

**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>
<b>Co-Channel</b>					
WHEN	620 kHz	B	Syracuse, NY	BP19990713AB	Ex. 14B
WKHB	620 kHz	B	Irwin, PA	BL20010416ABD	
WVMT	620 kHz	B	Burlington, VT	BL19881229AE	
<b>First-Adjacent Channel</b>					
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
<b>Second-Adjacent Channel</b>					
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
<b>Third-Adjacent Channel</b>					
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	

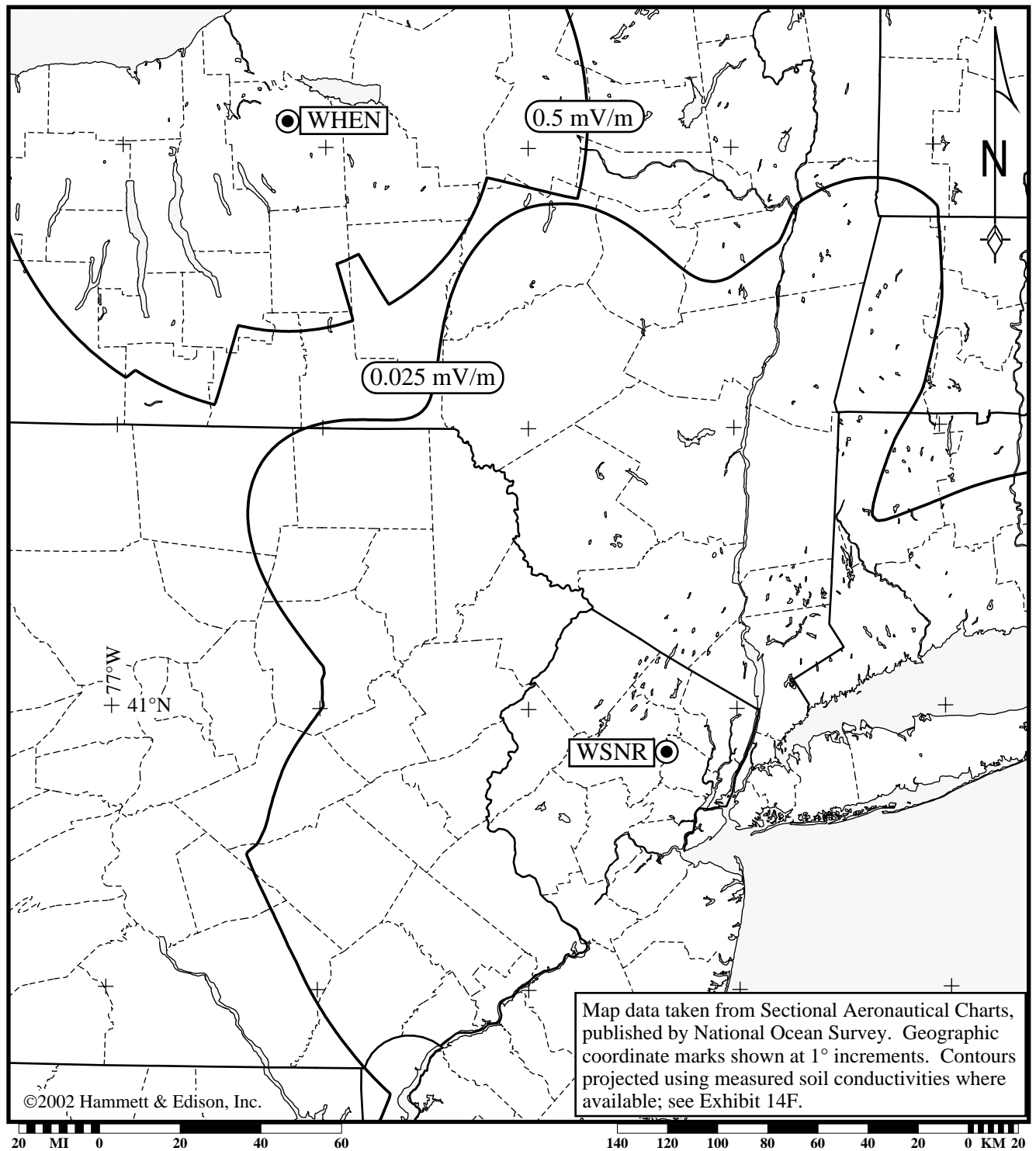
\* FCC File No. not listed in FCC engineering database.



