	5.0M	31.2	4.0E	56.3	5kE	63.7	4.0E	154.8	5kE	167.5	4.0E	172.7	5kE	184.8
		2.0E	186.4	5kE	197.0	4.0E	204.7	5kE	209.1	4.0E	225.6	5kE	232.1	4.0E	260.9	5kE	264.1
		2.0E	370.0														
216	288.1	2.0M	2.9	5.0M	31.2	4.0E	55.8	5kE	63.6	4.0E	155.1	5kE	168.7	4.0E	172.8	5kE	196.0
		4.0E	203.6	5kE	207.9	4.0E	225.8	5kE	235.1	4.0E	259.4	5kE	263.1	4.0E	370.0		
217	286.8	2.0M	2.9	5.0M	31.2	4.0E	55.2	5kE	63.4	4.0E	146.6	5kE	152.7	4.0E	155.5	5kE	169.8
		4.0E	169.9	5kE	195.2	4.0E	202.5	5kE	206.8	4.0E	226.0	5kE	237.5	4.0E	257.7	5kE	261.2
		4.0E	262.3	2.0E	370.0												
218	286.3	2.0M	2.9	5.0M	31.2	4.0E	54.6	5kE	63.2	4.0E	137.4	5kE	139.2	4.0E	149.5	5kE	152.2
		4.0E	155.6	5kE	194.4	4.0E	201.5	5kE	207.4	4.0E	228.0	5kE	239.0	4.0E	255.9	5kE	259.4
		4.0E	261.5	2.0E	370.0												
219	287.3	2.0M	2.9	5.0M	31.2	4.0E	54.1	5kE	63.1	4.0E	137.3	5kE	143.1	4.0E	147.7	5kE	151.6
		4.0E	155.5	5kE	157.1	4.0E	159.6	5kE	192.5	4.0E	204.4	5kE	207.9	4.0E	224.0	5kE	225.8
		4.0E	231.1	5kE	240.4	4.0E	260.9	2.0E	370.0								
220	289.5	2.0M	2.9	5.0M	31.2	4.0E	53.4	5kE	63.1	4.0E	137.3	5kE	151.1	4.0E	158.0	5kE	160.8
		4.0E	165.6	5kE	189.3	4.0E	203.7	5kE	207.3	4.0E	230.9	5kE	242.0	4.0E	260.4	2.0E	370.0
221	292.7	2.0M	2.9	5.0M	31.2	4.0E	52.9	5kE	62.9	4.0E	136.5	5kE	141.3	4.0E	144.0	5kE	150.8
		4.0E	158.7	5kE	185.6	4.0E	203.1	5kE	206.8	4.0E	227.9	5kE	243.7	4.0E	259.9	2.0E	370.0
222	296.7	2.0M	2.9	5.0M	31.2	4.0E	52.5	5kE	62.9	4.0E	135.2	5kE	135.7	4.0E	141.8	5kE	182.2
		4.0E	202.6	5kE	206.5	4.0E	225.0	5kE	229.3	4.0E	232.6	5kE	241.1	4.0E	259.4	2.0E	370.0
223	301.1	2.0M	2.9	5.0M	31.2	4.0E	52.0	5kE	62.4	4.0E	139.5	5kE	179.0	4.0E	205.8	5kE	206.0
		4.0E	225.1	5kE	226.4	4.0E	233.4	5kE	240.6	4.0E	258.9	2.0E	370.0				
224	305.6	1.5M	1.6	5.0M	31.9	4.0E	51.5	5kE	59.4	4.0E	130.4	5kE	135.0	4.0E	137.6	5kE	176.4
		4.0E	234.2	5kE	238.3	4.0E	258.5	2.0E	370.0								
225	310.0	1.5M	1.6	5.0M	31.9	4.0E	49.4	5kE	56.8	4.0E	126.2	5kE	175.9	4.0E	232.6	5kE	235.8
		4.0E	258.1	2.0E	370.0												
226	313.9	1.5M	1.6	5.0M	31.9	4.0E	47.5	5kE	54.4	4.0E	115.6	5kE	169.8	4.0E	230.1	5kE	233.2
		4.0E	257.2	2.0E	370.0												
227	317.3	1.5M	1.6	5.0M	31.9	4.0E	47.2	5kE	52.6	4.0E	123.6	5kE	130.0	4.0E	131.0	5kE	165.0
		4.0E	227.9	5kE	241.6	4.0E	256.0	2.0E	370.0								
228	319.8	1.5M	1.6	5.0M	31.9	4.0E	47.0	5kE	52.6	4.0E	122.8	5kE	125.9	4.0E	130.2	5kE	165.3
		4.0E	232.9	5kE	237.1	4.0E	244.5	5kE	251.1	4.0E	255.1	2.0E	370.0				
229	321.3	1.5M	1.6	5.0M	31.9	4.0E	46.8	5kE	52.5	4.0E	129.2	5kE	156.3	4.0E	158.7	5kE	161.4
		4.0E	165.3	5kE	165.8	4.0E	246.6	5kE	253.3	4.0E	254.0	2.0E	370.0				
230	321.9	1.5M	1.6	5.0M	31.9	4.0E	46.7	5kE	52.5	4.0E	128.4	5kE	147.9	4.0E	149.7	5kE	153.0
		4.0E	153.2	5kE	155.3	4.0E	159.8	5kE	161.7	4.0E	243.5	5kE	248.5	4.0E	250.6	2.0E	370.0
231	321.4	1.5M	1.6	5.0M	31.9	4.0E	46.5	5kE	52.5	4.0E	127.6	5kE	146.8	4.0E	149.2	5kE	150.0
		4.0E	153.4	5kE	155.3	4.0E	161.1	5kE	162.1	4.0E	240.4	5kE	243.3	4.0E	247.4	2.0E	370.0
232	319.9	1.5M	1.6	5.0M	31.9	4.0E	46.5	5kE	52.5	4.0E	126.3	5kE	147.6	4.0E	153.4	5kE	155.3
		4.0E	162.2	5kE	162.5	4.0E	218.4	5kE	226.0	4.0E	230.8	5kE	238.5	4.0E	244.3	2.0E	370.0
233	317.6	1.5M	1.6	5.0M	31.9	4.0E	46.3	5kE	52.5	4.0E	89.0	5kE	90.9	4.0E	123.6	5kE	142.7
		4.0E	144.7	5kE	148.5	4.0E	153.5	5kE	155.5	4.0E	206.0	5kE	208.2	4.0E	209.4	5kE	215.7
		4.0E	216.0	5kE	220.5	4.0E	226.3	5kE	230.1	4.0E	240.8	2.0E	370.0				
234	314.5	1.5M	1.6	5.0M	31.9	4.0E	46.3	5kE	52.5	4.0E	89.3	5kE	93.0	4.0E	121.0	5kE	142.6
		4.0E	146.9	5kE	149.5	4.0E	153.9	5kE	155.5	4.0E	203.3	5kE	205.7	4.0E	233.4	2.0E	370.0
235	310.8	1.5M	1.6	5.0M	31.9	4.0E	44.6	5kE	52.5	4.0E	91.6	5kE	95.3	4.0E	118.6	5kE	142.4
		4.0E	149.3	5kE	150.5	4.0E	154.5	5kE	155.6	4.0E	200.7	5kE	203.3	4.0E	223.5	2.0E	370.0
236	306.8	2.0M	4.3	5.0M	30.7	4.0E	42.8	5kE	52.5	4.0E	93.8	5kE	97.7	4.0E	112.3	5kE	142.4
		4.0E	155.1	5kE	155.8	4.0E	199.1	5kE	201.0	4.0E	212.8	2.0E	370.0				
237	302.6	2.0M	4.3	5.0M	30.7	4.0E	41.4	5kE	50.2	4.0E	95.6	5kE	100.3	4.0E	106.5	5kE	145.3
		4.0E	155.8	5kE	156.1	4.0E	203.1	2.0E	370.0								
238	298.6	2.0M	4.3	5.0M	30.7	4.0E	39.9	5kE	48.3	4.0E	86.6	5kE	133.7	4.0E	135.3	5kE	146.8
		4.0E	194.4	2.0E	370.0												
239	295.0	2.0M	4.3	5.0M	30.7	4.0E	38.6	5kE	46.5	4.0E	79.2	5kE	130.4	4.0E	130.7	5kE	132.6
		4.0E	136.5	5kE	144.5	4.0E	186.4	2.0E	370.0								
240	292.0	2.0M	4.3	5.0M	30.7	4.0E	37.3	5kE	44.9	4.0E	74.7	5kE	112.3	4.0E	113.0	5kE	115.9
		4.0E	119.4	5kE	129.2	4.0E	131.2	5kE	132.6	4.0E	137.6	5kE	142.3	4.0E	145.0	5kE	149.0
		4.0E	179.1	2.0E	370.0												
241	290.0	2.0M	4.3	5.0M	30.7	4.0E	36.2	5kE	43.3	4.0E	73.2	5kE	81.6	4.0E	88.0	5kE	105.4
		4.0E	111.8	5kE	114.7	4.0E	118.8	5kE	124.4	4.0E	125.2	5kE	128.3	4.0E	131.8	5kE	132.8
		4.0E	138.9	5kE	147.4	4.0E	172.2	2.0E	370.0								
242	289.2	2.0M	4.3	5.0M	30.7	4.0E	35.1	5kE	42.0	4.0E	71.9	5kE	74.8	4.0E	85.9	5kE	99.3
		4.0E	110.7	5kE	113.6	4.0E	118.3	5kE	121.7	4.0E	126.3	5kE	127.3	4.0E	132.4	5kE	133.1
		4.0E	141.6	5kE	146.8	4.0E	165.3	2.0E	370.0								
243	289.7	2.0M	4.3	5.0M	30.7	4.0E	34.1	5kE	40.7	4.0E	70.7	5kE	72.1	4.0E	84.0	5kE	96.7
		4.0E	109.6	5kE	112.5	4.0E	118.0	5kE	119.3	4.0E	133.1	5kE	133.3	4.0E	144.4	5kE	147.7
		4.0E	158.8	2.0E	370.0												
244	290.9	2.0M	4.3	5.0M	30.7	4.0E	33.3	5kE	39.4	4.0E	69.4	5kE	69.4	4.0E	82.2	5kE	97.0
		4.0E	108.6	5kE	111.5	4.0E	147.3	5kE	148.5	4.0E	152.9	2.0E	370.0				
245	292.5	2.0M	4.3	5.0M	30.7	4.0E	32.3	5kE	38.3	4.0E	80.5	5kE	97.0	4.0E	107.7	5kE	110.6
		4.0E	148.1	2.0E	370.0												
246	294.4	2.0M	4.3	5.0M	30.7	4.0E	31.5	5kE	37.2	4.0E	78.9	5kE	93.8	4.0E	106.9	5kE	109.8
		4.0E	144.8	2.0E	370.0												
247	296.6	2.0M	4.3	5.0M	30.7	5kE	36.2	4.0E	85.5	5kE	90.9	4.0E	141.9	2.0E	370.0		
248	299.3	2.0M	4.3	5.0M	30.7	5kE	35.2	4.0E	139.2	2.0E	370.0						
249	302.6	2.0M	4.3	5.0M	30.7	5kE	34.4	4.0E	136.6	2.0E	370.0						
250	306.4	2.0M	4.3	5.0M	30.7												

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
263	425.2	4.0E	11.6	5kE	22.4	4.0E	175.9	2.0E	276.3	4.0E	370.0						
264	439.6	4.0E	10.8	5kE	21.6	4.0E	179.8	2.0E	271.3	4.0E	370.0						
265	454.7	4.0E	10.3	5kE	20.8	4.0E	182.7	2.0E	266.7	4.0E	370.0						
266	470.5	4.0E	9.7	5kE	20.0	4.0E	183.9	2.0E	262.2	4.0E	370.0						
267	486.9	4.0E	9.2	5kE	19.3	4.0E	182.5	2.0E	258.0	4.0E	370.0						
268	503.9	4.0E	8.9	5kE	18.7	4.0E	180.9	2.0E	254.0	4.0E	370.0						
269	521.4	4.0E	8.4	5kE	17.1	4.0E	179.3	2.0E	250.6	4.0E	370.0						
270	539.5	4.0E	8.0	5kE	15.6	4.0E	176.9	2.0E	248.0	4.0E	370.0						
271	558.0	4.0E	7.7	5kE	14.3	4.0E	174.8	2.0E	245.6	4.0E	370.0						
272	577.1	4.0E	7.4	5kE	13.2	4.0E	172.5	2.0E	243.3	4.0E	370.0						
273	596.5	4.0E	7.2	5kE	12.2	4.0E	170.6	2.0E	241.1	4.0E	370.0						
274	616.4	4.0E	6.9	5kE	11.4	4.0E	168.7	2.0E	239.1	4.0E	370.0						
275	636.6	2.0M	3.2	5.0M	31.4	4.0E	166.9	2.0E	237.1	4.0E	370.0						
276	657.1	2.0M	3.2	5.0M	31.4	4.0E	165.1	2.0E	235.6	4.0E	370.0						
277	678.0	2.0M	3.2	5.0M	31.4	4.0E	163.3	2.0E	234.3	4.0E	370.0						
278	699.0	2.0M	3.2	5.0M	31.4	4.0E	161.9	2.0E	233.0	4.0E	305.1	2.0E	313.8	4.0E	370.0		
279	720.3	2.0M	3.2	5.0M	31.4	4.0E	160.5	2.0E	231.9	4.0E	300.5	2.0E	321.1	4.0E	370.0		
280	741.8	2.0M	3.2	5.0M	31.4	4.0E	159.3	2.0E	230.9	4.0E	297.1	2.0E	328.6	4.0E	370.0		
281	763.4	2.0M	3.2	5.0M	31.4	4.0E	158.2	2.0E	230.0	4.0E	294.0	2.0E	336.7	4.0E	370.0		
282	785.1	2.0M	3.2	5.0M	31.4	4.0E	157.1	2.0E	229.0	4.0E	292.1	2.0E	344.4	4.0E	370.0		
283	806.9	2.0M	3.2	5.0M	31.4	4.0E	156.1	2.0E	228.2	4.0E	290.2	2.0E	351.8	4.0E	370.0		
284	828.7	2.0M	3.2	5.0M	31.4	4.0E	155.1	2.0E	228.0	4.0E	288.6	2.0E	359.7	4.0E	370.0		
285	850.5	2.0M	3.2	5.0M	31.4	4.0E	154.3	2.0E	228.2	4.0E	286.9	2.0E	368.1	4.0E	370.0		
286	872.2	2.0M	3.2	5.0M	31.4	4.0E	153.5	2.0E	228.5	4.0E	285.3	2.0E	370.0				
287	893.9	2.0M	3.2	5.0M	31.4	4.0E	152.7	2.0E	228.8	4.0E	283.9	2.0E	370.0				
288	915.4	2.0M	3.2	5.0M	31.4	4.0E	152.1	2.0E	229.2	4.0E	282.6	2.0E	370.0				
289	936.8	2.0M	3.2	5.0M	31.4	4.0E	151.3	2.0E	230.3	4.0E	281.5	2.0E	370.0				
290	958.0	2.0M	3.2	5.0M	31.4	4.0E	150.3	2.0E	231.6	4.0E	280.3	2.0E	370.0				
291	978.9	2.0M	3.2	5.0M	31.4	4.0E	148.9	2.0E	233.0	4.0E	278.9	2.0E	370.0				
292	999.5	2.0M	3.2	5.0M	31.4	4.0E	147.4	2.0E	234.5	4.0E	277.0	2.0E	370.0				
293	1019.8	2.0M	3.2	5.0M	31.4	4.0E	146.1	2.0E	238.8	4.0E	274.7	2.0E	370.0				
294	1039.8	2.0M	3.2	5.0M	31.4	4.0E	144.8	2.0E	243.7	4.0E	268.8	2.0E	370.0				
295	1059.4	2.0M	3.2	5.0M	31.4	4.0E	143.6	2.0E	370.0								
296	1078.5	4.0E	4.2	5kE	5.0	4.0E	142.4	2.0E	370.0								
297	1097.2	4.0E	4.0	5kE	4.8	4.0E	141.3	2.0E	370.0								
298	1115.4	4.0E	4.0	5kE	4.7	4.0E	140.0	2.0E	370.0								
299	1133.0	4.0E	4.0	5kE	4.7	4.0E	138.4	2.0E	370.0								
300	1150.1	4.0E	3.9	5kE	4.5	4.0E	137.0	2.0E	370.0								
301	1166.6	4.0E	3.9	5kE	4.3	4.0E	135.7	2.0E	370.0								
302	1182.4	4.0E	3.9	5kE	4.3	4.0E	133.3	2.0E	370.0								
303	1197.6	4.0E	3.7	5kE	4.2	4.0E	130.5	2.0E	370.0								
304	1212.1	4.0E	3.7	5kE	4.2	4.0E	127.8	2.0E	359.2	4.0E	370.0						
305	1225.8	4.0E	3.7	5kE	4.2	4.0E	125.4	2.0E	337.2	4.0E	370.0						
306	1238.8	4.0E	3.7	5kE	4.0	4.0E	123.0	2.0E	319.9	4.0E	370.0						
307	1251.1	4.0E	3.5	5kE	4.0	4.0E	121.2	2.0E	305.5	4.0E	370.0						
308	1262.5	4.0E	3.5	5kE	3.9	4.0E	119.4	2.0E	291.3	4.0E	370.0						
309	1273.1	4.0E	3.5	5kE	3.9	4.0E	117.6	2.0E	277.9	4.0E	370.0						
310	1282.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	116.0	2.0E	266.7	4.0E	370.0		
311	1291.7	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	114.6	2.0E	257.8	4.0E	370.0		
312	1299.7	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	113.3	2.0E	249.6	4.0E	370.0		
313	1306.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	112.5	2.0E	242.0	4.0E	370.0		
314	1313.0	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	111.7	2.0E	235.8	4.0E	370.0		
315	1318.2	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	110.9	2.0E	230.0	4.0E	370.0		
316	1322.5	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	110.1	2.0E	225.5	4.0E	370.0		
317	1325.9	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	109.4	2.0E	221.6	4.0E	370.0		
318	1328.3	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	108.8	2.0E	217.9	4.0E	370.0		
319	1329.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	108.1	2.0E	214.4	4.0E	370.0		
320	1330.2	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	107.7	2.0E	209.9	4.0E	370.0		
321	1329.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	107.2	2.0E	205.5	4.0E	370.0		
322	1328.3	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	106.7	2.0E	199.2	4.0E	370.0		
323	1325.9	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	106.2	2.0E	192.3	4.0E	370.0		
324	1322.5	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	105.7	2.0E	182.3	4.0E	370.0		
325	1318.2	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	105.4	2.0E	172.4	4.0E	370.0		
326	1313.0	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	105.1	2.0E	164.2	4.0E	370.0		
327	1306.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	104.9	2.0E	158.2	4.0E	370.0		
328	1299.7	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	104.8	2.0E	154.8	4.0E	370.0		
329	1291.7	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	104.8	2.0E	151.6	4.0E	370.0		
330	1282.8	0.5M	1.3	3.0M	2.4	5.0M	22.5	3.0M	31.9	4.0E	104.8	2.0E	149.5	4.0E	370.0		
331	1273.1	4.0E	104.8	2.0E	147.6	4.0E	370.0										
332	1262.5	4.0E	104.9	2.0E	145.8	4.0E	370.0										
333	1251.1	4.0E	105.1	2.0E	144.8	4.0E	370.0										
334	1238.8	4.0E	105.3	2.0E	144.4	4.0E	370.0										
335	1225.8	4.0E	105.4	2.0E	143.9	4.0E	370.0										
336	1212.1	4.0E	105.6	2.0E	143.6	4.0E	370.0										
337	1197.6	4.0E	105.7	2.0E	143.4	4.0E	370.0										
338	1182.4	4.0E	106.1	2.0E	143.2	4.0E	370.0										
339	1166.6	4.0E	106.4	2.0E	143.2	4.0E	370.0										
340	1150.1	4.0E	106.7	2.0E	143.2	4.0E	370.0										
341	1133.0	4.0E	107.3	2.0E	143.4	4.0E	370.0										
342	1115.4	4.0E	108.0	2.0E	143.4	4.0E	370.0										
343	1097.2	4.0E	108.6	2.0E	143.6	4.0E	370.0										
344	1078.5	4.0E	109.3	2.0E	143.7	4.0E	370.0										
345	1059.4	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	110.1	2.0E	144.0	4.0E	370.0		
346																	

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
349	978.9	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	113.6	2.0E	145.3	4.0E	370.0		
350	958.0	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	114.6	2.0E	145.8	4.0E	370.0		
351	936.8	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	115.7	2.0E	146.3	4.0E	370.0		
352	915.4	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	116.8	2.0E	146.8	4.0E	370.0		
353	893.9	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	118.0	2.0E	147.4	4.0E	370.0		
354	872.2	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	119.3	2.0E	148.1	4.0E	370.0		
355	850.5	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	120.5	2.0E	148.9	4.0E	370.0		
356	828.7	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	121.7	2.0E	149.5	4.0E	370.0		
357	806.9	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	122.8	2.0E	150.6	4.0E	370.0		
358	785.1	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	123.9	2.0E	151.8	4.0E	370.0		
359	763.4	0.5M	1.1	1.0M	2.7	2.0M	8.0	6.0M	31.4	4.0E	124.9	2.0E	153.0	4.0E	370.0		

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az	mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
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Radio Station WSNR - 610 kHz, Torrington, Connecticut

Source(s) of Measured Data:

FCC File No. BL-10511, WSNR Application for License

Coordinates: N 41 45 28 W 73 3 6

0	476.7	1.0M	29.0	1.0E	92.4	4.0E	135.5	2.0E	360.3	4.0E	370.0				
1	469.5	1.0M	29.0	1.0E	99.3	4.0E	134.5	2.0E	360.7	4.0E	370.0				
2	462.2	1.0M	29.0	1.0E	107.5	4.0E	133.6	2.0E	360.8	4.0E	370.0				
3	454.8	1.0M	29.0	1.0E	116.8	4.0E	132.8	2.0E	361.3	4.0E	370.0				
4	447.2	1.0M	29.0	1.0E	127.9	4.0E	132.0	2.0E	361.8	4.0E	370.0				
5	439.5	1.0M	29.0	1.0E	139.2	2.0E	362.4	4.0E	370.0						
6	431.7	1.0E	151.9	2.0E	363.2	4.0E	370.0								
7	423.7	1.0E	167.0	2.0E	364.0	4.0E	370.0								
8	415.6	1.0E	185.7	2.0E	261.2	0.5E	293.5	2.0E	365.0	4.0E	370.0				
9	407.4	1.0E	205.4	2.0E	249.6	0.5E	333.9	2.0E	366.1	4.0E	370.0				
10	399.0	1.0E	225.3	2.0E	246.6	0.5E	367.4	4.0E	370.0						
11	390.6	1.0E	245.7	0.5E	368.7	4.0E	370.0								
12	382.0	1.0E	246.2	0.5E	370.0										
13	373.4	1.0E	246.9	0.5E	370.0										
14	364.6	1.0E	249.1	0.5E	370.0										
15	355.8	1.0E	251.9	0.5E	370.0										
16	346.9	1.0E	256.2	0.5E	370.0										
17	337.9	1.0E	262.2	0.5E	370.0										
18	329.0	1.0E	268.4	0.5E	370.0										
19	320.4	1.0E	275.0	0.5E	370.0										
20	311.9	1.5M	4.8	1.0M	30.4	1.0E	282.1	0.5E	370.0						
21	303.5	1.5M	4.8	1.0M	30.4	1.0E	289.7	0.5E	370.0						
22	295.0	1.5M	4.8	1.0M	30.4	1.0E	297.7	0.5E	370.0						
23	286.2	1.5M	4.8	1.0M	30.4	1.0E	306.4	0.5E	370.0						
24	277.1	1.5M	4.8	1.0M	30.4	1.0E	320.7	0.5E	370.0						
25	268.2	1.5M	4.8	1.0M	30.4	1.0E	343.6	0.5E	370.0						
26	259.6	1.5M	4.8	1.0M	30.4	1.0E	370.0								
27	251.1	1.5M	4.8	1.0M	30.4	1.0E	370.0								
28	242.6	1.5M	4.8	1.0M	30.4	1.0E	370.0								
29	234.1	1.5M	4.8	1.0M	30.4	1.0E	370.0								
30	225.3	1.5M	4.8	1.0M	30.4	1.0E	370.0								
31	216.3	1.5M	4.8	1.0M	30.4	1.0E	286.0	2.0E	329.8	1.0E	370.0				
32	207.0	1.5M	4.8	1.0M	30.4	1.0E	271.5	2.0E	356.6	1.0E	370.0				
33	197.6	1.5M	4.8	1.0M	30.4	1.0E	263.3	2.0E	370.0						
34	188.3	1.5M	4.8	1.0M	30.4	1.0E	257.3	2.0E	370.0						
35	179.6	1.5M	4.8	1.0M	30.4	1.0E	253.3	2.0E	370.0						
36	171.5	1.5M	4.8	1.0M	30.4	1.0E	250.6	2.0E	370.0						
37	164.2	1.5M	4.8	1.0M	30.4	1.0E	247.8	2.0E	370.0						
38	156.8	1.5M	4.8	1.0M	30.4	1.0E	245.3	2.0E	370.0						
39	148.9	1.0M	31.9	1.0E	242.9	2.0E	370.0								
40	140.6	1.0M	31.9	1.0E	240.6	2.0E	370.0								
41	132.0	1.0M	31.9	2.0E	32.5	1.0E	238.3	2.0E	370.0						
42	123.0	1.0M	31.9	2.0E	34.3	1.0E	236.3	2.0E	370.0						
43	113.9	1.0M	31.9	2.0E	36.0	1.0E	234.0	2.0E	370.0						
44	104.8	1.0M	31.9	2.0E	38.1	1.0E	231.6	2.0E	370.0						
45	96.0	1.0M	31.9	2.0E	40.6	1.0E	229.5	2.0E	360.8	5kE	369.7	2.0E	370.0		
46	87.8	1.0M	31.9	2.0E	43.3	1.0E	227.2	2.0E	314.5	5kE	342.0	2.0E	359.4	5kE	361.1
47	80.5	1.0M	31.9	2.0E	46.3	1.0E	224.2	2.0E	311.9	5kE	347.9	2.0E	354.2	5kE	358.9
		5kE	370.0												
48	73.8	1.0M	31.9	2.0E	54.7	1.0E	72.3	2.0E	92.2	1.0E	220.8	2.0E	241.9	5kE	242.4
		5kE	307.5	2.0E	309.6	5kE	344.1	2.0E	349.4	5kE	363.6	2.0E	370.0		
49	67.2	1.0M	31.9	2.0E	98.5	1.0E	217.6	2.0E	228.4	5kE	240.1	2.0E	265.5	5kE	340.5
		5kE	363.6	2.0E	364.5	5kE	368.7	2.0E	370.0						
50	60.7	1.0M	31.9	2.0E	103.0	1.0E	214.5	2.0E	229.7	5kE	234.6	2.0E	236.6	5kE	239.3
		5kE	369.3	2.0E	369.7	5kE	370.0								
51	54.4	1.0M	31.9	2.0E	108.1	1.0E	209.9	2.0E	238.3	5kE	240.8	2.0E	254.6	5kE	370.0
52	48.3	1.0M	31.9	2.0E	112.2	1.0E	205.4	2.0E	240.1	5kE	243.5	2.0E	246.4	5kE	370.0
53	42.8	1.0M	31.9	2.0E	115.9	1.0E	201.2	2.0E	234.5	5kE	370.0				
54	38.1	1.0M	31.9	2.0E	119.9	1.0E	197.1	2.0E	227.2	5kE	370.0				
55	34.5	1.0M	31.9	2.0E	124.1	1.0E	192.0	2.0E	222.1	5kE	370.0				
56	32.2	1.0M	31.9	2.0E	128.9	1.0E	186.4	2.0E	214.7	5kE	216.0	2.0E	218.5	5kE	370.0
57	30.8	1.0M	31.9	2.0E	215.0	5kE	370.0								
58	30.3	1.0E	4.2	2.0E	214.4	5kE	370.0								
59	30.4	1.0E	4.0	2.0E	213.2	5kE	370.0								
60	31.0	1.0E	4.0	2.0E	212.3	5kE	370.0								
61	32.0	1.0E	4.0	2.0E	212.8	5kE	370.0								
62	33.2	1.0E	3.9	2.0E	216.8	5kE	370.0								
63	34.5	1.0E	3.9	2.0E	196.0	5kE	196.5	2.0E	216.8	5kE	370.0				
64	36.4	1.0E	3.7	2.0E	197.6	5kE	370.0								
65	38.6	1.0E	3.7	2.0E	199.2	5kE	370.0								
66	41.1	1.0E	3.7	2.0E	185.4	5kE	370.0								
67	43.8	1.0E	3.5	2.0E	184.1	5kE	370.0								
68	46.4	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	177.8	5kE	183.9	2.0E	184.3	5kE	370.0
69	49.0	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	177.0	5kE	370.0				
70	51.5	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	178.0	5kE	370.0				
71	53.9	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	179.0	5kE	370.0				
72	56.0	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	181.1	5kE	370.0				



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

011121
Exhibit 14F18

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
73	57.8	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	193.8	5kE	370.0						
74	59.4	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	196.3	5kE	370.0						
75	60.7	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	197.3	5kE	370.0						
76	61.7	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	198.3	5kE	370.0						
77	62.4	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	199.2	5kE	370.0						
78	62.8	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	200.4	5kE	370.0						
79	62.7	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	201.5	5kE	370.0						
80	62.3	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	201.3	5kE	370.0						
81	61.4	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	198.8	5kE	235.3	2.0E	244.8	5kE	370.0		
82	60.2	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	198.4	5kE	246.1	2.0E	248.5	5kE	370.0		
83	58.6	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	202.9	5kE	246.1	2.0E	251.1	5kE	370.0		
84	56.6	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	207.6	5kE	246.4	2.0E	253.6	5kE	370.0		
85	54.3	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	208.6	5kE	246.6	2.0E	247.4	5kE	251.1	2.0E	254.6
		5kE	370.0														
86	51.8	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	208.4	5kE	251.5	2.0E	255.7	5kE	370.0		
87	49.1	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	138.7	5kE	139.0	2.0E	208.2	5kE	252.0	2.0E	256.9
		5kE	370.0														
88	46.3	1.0M	7.2	0.5M	17.7	1.0M	30.4	2.0E	138.7	5kE	139.9	2.0E	210.0	5kE	250.4	2.0E	257.7
		5kE	370.0														
89	43.4	1.0E	2.9	2.0E	138.9	5kE	140.8	2.0E	214.5	5kE	240.9	2.0E	255.4	5kE	256.5	2.0E	258.6
		5kE	370.0														
90	40.6	1.0E	2.9	2.0E	139.0	5kE	141.6	2.0E	191.4	5kE	200.7	2.0E	229.0	5kE	230.9	2.0E	254.1
		5kE	370.0														
91	37.9	1.0E	2.9	2.0E	139.2	5kE	144.5	2.0E	151.1	5kE	155.9	2.0E	193.8	5kE	200.5	2.0E	257.0
		5kE	370.0														
92	35.5	1.0E	2.9	2.0E	139.5	5kE	146.0	2.0E	150.3	5kE	154.5	2.0E	191.5	5kE	200.2	2.0E	241.4
		5kE	370.0														
93	33.5	1.0E	2.9	2.0E	134.9	5kE	145.6	2.0E	149.5	5kE	153.0	2.0E	189.4	5kE	200.2	2.0E	218.4
		5kE	370.0														
94	32.0	1.0E	2.9	2.0E	135.3	5kE	153.4	2.0E	183.5	5kE	200.0	2.0E	216.1	5kE	370.0		
95	30.5	1.0E	2.9	2.0E	136.0	5kE	153.7	2.0E	176.9	5kE	200.0	2.0E	211.8	5kE	370.0		
96	29.1	1.0E	2.9	2.0E	136.6	5kE	154.2	2.0E	166.2	5kE	166.6	2.0E	176.9	5kE	200.2	2.0E	203.3
		5kE	370.0														
97	27.6	1.0E	2.9	2.0E	137.3	5kE	154.7	2.0E	165.9	5kE	167.5	2.0E	177.0	5kE	370.0		
98	26.3	1.0E	2.9	2.0E	135.0	5kE	155.1	2.0E	165.4	5kE	168.5	2.0E	173.8	5kE	370.0		
99	25.0	1.0E	2.9	2.0E	136.5	5kE	155.8	2.0E	165.0	5kE	370.0						
100	23.9	1.0E	2.9	2.0E	138.1	5kE	156.4	2.0E	160.1	5kE	370.0						
101	22.9	1.0E	2.9	2.0E	139.7	5kE	370.0										
102	22.1	1.0E	2.9	2.0E	139.5	5kE	370.0										
103	21.6	1.0E	2.9	2.0E	138.9	5kE	370.0										
104	21.3	1.0E	2.9	2.0E	138.2	5kE	370.0										
105	21.3	1.0E	2.9	2.0E	134.2	5kE	134.7	2.0E	137.6	5kE	370.0						
106	21.7	1.0E	2.9	2.0E	133.4	5kE	135.3	2.0E	137.1	5kE	370.0						
107	22.2	1.0E	2.9	2.0E	132.6	5kE	136.2	2.0E	136.6	5kE	370.0						
108	23.1	1.0E	2.9	2.0E	131.8	5kE	370.0										
109	24.1	1.0E	2.9	2.0E	128.7	5kE	370.0										
110	25.4	1.0E	2.9	2.0E	125.5	5kE	370.0										
111	26.8	1.0E	2.9	2.0E	122.6	5kE	370.0										
112	28.3	1.0E	2.9	2.0E	119.9	5kE	370.0										
113	29.9	1.0E	2.9	2.0E	117.5	5kE	370.0										
114	31.6	1.0E	2.9	2.0E	115.7	5kE	370.0										
115	33.3	1.0E	2.9	2.0E	114.1	5kE	370.0										
116	35.1	1.0E	2.9	2.0E	108.1	5kE	370.0										
117	36.8	1.0E	2.9	2.0E	99.9	5kE	370.0										
118	38.6	1.0E	2.9	2.0E	89.8	5kE	90.8	2.0E	100.1	5kE	370.0						
119	40.3	1.0E	2.9	2.0E	90.8	5kE	92.7	2.0E	98.7	5kE	370.0						
120	42.0	1.0E	2.9	2.0E	91.7	5kE	370.0										
121	43.7	1.0E	2.9	2.0E	81.0	5kE	81.0	2.0E	92.2	5kE	370.0						
122	45.3	1.0E	2.9	2.0E	82.2	5kE	85.5	2.0E	92.2	5kE	370.0						
123	46.9	1.0E	2.9	2.0E	83.7	5kE	90.6	2.0E	92.1	5kE	370.0						
124	48.7	1.0E	3.1	2.0E	85.3	5kE	370.0										
125	50.6	1.0E	3.1	2.0E	86.4	5kE	370.0										
126	52.6	1.0E	3.1	2.0E	85.3	5kE	370.0										
127	54.7	1.0E	3.1	2.0E	84.3	5kE	124.1	0.5E	124.4	5kE	370.0						
128	56.8	1.0E	3.1	2.0E	70.5	5kE	71.9	2.0E	83.5	5kE	121.3	0.5E	123.8	5kE	370.0		
129	58.9	1.0E	3.1	2.0E	71.9	5kE	75.5	2.0E	82.6	5kE	119.3	0.5E	123.1	5kE	370.0		
130	60.9	1.0M	31.5	2.0E	73.5	5kE	79.5	2.0E	81.8	5kE	118.8	0.5E	122.5	5kE	370.0		
131	62.9	1.0M	31.5	2.0E	75.3	5kE	118.1	0.5E	121.8	5kE	370.0						
132	64.7	1.0M	31.5	2.0E	77.1	5kE	117.8	0.5E	121.3	5kE	370.0						
133	66.4	1.0M	31.5	2.0E	79.0	5kE	117.3	0.5E	120.9	5kE	370.0						
134	68.0	1.0M	31.5	2.0E	74.7	5kE	93.8	0.5E	94.1	5kE	117.0	0.5E	120.4	5kE	370.0		
135	69.3	1.0M	31.5	2.0E	73.9	5kE	92.9	0.5E	94.6	5kE	116.7	0.5E	119.9	5kE	370.0		
136	70.4	1.0M	31.5	2.0E	73.4	5kE	91.9	0.5E	95.1	5kE	116.4	0.5E	119.6	5kE	370.0		
137	71.3	1.0M	31.5	2.0E	72.7	5kE	91.1	0.5E	95.1	5kE	108.1	0.5E	118.8	5kE	370.0		
138	71.9	1.0M	31.5	2.0E	72.3	5kE	90.3	0.5E	94.1	5kE	105.9	0.5E	118.1	5kE	370.0		
139	72.3	1.0M	31.5	2.0E	71.8	5kE	89.8	0.5E	93.3	5kE	104.0	0.5E	117.3	5kE	370.0		
140	72.4	1.0M	31.5	2.0E	71.3	5kE	89.8	0.5E	93.0	5kE	104.6	0.5E	116.7	5kE	370.0		
141	72.3	1.0M	31.5	2.0E	71.0	5kE	89.8	0.5E	93.2	5kE	106.5	0.5E	116.2	5kE	370.0		
142	72.1	1.0M	31.5	2.0E	69.8	5kE	89.8	0.5E	93.5	5kE	105.1	0.5E	115.6	5kE	370.0		
143	71.7	1.0M	31.5	2.0E	68.7	5kE	89.8	0.5E	93.8	5kE	103.6	0.5E	115.1	5kE	370.0		
144	71.1	1.0M	31.5	2.0E	67.8	5kE	90.0	0.5E	94.1	5kE	102.4	0.5E	114.6	5kE	370.0		
145	70.3	1.0M	31.5	2.0E	66.8	5kE	90.0	0.5E	94.5	5kE	101.2	0.5E	114.1	5kE	370.0		
146	69.4	1.0M	31.5	2.0E	65.8	5kE	90.1	0.5E	94.8	5kE	101.9	0.5E	113.8	5kE	370.0		
147	68.4	1.0M	31.5	2.0E	65.0	5kE	90.3	0.5E	95.3	5kE	102.7	0.5E	113.5	5kE	370.0		
148	67.2	1.0M	31.5	2.0E	64.1	5kE	90.4	0.5E	95.6	5kE	103.5	0.5E	113.1	5kE	370.0		
149	66.0	1.0M	31.5	2.0E	63.2	5kE	90.8	0.5E	96.1	5kE	104.3	0.5E	112.8	5kE	370.0		
150	64.6	1.0M	31.5	2.0E	62.6	5kE	90.9	0.5E	96.6	5kE	105.1	0.5E	112.5				