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



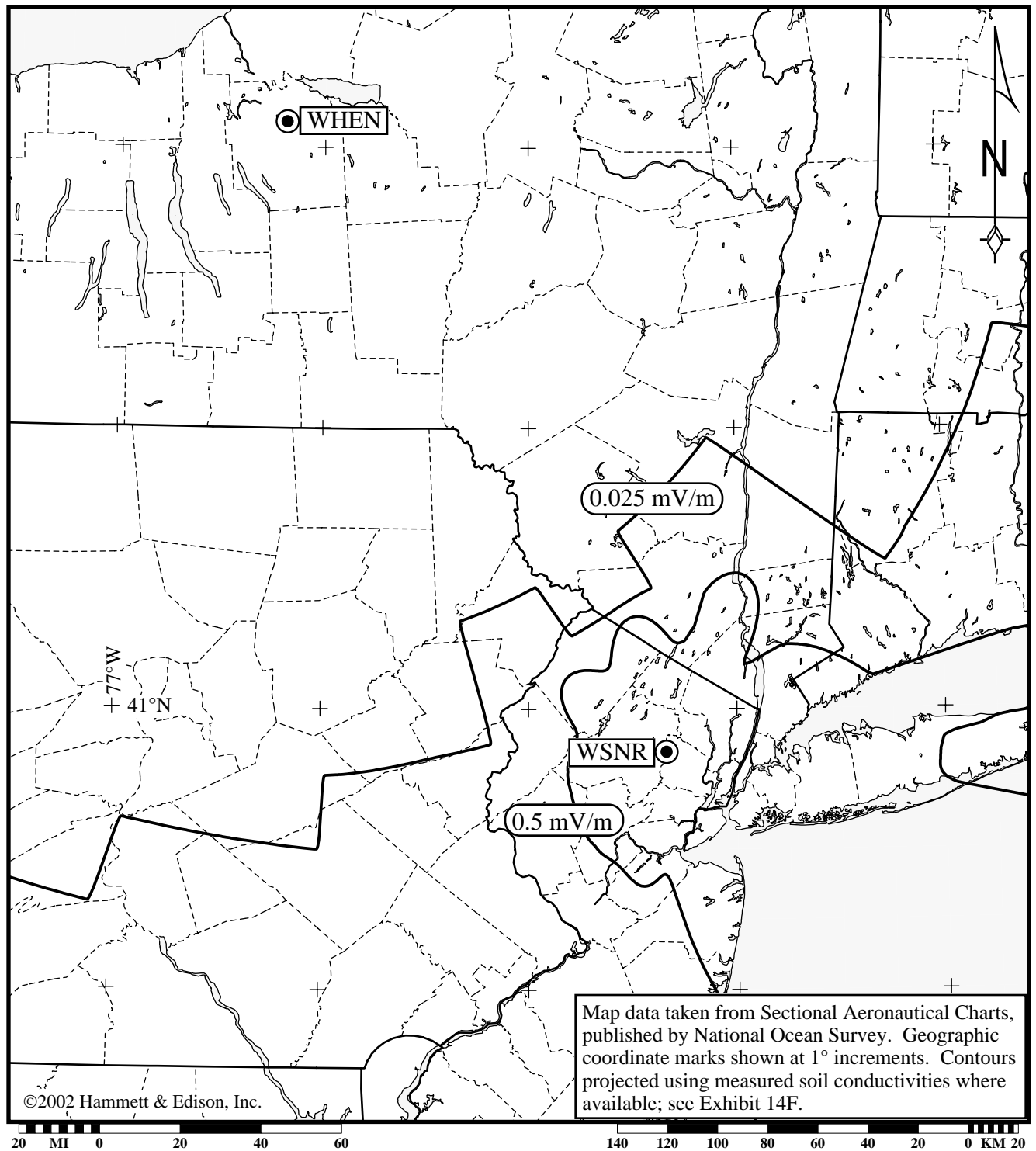
HAMMETT & EDISON, INC.  
CONSULTING ENGINEERS  
SAN FRANCISCO

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



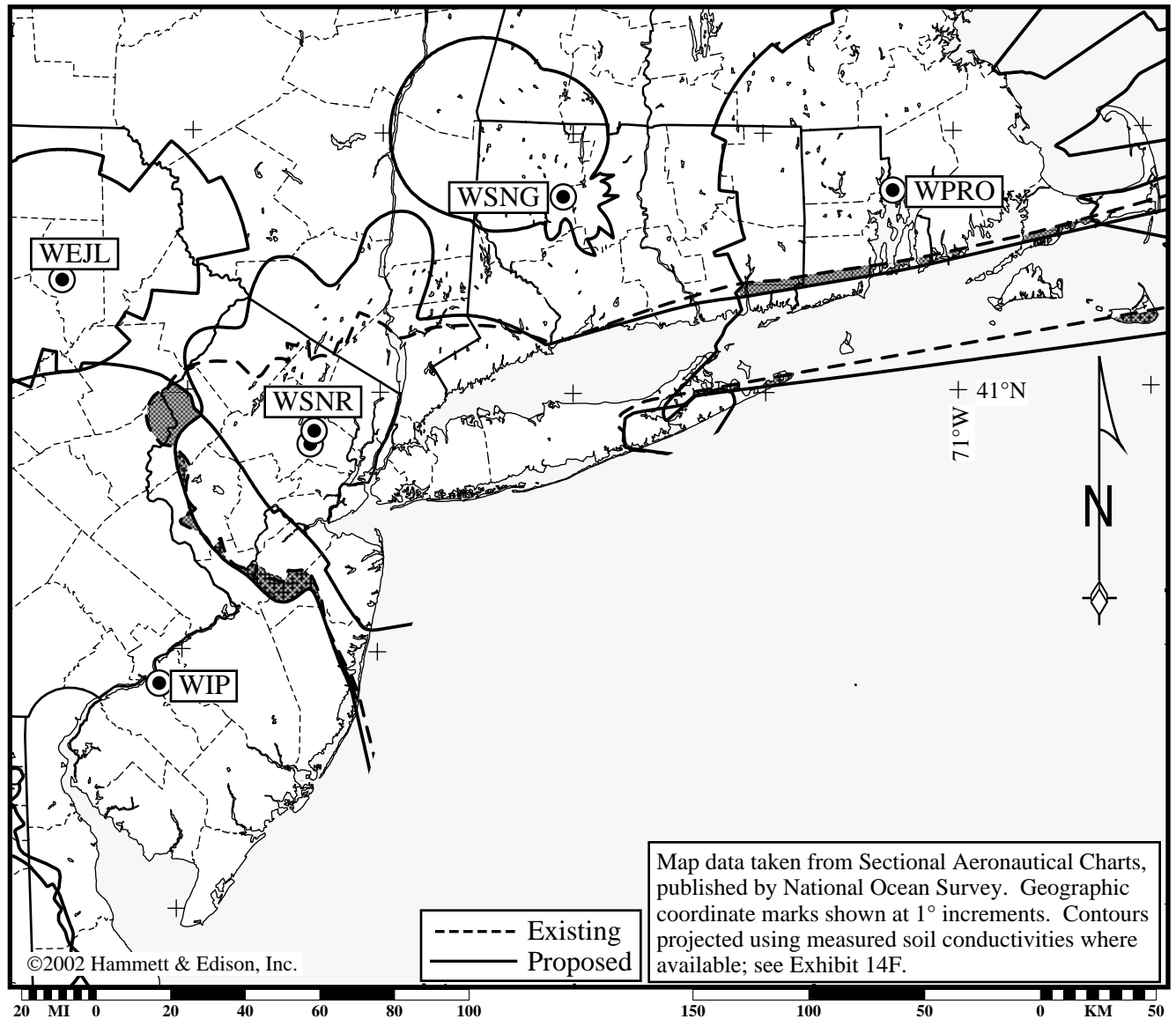
HAMMETT & EDISON, INC.  
CONSULTING ENGINEERS  
SAN FRANCISCO

011121  
Exhibit 14B2

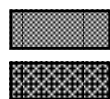
Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