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist			
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist		
151	63.2	1.0E	4.0	2.0E	62.1	5kE	91.2	0.5E	96.9	5kE	106.1	0.5E	112.3	5kE	370.0		
152	61.7	1.0E	4.2	2.0E	61.8	5kE	91.6	0.5E	97.0	5kE	106.2	0.5E	111.2	5kE	370.0		
153	60.1	1.0E	4.2	2.0E	61.5	5kE	91.9	0.5E	97.4	5kE	106.2	0.5E	109.9	5kE	370.0		
154	58.5	1.0E	4.3	2.0E	61.2	5kE	92.2	0.5E	97.7	5kE	106.4	0.5E	108.5	5kE	370.0		
155	57.0	1.0E	4.3	2.0E	60.8	5kE	92.7	0.5E	97.8	5kE	106.1	0.5E	109.3	5kE	370.0		
156	55.4	1.0E	4.5	2.0E	60.5	5kE	93.0	0.5E	98.2	5kE	104.3	0.5E	112.3	5kE	370.0		
157	53.9	1.0E	4.7	2.0E	60.4	5kE	93.5	0.5E	98.7	5kE	102.7	0.5E	113.3	5kE	370.0		
158	52.3	1.0E	4.8	2.0E	60.0	5kE	93.2	0.5E	99.0	5kE	101.2	0.5E	112.8	5kE	370.0		
159	50.7	1.0E	5.0	2.0E	59.9	5kE	92.7	0.5E	99.5	5kE	99.8	0.5E	112.5	5kE	370.0		
160	48.9	1.0E	5.3	2.0E	59.7	5kE	92.2	0.5E	112.0	5kE	370.0						
161	46.8	1.0E	5.6	2.0E	59.5	5kE	91.9	0.5E	111.7	5kE	370.0						
162	44.7	1.0E	6.0	2.0E	59.4	5kE	91.4	0.5E	111.4	5kE	370.0						
163	42.3	1.0E	6.4	2.0E	59.2	5kE	91.1	0.5E	111.2	5kE	370.0						
164	39.9	1.0E	6.8	2.0E	59.2	5kE	90.8	0.5E	111.0	5kE	370.0						
165	37.4	1.0M	1.1	0.5M	28.5	2.0E	59.1	5kE	90.4	0.5E	111.0	5kE	370.0				
166	35.0	1.0M	1.1	0.5M	28.5	2.0E	58.9	5kE	90.1	0.5E	111.0	5kE	370.0				
167	32.8	1.0M	1.1	0.5M	28.5	2.0E	58.9	5kE	90.0	0.5E	111.0	5kE	370.0				
168	30.7	1.0M	1.1	0.5M	28.5	2.0E	53.8	5kE	89.6	0.5E	111.0	5kE	370.0				
169	29.0	1.0M	1.1	0.5M	28.5	2.0E	54.4	5kE	89.5	0.5E	111.2	5kE	370.0				
170	27.5	1.0M	1.1	0.5M	28.5	2.0E	55.0	5kE	89.3	0.5E	111.4	5kE	370.0				
171	26.3	1.0M	1.1	0.5M	28.5	2.0E	55.7	5kE	89.2	0.5E	111.5	5kE	370.0				
172	25.4	1.0M	1.1	0.5M	28.5	2.0E	56.5	5kE	89.0	0.5E	111.7	5kE	370.0				
173	24.7	1.0M	1.1	0.5M	28.5	2.0E	57.3	5kE	89.0	0.5E	111.8	5kE	370.0				
174	24.3	1.0M	1.1	0.5M	28.5	2.0E	58.1	5kE	89.0	0.5E	112.2	5kE	370.0				
175	24.1	1.0M	1.1	0.5M	28.5	1.0E	58.9	5kE	88.8	0.5E	112.5	5kE	370.0				
176	24.2	1.0M	1.1	0.5M	28.5	1.0E	59.2	5kE	88.8	0.5E	112.8	5kE	370.0				
177	24.6	1.0M	1.1	0.5M	28.5	1.0E	59.7	5kE	88.7	0.5E	113.3	5kE	370.0				
178	25.2	1.0M	1.1	0.5M	28.5	1.0E	60.2	5kE	88.4	0.5E	113.8	5kE	370.0				
179	26.0	1.0M	1.1	0.5M	28.5	1.0E	60.7	5kE	88.2	0.5E	114.1	5kE	370.0				
180	27.0	1.0M	1.1	0.5M	28.5	1.0E	61.2	5kE	88.2	0.5E	114.7	5kE	370.0				
181	28.2	1.0M	1.1	0.5M	28.5	1.0E	61.6	5kE	88.0	0.5E	115.2	5kE	370.0				
182	29.5	1.0M	1.1	0.5M	28.5	1.0E	62.3	5kE	87.9	0.5E	115.6	5kE	370.0				
183	30.9	1.0M	1.1	0.5M	28.5	1.0E	62.8	5kE	87.9	0.5E	115.9	5kE	370.0				
184	32.4	1.0M	1.1	0.5M	28.5	1.0E	64.1	5kE	87.9	0.5E	116.0	5kE	370.0				
185	33.9	1.0M	1.1	0.5M	28.5	1.0E	66.6	5kE	93.8	0.5E	116.4	5kE	370.0				
186	35.4	1.0E	66.6	5kE	94.6	0.5E	116.8	5kE	370.0								
187	37.1	1.0E	66.5	5kE	95.6	0.5E	117.2	5kE	370.0								
188	39.1	1.0E	66.5	5kE	96.7	0.5E	118.1	5kE	370.0								
189	41.3	1.0E	66.3	5kE	97.4	0.5E	119.1	5kE	370.0								
190	43.6	1.0E	66.3	5kE	96.7	0.5E	120.2	5kE	370.0								
191	45.8	1.0E	67.4	5kE	95.9	0.5E	121.5	5kE	370.0								
192	48.0	1.0E	68.6	5kE	95.3	0.5E	122.8	5kE	370.0								
193	49.9	1.0E	69.8	5kE	95.1	4.0E	95.9	0.5E	124.1	5kE	370.0						
194	51.6	1.0E	71.1	5kE	95.0	4.0E	96.7	0.5E	125.0	5kE	370.0						
195	53.0	1.0E	72.3	5kE	94.8	4.0E	97.5	0.5E	126.0	5kE	370.0						
196	54.1	1.0E	73.1	5kE	94.6	4.0E	98.5	0.5E	127.1	5kE	370.0						
197	54.7	1.0E	73.9	5kE	94.6	4.0E	99.3	0.5E	128.3	5kE	370.0						
198	54.9	1.0E	74.7	5kE	94.6	4.0E	97.4	5kE	99.8	4.0E	100.3	0.5E	129.9	5kE	370.0		
199	54.6	1.0E	75.5	5kE	99.3	4.0E	101.2	0.5E	133.3	5kE	370.0						
200	53.9	1.0E	76.4	5kE	99.0	4.0E	102.4	0.5E	137.0	5kE	370.0						
201	52.7	1.0E	77.9	5kE	98.7	4.0E	104.3	0.5E	138.7	5kE	370.0						
202	51.1	1.0E	80.0	5kE	98.3	4.0E	107.5	0.5E	139.4	5kE	370.0						
203	49.3	1.0E	81.9	5kE	101.4	4.0E	110.7	0.5E	140.2	5kE	241.6	4.0E	253.5	5kE	270.0	4.0E	270.4
204	47.3	1.0E	84.0	5kE	102.8	4.0E	114.3	0.5E	141.1	5kE	218.2	4.0E	263.4	5kE	264.6	4.0E	269.7
205	45.2	1.0E	85.9	5kE	104.4	4.0E	118.1	0.5E	141.9	5kE	193.4	4.0E	206.3	5kE	209.2	4.0E	269.1
206	43.1	1.0E	87.9	5kE	106.1	4.0E	113.9	5kE	116.8	4.0E	121.0	0.5E	138.7	5kE	141.0	0.5E	142.9
207	41.2	1.0E	90.0	5kE	107.8	4.0E	109.0	5kE	114.9	4.0E	123.9	0.5E	139.0	5kE	173.8	4.0E	301.1
208	39.6	1.0E	92.1	5kE	113.6	4.0E	126.8	0.5E	139.4	5kE	168.7	4.0E	349.2	5kE	370.0		
209	38.0	1.0M	31.9	1.0E	95.6	5kE	113.6	4.0E	122.5	5kE	123.8	4.0E	129.2	0.5E	139.7	5kE	144.5
210	36.2	1.0M	31.9	1.0E	100.4	5kE	113.8	4.0E	114.7	5kE	124.2	4.0E	131.6	0.5E	150.0	5kE	169.8
211	34.2	1.0M	31.9	1.0E	101.7	4.0E	105.7	5kE	124.9	4.0E	134.2	0.5E	151.9	5kE	169.8	4.0E	329.4
212	32.1	1.0M	31.9	1.0E	100.3	4.0E	111.4	5kE	120.4	4.0E	122.5	5kE	125.4	4.0E	126.8	5kE	128.6
213	29.7	1.0M	31.9	1.0E	98.8	4.0E	123.9	5kE	128.9	4.0E	139.9	0.5E	149.3	5kE	172.5	4.0E	334.1
214	27.2	1.0M	31.9	1.0E	97.5	4.0E	125.2	5kE	151.8	4.0E	158.7	5kE	174.5	4.0E	332.5	5kE	358.9
215	26.2	1.0M	31.9	1.0E	96.2	4.0E	139.2	5kE	149.5	4.0E	165.9	5kE	174.8	4.0E	332.5	5kE	354.5
216	27.7	1.0M	31.9	1.0E	95.1	4.0E	147.3	5kE	147.4	4.0E	169.0	5kE	174.3	4.0E	332.0	5kE	344.2
217	30.2	1.0M	31.9	1.0E	94.0	4.0E	172.2	5kE	173.8	4.0E	331.0	5kE	339.7	4.0E	370.0		
218	32.1	1.0M	31.9	1.0E	92.9	4.0E	330.1	5kE	337.2	4.0E	370.0						
219	32.3	1.0M	31.9	1.0E	91.7	4.0E	329.1	5kE	336.4	4.0E	370.0						
220	32.1	1.0M	31.9	1.0E	90.4	4.0E	327.2	5kE	335.7	4.0E	370.0						
221	32.8	1.0M	31.9	1.0E	89.2	4.0E	272.6	5kE	273.3	4.0E	323.6	5kE	333.6	4.0E	370.0		
222	34.3	1.0M	31.9	1.0E	88.0	4.0E	278.6	5kE	282.8	4.0E	318.0	5kE	324.0	4.0E	370.0		
223	36.3	1.0M	31.9	1.0E	86.9	4.0E	284.9	5kE	292.9	4.0E	298.5	5kE	319.6	4.0E	370.0		
224	38.6	1.0M	31.9	1.0E	85.8	4.0E	360.0	5kE	362.9	4.0E	370.0						
225	41.4	1.0M	31.9	1.0E	84.7	4.0E	339.1	5kE	368.9	4.0E	370.0						



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Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
226	44.7	1.0M	31.9	1.0E	83.5	4.0E	152.4	2.0E	154.8	4.0E	347.5	5kE	370.0				
227	48.5	1.0M	31.9	1.0E	82.6	4.0E	145.6	2.0E	162.7	4.0E	352.4	5kE	360.5	4.0E	370.0		
228	52.9	1.0M	31.9	1.0E	81.6	4.0E	142.4	2.0E	165.8	4.0E	370.0						
229	57.9	1.0M	31.9	1.0E	80.6	4.0E	139.4	2.0E	169.0	4.0E	370.0						
230	62.7	1.0E	79.3	4.0E	136.5	2.0E	170.8	4.0E	370.0								
231	67.0	1.0E	78.2	4.0E	133.7	2.0E	172.5	4.0E	370.0								
232	71.4	1.0E	77.1	4.0E	130.8	2.0E	174.3	4.0E	370.0								
233	76.8	1.0E	76.1	4.0E	128.1	2.0E	176.1	4.0E	370.0								
234	83.4	1.0E	75.2	4.0E	125.5	2.0E	177.2	4.0E	370.0								
235	90.8	1.0E	73.1	4.0E	123.0	2.0E	178.3	4.0E	370.0								
236	98.3	1.0E	71.0	4.0E	120.5	2.0E	179.4	4.0E	370.0								
237	106.1	1.0E	69.2	4.0E	118.4	2.0E	180.7	4.0E	370.0								
238	113.9	1.0E	67.3	4.0E	116.2	2.0E	182.0	4.0E	370.0								
239	122.0	1.0E	65.0	4.0E	115.6	2.0E	183.3	4.0E	370.0								
240	131.1	1.0M	26.9	1.0E	63.1	4.0E	114.9	2.0E	184.3	4.0E	370.0						
241	142.0	1.0M	26.9	1.0E	61.2	4.0E	114.4	2.0E	185.6	4.0E	370.0						
242	154.0	1.0M	26.9	1.0E	59.4	4.0E	113.9	2.0E	186.8	4.0E	370.0						
243	166.7	1.0M	26.9	1.0E	57.8	4.0E	113.9	2.0E	189.1	4.0E	234.6	2.0E	276.0	4.0E	363.9	2.0E	370.0
244	179.5	1.0M	26.9	1.0E	56.3	4.0E	114.3	2.0E	192.0	4.0E	211.3	2.0E	304.6	4.0E	352.8	2.0E	370.0
245	192.2	1.0M	26.9	1.0E	54.9	4.0E	114.7	2.0E	370.0								
246	204.4	1.0M	26.9	1.0E	53.4	4.0E	115.4	2.0E	370.0								
247	215.8	1.0M	26.9	1.0E	51.8	4.0E	115.9	2.0E	370.0								
248	226.4	1.0M	26.9	1.0E	50.4	4.0E	116.5	2.0E	370.0								
249	236.0	1.0M	26.9	1.0E	48.9	4.0E	117.2	2.0E	370.0								
250	244.6	1.0M	26.9	1.0E	47.6	4.0E	118.1	2.0E	370.0								
251	252.4	1.0M	26.9	1.0E	46.3	4.0E	119.1	2.0E	370.0								
252	259.3	1.0M	26.9	1.0E	45.2	4.0E	120.5	2.0E	216.1	4.0E	251.4	2.0E	370.0				
253	265.6	1.0M	26.9	1.0E	44.1	4.0E	122.3	2.0E	173.0	4.0E	261.8	2.0E	370.0				
254	271.5	1.0M	26.9	1.0E	43.1	4.0E	123.9	2.0E	155.0	4.0E	268.0	2.0E	370.0				
255	277.3	1.0M	26.9	1.0E	42.0	4.0E	130.0	2.0E	139.9	4.0E	272.6	2.0E	370.0				
256	283.1	1.0M	26.9	1.0E	41.2	4.0E	276.5	2.0E	370.0								
257	289.2	1.0M	26.9	1.0E	40.2	4.0E	280.5	2.0E	370.0								
258	295.7	1.0M	26.9	1.0E	39.4	4.0E	284.4	2.0E	370.0								
259	303.0	1.0M	26.9	1.0E	38.8	4.0E	288.4	2.0E	370.0								
260	311.0	1.0M	26.9	1.0E	38.0	4.0E	293.9	2.0E	370.0								
261	319.7	1.0E	37.3	4.0E	300.8	2.0E	370.0										
262	328.8	1.0E	36.7	4.0E	313.0	2.0E	370.0										
263	337.9	1.0E	36.0	4.0E	338.8	2.0E	370.0										
264	346.9	1.0E	35.4	4.0E	356.8	2.0E	370.0										
265	355.8	1.0E	34.9	4.0E	370.0												
266	364.6	1.0E	34.3	4.0E	370.0												
267	373.4	1.0E	33.8	4.0E	370.0												
268	382.0	1.0E	33.3	4.0E	370.0												
269	390.6	1.0E	32.8	4.0E	370.0												
270	399.0	1.0E	32.5	4.0E	370.0												
271	407.4	1.0E	32.0	4.0E	370.0												
272	415.6	1.0E	31.5	4.0E	370.0												
273	423.7	1.0E	31.4	4.0E	370.0												
274	431.7	1.0E	31.1	4.0E	370.0												
275	439.5	1.0E	30.9	4.0E	370.0												
276	447.2	1.0E	30.7	4.0E	370.0												
277	454.8	1.0E	30.6	4.0E	370.0												
278	462.2	1.0E	30.4	4.0E	370.0												
279	469.5	1.0E	30.3	4.0E	370.0												
280	476.7	1.0M	26.7	1.0E	30.1	4.0E	370.0										
281	483.6	1.0M	26.7	1.0E	30.1	4.0E	370.0										
282	490.4	1.0M	26.7	1.0E	29.9	4.0E	370.0										
283	497.1	1.0M	26.7	1.0E	29.8	4.0E	370.0										
284	503.6	1.0M	26.7	1.0E	29.8	4.0E	370.0										
285	509.9	1.0M	26.7	1.0E	29.6	4.0E	370.0										
286	516.1	1.0M	26.7	1.0E	29.6	4.0E	370.0										
287	522.1	1.0M	26.7	1.0E	29.5	4.0E	370.0										
288	527.9	1.0M	26.7	1.0E	29.5	4.0E	370.0										
289	533.5	1.0M	26.7	1.0E	29.5	4.0E	370.0										
290	539.0	1.0M	26.7	1.0E	29.3	4.0E	370.0										
291	544.3	1.0M	26.7	1.0E	29.3	4.0E	370.0										
292	549.4	1.0M	26.7	1.0E	29.3	4.0E	370.0										
293	554.4	1.0M	26.7	1.0E	29.3	4.0E	370.0										
294	559.1	1.0M	26.7	1.0E	29.3	4.0E	370.0										
295	563.7	1.0M	26.7	1.0E	29.3	4.0E	370.0										
296	568.1	1.0M	26.7	1.0E	29.3	4.0E	370.0										
297	572.3	1.0M	26.7	1.0E	29.3	4.0E	370.0										
298	576.4	1.0M	26.7	1.0E	29.3	4.0E	370.0										
299	580.2	1.0M	26.7	1.0E	29.5	4.0E	361.1	8.0E	370.0								
300	583.9	1.0M	26.7	1.0E	29.5	4.0E	358.2	8.0E	370.0								
301	587.4	1.0E	29.5	4.0E	350.5	8.0E	370.0										
302	590.7	1.0E	29.6	4.0E	347.5	8.0E	370.0										
303	593.9	1.0E	29.6	4.0E	346.2	8.0E	370.0										
304	596.8	1.0E	29.8	4.0E	344.6	8.0E	370.0										
305	599.6	1.0E	29.9	4.0E	342.0	8.0E	369.0	15.0E	370.0								
306	602.2	1.0E	29.9	4.0E	339.2	8.0E	369.3	15.0E	370.0								
307	604.6	1.0E	30.1	4.0E	332.7	8.0E	369.8	15.0E	370.0								
308	606.9	1.0E	30.3	4.0E	328.5	8.0E	370.0										
309	608.9	1.0E	30.4	4.0E	329.3	8.0E	370.0										
310	610.8	1.0M	28.8	1.0E	30.6	4.0E	331.8	8.0E	370.0								
311	612.5	1.0M	28.8	1.0E	30.7	4.0E	337.6	8.0E	370.0								



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Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
312	614.0	1.0M	28.8	1.0E	30.9	4.0E	343.9	8.0E	370.0								
313	615.3	1.0M	28.8	1.0E	31.1	4.0E	348.1	8.0E	348.4	4.0E	352.1	8.0E	370.0				
314	616.5	1.0M	28.8	1.0E	31.2	4.0E	347.0	8.0E	370.0								
315	617.5	1.0M	28.8	1.0E	31.4	4.0E	349.4	8.0E	352.8	4.0E	356.5	8.0E	359.5	4.0E	360.7	8.0E	363.7
		4.0E	367.9	8.0E	368.9	4.0E	370.0										
316	618.3	1.0M	28.8	1.0E	31.7	4.0E	348.9	8.0E	351.3	4.0E	355.5	8.0E	362.9	4.0E	370.0		
317	618.9	1.0M	28.8	1.0E	31.9	4.0E	370.0										
318	619.4	1.0M	28.8	1.0E	32.2	4.0E	370.0										
319	619.6	1.0M	28.8	1.0E	32.3	4.0E	370.0										
320	619.7	1.0M	28.8	1.0E	32.7	4.0E	370.0										
321	619.6	1.0M	28.8	1.0E	33.0	4.0E	180.6	2.0E	185.7	4.0E	370.0						
322	619.4	1.0M	28.8	1.0E	33.3	4.0E	170.9	2.0E	190.7	4.0E	370.0						
323	618.9	1.0M	28.8	1.0E	33.6	4.0E	167.2	2.0E	192.5	4.0E	370.0						
324	618.3	1.0M	28.8	1.0E	34.0	4.0E	164.8	2.0E	193.8	4.0E	370.0						
325	617.5	1.0M	28.8	1.0E	34.3	4.0E	163.0	2.0E	194.2	4.0E	370.0						
326	616.5	1.0M	28.8	1.0E	34.6	4.0E	161.4	2.0E	194.9	4.0E	370.0						
327	615.3	1.0M	28.8	1.0E	35.1	4.0E	159.8	2.0E	195.7	4.0E	370.0						
328	614.0	1.0M	28.8	1.0E	35.4	4.0E	158.5	2.0E	196.3	4.0E	370.0						
329	612.5	1.0M	28.8	1.0E	35.9	4.0E	157.4	2.0E	197.3	4.0E	370.0						
330	610.8	1.0M	28.8	1.0E	36.4	4.0E	156.4	2.0E	198.8	4.0E	370.0						
331	608.9	1.0E	36.9	4.0E	155.5	2.0E	200.2	4.0E	370.0								
332	606.9	1.0E	37.3	4.0E	154.7	2.0E	201.8	4.0E	370.0								
333	604.6	1.0E	37.8	4.0E	153.9	2.0E	203.6	4.0E	370.0								
334	602.2	1.0E	38.5	4.0E	153.2	2.0E	205.4	4.0E	370.0								
335	599.6	1.0E	38.9	4.0E	152.4	2.0E	207.3	4.0E	370.0								
336	596.8	1.0E	39.6	4.0E	151.8	2.0E	209.2	4.0E	370.0								
337	593.9	1.0E	40.2	4.0E	151.3	2.0E	212.0	4.0E	370.0								
338	590.7	1.0E	40.9	4.0E	150.6	2.0E	215.0	4.0E	370.0								
339	587.4	1.0E	41.7	4.0E	150.2	2.0E	218.1	4.0E	370.0								
340	583.9	1.0E	42.3	4.0E	149.5	2.0E	221.4	4.0E	370.0								
341	580.2	1.0E	43.1	4.0E	148.5	2.0E	225.0	4.0E	370.0								
342	576.4	1.0E	44.1	4.0E	147.6	2.0E	228.7	4.0E	370.0								
343	572.3	1.0E	44.9	4.0E	146.8	2.0E	232.6	4.0E	370.0								
344	568.1	1.0E	45.9	4.0E	146.0	2.0E	236.7	4.0E	370.0								
345	563.7	1.0M	29.0	1.0E	46.8	4.0E	145.3	2.0E	241.1	4.0E	370.0						
346	559.1	1.0M	29.0	1.0E	48.0	4.0E	144.7	2.0E	246.9	4.0E	370.0						
347	554.4	1.0M	29.0	1.0E	49.4	4.0E	144.0	2.0E	253.1	4.0E	370.0						
348	549.4	1.0M	29.0	1.0E	51.2	4.0E	143.4	2.0E	259.9	4.0E	369.0	4.0E	370.0				
349	544.3	1.0M	29.0	1.0E	52.9	4.0E	142.9	2.0E	267.0	4.0E	367.7	4.0E	370.0				
350	539.0	1.0M	29.0	1.0E	55.0	4.0E	142.4	2.0E	274.6	4.0E	366.4	4.0E	370.0				
351	533.5	1.0M	29.0	1.0E	57.3	4.0E	141.6	2.0E	282.4	4.0E	365.3	4.0E	370.0				
352	527.9	1.0M	29.0	1.0E	59.7	4.0E	140.8	2.0E	290.8	4.0E	364.2	4.0E	370.0				
353	522.1	1.0M	29.0	1.0E	62.4	4.0E	140.0	2.0E	299.3	4.0E	363.2	4.0E	370.0				
354	516.1	1.0M	29.0	1.0E	65.5	4.0E	139.2	2.0E	306.7	4.0E	362.4	4.0E	370.0				
355	509.9	1.0M	29.0	1.0E	68.7	4.0E	138.6	2.0E	314.6	4.0E	361.8	4.0E	370.0				
356	503.6	1.0M	29.0	1.0E	72.4	4.0E	137.9	2.0E	322.8	4.0E	361.1	4.0E	370.0				
357	497.1	1.0M	29.0	1.0E	76.4	4.0E	137.3	2.0E	333.5	4.0E	360.8	4.0E	370.0				
358	490.4	1.0M	29.0	1.0E	81.1	4.0E	136.6	2.0E	346.2	4.0E	360.5	4.0E	370.0				
359	483.6	1.0M	29.0	1.0E	86.4	4.0E	136.2	2.0E	360.0	4.0E	360.3	4.0E	370.0				



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az	Region mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
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Radio Station WEJL - 630 kHz, Scranton, Pennsylvania

Source(s) of Measured Data:

FCC File No. BMP19990713AG, WEJL Application for Construction Permit
plus 2001 Measurements on 105°T (see Exhibit 14G)

Coordinates: N 41 24 34 W 75 40 1

0	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	352.6	4.0E	370.0				
1	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	358.9	4.0E	370.0				
2	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	365.5	4.0E	370.0				
3	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
4	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
5	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
6	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
7	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
8	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
9	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
10	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
11	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
12	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
13	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
14	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
15	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
16	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
17	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	370.0						
18	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
19	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
20	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
21	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
22	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
23	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
24	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
25	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
26	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	370.0						
27	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	209.2	2.0E	222.6	4.0E	368.7	2.0E	370.0
28	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	205.2	2.0E	239.0	4.0E	323.0	2.0E	370.0
29	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	204.2	2.0E	370.0				
30	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	203.4	2.0E	370.0				
31	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	203.1	2.0E	370.0				
32	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	204.2	2.0E	370.0				
33	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	205.7	2.0E	370.0				
34	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	207.9	2.0E	370.0				
35	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	211.0	2.0E	370.0				
36	281.6	10.0M	9.0	3.0M	17.1	2.0M	34.0	1.5M	65.0	4.0E	214.2	2.0E	370.0				
37	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	218.4	2.0E	370.0						
38	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	222.9	2.0E	370.0						
39	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	227.9	2.0E	370.0						
40	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	233.0	2.0E	370.0						
41	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	238.5	2.0E	370.0						
42	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	243.3	2.0E	370.0						
43	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	247.5	2.0E	366.8	1.0E	370.0				
44	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	251.9	2.0E	353.3	1.0E	370.0				
45	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	256.5	2.0E	340.9	1.0E	370.0				
46	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	261.4	2.0E	330.6	1.0E	370.0				
47	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	264.9	2.0E	321.2	1.0E	370.0				
48	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	268.6	2.0E	312.5	1.0E	370.0				
49	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	272.5	2.0E	304.3	1.0E	370.0				
50	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	276.5	2.0E	296.6	1.0E	370.0				
51	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	279.2	2.0E	289.4	1.0E	370.0				
52	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	282.1	2.0E	282.6	1.0E	370.0				
53	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	276.8	1.0E	370.0						
54	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	271.2	1.0E	370.0						
55	281.6	2.0M	1.9	4.0M	22.0	3.0M	36.7	4.0E	266.0	1.0E	370.0						
56	281.6	4.0E	261.2	1.0E	370.0												
57	281.6	4.0E	256.5	1.0E	370.0												
58	281.6	4.0E	252.0	1.0E	370.0												
59	281.6	4.0E	247.8	1.0E	370.0												
60	281.6	4.0E	244.0	1.0E	370.0												
61	281.6	4.0E	240.1	1.0E	370.0												
62	281.6	4.0E	236.6	1.0E	370.0												
63	281.6	4.0E	233.2	1.0E	370.0												
64	281.6	4.0E	229.8	1.0E	370.0												
65	281.6	4.0E	226.8	1.0E	370.0												
66	281.6	4.0E	223.9	1.0E	370.0												
67	281.6	4.0E	220.5	1.0E	370.0												
68	281.6	4.0E	216.8	1.0E	370.0												
69	281.6	4.0E	213.2	1.0E	370.0												
70	281.6	4.0E	209.9	1.0E	293.9	2.0E	370.0										
71	281.6	4.0E	206.6	1.0E	285.3	2.0E	370.0										
72	281.6	4.0E	203.6	1.0E	276.3	2.0E	370.0										
73	281.6	4.0E	200.7	1.0E	265.2	2.0E	370.0										
74	281.6	4.0E	197.9	1.0E	249.8	2.0E	370.0										



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

011121
Exhibit 14F23

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
75	281.6	4.0E	195.2	1.0E	237.5	2.0E	370.0								
76	281.6	4.0E	192.8	1.0E	232.2	2.0E	370.0								
77	281.6	4.0E	190.4	1.0E	228.2	2.0E	370.0								
78	281.6	4.0E	186.8	1.0E	225.8	2.0E	370.0								
79	281.6	4.0E	183.5	1.0E	224.0	2.0E	370.0								
80	281.6	2.0M	5.0	1.5M	31.4	4.0E	180.2	1.0E	222.3	2.0E	370.0				
81	281.6	2.0M	5.0	1.5M	31.4	4.0E	177.0	1.0E	221.6	2.0E	370.0				
82	281.6	2.0M	5.0	1.5M	31.4	4.0E	174.1	1.0E	221.3	2.0E	358.9	5kE	360.2	2.0E	370.0
83	281.6	2.0M	5.0	1.5M	31.4	4.0E	171.4	1.0E	221.1	2.0E	358.7	5kE	363.2	2.0E	370.0
84	281.6	2.0M	5.0	1.5M	31.4	4.0E	168.8	1.0E	220.8	2.0E	353.9	5kE	364.4	2.0E	368.1
85	281.6	2.0M	5.0	1.5M	31.4	4.0E	166.9	1.0E	220.8	2.0E	354.5	5kE	370.0		
86	281.6	2.0M	5.0	1.5M	31.4	4.0E	165.0	1.0E	220.6	2.0E	353.1	5kE	370.0		
87	281.6	2.0M	5.0	1.5M	31.4	4.0E	96.4	2.0E	97.4	4.0E	163.2	1.0E	220.8	2.0E	355.3
88	281.6	2.0M	5.0	1.5M	31.4	4.0E	85.5	2.0E	99.8	4.0E	161.4	1.0E	221.1	2.0E	352.0
89	281.6	2.0M	5.0	1.5M	31.4	4.0E	82.2	2.0E	102.4	4.0E	160.0	1.0E	221.4	2.0E	343.9
		2.0E	348.6	5kE	370.0										
90	281.6	2.0M	5.0	1.5M	31.4	4.0E	79.5	2.0E	105.3	4.0E	158.8	1.0E	221.8	2.0E	273.6
		2.0E	287.9	5kE	289.5	2.0E	297.4	5kE	299.0	2.0E	327.7	5kE	370.0		5kE
91	281.6	2.0M	5.0	1.5M	31.4	4.0E	76.8	2.0E	107.2	4.0E	157.9	1.0E	222.3	2.0E	274.9
		2.0E	289.4	5kE	294.3	2.0E	296.0	5kE	370.0						5kE
92	281.6	2.0M	5.0	1.5M	31.4	4.0E	74.4	2.0E	109.3	4.0E	157.6	1.0E	222.9	2.0E	269.1
		2.0E	276.2	5kE	370.0										5kE
93	281.6	2.0M	5.0	1.5M	31.4	4.0E	72.1	2.0E	111.0	4.0E	157.7	1.0E	223.4	2.0E	228.2
		2.0E	242.7	5kE	370.0										5kE
94	281.6	2.0M	5.0	1.5M	31.4	4.0E	70.0	2.0E	113.0	4.0E	157.9	1.0E	224.2	2.0E	225.0
95	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	4.0E	158.4	1.0E	219.5	5kE	278.4	0.5E	285.7
96	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	4.0E	159.2	1.0E	215.2	5kE	273.9	0.5E	278.7
		0.5E	315.8	5kE	370.0										5kE
97	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	4.0E	160.0	1.0E	206.5	5kE	269.6	0.5E	275.4
		0.5E	299.2	5kE	305.0	0.5E	309.8	5kE	370.0						5kE
98	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	4.0E	160.8	1.0E	202.6	5kE	265.4	0.5E	272.3
		0.5E	303.7	5kE	370.0										5kE
99	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	120.5	4.0E	161.9	1.0E	195.4	5kE	261.5
		5kE	277.9	0.5E	295.8	5kE	370.0							0.5E	268.6
100	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	121.7	4.0E	163.0	1.0E	191.5	5kE	253.0
		5kE	276.0	0.5E	288.2	5kE	370.0							0.5E	264.3
101	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.1	4.0E	164.3	1.0E	188.1	5kE	238.7
		5kE	271.8	0.5E	281.3	5kE	370.0							0.5E	260.1
102	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.1	4.0E	166.1	1.0E	184.3	5kE	221.0
		5kE	370.0											0.5E	271.7
103	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.1	4.0E	168.0	1.0E	180.6	5kE	217.6
		5kE	370.0											0.5E	271.0
104	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.3	4.0E	169.9	1.0E	178.2	5kE	216.5
		5kE	370.0											0.5E	261.0
105	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.3	4.0E	172.0	1.0E	176.2	5kE	196.2
		0.5E	212.0	5kE	212.0	0.5E	253.1	5kE	370.0					4.0E	202.9
106	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.5	4.0E	174.3	5kE	188.5	4.0E	196.8
		5kE	370.0											0.5E	246.1
107	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.6	4.0E	172.4	5kE	184.1	4.0E	191.4
		5kE	370.0											0.5E	239.5
108	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	122.8	4.0E	170.6	5kE	179.6	4.0E	189.3
		5kE	370.0											0.5E	233.4
109	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	123.1	4.0E	169.0	5kE	179.9	4.0E	187.2
		5kE	370.0											0.5E	226.6
110	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	123.4	4.0E	167.4	5kE	172.8	4.0E	178.0
		4.0E	185.2	0.5E	218.7	5kE	370.0							5kE	180.9
111	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	123.8	4.0E	167.2	5kE	172.8	4.0E	180.9
		4.0E	183.3	0.5E	214.4	5kE	370.0							5kE	181.9
112	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	124.2	4.0E	168.3	5kE	173.5	4.0E	181.1
		5kE	370.0											0.5E	210.3
113	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	124.9	4.0E	163.7	5kE	174.3	4.0E	178.6
		5kE	370.0											0.5E	205.7
114	281.6	4.0M	26.1	1.0M	113.3	0.5M	119.6	2.0E	125.4	4.0E	160.8	5kE	167.4	4.0E	176.2
		5kE	370.0											0.5E	200.7
115	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	126.2	4.0E	160.3	5kE	162.2
		0.5E	197.8	5kE	370.0									4.0E	173.0
116	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	126.8	4.0E	160.0	5kE	162.1
		0.5E	196.2	5kE	370.0									4.0E	169.9
117	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	127.6	4.0E	159.6	5kE	161.9
		0.5E	194.7	5kE	370.0									4.0E	167.2
118	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	128.4	4.0E	157.2	5kE	159.0
		5kE	161.7	4.0E	164.5	0.5E	178.3	5kE	181.5	0.5E	189.1	5kE	370.0	4.0E	159.3
119	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	128.7	4.0E	156.6	5kE	161.7
		0.5E	172.7	5kE	180.2	0.5E	182.3	5kE	370.0					4.0E	161.9
120	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	128.9	4.0E	156.1	5kE	161.9
		5kE	370.0											0.5E	173.8
121	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	129.1	4.0E	156.3	5kE	162.4
		5kE	370.0											0.5E	174.0
122	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	129.1	4.0E	159.3	5kE	164.8
		5kE	370.0											0.5E	170.4
123	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	128.1	4.0E	162.5	5kE	370.0
124	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	127.1	4.0E	161.7	5kE	370.0
125	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	126.3	4.0E	160.9	5kE	370.0
126	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	123.4	4.0E	160.1	5kE	370.0
127	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	120.7	4.0E	159.5	5kE	176.4
		5kE	370.0											4.0E	177.7
128	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	118.1	4.0E	157.7	5kE	176.1
		5kE	370.0											4.0E	180.6
129	281.6	3.0M	8.0	1.0M	29.9	0.5M	60.0	0.1M	66.1	2.0E	113.1	4.0E	155.5	5kE	167.5
		5kE	370.0											4.0E	183.5