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

447.4 sq. km

129.9 sq. km

317.5 sq. km



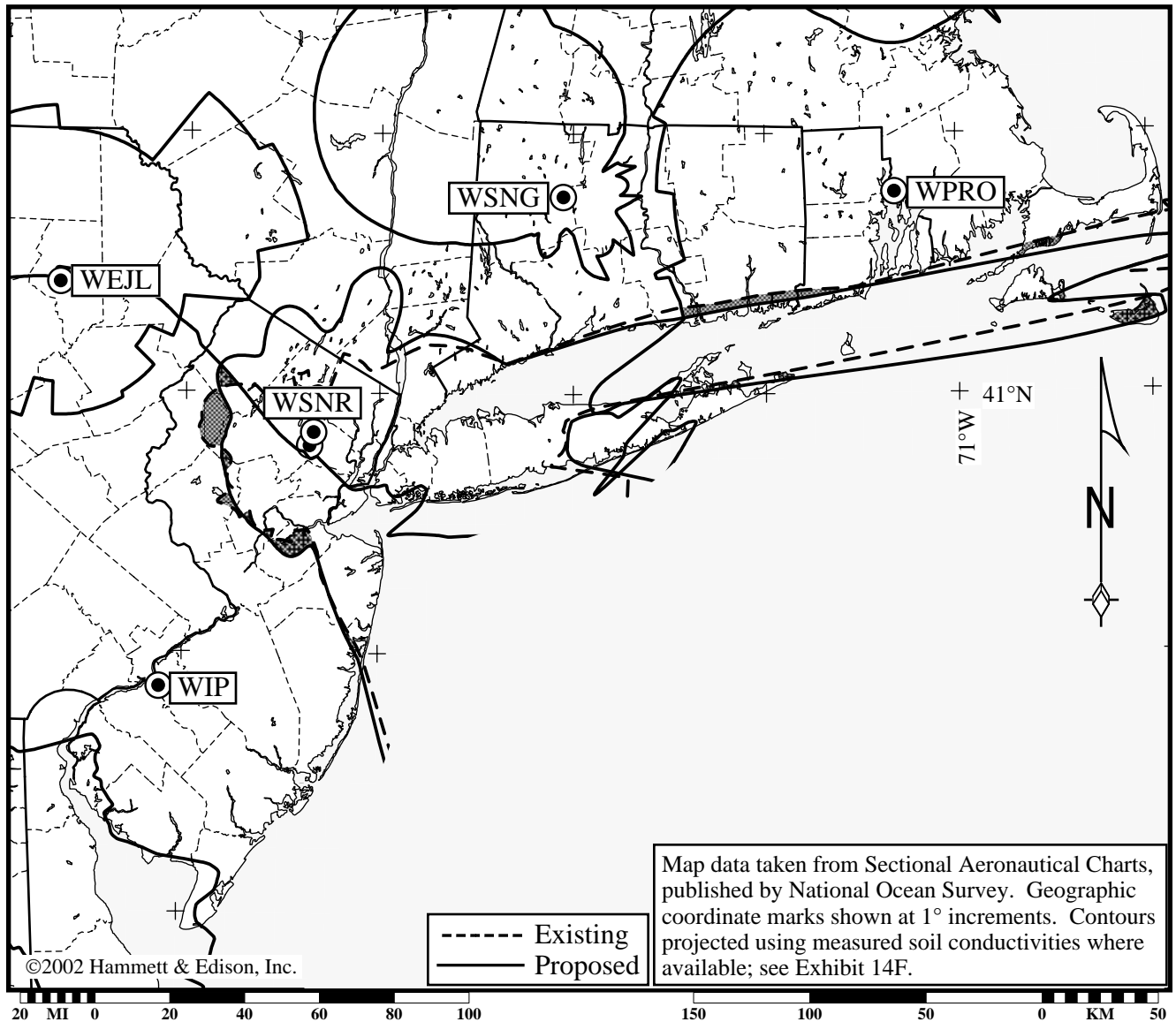
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Exhibit 14C1



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	315.7 sq. km
 Proposed overlap increased	259.9 sq. km	173.9 sq. km
Net overlap reduction	19.0 sq. km	141.8 sq. km

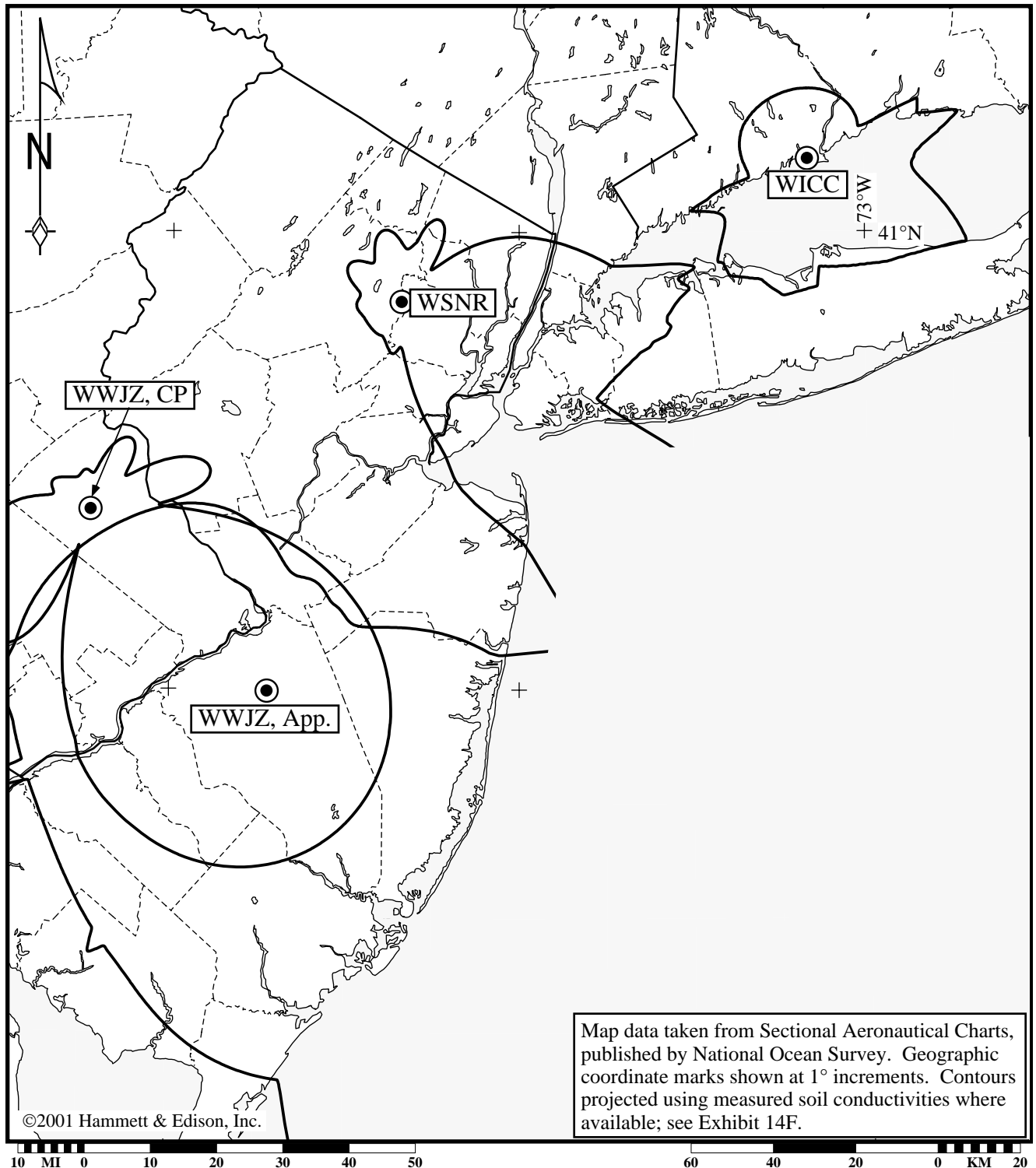


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Exhibit 14C2

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