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
130	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	108.0	4.0E	153.4	5kE	164.2	4.0E	186.5
131	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	100.4	4.0E	188.5	5kE	370.0		
132	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	89.5	4.0E	190.5	5kE	370.0		
133	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	72.9	4.0E	192.8	5kE	370.0		
134	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	70.0	4.0E	195.1	5kE	370.0		
135	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	67.4	4.0E	197.5	5kE	370.0		
136	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	65.2	4.0E	200.0	5kE	370.0		
137	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	64.1	4.0E	201.8	5kE	370.0		
138	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.7	4.0E	198.8	5kE	370.0		
139	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.6	4.0E	205.8	5kE	370.0		
140	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.4	4.0E	208.6	5kE	370.0		
141	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.2	4.0E	211.8	5kE	370.0		
142	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.1	4.0E	215.8	5kE	370.0		
143	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	62.9	4.0E	218.2	5kE	370.0		
144	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	62.8	4.0E	220.5	5kE	370.0		
145	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	62.8	4.0E	226.6	5kE	370.0		
146	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	62.9	4.0E	229.5	5kE	370.0		
147	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	62.9	4.0E	230.6	5kE	370.0		
148	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.1	4.0E	231.4	5kE	370.0		
149	281.6	1.5M	1.6	6.0M	5.0	1.5M	20.0	1.0M	57.1	2.0E	63.2	4.0E	232.2	5kE	370.0		
150	281.6	2.0M	24.1	1.0M	46.7	2.0E	63.2	4.0E	233.2	5kE	370.0						
151	281.6	2.0M	24.1	1.0M	46.7	2.0E	63.4	4.0E	237.9	5kE	370.0						
152	281.6	2.0M	24.1	1.0M	46.7	2.0E	63.7	4.0E	233.2	5kE	370.0						
153	281.6	2.0M	24.1	1.0M	46.7	2.0E	63.9	4.0E	243.0	5kE	370.0						
154	281.6	2.0M	24.1	1.0M	46.7	2.0E	64.1	4.0E	240.3	5kE	370.0						
155	281.6	2.0M	24.1	1.0M	46.7	2.0E	64.4	4.0E	243.8	5kE	244.6	4.0E	247.5	5kE	370.0		
156	281.6	2.0M	24.1	1.0M	46.7	2.0E	64.5	4.0E	249.3	5kE	370.0						
157	281.6	2.0M	24.1	1.0M	46.7	2.0E	64.9	4.0E	251.2	5kE	370.0						
158	281.6	2.0M	24.1	1.0M	46.7	2.0E	65.2	4.0E	250.1	5kE	254.4	4.0E	255.2	5kE	370.0		
159	281.6	2.0M	24.1	1.0M	46.7	2.0E	65.5	4.0E	246.9	5kE	250.6	4.0E	257.7	5kE	370.0		
160	281.6	2.0M	24.1	1.0M	46.7	2.0E	65.8	4.0E	260.2	5kE	370.0						
161	281.6	2.0M	24.1	1.0M	46.7	2.0E	66.3	4.0E	264.1	5kE	370.0						
162	281.6	2.0M	24.1	1.0M	46.7	2.0E	66.6	4.0E	270.2	5kE	370.0						
163	281.6	2.0M	24.1	1.0M	46.7	2.0E	67.1	4.0E	272.0	5kE	370.0						
164	281.6	2.0M	24.1	1.0M	46.7	2.0E	67.6	4.0E	279.5	5kE	370.0						
165	281.6	2.0M	24.1	1.0M	46.7	2.0E	68.1	4.0E	174.8	5kE	174.9	4.0E	258.1	5kE	260.4	4.0E	281.3
166	281.6	2.0M	24.1	1.0M	46.7	2.0E	68.6	4.0E	174.6	5kE	175.3	4.0E	255.1	5kE	269.4	4.0E	283.2
167	281.6	2.0M	24.1	1.0M	46.7	2.0E	69.0	4.0E	174.5	5kE	175.9	4.0E	252.2	5kE	277.3	4.0E	281.8
168	281.6	2.0M	24.1	1.0M	46.7	2.0E	69.7	4.0E	174.5	5kE	176.4	4.0E	249.8	5kE	370.0		
169	281.6	2.0M	24.1	1.0M	46.7	2.0E	70.2	4.0E	174.5	5kE	177.0	4.0E	251.1	5kE	370.0		
170	281.6	1.5M	22.5	1.0M	45.1	2.0E	70.8	4.0E	174.5	5kE	177.7	4.0E	246.4	5kE	370.0		
171	281.6	1.5M	22.5	1.0M	45.1	2.0E	71.6	4.0E	175.1	5kE	178.5	4.0E	241.2	5kE	292.6	4.0E	308.8
172	281.6	1.5M	22.5	1.0M	45.1	2.0E	72.1	4.0E	176.4	5kE	179.3	4.0E	237.5	5kE	286.8	4.0E	309.0
173	281.6	1.5M	22.5	1.0M	45.1	2.0E	72.7	4.0E	177.7	5kE	180.1	4.0E	232.9	5kE	279.1	4.0E	309.3
174	281.6	1.5M	22.5	1.0M	45.1	2.0E	73.2	4.0E	179.6	5kE	184.3	4.0E	227.7	5kE	265.2	4.0E	309.8
175	281.6	1.5M	22.5	1.0M	45.1	2.0E	73.9	4.0E	183.5	5kE	188.8	4.0E	222.9	5kE	236.4	4.0E	254.1
176	281.6	1.5M	22.5	1.0M	45.1	2.0E	74.5	4.0E	187.6	5kE	193.4	4.0E	218.2	5kE	229.2	4.0E	310.8
177	281.6	1.5M	22.5	1.0M	45.1	2.0E	75.3	4.0E	192.2	5kE	198.4	4.0E	199.9	5kE	224.8	4.0E	311.4
178	281.6	1.5M	22.5	1.0M	45.1	2.0E	76.0	4.0E	196.8	5kE	205.2	4.0E	212.0	5kE	220.6	4.0E	311.4
179	281.6	1.5M	22.5	1.0M	45.1	2.0E	76.8	4.0E	311.6	2.0E	370.0						
180	281.6	1.5M	22.5	1.0M	45.1	2.0E	77.6	4.0E	311.7	2.0E	370.0						
181	281.6	1.5M	22.5	1.0M	45.1	2.0E	78.4	4.0E	312.1	2.0E	370.0						
182	281.6	1.5M	22.5	1.0M	45.1	2.0E	79.3	4.0E	312.4	2.0E	362.6	5kE	364.5	2.0E	370.0		
183	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	312.9	2.0E	338.8	5kE	343.4
184	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	313.5	2.0E	350.4	5kE	370.0
185	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	207.1	5kE	211.6	4.0E	314.1
186	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	211.1	5kE	216.0	4.0E	225.6
187	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	205.0	5kE	207.0	4.0E	214.8
188	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	316.1	2.0E	345.5	5kE	370.0
189	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	206.6	5kE	225.0	4.0E	226.6
190	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	291.9	5kE	294.3	4.0E	300.9
191	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	340.7	5kE	370.0		
192	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	208.2	5kE	229.3	4.0E	258.0
193	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	288.7	5kE	295.0	4.0E	299.2
194	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	211.5	5kE	219.7	4.0E	220.0
195	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	301.1	5kE	328.5	2.0E	331.8
196	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	225.8	5kE	239.6	4.0E	261.2
197	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	365.3	5kE	369.3	4.0E	370.0
198	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	231.7	5kE	334.9	4.0E	344.1
199	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	222.4	5kE	234.2	4.0E	237.5
200	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	365.6	5kE	370.0		



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
194	281.6	3.0M	5.0	1.5M	6.9	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	234.8	5kE	272.8
		5kE	308.0	4.0E	339.1	5kE	343.3	4.0E	358.6	5kE	370.0				
195	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	240.6
		4.0E	247.8	5kE	263.8	4.0E	268.0	5kE	271.2	4.0E	277.5	5kE	279.9	4.0E	285.0
		4.0E	290.2	5kE	292.1	4.0E	334.9	5kE	339.4	4.0E	358.1	5kE	370.0		
196	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	245.4
		4.0E	252.0	5kE	261.0	4.0E	268.3	5kE	269.6	4.0E	274.2	5kE	276.3	4.0E	283.9
		4.0E	363.1	5kE	370.0										
197	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	243.0
		4.0E	250.6	5kE	263.3	4.0E	272.0	5kE	273.1	4.0E	353.9	5kE	358.9	4.0E	361.8
198	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	250.9
		4.0E	269.9	5kE	270.0	4.0E	360.3	5kE	367.7	4.0E	370.0				
199	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	251.2
		4.0E	356.6	5kE	361.6	4.0E	370.0								
200	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	222.4
		4.0E	251.5	5kE	252.2	4.0E	348.3	5kE	355.8	4.0E	370.0				
201	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	220.0
		4.0E	352.1	5kE	361.8	4.0E	370.0								
202	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	218.9
		4.0E	310.6	5kE	316.1	4.0E	322.8	5kE	325.2	4.0E	330.9	5kE	334.9	4.0E	361.6
		4.0E	370.0												
203	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	218.7
		4.0E	336.4	5kE	340.4	4.0E	354.2	5kE	365.6	4.0E	366.9	2.0E	370.0		
204	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	218.5
		4.0E	354.7	2.0E	370.0										
205	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	4.0E	218.7
206	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	109.9
		2.0E	370.0												
207	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	111.4
		2.0E	370.0												
208	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	113.0
		2.0E	370.0												
209	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	114.4
		2.0E	370.0												
210	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	116.0
		2.0E	370.0												
211	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	117.6
		2.0E	370.0												
212	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	119.3
		2.0E	370.0												
213	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	121.0
		2.0E	370.0												
214	281.6	0.5M	1.8	1.5M	3.5	3.0M	8.0	1.5M	17.1	1.5M	60.0	1.0M	108.6	2.0E	122.8
		2.0E	370.0												
215	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	4.0E	232.2	2.0E	370.0		
216	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	4.0E	230.6	2.0E	370.0		
217	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	142.3	4.0E	196.0	2.0E	370.0
218	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	153.7	4.0E	155.9	2.0E	370.0
219	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
220	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
221	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
222	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
223	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
224	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
225	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
226	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
227	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	370.0				
228	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	294.5	4.0E	359.7	2.0E	370.0
229	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	268.3	4.0E	370.0		
230	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	255.7	4.0E	370.0		
231	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	244.5	4.0E	370.0		
232	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	235.8	4.0E	370.0		
233	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	228.4	4.0E	370.0		
234	281.6	2.0M	13.0	5.0M	36.0	3.0M	70.0	2.0M	139.2	2.0E	221.6	4.0E	370.0		
235	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	215.2	4.0E	370.0		
236	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	210.2	4.0E	370.0		
237	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	206.6	4.0E	370.0		
238	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	203.1	4.0E	370.0		
239	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	199.9	4.0E	370.0		
240	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	197.3	4.0E	370.0		
241	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	195.4	4.0E	370.0		
242	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	193.4	4.0E	370.0		
243	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	191.5	4.0E	282.1	2.0E	291.0
244	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	190.4	4.0E	270.2	2.0E	294.2
245	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	190.4	4.0E	262.3	2.0E	295.8
246	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	190.5	4.0E	255.6	2.0E	297.7
247	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	190.5	4.0E	249.1	2.0E	299.7
248	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	190.7	4.0E	243.0	2.0E	301.8
249	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	192.8	4.0E	237.4	2.0E	303.8
250	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	195.1	4.0E	232.1	2.0E	306.1
251	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	197.6	4.0E	226.8	2.0E	308.0
252	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	204.4	4.0E	219.8	2.0E	310.0
253	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	312.1	4.0E	370.0		
254	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	314.3	4.0E	370.0		
255	281.6	1.5M	1.9	3.0M	8.0	1.5M	80.0	2.0M	105.1	2.0E	316.6	4.0E	370.0		
256	281.6	4.0E	73.2	2.0E	319.1	4.0E	370.0								
257	281.6	4.0E	74.8	2.0E	321.7	4.0E	370.0								
258	281.6	4.0E	76.4	2.0E	324.4	4.0E	370.0								
259	281.6	4.0E	78.2	2.0E	327.7	4.0E	370.0								



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
260	281.6	5.0M	6.9	1.5M	27.5	4.0E	80.1	2.0E	331.4	4.0E	370.0						
261	281.6	5.0M	6.9	1.5M	27.5	4.0E	82.2	2.0E	335.2	4.0E	370.0						
262	281.6	5.0M	6.9	1.5M	27.5	4.0E	86.4	2.0E	339.2	4.0E	370.0						
263	281.6	5.0M	6.9	1.5M	27.5	4.0E	91.4	2.0E	343.4	4.0E	370.0						
264	281.6	5.0M	6.9	1.5M	27.5	4.0E	99.3	2.0E	347.8	4.0E	370.0						
265	281.6	5.0M	6.9	1.5M	27.5	4.0E	115.1	2.0E	352.4	4.0E	370.0						
266	281.6	5.0M	6.9	1.5M	27.5	4.0E	123.8	2.0E	357.4	4.0E	367.6	8.0E	370.0				
267	281.6	5.0M	6.9	1.5M	27.5	4.0E	132.9	2.0E	362.6	4.0E	363.1	8.0E	370.0				
268	281.6	5.0M	6.9	1.5M	27.5	4.0E	141.8	2.0E	359.5	8.0E	370.0						
269	281.6	5.0M	6.9	1.5M	27.5	4.0E	151.8	2.0E	356.6	8.0E	370.0						
270	281.6	5.0M	6.9	1.5M	27.5	4.0E	163.0	2.0E	353.9	8.0E	370.0						
271	281.6	5.0M	6.9	1.5M	27.5	4.0E	172.4	2.0E	351.6	8.0E	370.0						
272	281.6	5.0M	6.9	1.5M	27.5	4.0E	182.8	2.0E	349.5	8.0E	370.0						
273	281.6	5.0M	6.9	1.5M	27.5	4.0E	195.5	2.0E	347.8	8.0E	370.0						
274	281.6	5.0M	6.9	1.5M	27.5	4.0E	212.4	2.0E	346.3	8.0E	370.0						
275	281.6	5.0M	6.9	1.5M	27.5	4.0E	230.1	2.0E	345.2	8.0E	370.0						
276	281.6	5.0M	6.9	1.5M	27.5	4.0E	249.0	2.0E	344.1	8.0E	370.0						
277	281.6	5.0M	6.9	1.5M	27.5	4.0E	265.4	2.0E	341.2	8.0E	370.0						
278	281.6	5.0M	6.9	1.5M	27.5	4.0E	282.3	2.0E	337.3	4.0E	367.1	8.0E	370.0				
279	281.6	5.0M	6.9	1.5M	27.5	4.0E	300.6	2.0E	330.6	4.0E	370.0						
280	281.6	5.0M	6.9	1.5M	27.5	4.0E	370.0										
281	281.6	4.0E	370.0														
282	281.6	4.0E	370.0														
283	281.6	4.0E	370.0														
284	281.6	4.0E	370.0														
285	281.6	4.0E	367.6	8.0E	370.0												
286	281.6	4.0E	362.6	8.0E	370.0												
287	281.6	4.0E	354.5	8.0E	370.0												
288	281.6	4.0E	321.2	8.0E	370.0												
289	281.6	4.0E	316.7	8.0E	370.0												
290	281.6	4.0E	312.9	8.0E	365.8	10.0E	370.0										
291	281.6	4.0E	310.1	8.0E	359.4	10.0E	370.0										
292	281.6	4.0E	307.4	8.0E	353.3	10.0E	370.0										
293	281.6	4.0E	304.8	8.0E	347.5	10.0E	370.0										
294	281.6	4.0E	302.4	8.0E	342.0	10.0E	370.0										
295	281.6	4.0E	300.1	8.0E	337.3	10.0E	370.0										
296	281.6	4.0E	297.7	8.0E	334.1	10.0E	370.0										
297	281.6	4.0E	295.3	8.0E	331.0	10.0E	369.3	8.0E	370.0								
298	281.6	1.5M	130.4	4.0E	292.9	8.0E	328.0	10.0E	354.9	8.0E	370.0						
299	281.6	1.5M	130.4	4.0E	290.6	8.0E	323.6	10.0E	349.7	8.0E	370.0						
300	281.6	1.5M	130.4	4.0E	288.9	8.0E	319.6	10.0E	336.5	8.0E	370.0						
301	281.6	1.5M	130.4	4.0E	287.6	8.0E	315.8	10.0E	323.6	8.0E	370.0						
302	281.6	1.5M	130.4	4.0E	286.6	8.0E	313.8	10.0E	317.7	8.0E	370.0						
303	281.6	1.5M	130.4	4.0E	285.7	8.0E	314.6	8.0E	370.0								
304	281.6	1.5M	130.4	4.0E	284.2	8.0E	328.6	8.0E	364.8	15.0E	370.0						
305	281.6	1.5M	130.4	4.0E	280.7	8.0E	332.2	8.0E	357.9	15.0E	370.0						
306	281.6	1.5M	130.4	4.0E	274.6	8.0E	338.4	8.0E	354.4	15.0E	370.0						
307	281.6	1.5M	130.4	4.0E	260.6	8.0E	343.4	8.0E	350.8	15.0E	370.0						
308	281.6	1.5M	130.4	4.0E	235.8	8.0E	351.3	15.0E	370.0								
309	281.6	1.5M	130.4	4.0E	224.8	8.0E	365.6	15.0E	370.0								
310	281.6	1.5M	130.4	4.0E	221.9	8.0E	362.7	15.0E	370.0								
311	281.6	1.5M	130.4	4.0E	221.1	8.0E	359.5	15.0E	370.0								
312	281.6	1.5M	130.4	4.0E	221.1	8.0E	356.6	15.0E	370.0								
313	281.6	1.5M	130.4	4.0E	221.6	8.0E	352.8	15.0E	370.0								
314	281.6	1.5M	130.4	4.0E	223.4	8.0E	348.4	15.0E	370.0								
315	281.6	1.5M	130.4	4.0E	225.1	8.0E	344.4	15.0E	370.0								
316	281.6	1.5M	130.4	4.0E	227.1	8.0E	340.5	15.0E	370.0								
317	281.6	1.5M	130.4	4.0E	230.0	8.0E	335.7	15.0E	370.0								
318	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	233.4	8.0E	330.9	15.0E	370.0		
319	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	237.1	8.0E	326.2	15.0E	368.7	8.0E	370.0
320	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	240.8	8.0E	321.7	15.0E	364.7	8.0E	370.0
321	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	244.8	8.0E	316.7	15.0E	360.8	8.0E	370.0
322	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	248.6	8.0E	311.9	15.0E	357.1	8.0E	370.0
323	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	252.3	8.0E	307.4	15.0E	353.9	8.0E	370.0
324	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	255.2	8.0E	302.9	15.0E	350.8	8.0E	370.0
325	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	254.0	8.0E	298.7	15.0E	347.5	8.0E	370.0
326	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	252.8	8.0E	294.8	15.0E	343.4	8.0E	370.0
327	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	250.7	8.0E	291.1	15.0E	339.9	5.0E	361.0
328	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	247.8	8.0E	287.9	15.0E	337.5	5.0E	370.0
329	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	245.6	8.0E	284.9	15.0E	335.7	5.0E	370.0
330	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	243.3	8.0E	282.0	15.0E	334.3	5.0E	370.0
331	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	241.1	8.0E	279.1	15.0E	332.5	5.0E	370.0
332	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	237.2	8.0E	276.5	15.0E	323.5	5.0E	370.0
333	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	229.5	8.0E	273.9	15.0E	315.6	5.0E	370.0
334	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	233.4	8.0E	271.5	15.0E	313.2	5.0E	370.0
335	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	233.5	8.0E	269.2	15.0E	303.5	5.0E	307.2
336	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	231.9	8.0E	267.2	15.0E	297.2	5.0E	370.0
337	281.6	1.0M	1.0	4.0M	5.0	2.0M	55.0	1.5M	140.3	4.0E	230.9	8.0E	265.1	15.0E	296.8	5.0E	370.0
338	281.6	3.0M	22.0	2.0M	119.6	4.0E	231.6	8.0E	263.3	15.0E	296.9	5.0E	370.0				
339	281.6	3.0M	22.0	2.0M	119.6	4.0E	232.6	8.0E	261.4	15.0E	297.4	5.0E	301.1	15.0E	304.5	5.0E	370.0
340	281.6	3.0M	22.0	2.0M	119.6	4.0E	234.6	8.0E	263.3	15.0E	298.1	5.0E	300.0	15.0E	308.2	5.0E	370.0
341	281.6	3.0M	22.0	2.0M	119.6	4.0E	236.7	8.0E	267.2	15.0E	309.3	5.0E	370.0				
342	281.6	3.0M	22.0	2.0M	119.6	4.0E	238.3	8.0E	271.2	15.0E	311.6	5.0E	370.0				
343	281.6	3.0M	22.0	2.0M	119.6												