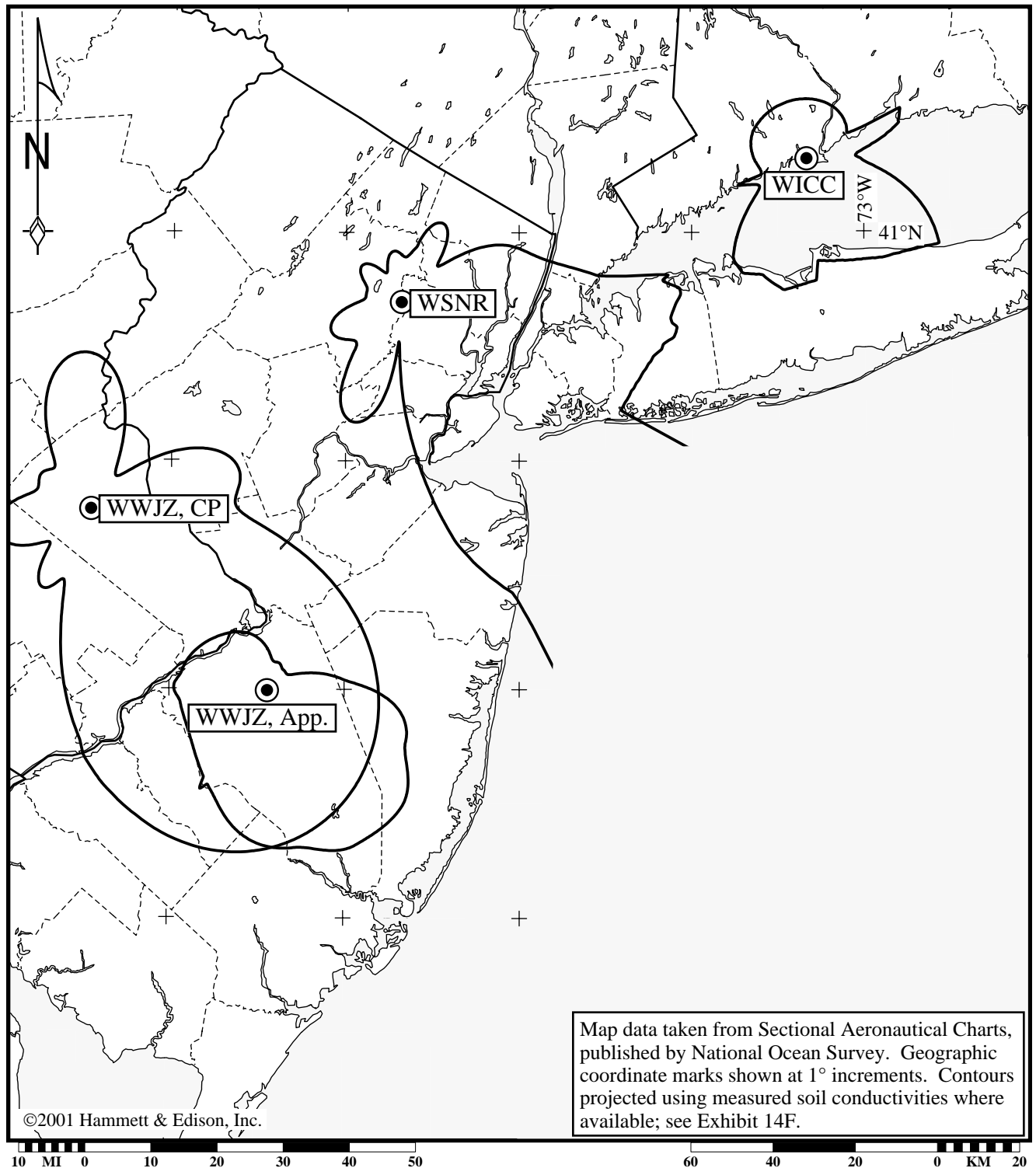


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Exhibit 14D1

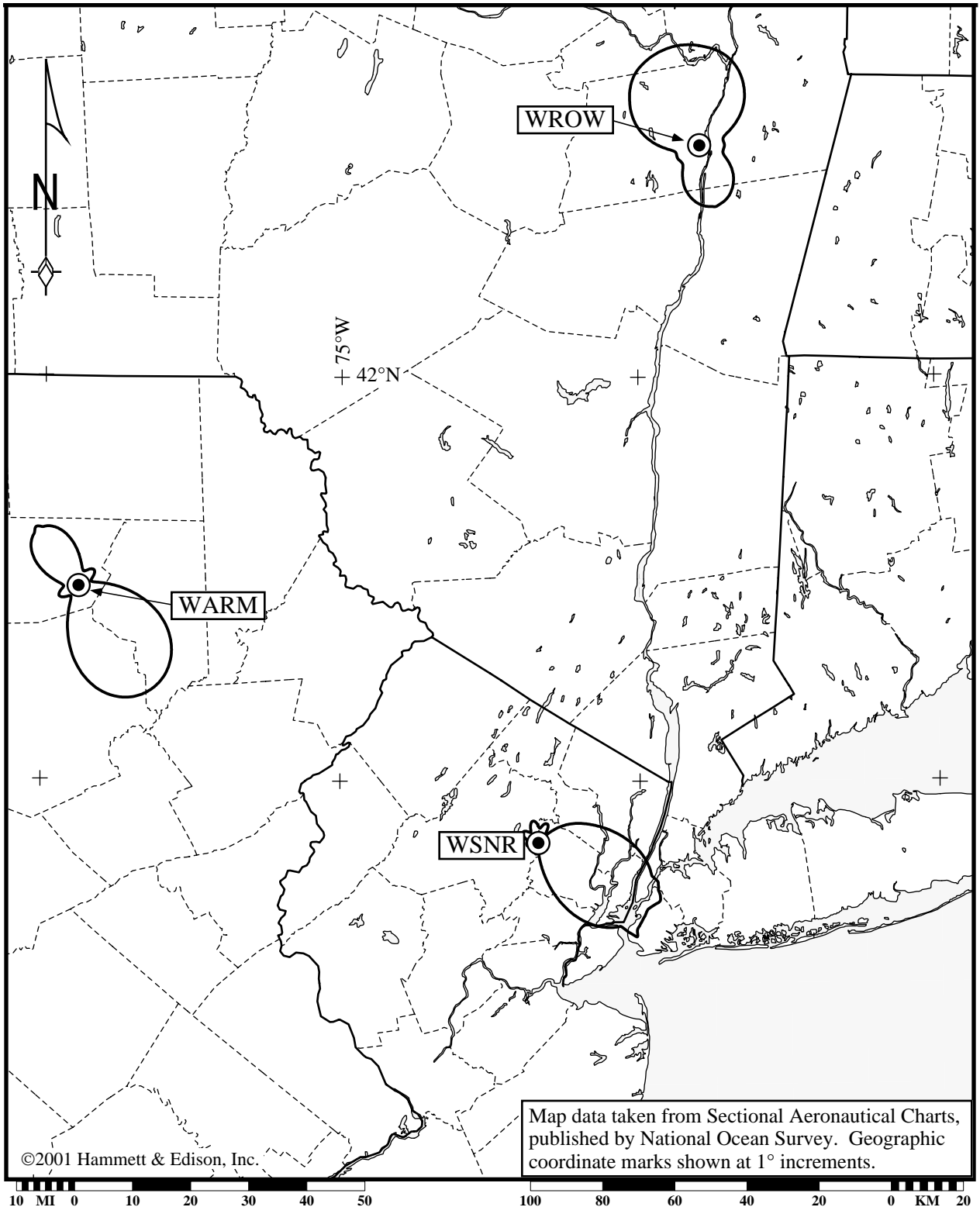
Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