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
344	281.6	3.0M	22.0	2.0M	119.6	4.0E	240.6	8.0E	280.0	15.0E	312.5	4.0E	338.6	5.0E	370.0		
345	281.6	3.0M	22.0	2.0M	119.6	4.0E	241.9	8.0E	284.9	15.0E	313.5	4.0E	350.5	5.0E	370.0		
346	281.6	3.0M	22.0	2.0M	119.6	4.0E	241.7	8.0E	289.8	15.0E	317.5	4.0E	362.4	5.0E	370.0		
347	281.6	3.0M	22.0	2.0M	119.6	4.0E	240.0	8.0E	295.2	15.0E	320.1	4.0E	370.0				
348	281.6	3.0M	22.0	2.0M	119.6	4.0E	240.4	8.0E	300.6	15.0E	319.8	4.0E	370.0				
349	281.6	3.0M	22.0	2.0M	119.6	4.0E	243.0	8.0E	305.0	15.0E	319.6	4.0E	370.0				
350	281.6	3.0M	22.0	2.0M	119.6	4.0E	255.4	8.0E	271.3	4.0E	278.3	8.0E	299.3	4.0E	310.1	15.0E	319.6
		4.0E	370.0														
351	281.6	3.0M	22.0	2.0M	119.6	4.0E	276.3	8.0E	291.6	4.0E	292.7	8.0E	297.7	4.0E	313.0	15.0E	319.9
		4.0E	370.0														
352	281.6	3.0M	22.0	2.0M	119.6	4.0E	283.1	8.0E	286.5	4.0E	291.0	8.0E	298.7	4.0E	313.7	15.0E	320.7
		4.0E	370.0														
353	281.6	3.0M	22.0	2.0M	119.6	4.0E	285.5	8.0E	289.0	4.0E	321.9	4.0E	370.0				
354	281.6	3.0M	22.0	2.0M	119.6	4.0E	324.3	4.0E	370.0								
355	281.6	3.0M	22.0	2.0M	119.6	4.0E	326.9	4.0E	370.0								
356	281.6	3.0M	22.0	2.0M	119.6	4.0E	328.5	4.0E	370.0								
357	281.6	3.0M	22.0	2.0M	119.6	4.0E	329.4	4.0E	370.0								
358	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	338.3	4.0E	370.0				
359	281.6	4.0M	8.0	2.0M	29.9	2.0M	60.0	1.5M	111.8	4.0E	346.7	4.0E	370.0				



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az	Region mV/m@1km	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist	Region Cond	Region Dist
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Radio Station WPRO - 630 kHz, Providence, Rhode Island

Source(s) of Measured Data:

FCC File No. BMP19990713AG, WEJL Application for Construction Permit

Coordinates: N 41 46 28 W 71 19 23

0	305.8	2.0M	32.7	2.0E	89.2	1.0E	296.9	0.5E	370.0						
1	305.8	2.0M	32.7	2.0E	90.1	1.0E	304.0	0.5E	370.0						
2	305.8	2.0M	32.7	2.0E	91.1	1.0E	202.1	2.0E	239.3	1.0E	311.6	0.5E	370.0		
3	305.8	2.0E	92.4	1.0E	194.1	2.0E	251.5	1.0E	321.2	0.5E	370.0				
4	305.8	2.0E	94.1	1.0E	186.7	2.0E	261.0	1.0E	337.0	0.5E	370.0				
5	305.8	2.0E	96.1	1.0E	179.8	2.0E	268.9	1.0E	370.0						
6	305.8	2.0E	98.2	1.0E	173.5	2.0E	276.0	1.0E	370.0						
7	305.8	2.0E	100.3	1.0E	166.6	2.0E	283.6	1.0E	370.0						
8	305.8	2.0E	104.0	1.0E	160.0	2.0E	290.6	1.0E	370.0						
9	305.8	2.0E	109.9	1.0E	151.9	2.0E	296.9	1.0E	370.0						
10	305.8	2.0E	132.9	1.0E	137.1	2.0E	303.5	1.0E	370.0						
11	305.8	2.0E	310.1	1.0E	370.0										
12	305.8	2.0E	315.8	1.0E	370.0										
13	305.8	2.0E	148.1	5kE	152.7	2.0E	321.9	1.0E	370.0						
14	305.8	2.0E	147.9	5kE	157.4	2.0E	328.1	1.0E	370.0						
15	305.8	2.0E	148.1	5kE	158.7	2.0E	333.9	1.0E	370.0						
16	305.8	2.0E	153.2	5kE	155.9	2.0E	339.6	1.0E	370.0						
17	305.8	2.0E	152.6	5kE	155.0	2.0E	345.5	1.0E	370.0						
18	305.8	2.0E	121.3	5kE	122.6	2.0E	152.1	5kE	154.2	2.0E	351.8	1.0E	370.0		
19	305.8	2.0E	119.9	5kE	147.1	2.0E	151.6	5kE	154.3	2.0E	358.2	1.0E	370.0		
20	305.8	2.0E	67.8	5kE	68.1	2.0E	118.1	5kE	154.7	2.0E	176.9	5kE	187.0	2.0E	365.0
21	305.8	2.0E	64.2	5kE	68.9	2.0E	74.8	5kE	76.4	2.0E	115.2	5kE	189.9	2.0E	370.0
22	305.8	2.0E	63.4	5kE	69.7	2.0E	73.7	5kE	78.9	2.0E	90.9	5kE	92.1	2.0E	112.5
		2.0E	204.5	5kE	213.6	2.0E	231.7	5kE	236.6	2.0E	370.0				
23	305.8	2.0E	62.8	5kE	70.5	2.0E	72.4	5kE	81.1	2.0E	90.4	5kE	93.0	2.0E	110.2
		2.0E	227.1	5kE	247.8	2.0E	370.0								
24	305.8	2.0E	62.1	5kE	83.2	2.0E	90.0	5kE	94.0	2.0E	109.1	5kE	219.7	2.0E	222.6
		2.0E	370.0												
25	305.8	2.0E	61.6	5kE	85.5	2.0E	89.5	5kE	95.1	2.0E	108.0	5kE	256.2	2.0E	266.0
		2.0E	370.0												
26	305.8	2.0E	61.0	5kE	87.9	2.0E	89.2	5kE	96.6	2.0E	108.5	5kE	259.7	2.0E	270.7
		2.0E	370.0												
27	305.8	2.0E	60.5	5kE	98.5	2.0E	109.4	5kE	256.5	2.0E	265.7	5kE	271.0	2.0E	370.0
28	305.8	2.0E	60.0	5kE	100.7	2.0E	110.2	5kE	250.6	2.0E	257.8	5kE	282.8	2.0E	370.0
29	305.8	2.0E	59.5	5kE	102.8	2.0E	106.9	5kE	249.4	2.0E	250.6	5kE	272.0	2.0E	370.0
30	305.8	2.0E	60.2	5kE	269.6	2.0E	274.6	5kE	281.5	2.0E	370.0				
31	305.8	2.0E	61.2	5kE	275.0	2.0E	370.0								
32	305.8	2.0E	62.4	5kE	272.6	2.0E	273.4	5kE	296.9	2.0E	347.8	5kE	350.8	2.0E	370.0
33	305.8	2.0E	63.6	5kE	296.8	2.0E	342.8	5kE	360.2	2.0E	361.8	5kE	370.0		
34	305.8	2.0E	64.9	5kE	296.1	2.0E	317.4	5kE	357.4	2.0E	370.0				
35	305.8	2.0E	65.8	5kE	348.9	2.0E	370.0								
36	305.8	2.0E	66.3	5kE	352.1	2.0E	370.0								
37	305.8	2.0E	66.8	5kE	352.9	2.0E	361.8	5kE	370.0						
38	305.8	2.0E	67.3	5kE	353.7	2.0E	356.3	5kE	370.0						
39	305.8	2.0E	67.8	5kE	370.0										
40	305.8	2.0E	68.2	5kE	370.0										
41	305.8	3.0M	8.9	1.0M	32.0	2.0E	68.9	5kE	370.0						
42	305.8	3.0M	8.9	1.0M	32.0	2.0E	68.7	5kE	370.0						
43	305.8	3.0M	8.9	1.0M	32.0	2.0E	68.2	5kE	370.0						
44	305.8	3.0M	8.9	1.0M	32.0	2.0E	67.9	5kE	370.0						
45	305.8	3.0M	8.9	1.0M	32.0	2.0E	67.6	5kE	370.0						
46	305.8	3.0M	8.9	1.0M	32.0	2.0E	67.3	5kE	370.0						
47	305.8	3.0M	8.9	1.0M	32.0	2.0E	66.9	5kE	370.0						
48	305.8	3.0M	8.9	1.0M	32.0	2.0E	66.6	5kE	370.0						
49	305.8	3.0M	8.9	1.0M	32.0	2.0E	66.3	5kE	370.0						
50	305.8	3.0M	8.9	1.0M	32.0	2.0E	66.1	5kE	370.0						
51	305.8	3.0M	8.9	1.0M	32.0	2.0E	65.8	5kE	370.0						
52	305.8	3.0M	8.9	1.0M	32.0	2.0E	65.7	5kE	370.0						
53	305.8	3.0M	8.9	1.0M	32.0	2.0E	65.5	5kE	370.0						
54	305.8	3.0M	8.9	1.0M	32.0	2.0E	65.3	5kE	370.0						
55	305.8	3.0M	8.9	1.0M	32.0	2.0E	65.2	5kE	370.0						
56	305.8	2.0M	9.7	1.5M	32.0	2.0E	65.0	5kE	370.0						
57	305.8	2.0M	9.7	1.5M	32.0	2.0E	65.0	5kE	370.0						
58	305.8	2.0M	9.7	1.5M	32.0	2.0E	64.9	5kE	370.0						
59	305.8	2.0M	9.7	1.5M	32.0	2.0E	64.9	5kE	370.0						
60	305.8	2.0M	9.7	1.5M	32.0	2.0E	64.9	5kE	370.0						
61	305.8	2.0M	9.7	1.5M	32.0	2.0E	63.9	5kE	370.0						
62	305.8	2.0M	9.7	1.5M	32.0	2.0E	62.1	5kE	370.0						
63	305.8	2.0M	9.7	1.5M	32.0	2.0E	60.7	5kE	370.0						
64	305.8	2.0M	9.7	1.5M	32.0	2.0E	59.2	5kE	370.0						
65	305.8	2.0M	9.7	1.5M	32.0	2.0E	57.9	5kE	370.0						
66	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	58.1	5kE	370.0				
67	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	58.9	5kE	370.0				
68	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	59.5	5kE	370.0				
69	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	60.4	5kE	95.8	2.0E	96.4	5kE	370.0
70	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	61.2	5kE	95.4	2.0E	100.7	5kE	370.0
71	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	62.1	5kE	95.1	2.0E	103.0	5kE	370.0



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

011121
Exhibit 14F29

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
72	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	62.9	5kE	94.8	2.0E	95.9	5kE	101.7	2.0E	105.6
73	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	63.9	5kE	103.5	2.0E	106.5	5kE	370.0		
74	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	65.0	5kE	105.1	2.0E	107.3	5kE	370.0		
75	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	66.0	5kE	104.8	2.0E	108.0	5kE	370.0		
76	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	66.8	5kE	104.6	2.0E	108.8	5kE	370.0		
77	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	66.5	5kE	104.4	2.0E	109.6	5kE	370.0		
78	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	66.1	5kE	104.3	2.0E	110.6	5kE	370.0		
79	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	66.0	5kE	104.1	2.0E	111.4	5kE	370.0		
80	305.8	2.0M	11.3	1.5M	10.9	1.0M	32.0	2.0E	65.8	5kE	104.1	2.0E	111.7	5kE	370.0		
81	305.8	2.0E	65.7	5kE	104.0	2.0E	105.3	5kE	108.5	2.0E	111.8	5kE	370.0				
82	305.8	2.0E	65.5	5kE	108.5	2.0E	112.2	5kE	370.0								
83	305.8	2.0E	65.3	5kE	108.5	2.0E	112.5	5kE	370.0								
84	305.8	2.0E	65.2	5kE	108.6	2.0E	112.8	5kE	370.0								
85	305.8	2.0E	65.0	5kE	108.8	2.0E	113.3	5kE	370.0								
86	305.8	2.0E	65.0	5kE	109.0	2.0E	113.8	5kE	370.0								
87	305.8	2.0E	66.0	5kE	108.3	2.0E	114.1	5kE	370.0								
88	305.8	2.0E	67.3	5kE	107.3	2.0E	114.4	5kE	370.0								
89	305.8	2.0E	68.6	5kE	106.5	2.0E	114.7	5kE	370.0								
90	305.8	2.0E	70.0	5kE	101.4	2.0E	115.1	5kE	370.0								
91	305.8	2.0E	71.6	5kE	95.4	2.0E	111.8	5kE	370.0								
92	305.8	2.0E	80.1	5kE	91.6	2.0E	111.4	5kE	370.0								
93	305.8	2.0E	85.0	5kE	88.5	2.0E	110.9	5kE	370.0								
94	305.8	2.0E	52.1	5kE	57.6	2.0E	112.7	5kE	370.0								
95	305.8	2.0E	48.3	5kE	57.6	2.0E	113.9	5kE	370.0								
96	305.8	2.0E	49.2	5kE	57.6	2.0E	107.7	5kE	370.0								
97	305.8	2.0E	50.4	5kE	57.6	2.0E	102.8	5kE	370.0								
98	305.8	2.0E	51.2	5kE	57.6	2.0E	98.5	5kE	370.0								
99	305.8	2.0E	50.7	5kE	57.6	2.0E	94.6	5kE	370.0								
100	305.8	2.0E	50.4	5kE	57.8	2.0E	87.4	5kE	370.0								
101	305.8	2.0E	49.9	5kE	57.8	2.0E	77.1	5kE	370.0								
102	305.8	3.0M	19.3	1.5M	29.8	2.0E	49.6	5kE	57.9	2.0E	76.4	5kE	370.0				
103	305.8	3.0M	19.3	1.5M	29.8	2.0E	49.1	5kE	57.9	2.0E	76.0	5kE	370.0				
104	305.8	3.0M	19.3	1.5M	29.8	2.0E	48.8	5kE	58.1	2.0E	75.3	5kE	370.0				
105	305.8	3.0M	19.3	1.5M	29.8	2.0E	48.4	5kE	58.3	2.0E	74.8	5kE	370.0				
106	305.8	3.0M	19.3	1.5M	29.8	2.0E	48.1	5kE	58.4	2.0E	74.4	5kE	370.0				
107	305.8	3.0M	19.3	1.5M	29.8	2.0E	47.8	5kE	58.7	2.0E	73.9	5kE	370.0				
108	305.8	3.0M	19.3	1.5M	29.8	2.0E	47.5	5kE	58.9	2.0E	72.9	5kE	370.0				
109	305.8	3.0M	19.3	1.5M	29.8	2.0E	47.3	5kE	59.1	2.0E	71.0	5kE	370.0				
110	305.8	3.0M	19.3	1.5M	29.8	2.0E	46.7	5kE	59.4	2.0E	69.2	5kE	370.0				
111	305.8	3.0M	19.3	1.5M	29.8	2.0E	45.4	5kE	59.7	2.0E	67.4	5kE	370.0				
112	305.8	3.0M	19.3	1.5M	29.8	2.0E	44.3	5kE	60.0	2.0E	65.8	5kE	370.0				
113	305.8	3.0M	19.3	1.5M	29.8	2.0E	43.1	5kE	60.4	2.0E	64.7	5kE	370.0				
114	305.8	3.0M	19.3	1.5M	29.8	2.0E	42.0	5kE	60.7	2.0E	63.6	5kE	370.0				
115	305.8	3.0M	19.3	1.5M	29.8	2.0E	41.0	5kE	61.0	2.0E	62.4	5kE	370.0				
116	305.8	3.0M	19.3	1.5M	29.8	2.0E	40.1	5kE	61.3	2.0E	61.5	5kE	370.0				
117	305.8	3.0M	19.3	1.5M	29.8	2.0E	39.1	5kE	370.0								
118	305.8	3.0M	19.3	1.5M	29.8	2.0E	38.3	5kE	370.0								
119	305.8	3.0M	19.3	1.5M	29.8	2.0E	37.5	5kE	370.0								
120	305.8	3.0M	19.3	1.5M	29.8	2.0E	37.7	5kE	370.0								
121	305.8	3.0M	19.3	1.5M	29.8	2.0E	38.0	5kE	370.0								
122	305.8	3.0M	19.3	1.5M	29.8	2.0E	38.3	5kE	370.0								
123	305.8	2.0E	9.5	5kE	14.0	2.0E	38.6	5kE	370.0								
124	305.8	2.0E	9.7	5kE	14.0	2.0E	38.9	5kE	370.0								
125	305.8	2.0E	9.7	5kE	14.0	2.0E	39.4	5kE	370.0								
126	305.8	2.0E	9.7	5kE	14.0	2.0E	39.8	5kE	370.0								
127	305.8	2.0E	9.8	5kE	14.0	2.0E	40.2	5kE	370.0								
128	305.8	2.0E	9.8	5kE	14.2	2.0E	40.7	5kE	370.0								
129	305.8	2.0E	9.8	5kE	14.2	2.0E	41.2	5kE	370.0								
130	305.8	2.0E	10.0	5kE	14.2	2.0E	41.7	5kE	370.0								
131	305.8	2.0E	10.0	5kE	14.2	2.0E	41.5	5kE	370.0								
132	305.8	2.0E	10.0	5kE	14.3	2.0E	41.0	5kE	370.0								
133	305.8	2.0E	10.1	5kE	14.3	2.0E	40.6	5kE	370.0								
134	305.8	2.0E	10.1	5kE	14.3	2.0E	30.3	5kE	30.6	2.0E	40.2	5kE	370.0				
135	305.8	2.0E	10.3	5kE	14.5	2.0E	30.4	5kE	31.4	2.0E	39.8	5kE	370.0				
136	305.8	2.0E	10.3	5kE	14.5	2.0E	30.7	5kE	32.2	2.0E	39.4	5kE	370.0				
137	305.8	2.0E	10.5	5kE	14.6	2.0E	31.1	5kE	33.2	2.0E	38.9	5kE	370.0				
138	305.8	3.0M	16.1	1.5M	33.3	5kE	34.1	2.0E	38.6	5kE	370.0						
139	305.8	3.0M	16.1	1.5M	33.3	5kE	35.1	2.0E	38.3	5kE	370.0						
140	305.8	3.0M	16.1	1.5M	33.3	5kE	36.2	2.0E	38.0	5kE	370.0						
141	305.8	3.0M	16.1	1.5M	33.3	5kE	37.3	2.0E	37.7	5kE	370.0						
142	305.8	3.0M	16.1	1.5M	33.3	5kE	370.0										
143	305.8	3.0M	16.1	1.5M	33.3	2.0E	33.5	5kE	370.0								
144	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.0	5kE	370.0								
145	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.4	5kE	370.0								
146	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.9	5kE	370.0								
147	305.8	3.0M	16.1	1.5M	33.3	2.0E	35.1	5kE	370.0								
148	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.9	5kE	370.0								
149	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.9	5kE	370.0								
150	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.8	5kE	370.0								
151	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.6	5kE	370.0								
152	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.6	5kE	370.0								
153	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.4	5kE	370.0								
154	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.4	5kE	370.0								
155	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.4	5kE	370.0								
156	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.3	5kE	370.0								