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  $20^\circ$ , 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			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		Region		Region		Region		Region		Region		Region		Region	
		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			2.0E	489.7	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
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
		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
		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
		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
		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
		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												
86	1316.7	2.0E	0.5	4.0E	46.3	5kE	51.3	4.0E	58.1	5kE	60.2	4.0E	66.5	0.5E	168.5	5kE	500.0
87	1345.2	2.0E	0.5	4.0E	37.5	5kE	51.2	4.0E	58.4	5kE	60.0	4.0E	64.9	0.5E	156.3	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		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	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	2.0E	296.0	5kE	500.0		
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	5kE	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													

# 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
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	263.8	5kE	269.9
		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	437.7	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						
3																	

# 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	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 WHEN - 620 kHz, Syracuse, New York

Source(s) of Measured Data:

FCC File No. BMP19990713AG, WEJL Application for Construction Permit  
plus Measurements on 115°T and 135°T (see Exhibit 14G)

Coordinates: N 43 05 32 W 76 11 22

0	636.9	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
		4.0E 377.7	1.0E 500.0						
1	636.9	4.0E 88.0	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 379.3
		1.0E 500.0							
2	636.9	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 380.6
		1.0E 500.0							
3	636.9	4.0E 95.1	8.0E 98.8	4.0E 135.3	4.0E 249.9	5.0E 324.3	4.0E 382.1	1.0E 500.0	
4	636.9	4.0E 96.4	8.0E 100.4	4.0E 137.0	4.0E 249.0	5.0E 324.9	4.0E 383.7	1.0E 500.0	
5	636.9	4.0E 97.7	8.0E 98.7	4.0E 138.6	4.0E 248.0	5.0E 325.7	4.0E 385.3	1.0E 500.0	
6	636.9	4.0E 140.3	4.0E 247.7	5.0E 326.5	4.0E 387.4	1.0E 500.0			
7	636.9	4.0E 141.3	4.0E 247.7	5.0E 327.7	4.0E 389.8	1.0E 500.0			
8	636.9	4.0E 142.3	4.0E 247.8	5.0E 329.4	4.0E 392.4	1.0E 500.0			
9	636.9	4.0E 143.2	4.0E 248.0	5.0E 331.4	4.0E 394.9	1.0E 500.0			
10	636.9	4.0E 145.5	4.0E 248.2	5.0E 333.3	4.0E 397.8	1.0E 500.0			
11	636.9	4.0E 153.2	4.0E 248.5	5.0E 335.4	4.0E 401.5	1.0E 500.0			
12	636.9	4.0E 161.4	4.0E 249.1	5.0E 337.6	4.0E 405.6	1.0E 500.0			
13	636.9	4.0E 165.9	4.0E 250.3	5.0E 338.9	4.0E 409.7	1.0E 500.0			
14	636.9	4.0E 170.8	4.0E 251.4	5.0E 340.4	4.0E 414.1	1.0E 500.0			
15	636.9	4.0E 175.9	4.0E 252.7	5.0E 340.2	4.0E 418.8	1.0E 500.0			
16	636.9	4.0E 181.4	4.0E 254.0	5.0E 340.1	4.0E 423.6	1.0E 500.0			
17	636.9	4.0E 187.3	4.0E 255.4	5.0E 339.1	4.0E 500.0				
18	636.9	4.0E 193.8	4.0E 257.0	5.0E 337.6	4.0E 500.0				
19	636.9	4.0E 200.7	4.0E 259.6	5.0E 333.5	4.0E 500.0				
20	636.9	4.0E 208.1	4.0E 262.6	5.0E 327.5	4.0E 500.0				
21	636.9	4.0E 213.4	4.0E 265.7	5.0E 320.4	4.0E 500.0				
22	636.9	4.0E 218.2	4.0E 270.4	5.0E 313.7	4.0E 500.0				
23	636.9	4.0E 223.4	4.0E 277.5	5.0E 300.5	4.0E 500.0				
24	636.9	4.0E 229.7	4.0E 500.0						
25	636.9	4.0E 234.8	4.0E 500.0						
26	636.9	4.0E 236.9	4.0E 500.0						
27	636.9	4.0E 239.0	4.0E 500.0						
28	636.9	4.0E 241.4	4.0E 500.0						
29	636.9	4.0E 243.8	4.0E 500.0						
30	636.9	4.0E 246.4	4.0E 500.0						
31	636.9	4.0E 249.1	4.0E 500.0						
32	636.9	4.0E 251.9	4.0E 500.0						
33	636.9	4.0E 254.9	4.0E 500.0						
34	636.9	4.0E 258.0	4.0E 500.0						
35	636.9	4.0E 261.2	4.0E 500.0						
36	636.9	4.0E 264.7	4.0E 500.0						
37	636.9	4.0E 268.3	4.0E 500.0						
38	636.9	4.0E 272.1	4.0E 500.0						
39	636.9	4.0E 276.2	4.0E 500.0						
40	636.9	4.0E 280.3	4.0E 500.0						
41	636.9	4.0E 284.7	4.0E 500.0						
42	636.9	4.0E 289.4	4.0E 500.0						
43	636.9	4.0E 294.3	4.0E 500.0						
44	636.9	4.0E 299.5	4.0E 500.0						
45	636.9	4.0E 305.0	4.0E 500.0						
46	636.9	4.0E 310.8	4.0E 500.0						
47	636.9	4.0E 316.9	4.0E 500.0						
48	636.9	4.0E 323.5	4.0E 500.0						
49	636.9	4.0E 313.2	2.0E 330.7	4.0E 500.0					
50	636.9	4.0E 303.5	2.0E 338.4	4.0E 500.0					
51	636.9	4.0E 294.5	2.0E 346.7	4.0E 500.0					
52	636.9	4.0E 284.5	2.0E 355.3	4.0E 500.0					
53	636.9	4.0E 274.2	2.0E 364.7	4.0E 500.0					
54	636.9	4.0E 264.9	2.0E 374.5	4.0E 500.0					
55	636.9	4.0E 257.0	2.0E 372.4	0.5E 385.3	4.0E 500.0				
56	636.9	4.0E 250.7	2.0E 366.1	0.5E 396.9	4.0E 500.0				
57	636.9	4.0E 244.9	2.0E 359.8	0.5E 409.3	4.0E 444.5	0.5E 464.0	4.0E 498.3	1.0E 499.5	2.0E 500.0
58	636.9	4.0E 239.3	2.0E 353.3	0.5E 422.6	4.0E 436.5	0.5E 485.9	4.0E 493.6	1.0E 500.0	
59	636.9	4.0M 22.9	4.0E 234.2	2.0E 347.1	0.5E 484.6	1.0E 500.0			
60	636.9	4.0M 22.9	4.0E 229.5	2.0E 341.2	0.5E 477.5	1.0E 500.0			
61	636.9	4.0M 22.9	4.0E 225.0	2.0E 335.5	0.5E 470.7	1.0E 500.0			
62	636.9	4.0M 22.9	4.0E 220.6	2.0E 330.2	0.5E 464.3	1.0E 500.0			
63	636.9	4.0M 22.9	4.0E 216.6	2.0E 325.2	0.5E 458.3	1.0E 500.0			
64	636.9	4.0M 22.9	4.0E 212.8	2.0E 320.4	0.5E 450.9	1.0E 500.0			
65	636.9	4.0M 22.9	4.0E 209.2	2.0E 316.7	0.5E 442.9	1.0E 500.0			
66	636.9	4.0M 22.9	4.0E 205.0	2.0E 313.8	0.5E 432.6	1.0E 500.0			
67	636.9	4.0M 22.9	4.0E 200.8	2.0E 311.2	0.5E 421.2	1.0E 500.0			
68	636.9	4.0M 22.9	4.0E 197.0	2.0E 309.3	0.5E 407.6	1.0E 498.7	2.0E 500.0		
69	636.9	4.0M 22.9	4.0E 193.1	2.0E 308.5	0.5E 391.9	1.0E 471.9	2.0E 500.0		
70	636.9	4.0M 22.9	4.0E 189.6	2.0E 307.9	0.5E 371.1	1.0E 454.6	2.0E 500.0		
71	636.9	4.0M 22.9	4.0E 186.2	2.0E 310.4	0.5E 352.4	1.0E 442.1	2.0E 500.0		