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Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
157	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.3	5kE	370.0								
158	305.8	3.0M	16.1	1.5M	33.3	2.0E	34.3	5kE	370.0								
159	305.8	2.0E	13.5	5kE	27.8	2.0E	34.3	5kE	370.0								
160	305.8	2.0E	7.4	5kE	7.9	2.0E	13.4	5kE	29.3	2.0E	34.3	5kE	370.0				
161	305.8	2.0E	7.2	5kE	8.0	2.0E	13.0	5kE	31.1	2.0E	34.3	5kE	370.0				
162	305.8	2.0E	7.1	5kE	8.4	2.0E	12.9	5kE	33.0	2.0E	34.3	5kE	370.0				
163	305.8	2.0E	6.9	5kE	8.7	2.0E	12.7	5kE	370.0								
164	305.8	2.0E	6.8	5kE	9.0	2.0E	12.6	5kE	370.0								
165	305.8	2.0E	6.6	5kE	9.3	2.0E	12.4	5kE	370.0								
166	305.8	2.0E	6.4	5kE	9.7	2.0E	12.4	5kE	370.0								
167	305.8	2.0E	6.3	5kE	10.0	2.0E	12.2	5kE	370.0								
168	305.8	2.0E	6.1	5kE	10.5	2.0E	12.1	5kE	370.0								
169	305.8	2.0E	6.0	5kE	10.9	2.0E	11.9	5kE	370.0								
170	305.8	2.0E	5.8	5kE	11.4	2.0E	11.9	5kE	370.0								
171	305.8	2.0E	5.8	5kE	370.0												
172	305.8	2.0E	5.6	5kE	370.0												
173	305.8	2.0E	5.5	5kE	370.0												
174	305.8	2.0E	5.5	5kE	370.0												
175	305.8	2.0E	5.3	5kE	370.0												
176	305.8	2.0E	5.3	5kE	370.0												
177	305.8	2.0E	5.1	5kE	370.0												
178	305.8	2.0E	5.1	5kE	370.0												
179	305.8	2.0E	5.0	5kE	370.0												
180	305.8	2.0E	5.0	5kE	370.0												
181	305.8	2.0E	4.8	5kE	370.0												
182	305.8	2.0E	4.8	5kE	370.0												
183	305.8	2.0E	4.8	5kE	370.0												
184	305.8	2.0E	4.7	5kE	370.0												
185	305.8	2.0E	4.7	5kE	370.0												
186	305.8	2.0E	4.7	5kE	370.0												
187	305.8	2.0E	4.5	5kE	370.0												
188	305.8	2.0E	4.5	5kE	370.0												
189	305.8	2.0E	4.5	5kE	370.0												
190	305.8	2.0E	4.3	5kE	370.0												
191	305.8	2.0E	4.3	5kE	370.0												
192	305.8	2.0E	4.3	5kE	31.1	2.0E	31.4	5kE	370.0								
193	305.8	2.0E	4.3	5kE	30.3	2.0E	33.3	5kE	370.0								
194	305.8	2.0E	4.2	5kE	29.6	2.0E	35.4	5kE	370.0								
195	305.8	2.0E	4.2	5kE	28.8	2.0E	37.8	5kE	370.0								
196	305.8	2.0E	4.2	5kE	28.3	2.0E	40.6	5kE	370.0								
197	305.8	2.0E	4.2	5kE	27.7	2.0E	43.8	5kE	370.0								
198	305.8	2.0E	4.2	5kE	27.0	2.0E	45.1	5kE	370.0								
199	305.8	2.0E	4.2	5kE	26.6	2.0E	42.8	5kE	370.0								
200	305.8	2.0E	4.0	5kE	21.2	2.0E	21.7	5kE	26.1	2.0E	40.7	5kE	370.0				
201	305.8	2.0E	4.0	5kE	10.9	2.0E	11.3	5kE	20.6	2.0E	21.9	5kE	25.6	2.0E	40.9	5kE	370.0
202	305.8	2.0E	3.9	5kE	10.5	2.0E	11.3	5kE	20.1	2.0E	22.0	5kE	25.1	2.0E	43.5	5kE	370.0
203	305.8	2.0E	3.9	5kE	10.1	2.0E	11.3	5kE	19.5	2.0E	22.2	5kE	24.6	2.0E	46.5	5kE	370.0
204	305.8	2.0E	3.9	5kE	9.8	2.0E	11.3	5kE	19.0	2.0E	22.4	5kE	24.3	2.0E	48.1	5kE	370.0
205	305.8	2.0E	3.7	5kE	9.5	2.0E	11.4	5kE	18.5	2.0E	22.5	5kE	23.8	2.0E	48.8	5kE	370.0
206	305.8	2.0E	3.7	5kE	9.2	2.0E	11.4	5kE	18.0	2.0E	22.9	5kE	23.5	2.0E	49.6	5kE	370.0
207	305.8	4.0M	19.3	2.0M	32.8	2.0E	50.4	5kE	370.0								
208	305.8	4.0M	19.3	2.0M	32.8	2.0E	51.2	5kE	370.0								
209	305.8	4.0M	19.3	2.0M	32.8	2.0E	52.0	5kE	370.0								
210	305.8	4.0M	19.3	2.0M	32.8	2.0E	52.8	5kE	370.0								
211	305.8	4.0M	19.3	2.0M	32.8	2.0E	53.8	5kE	89.8	0.5E	91.6	5kE	370.0				
212	305.8	4.0M	19.3	2.0M	32.8	2.0E	54.7	5kE	90.8	0.5E	95.0	5kE	370.0				
213	305.8	4.0M	19.3	2.0M	32.8	2.0E	55.8	5kE	91.7	0.5E	98.7	5kE	370.0				
214	305.8	4.0M	19.3	2.0M	32.8	2.0E	57.0	5kE	93.2	0.5E	102.7	5kE	370.0				
215	305.8	4.0M	19.3	2.0M	32.8	2.0E	58.1	5kE	97.7	0.5E	107.2	5kE	370.0				
216	305.8	4.0M	19.3	2.0M	32.8	2.0E	59.4	5kE	102.5	0.5E	110.2	5kE	370.0				
217	305.8	4.0M	19.3	2.0M	32.8	2.0E	61.0	5kE	107.2	0.5E	113.5	5kE	370.0				
218	305.8	4.0M	19.3	2.0M	32.8	2.0E	63.2	5kE	106.9	0.5E	116.8	5kE	370.0				
219	305.8	4.0M	19.3	2.0M	32.8	2.0E	65.7	5kE	106.5	0.5E	120.5	5kE	370.0				
220	305.8	4.0M	19.3	2.0M	32.8	2.0E	66.9	5kE	106.4	0.5E	124.4	5kE	370.0				
221	305.8	4.0M	19.3	2.0M	32.8	2.0E	67.3	5kE	107.3	0.5E	128.7	5kE	370.0				
222	305.8	4.0M	19.3	2.0M	32.8	2.0E	67.8	5kE	108.6	0.5E	133.3	5kE	370.0				
223	305.8	4.0M	19.3	2.0M	32.8	2.0E	68.2	5kE	109.9	0.5E	113.9	5kE	115.6	0.5E	136.3	5kE	370.0
224	305.8	4.0M	19.3	2.0M	32.8	2.0E	68.9	5kE	111.4	0.5E	111.8	5kE	117.5	0.5E	137.9	5kE	143.2
		0.5E	146.9	5kE	370.0												
225	305.8	4.0M	19.3	2.0M	32.8	2.0E	69.4	5kE	119.4	0.5E	130.8	5kE	134.4	0.5E	139.7	5kE	139.9
		0.5E	150.5	5kE	370.0												
226	305.8	4.0M	19.3	2.0M	32.8	2.0E	70.0	5kE	140.0	0.5E	154.0	5kE	353.3	4.0E	354.5	5kE	364.8
		4.0E	366.1	5kE	370.0												
227	305.8	4.0M	19.3	2.0M	32.8	2.0E	70.5	5kE	141.3	0.5E	158.4	5kE	331.4	4.0E	356.1	5kE	359.2
		4.0E	370.0														
228	305.8	3.0M	13.7	2.0M	33.8	2.0E	71.1	5kE	142.6	0.5E	163.3	5kE	326.2	4.0E	370.0		
229	305.8	3.0M	13.7	2.0M	33.8	2.0E	71.9	5kE	73.4	2.0E	76.3	5kE	101.9	0.5E	109.6	5kE	120.1
		0.5E	136.2	5kE	144.0	0.5E	168.7	5kE	314.6	4.0E	370.0						
230	305.8	3.0M	13.7	2.0M	33.8	2.0E	77.4	5kE	105.4	0.5E	174.6	5kE	308.0	4.0E	370.0		
231	305.8	3.0M	13.7	2.0M	33.8	2.0E	78.5	5kE	109.4	0.5E	180.9	5kE	301.3	4.0E	370.0		
232	305.8	3.0M	13.7	2.0M	33.8	2.0E	79.2	5kE	142.4	0.5E	187.8	5kE	291.5	4.0E	301.4	5kE	301.6
		4.0E	370.0														
233	305.8	3.0M	13.7	2.0M	33.8	2.0E	78.9	5kE	81.1	2.0E	85.5	5kE	146.1	0.5E	192.8	5kE	285.5
		4.0E	370.0														
234	305.8	3.0M	13.7	2.0M	33.8	2.0E	78.4	5kE	80.1	2.0E	85.5	5kE	150.0	0.5E	198.3	5kE	279.9
		4.0E	370.0														



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Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist		Region Cond Dist	
235	305.8	3.0M	13.7	2.0M	33.8	2.0E	78.1	5kE	79.2	2.0E	85.6	5kE	154.3	0.5E	209.2	5kE	274.9
		4.0E	370.0														
236	305.8	3.0M	13.7	2.0M	33.8	2.0E	77.7	5kE	78.2	2.0E	85.8	5kE	88.7	2.0E	95.3	5kE	158.8
		0.5E	217.9	5kE	271.7	4.0E	370.0										
237	305.8	3.0M	13.7	2.0M	33.8	2.0E	85.9	5kE	88.0	2.0E	98.8	5kE	163.7	0.5E	236.3	5kE	268.8
		4.0E	370.0														
238	305.8	3.0M	13.7	2.0M	33.8	2.0E	86.1	5kE	87.5	2.0E	98.7	5kE	102.4	2.0E	103.5	5kE	167.5
		0.5E	241.6	5kE	273.7	4.0E	370.0										
239	305.8	2.0M	17.7	1.5M	27.0	2.0E	86.3	5kE	86.9	2.0E	98.7	5kE	101.7	2.0E	104.6	5kE	171.6
		0.5E	178.0	5kE	187.2	0.5E	240.8	5kE	278.3	4.0E	370.0						
240	305.8	2.0M	17.7	1.5M	27.0	2.0E	98.7	5kE	101.1	2.0E	109.1	5kE	175.6	0.5E	176.1	5kE	188.6
		0.5E	244.0	5kE	249.0	0.5E	258.0	5kE	284.0	4.0E	370.0						
241	305.8	2.0M	17.7	1.5M	27.0	2.0E	98.7	5kE	100.6	2.0E	116.2	5kE	190.7	4.0E	193.8	0.5E	259.3
		5kE	267.5	4.0E	278.1	5kE	285.2	4.0E	370.0								
242	305.8	2.0M	17.7	1.5M	27.0	2.0E	98.7	5kE	99.9	2.0E	119.3	5kE	193.8	4.0E	198.4	5kE	200.4
		4.0E	204.2	0.5E	207.0	4.0E	221.4	5kE	222.6	4.0E	242.7	0.5E	256.4	5kE	261.7	4.0E	370.0
243	305.8	2.0M	17.7	1.5M	27.0	2.0E	98.8	5kE	99.5	2.0E	122.5	5kE	202.5	4.0E	218.9	5kE	222.1
		4.0E	229.5	5kE	234.3	4.0E	238.7	5kE	238.8	4.0E	249.4	5kE	260.6	4.0E	370.0		
244	305.8	2.0M	17.7	1.5M	27.0	2.0E	99.0	5kE	99.0	2.0E	125.9	5kE	224.0	4.0E	225.5	5kE	232.6
		4.0E	235.0	5kE	246.1	4.0E	370.0										
245	305.8	2.0M	17.7	1.5M	27.0	2.0E	133.6	5kE	230.3	4.0E	370.0						
246	305.8	2.0M	17.7	1.5M	27.0	2.0E	142.4	5kE	215.2	1.0E	215.7	4.0E	370.0				
247	305.8	2.0M	17.7	1.5M	27.0	2.0E	143.4	5kE	151.3	2.0E	151.3	1.0E	168.3	5kE	173.8	1.0E	180.6
		5kE	191.2	1.0E	215.2	4.0E	370.0										
248	305.8	2.0M	17.7	1.5M	27.0	2.0E	142.7	5kE	144.7	2.0E	150.5	1.0E	214.8	4.0E	274.2	2.0E	290.6
		4.0E	370.0														
249	305.8	2.0M	17.7	1.5M	27.0	2.0E	149.5	1.0E	214.7	4.0E	269.4	2.0E	297.9	4.0E	370.0		
250	305.8	2.0M	17.7	1.5M	27.0	2.0E	148.7	1.0E	214.5	4.0E	266.7	2.0E	303.8	4.0E	370.0		
251	305.8	2.0E	2.6	5kE	4.7	2.0E	148.1	1.0E	214.2	4.0E	263.9	2.0E	307.5	4.0E	370.0		
252	305.8	2.0E	2.6	5kE	4.7	2.0E	147.4	1.0E	213.7	4.0E	261.4	2.0E	311.4	4.0E	370.0		
253	305.8	3.0M	16.9	1.0M	32.0	2.0E	146.8	1.0E	213.2	4.0E	258.5	2.0E	315.3	4.0E	370.0		
254	305.8	3.0M	16.9	1.0M	32.0	2.0E	146.1	1.0E	212.6	4.0E	255.7	2.0E	318.8	4.0E	366.0	2.0E	370.0
255	305.8	3.0M	16.9	1.0M	32.0	2.0E	145.6	1.0E	212.0	4.0E	253.1	2.0E	322.7	4.0E	348.1	2.0E	370.0
256	305.8	3.0M	16.9	1.0M	32.0	2.0E	145.0	1.0E	211.5	4.0E	250.7	2.0E	370.0				
257	305.8	3.0M	16.9	1.0M	32.0	2.0E	144.7	1.0E	210.3	4.0E	250.3	2.0E	370.0				
258	305.8	3.0M	16.9	1.0M	32.0	2.0E	144.2	1.0E	209.5	4.0E	250.4	2.0E	370.0				
259	305.8	3.0M	16.9	1.0M	32.0	2.0E	143.9	1.0E	207.0	4.0E	251.9	2.0E	370.0				
260	305.8	3.0M	16.9	1.0M	32.0	2.0E	143.4	1.0E	204.5	4.0E	254.3	2.0E	346.5	4.0E	370.0		
261	305.8	3.0M	16.9	1.0M	32.0	2.0E	143.1	1.0E	201.3	4.0E	256.7	2.0E	318.2	4.0E	370.0		
262	305.8	3.0M	16.9	1.0M	32.0	2.0E	142.7	1.0E	198.4	4.0E	260.1	2.0E	299.3	4.0E	370.0		
263	305.8	3.0M	16.9	1.0M	32.0	2.0E	142.4	1.0E	195.7	4.0E	264.9	2.0E	282.3	4.0E	370.0		
264	305.8	3.0M	16.9	1.0M	32.0	2.0E	142.1	1.0E	192.8	4.0E	370.0						
265	305.8	3.0M	16.9	1.0M	32.0	2.0E	141.9	1.0E	189.6	4.0E	370.0						
266	305.8	3.0M	16.9	1.0M	32.0	2.0E	141.8	1.0E	186.5	4.0E	370.0						
267	305.8	3.0M	16.9	1.0M	32.0	2.0E	141.8	1.0E	183.6	4.0E	370.0						
268	305.8	3.0M	16.9	1.0M	32.0	2.0E	141.6	1.0E	180.9	4.0E	370.0						
269	305.8	3.0M	16.9	1.0M	32.0	2.0E	141.0	1.0E	178.3	4.0E	370.0						
270	305.8	3.0M	16.9	1.0M	32.0	2.0E	140.2	1.0E	175.9	4.0E	370.0						
271	305.8	4.0M	12.9	1.5M	34.4	2.0E	139.5	1.0E	174.0	4.0E	370.0						
272	305.8	4.0M	12.9	1.5M	34.4	2.0E	138.9	1.0E	172.7	4.0E	370.0						
273	305.8	4.0M	12.9	1.5M	34.4	2.0E	138.2	1.0E	171.4	4.0E	370.0						
274	305.8	4.0M	12.9	1.5M	34.4	2.0E	137.0	1.0E	170.3	4.0E	370.0						
275	305.8	4.0M	12.9	1.5M	34.4	2.0E	135.5	1.0E	169.1	4.0E	370.0						
276	305.8	4.0M	12.9	1.5M	34.4	2.0E	134.2	1.0E	168.2	4.0E	370.0						
277	305.8	4.0M	12.9	1.5M	34.4	2.0E	132.9	1.0E	167.2	4.0E	370.0						
278	305.8	4.0M	12.9	1.5M	34.4	2.0E	131.2	1.0E	166.2	4.0E	370.0						
279	305.8	4.0M	12.9	1.5M	34.4	2.0E	128.6	1.0E	165.4	4.0E	370.0						
280	305.8	4.0M	12.9	1.5M	34.4	2.0E	126.2	1.0E	164.6	4.0E	370.0						
281	305.8	4.0M	12.9	1.5M	34.4	2.0E	123.8	1.0E	163.8	4.0E	370.0						
282	305.8	4.0M	12.9	1.5M	34.4	2.0E	121.3	1.0E	163.2	4.0E	370.0						
283	305.8	4.0M	12.9	1.5M	34.4	2.0E	118.9	1.0E	162.5	4.0E	370.0						
284	305.8	4.0M	12.9	1.5M	34.4	2.0E	116.5	1.0E	162.1	4.0E	370.0						
285	305.8	4.0M	12.9	1.5M	34.4	2.0E	114.4	1.0E	161.6	4.0E	370.0						
286	305.8	4.0M	12.9	1.5M	34.4	2.0E	112.3	1.0E	161.1	4.0E	370.0						
287	305.8	4.0M	12.9	1.5M	34.4	2.0E	110.7	1.0E	160.6	4.0E	370.0						
288	305.8	2.0E	3.4	5kE	4.8	2.0E	109.3	1.0E	160.8	4.0E	370.0						
289	305.8	2.0E	3.4	5kE	4.8	2.0E	108.0	1.0E	160.9	4.0E	370.0						
290	305.8	2.0E	3.5	5kE	4.8	2.0E	106.9	1.0E	161.1	4.0E	370.0						
291	305.8	2.0E	3.5	5kE	4.8	2.0E	105.7	1.0E	161.4	4.0E	370.0						
292	305.8	2.0E	3.5	5kE	4.8	2.0E	104.6	1.0E	161.7	4.0E	370.0						
293	305.8	2.0E	3.7	5kE	5.0	2.0E	103.5	1.0E	162.1	4.0E	370.0						
294	305.8	2.0E	3.7	5kE	5.0	2.0E	102.5	1.0E	162.5	4.0E	370.0						
295	305.8	2.0E	3.7	5kE	5.0	2.0E	101.7	1.0E	163.0	4.0E	370.0						
296	305.8	2.0E	3.9	5kE	5.1	2.0E	101.2	1.0E	163.5	4.0E	370.0						
297	305.8	2.0E	3.9	5kE	5.1	2.0E	100.7	1.0E	164.0	4.0E	370.0						
298	305.8	2.0E	4.0	5kE	5.1	2.0E	100.3	1.0E	164.6	4.0E	370.0						
299	305.8	2.0E	4.0	5kE	5.3	2.0E	99.8	1.0E	165.3	4.0E	281.6	2.0E	287.1	4.0E	370.0		
300	305.8	2.0E	4.2	5kE	5.3	2.0E	99.3	1.0E	166.1	4.0E	270.0	2.0E	297.2	4.0E	370.0		
301	305.8	2.0E	4.2	5kE	5.3	2.0E	99.0	1.0E	166.9	4.0E	263.0	2.0E	299.5	4.0E	370.0		
302	305.8	2.0E	4.3	5kE	5.5	2.0E	98.7	1.0E	167.7	4.0E	257.8	2.0E	299.5	4.0E	370.0		
303	305.8	2.0E	4.5	5kE	5.5	2.0E	98.3	1.0E	168.7	4.0E	253.0	2.0E	298.2	4.0E	370.0		
304	305.8	2.0E	4.5	5kE	5.6	2.0E	98.0	1.0E	169.6	4.0E	248.3	2.0E	296.9	4.0E	370.0		
305	305.8	2.0E	4.7	5kE	5.6	2.0E	97.7	1.									

Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
311	305.8	2.0E	5.5	5kE	6.1	2.0E	93.7	1.0E	178.3	4.0E	212.6	2.0E	296.0	4.0E	370.0		
312	305.8	2.0E	5.8	5kE	6.3	2.0E	93.0	1.0E	179.8	4.0E	206.2	2.0E	297.1	4.0E	370.0		
313	305.8	2.0E	6.0	5kE	6.4	2.0E	92.1	1.0E	181.4	4.0E	200.2	2.0E	298.2	4.0E	370.0		
314	305.8	2.0E	6.1	5kE	6.4	2.0E	91.2	1.0E	183.1	4.0E	193.8	2.0E	299.5	4.0E	370.0		
315	305.8	2.0E	6.4	5kE	6.6	2.0E	90.4	1.0E	184.9	4.0E	184.9	2.0E	300.9	4.0E	370.0		
316	305.8	2.0E	6.6	5kE	6.8	2.0E	89.6	1.0E	186.5	2.0E	302.4	4.0E	370.0				
317	305.8	2.0E	6.9	5kE	6.9	2.0E	88.8	1.0E	188.3	2.0E	304.0	4.0E	370.0				
318	305.8	2.0E	88.2	1.0E	190.2	2.0E	305.8	4.0E	370.0								
319	305.8	2.0E	87.5	1.0E	192.2	2.0E	307.5	4.0E	370.0								
320	305.8	2.0E	86.7	1.0E	194.2	2.0E	310.1	4.0E	370.0								
321	305.8	2.0E	85.9	1.0E	196.3	2.0E	312.9	4.0E	370.0								
322	305.8	3.0M	20.1	1.5M	31.5	2.0E	85.0	1.0E	198.6	2.0E	315.9	4.0E	370.0				
323	305.8	3.0M	20.1	1.5M	31.5	2.0E	84.2	1.0E	201.0	2.0E	319.1	4.0E	370.0				
324	305.8	3.0M	20.1	1.5M	31.5	2.0E	83.4	1.0E	203.6	2.0E	322.5	4.0E	370.0				
325	305.8	3.0M	20.1	1.5M	31.5	2.0E	82.7	1.0E	206.2	2.0E	326.1	4.0E	370.0				
326	305.8	3.0M	20.1	1.5M	31.5	2.0E	81.9	1.0E	209.1	2.0E	329.8	4.0E	370.0				
327	305.8	3.0M	20.1	1.5M	31.5	2.0E	81.3	1.0E	212.0	2.0E	333.5	4.0E	370.0				
328	305.8	3.0M	20.1	1.5M	31.5	2.0E	80.6	1.0E	215.0	2.0E	337.5	4.0E	370.0				
329	305.8	3.0M	20.1	1.5M	31.5	2.0E	80.0	1.0E	218.2	2.0E	341.5	4.0E	370.0				
330	305.8	3.0M	20.1	1.5M	31.5	2.0E	79.5	1.0E	221.6	2.0E	345.4	4.0E	370.0				
331	305.8	3.0M	20.1	1.5M	31.5	2.0E	78.9	1.0E	224.8	2.0E	348.9	4.0E	370.0				
332	305.8	3.0M	20.1	1.5M	31.5	2.0E	78.4	1.0E	228.2	2.0E	352.6	4.0E	370.0				
333	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.9	1.0E	231.7	2.0E	356.5	4.0E	370.0				
334	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.6	1.0E	235.4	2.0E	360.5	4.0E	370.0				
335	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.6	1.0E	239.3	2.0E	365.6	4.0E	370.0				
336	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.7	1.0E	243.3	2.0E	370.0						
337	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.7	1.0E	247.7	2.0E	370.0						
338	305.8	3.0M	20.1	1.5M	31.5	2.0E	77.9	1.0E	254.1	2.0E	264.4	0.5E	267.0	2.0E	370.0		
339	305.8	3.0M	20.1	1.5M	31.5	2.0E	78.1	1.0E	257.0	0.5E	283.1	2.0E	370.0				
340	305.8	3.0M	20.1	1.5M	31.5	2.0E	78.2	1.0E	254.8	0.5E	293.2	2.0E	370.0				
341	305.8	3.0M	20.1	1.5M	31.5	2.0E	78.4	1.0E	252.7	0.5E	300.9	2.0E	370.0				
342	305.8	2.0M	32.7	2.0E	78.7	1.0E	252.5	0.5E	308.4	2.0E	370.0						
343	305.8	2.0M	32.7	2.0E	78.9	1.0E	252.3	0.5E	316.1	2.0E	370.0						
344	305.8	2.0M	32.7	2.0E	79.2	1.0E	252.8	0.5E	324.4	2.0E	370.0						
345	305.8	2.0M	32.7	2.0E	79.5	1.0E	254.4	0.5E	333.3	2.0E	370.0						
346	305.8	2.0M	32.7	2.0E	79.8	1.0E	256.0	0.5E	342.8	2.0E	370.0						
347	305.8	2.0M	32.7	2.0E	80.1	1.0E	257.8	0.5E	353.9	2.0E	369.5	4.0E	370.0				
348	305.8	2.0M	32.7	2.0E	80.6	1.0E	259.6	0.5E	366.8	2.0E	368.1	4.0E	370.0				
349	305.8	2.0M	32.7	2.0E	81.3	1.0E	261.7	0.5E	366.8	4.0E	370.0						
350	305.8	2.0M	32.7	2.0E	81.8	1.0E	263.6	0.5E	365.6	4.0E	370.0						
351	305.8	2.0M	32.7	2.0E	82.2	1.0E	265.9	0.5E	364.7	4.0E	370.0						
352	305.8	2.0M	32.7	2.0E	82.9	1.0E	268.1	0.5E	363.9	4.0E	370.0						
353	305.8	2.0M	32.7	2.0E	83.5	1.0E	270.7	0.5E	363.1	4.0E	370.0						
354	305.8	2.0M	32.7	2.0E	84.2	1.0E	273.1	0.5E	362.4	4.0E	370.0						
355	305.8	2.0M	32.7	2.0E	85.0	1.0E	275.8	0.5E	361.8	4.0E	370.0						
356	305.8	2.0M	32.7	2.0E	85.6	1.0E	278.7	0.5E	361.5	4.0E	370.0						
357	305.8	2.0M	32.7	2.0E	86.4	1.0E	282.4	0.5E	361.1	4.0E	370.0						
358	305.8	2.0M	32.7	2.0E	87.4	1.0E	286.9	0.5E	364.2	4.0E	370.0						
359	305.8	2.0M	32.7	2.0E	88.2	1.0E	291.8	0.5E	370.0								



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Field Strength Measurements on Station WEJL, 630 kHz, at 105°T

<u>Point</u>	<u>Distance</u>	<u>Date/Time</u>	<u>Field</u>		
1	0.18 km	c1002	1000 mV/m		
2	0.36	c1015	410		
3	0.52	c1027	290		
4	0.63	c1047	235		
5	0.78	c1058	225		
6	0.91	c1107	185		
7	1.05	c1113	125		
8	1.19	c1125	135		
9	1.32	c1141	160		
10	1.58	c1220	120		
11	1.71	c1225	74		
12	1.84	c1230	92		
13	2.12	c1250	47.0		
14	26.0	b1400	0.97		
15	30.5	b1327	0.79		
16	33.7	b1340	0.63		
17	39.5	b1303	0.57		
18	41.6	b1243	0.480		
19	47.6	b1210	0.252		
20	49.9	b1200	0.198		
21	52.5	b1140	0.269		
22	57.7	b1040	0.131		
23	62.5	b1020	0.110		
24	67.0	b0935	0.131		
25	69.9	b0915	0.093		
26	73.1	b0858	0.121		
27	75.2	b0845	0.098		
28	79.5	a1442	0.071		
29	84.1	a1400	0.062		
30	90.0	a1345	0.066		
31	93.9	a1325	0.057		
32	97.8	a1305	0.0355		
33	102	a1240	0.061		
34	113	a1137	0.0222		
35	117	a1115	0.0298		
36	120	a1055	0.0332		

<u>Dates of Measurements:</u>	
a	November 16, 2001
b	November 17, 2001
c	November 27, 2001



Certificate of Field Measurements on WEJL

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained to determine by measurement the unattenuated field strength and ground conductivity toward 105°T from Radio Station WEJL, 630 kHz, Scranton, Pennsylvania.

Results of Measurements

Station WEJL operates at 500 watts nominal power into a non-directional tower in downtown Scranton. All field strength measurements contained in this report were made by qualified Hammett & Edison, Inc. personnel under my direction. It is believed that all measurements were carefully made and are a true representation of the field strengths existing at the times and locations shown. Wherever possible, the measurements were made in clear areas removed from overhead wires, fences, and other large metallic obstructions. A Potomac Instruments field strength meter, Model FIM-41, Serial No. 723, was employed for the measurements. Graph 4 of Section 73.184 of the FCC Rules was used to determine the unattenuated radiation and ground conductivity along the radial.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2005. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



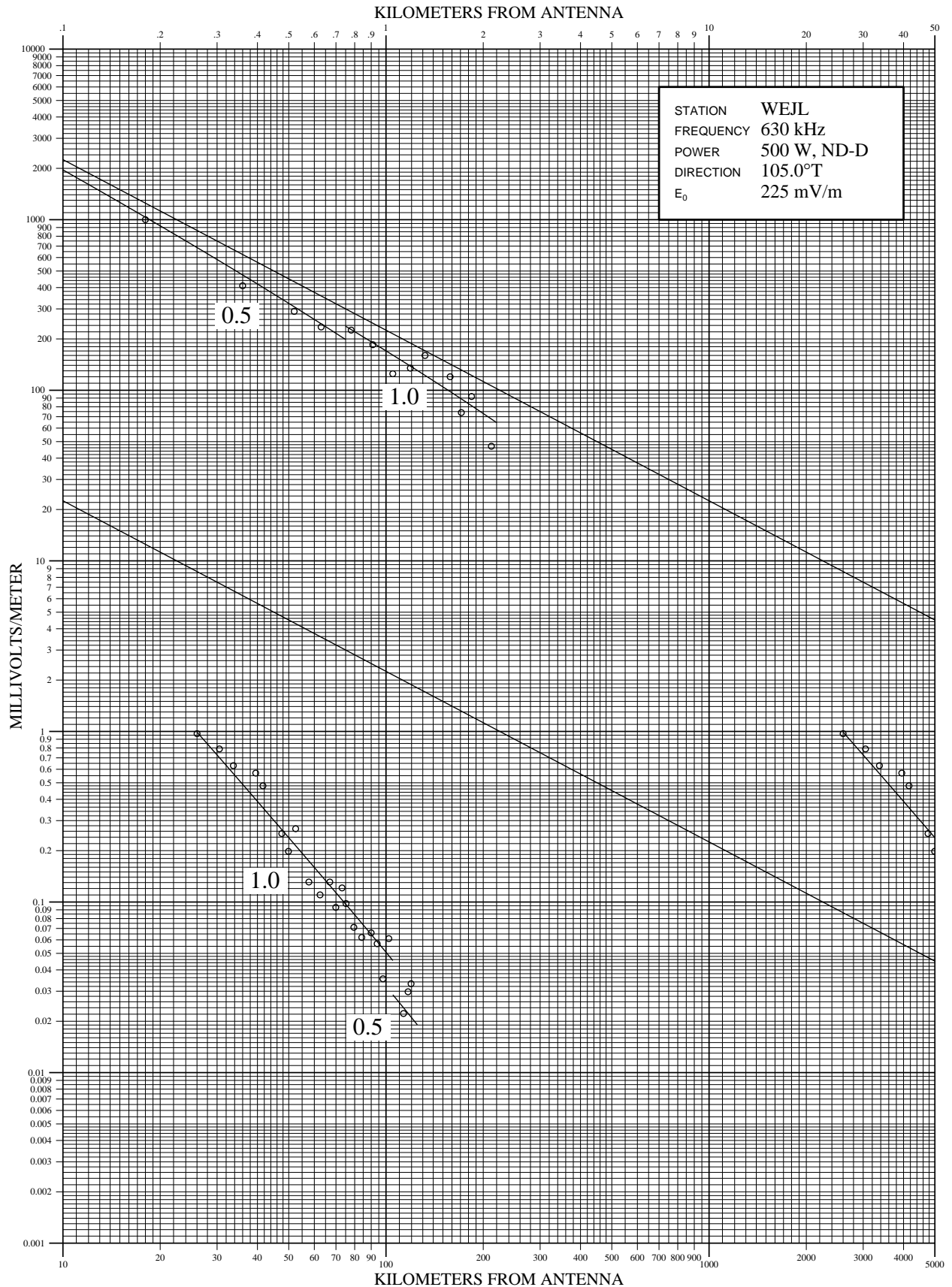
William F. Hammett
William F. Hammett, P.E.

November 28, 2001



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Measured Field Strengths for WEJL, 630 kHz, on 105°T



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Field Measurements on Station WHEN, 620 kHz, at 135°T

<u>Point</u>	<u>Distance</u>	<u>Date/Time</u>	<u>Field</u>	<u>Point</u>	<u>Distance</u>	<u>Date/Time</u>	<u>Field</u>
1	0.18 km	a0925	3050 mV/m	37	57.8 km	d1125	1.08 mV/m
2	0.30	a0941	1780	38	69.9	d1434	0.680
3	0.41	a0959	1250	39	84.2	d1508	0.386
4	0.59	a1010	1050	40	100	d1547	0.240
5	0.70	a1235	900	41	120	d1644	0.120
6	0.76	a1239	820	42	141	d1727	0.092
7	0.88	a1242	600	43	151	d1827	0.0345
8	0.95	a1246	475	44	168	e1503	0.0475
9	1.11	a1250	510	45	181	e1520	0.0280
10	1.23	a1253	410	46	193	e1645	0.0155
11	1.33	a1258	330	47	212	e1717	0.0150
12	1.50	a1307	400	48	225	e1802	0.0142
13	1.67	a1322	260	49	238	a1515	0.0240
14	1.77	a1328	290	50	263	a1645	0.0118
15	2.40	a1345	260	51	291	f1235	0.0110
16	2.56	a1357	245	52	316	f1405	0.0130
17	2.71	a1406	215	53	344	f1653	0.0105
18	2.82	a1420	215				
19	2.90	a1435	210				
20	3.05	a1440	170				
21	3.15	c0908	160				
22	4.25	c0916	108				
23	5.00	c0925	105				
24	5.72	c0939	123				
25	6.50	c0945	71				
26	7.53	c0958	79				
27	8.78	c1018	64				
28	10.4	c1033	63				
29	12.7	c1108	41.0				
30	15.9	c1126	24.2				
31	18.9	c1308	17.3				
32	23.3	c1334	8.4				
33	27.7	c1352	9.1				
34	34.2	c1443	5.7				
35	40.8	c1503	3.83				
36	48.6	c1522	2.32				

Dates of Measurements:

- a June 10, 1999
- b June 13, 1999
- c June 17, 1999
- d June 18, 1999
- e June 22, 1999
- f June 23, 1999

Certificate of Field Measurements on WHEN

Gerald E. Corby
7 Summit Ave.
Budd Lake, NJ 07828
973 691 9586

Nov. 15, 2001

Scott Clifton, Dir. of Engineering
Sporting News Radio
1935 Techny Road, Suite 18
Northbrook, IL 60062

Dear Scott,

This is a statement to supplement the attached record of field strength measurements of station W H E N, AM 620, Syracuse, NY. These measurements were made, at your request, during the month of June, 1999. They were made by me with the occasional assistance of Michael Pritchard.

I have worked in the field of radio broadcast engineering for more than thirty years. During that time I have participated in field strength measurements, at several stations, for antenna proof of performance and monitor point maintenance. As a result, I believe I can say that I am very highly qualified to make field measurements of AM radio broadcast stations.

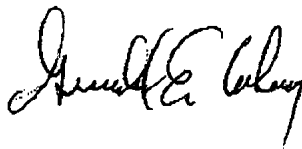
Mr. Pritchard has five years experience in making field strength readings, for antenna proof purposes, at several stations. In my opinion, he is very well qualified at this work.

A note about the data:

As requested, measurements were made on the bearings of 135 degrees and 155 degrees from the W H E N site. At distant points from the station, interference from co-channel station W J W R, AM 620, Newark, NJ, was observed. Whenever this occurred, W J W R was contacted by telephone and its carrier was interrupted briefly so that an accurate measurement of W H E N could be made.

If you have need of any further details, don't hesitate to ask.

Sincerely,



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Measured Field Strengths for WHEN, 620 kHz, on 135°T