**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		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
72	636.9	4.0M	22.9	4.0E 183.0	2.0E 309.8	1.0E 320.9	0.5E 335.7	1.0E 431.5	2.0E 500.0								
73	636.9	4.0M	32.2	4.0E 179.9	2.0E 307.1	1.0E 423.4	2.0E 500.0										
74	636.9	4.0M	32.2	4.0E 177.0	2.0E 304.0	1.0E 417.0	2.0E 500.0										
75	636.9	4.0M	32.2	4.0E 174.3	2.0E 300.5	1.0E 412.0	2.0E 500.0										
76	636.9	4.0M	32.2	4.0E 170.9	2.0E 297.1	1.0E 408.6	2.0E 500.0										
77	636.9	4.0M	32.2	4.0E 167.5	2.0E 294.0	1.0E 405.4	2.0E 500.0										
78	636.9	4.0M	32.2	4.0E 164.5	2.0E 291.0	1.0E 403.8	2.0E 500.0										
79	636.9	4.0M	32.2	4.0E 161.4	2.0E 288.1	1.0E 403.1	2.0E 500.0										
80	636.9	4.0M	32.2	4.0E 158.7	2.0E 285.5	1.0E 403.5	2.0E 500.0										
81	636.9	4.0M	32.2	4.0E 155.9	2.0E 283.2	1.0E 405.2	2.0E 486.7	5kE 500.0									
82	636.9	4.0M	32.2	4.0E 153.4	2.0E 281.2	1.0E 407.2	2.0E 474.8	5kE 500.0									
83	636.9	4.0M	32.2	4.0E 150.3	2.0E 279.2	1.0E 409.3	2.0E 473.6	5kE 500.0									
84	636.9	4.0M	32.2	4.0E 147.3	2.0E 277.3	1.0E 411.5	2.0E 466.5	5kE 500.0									
85	636.9	4.0M	32.2	4.0E 144.4	2.0E 275.5	1.0E 413.9	2.0E 455.6	5kE 500.0									
86	636.9	4.0M	32.2	4.0E 141.6	2.0E 273.9	1.0E 415.7	2.0E 455.0	5kE 500.0									
87	636.9	4.0M	32.2	4.0E 139.4	2.0E 272.3	1.0E 417.8	2.0E 433.7	5kE 435.3	2.0E 452.2	5kE 500.0							
88	636.9	4.0E 138.2	2.0E 270.9	1.0E 418.6	2.0E 428.4	5kE 434.5	2.0E 436.1	5kE 441.0	2.0E 448.8								
		5kE 500.0															
89	636.9	4.0E 137.1	2.0E 269.4	1.0E 418.8	2.0E 443.4	5kE 500.0											
90	636.9	4.0E 137.4	2.0E 268.1	1.0E 419.1	2.0E 440.0	5kE 500.0											
91	636.9	4.0E 137.8	2.0E 267.0	1.0E 417.8	2.0E 437.4	5kE 500.0											
92	636.9	4.0E 138.6	2.0E 194.7	4.0E 257.8	2.0E 265.9	1.0E 416.7	2.0E 436.6	5kE 500.0									
93	636.9	4.0E 141.5	2.0E 183.0	4.0E 265.1	1.0E 415.7	2.0E 438.1	5kE 500.0										
94	636.9	4.0E 144.5	2.0E 172.7	4.0E 264.3	1.0E 413.6	2.0E 441.1	5kE 500.0										
95	636.9	4.0E 153.5	2.0E 158.5	4.0E 263.6	1.0E 410.2	2.0E 451.3	5kE 500.0										
96	636.9	4.0E 263.1	1.0E 404.9	2.0E 441.8	5kE 500.0												
97	636.9	4.0E 262.6	1.0E 397.2	2.0E 440.3	5kE 500.0												
98	636.9	4.0E 262.3	1.0E 389.6	2.0E 432.4	5kE 500.0												
99	636.9	4.0E 262.0	1.0E 382.2	2.0E 433.6	5kE 500.0												
100	636.9	4.0E 261.8	1.0E 374.3	2.0E 430.0	5kE 500.0												
101	636.9	4.0E 261.7	1.0E 362.4	2.0E 458.3	5kE 499.5	2.0E 500.0											
102	636.9	4.0E 261.7	1.0E 348.7	2.0E 466.1	5kE 500.0												
103	636.9	4.0E 261.7	1.0E 339.7	2.0E 467.0	5kE 500.0												
104	636.9	4.0E 261.8	1.0E 333.8	2.0E 481.2	5kE 500.0												
105	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 262.0	1.0E 329.6	2.0E 483.9								
		5kE 500.0															
106	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 262.3	1.0E 327.0	2.0E 500.0								
107	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 262.6	1.0E 324.6	2.0E 475.1								
		5kE 481.5	2.0E 500.0														
108	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 263.1	1.0E 321.9	2.0E 472.7								
		5kE 483.8	2.0E 497.1	5kE 500.0													
109	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 263.6	1.0E 318.7	2.0E 421.8								
		5kE 424.9	2.0E 434.5	5kE 438.5	2.0E 463.2	5kE 486.2	2.0E 486.5	5kE 500.0									
110	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 264.3	1.0E 315.4	2.0E 425.5								
		5kE 440.2	2.0E 453.2	5kE 453.7	2.0E 464.5	5kE 500.0											
111	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 264.9	1.0E 311.7	2.0E 424.5								
		5kE 443.9	2.0E 454.3	5kE 500.0													
112	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 265.4	1.0E 307.5	2.0E 426.6								
		5kE 500.0															
113	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 265.4	1.0E 303.8	2.0E 431.3								
		5kE 500.0															
114	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 265.5	1.0E 300.8	2.0E 427.4								
		5kE 428.4	2.0E 431.0	5kE 500.0													
115	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 265.7	1.0E 298.4	2.0E 425.8								
		5kE 500.0															
116	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 266.0	1.0E 297.9	2.0E 417.9								
		5kE 500.0															
117	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 266.5	1.0E 297.4	2.0E 411.8								
		5kE 500.0															
118	636.9	0.5M 1.0	1.5M 6.0	5.0M 20.0	3.0M 46.0	2.0M 85.0	4.0E 267.0	1.0E 298.7	2.0E 386.1								
		5kE 386.2	2.0E 396.9	5kE 500.0													
119	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 267.0	1.0E 298.7	2.0E 386.1	5kE 386.2	2.0E 396.9								
		5kE 500.0															
120	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 267.0	1.0E 298.7	2.0E 386.1	5kE 386.2	2.0E 396.9								
		5kE 500.0															
121	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 267.0	1.0E 298.7	2.0E 386.1	5kE 386.2	2.0E 396.9								
		5kE 500.0															
122	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 267.0	1.0E 298.7	2.0E 386.1	5kE 386.2	2.0E 396.9								
		5kE 500.0															
123	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 269.6	1.0E 314.5	2.0E 361.5	5kE 383.5	0.5E 387.9								
		5kE 403.8	0.5E 406.2	5kE 410.7	0.5E 414.1	5kE 500.0											
124	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 269.6	1.0E 319.1	2.0E 351.8	5kE 381.7	0.5E 385.6								
		5kE 398.3	0.5E 410.1	5kE 500.0													
125	636.9	4.0M 29.5	3.0M 46.0	2.0M 85.0	4.0E 269.4	1.0E 324.1	2.0E 346.2	5kE 380.0	0.5E 385.0								
		5kE 391.6	0.5E 405.9	5kE 500.0													
126	636.9	4.0M 29.5	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 329.3	2.0E 335.7	5kE 339.6	2.0E 340.7								
		5kE 378.5	0.5E 384.3	5kE 392.0	0.5E 402.0	5kE 500.0											
127	636.9	4.0M 29.5	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 334.7	2.0E 335.1	5kE 377.1	0.5E 382.4								
		5kE 391.7	0.5E 398.2	5kE 500.0													
128	636.9	4.0M 29.5	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 332.5	5kE 372.2	0.5E 380.6	5kE 383.3								
		0.5E 393.0	5kE 500.0														
129	636.9	0.5M 0.5	1.5M 2.1	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 331.4	5kE 365.8	0.5E 392.2								
		5kE 500.0															
130	636.9	0.5M 0.5	1.5M 2.1	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 326.4	5kE 359.7	0.5E 386.7								
		5kE 500.0															
131	636.9	0.5M 0.5	1.5M 2.1	3.0M 50.1	2.0M 99.9	1.0M 300.0	1.0E 324.9	5kE 353.1	0.5E 382.2								

# 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
133	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	319.6	5kE	348.3	0.5E	374.2
134	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	318.5	5kE	345.8	0.5E	370.5
135	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	316.9	5kE	331.8	4.0E	337.3
136	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	1.0E	315.3	5kE	330.2	4.0E	333.8
137	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	303.2	1.0E	315.1	5kE	326.4
138	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.3	5kE	323.8	4.0E	331.2
139	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.3	5kE	326.2	4.0E	330.9
140	636.9	0.5M	0.5	1.5M	2.1	3.0M	50.1	2.0M	99.9	1.0M	300.0	4.0E	315.4	5kE	320.6	4.0E	330.6
141	636.9	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	636.9	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	636.9	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	636.9	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	636.9	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	636.9	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	636.9	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
148	636.9	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	222.7	2.0E	294.5
149	636.9	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	222.4	2.0E	297.2
150	636.9	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	222.3	2.0E	297.6
151	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	378.0	5kE	500.0				
152	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	377.9	5kE	381.3	4.0E	383.8	5kE	500.0
153	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	392.0	5kE	500.0				
154	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	401.2	5kE	500.0				
155	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	412.0	5kE	500.0				
156	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	416.5	5kE	500.0				
157	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	419.2	5kE	500.0				
158	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	424.4	5kE	500.0				
159	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	432.9	5kE	500.0				
160	636.9	4.0M	20.0	3.0M	40.1	1.5M	55.0	1.0M	300.0	4.0E	432.9	5kE	434.0	4.0E	436.9	5kE	500.0
161	636.9	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	441.1	5kE	500.0
162	636.9	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	438.7	5kE	443.2
163	636.9	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	452.7	5kE	500.0
164	636.9	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	462.4	5kE	500.0
165	636.9	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	471.4	5kE	500.0
166	636.9	2.0M	6.9	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	636.9	2.0M	6.9	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	636.9	2.0M	6.9	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	636.9	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	370.6
170	636.9	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	374.0
171	636.9	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	376.9	5kE	381.9
172	636.9	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	384.3	5kE	416.7
173	636.9	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	500.0		
174	636.9	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	500.0		
175	636.9	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	500.0		
176	636.9	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	393.3	5kE	397.0
177	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	229.3	2.0E	280.0	4.0E	390.7	5kE	390.9	4.0E	399.1
178	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	227.7	2.0E	282.0	4.0E	392.5	5kE	409.4	4.0E	411.7
179	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	226.3	2.0E	283.9	4.0E	396.9	5kE	413.6	4.0E	439.5
180	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	224.0	2.0E	285.0	4.0E	410.5	5kE	421.3	4.0E	441.6
181	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	221.7	2.0E	286.1	4.0E	403.3	5kE	479.1	4.0E	500.0
182	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	218.9	2.0E	287.3	4.0E	415.7	5kE	500.0		
183	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	216.5	2.0E	288.2	4.0E	424.2	5kE	426.2	4.0E	431.3
184	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	213.9	2.0E	289.2	4.0E	427.6	5kE	440.0	4.0E	445.9
185	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	211.5	2.0E	290.6	4.0E	394.0	2.0E	411.7	4.0E	426.3
186	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	209.2	2.0E	294.3	4.0E	390.7	2.0E	429.2	4.0E	500.0
187	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	207.6	2.0E	299.0	4.0E	388.5	2.0E	441.4	4.0E	500.0
188	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	206.3	2.0E	304.8	4.0E	389.0	2.0E	455.6	4.0E	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
189	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	205.4	2.0E	310.9	4.0E	389.5	2.0E	471.5	4.0E	493.7
		5kE	495.5	4.0E	500.0												
190	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	204.2	2.0E	321.9	4.0E	389.9	2.0E	488.9	4.0E	500.0
191	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.7	2.0E	336.5	4.0E	390.7	2.0E	500.0		
192	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.7	2.0E	351.0	4.0E	390.7	2.0E	500.0		
193	636.9	4.0M	40.1	3.0M	70.0	2.0M	115.1	4.0E	203.9	2.0E	365.5	4.0E	388.5	2.0E	500.0		
194	636.9	4.0M	12.1	3.0M	29.9	4.0E	204.2	2.0E	500.0								
195	636.9	4.0M	12.1	3.0M	29.9	4.0E	204.9	2.0E	500.0								
196	636.9	4.0M	12.1	3.0M	29.9	4.0E	205.8	2.0E	500.0								
197	636.9	4.0M	12.1	3.0M	29.9	4.0E	206.8	2.0E	500.0								
198	636.9	4.0M	12.1	3.0M	29.9	4.0E	207.9	2.0E	500.0								
199	636.9	4.0M	12.1	3.0M	29.9	4.0E	209.1	2.0E	500.0								
200	636.9	4.0M	12.1	3.0M	29.9	4.0E	210.2	2.0E	500.0								
201	636.9	4.0M	12.1	3.0M	29.9	4.0E	210.8	2.0E	500.0								
202	636.9	4.0M	12.1	3.0M	29.9	4.0E	211.8	2.0E	500.0								
203	636.9	4.0M	12.1	3.0M	29.9	4.0E	212.6	2.0E	333.9	4.0E	357.9	2.0E	500.0				
204	636.9	4.0M	12.1	3.0M	29.9	4.0E	213.6	2.0E	311.7	4.0E	413.4	2.0E	500.0				
205	636.9	4.0M	12.1	3.0M	29.9	4.0E	214.4	2.0E	300.1	4.0E	442.2	2.0E	500.0				
206	636.9	4.0M	12.1	3.0M	29.9	4.0E	215.2	2.0E	296.0	4.0E	466.7	2.0E	500.0				
207	636.9	4.0M	12.1	3.0M	29.9	4.0E	216.1	2.0E	291.9	4.0E	478.5	2.0E	500.0				
208	636.9	4.0M	12.1	3.0M	29.9	4.0E	217.3	2.0E	290.6	4.0E	490.7	2.0E	500.0				
209	636.9	4.0M	12.1	3.0M	29.9	4.0E	218.2	2.0E	290.2	4.0E	500.0						
210	636.9	4.0M	12.1	3.0M	29.9	4.0E	219.5	2.0E	290.8	4.0E	500.0						
211	636.9	4.0M	12.1	3.0M	29.9	4.0E	220.8	2.0E	292.9	4.0E	500.0						
212	636.9	4.0E	222.1	2.0E	297.6	4.0E	500.0										
213	636.9	4.0M	31.1	4.0E	223.2	2.0E	310.8	4.0E	332.5	2.0E	368.2	4.0E	500.0				
214	636.9	4.0M	31.1	4.0E	224.3	2.0E	386.1	4.0E	500.0								
215	636.9	4.0M	31.1	4.0E	225.5	2.0E	385.9	4.0E	500.0								
216	636.9	4.0M	31.1	4.0E	226.8	2.0E	384.6	4.0E	500.0								
217	636.9	4.0M	31.1	4.0E	228.0	2.0E	383.5	4.0E	500.0								
218	636.9	4.0M	31.1	4.0E	229.5	2.0E	382.5	4.0E	500.0								
219	636.9	4.0M	31.1	4.0E	231.1	2.0E	381.7	4.0E	500.0								
220	636.9	4.0M	31.1	4.0E	232.9	2.0E	380.8	4.0E	500.0								
221	636.9	4.0M	31.1	4.0E	234.8	2.0E	379.5	4.0E	493.3	2.0E	500.0						
222	636.9	4.0M	31.1	4.0E	236.7	2.0E	378.4	4.0E	492.9	2.0E	500.0						
223	636.9	4.0M	31.1	4.0E	239.0	2.0E	377.4	4.0E	494.9	2.0E	500.0						
224	636.9	4.0M	31.1	4.0E	241.2	2.0E	376.6	4.0E	498.6	2.0E	500.0						
225	636.9	4.0M	31.1	4.0E	243.5	2.0E	375.8	4.0E	500.0								
226	636.9	4.0M	31.1	4.0E	245.9	2.0E	375.1	4.0E	500.0								
227	636.9	4.0M	31.1	4.0E	248.3	2.0E	374.7	4.0E	500.0								
228	636.9	4.0M	31.1	4.0E	250.9	2.0E	374.5	4.0E	500.0								
229	636.9	4.0M	31.1	4.0E	253.8	2.0E	374.7	4.0E	500.0								
230	636.9	4.0M	31.1	4.0E	256.7	2.0E	375.0	4.0E	500.0								
231	636.9	4.0M	31.1	4.0E	259.4	2.0E	375.5	4.0E	500.0								
232	636.9	4.0M	31.1	4.0E	262.0	2.0E	375.9	4.0E	500.0								
233	636.9	4.0M	31.1	4.0E	264.9	2.0E	376.6	4.0E	500.0								
234	636.9	4.0E	267.8	2.0E	377.4	4.0E	631.3	2.0E	500.0								
235	636.9	4.0E	270.9	2.0E	378.4	4.0E	500.0										
236	636.9	4.0E	273.9	2.0E	379.3	4.0E	394.8	8.0E	500.0								
237	636.9	4.0E	277.0	2.0E	379.5	8.0E	500.0										
238	636.9	4.0E	280.3	2.0E	369.3	8.0E	500.0										
239	636.9	4.0E	283.7	2.0E	360.7	8.0E	500.0										
240	636.9	4.0E	287.3	2.0E	353.3	8.0E	500.0										
241	636.9	4.0E	291.1	2.0E	346.5	8.0E	500.0										
242	636.9	4.0E	295.2	2.0E	340.7	8.0E	500.0										
243	636.9	4.0E	299.8	2.0E	334.9	8.0E	500.0										
244	636.9	4.0E	308.7	2.0E	323.3	4.0E	328.0	8.0E	500.0								
245	636.9	4.0E	334.7	8.0E	500.0												
246	636.9	4.0E	342.6	8.0E	500.0												
247	636.9	4.0M	31.2	4.0E	351.2	8.0E	500.0										
248	636.9	4.0M	31.2	4.0E	360.0	8.0E	500.0										
249	636.9	4.0M	31.2	4.0E	369.7	8.0E	500.0										
250	636.9	4.0M	31.2	4.0E	379.3	8.0E	500.0										
251	636.9	4.0M	31.2	4.0E	131.3	8.0E	141.1	4.0E	389.5	8.0E	500.0						
252	636.9	4.0M	31.2	4.0E	127.3	8.0E	144.5	4.0E	264.1	8.0E	286.9	4.0E	400.2	8.0E	500.0		
253	636.9	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
		8.0E	500.0														
254	636.9	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	500.0		
255	636.9	4.0M	31.2	4.0E	121.8	8.0E	154.5	4.0E	237.2	8.0E	500.0						
256	636.9	4.0M	31.2	4.0E	120.4	8.0E	157.4	4.0E	228.2	8.0E	488.3	10.0E	500.0				
257	636.9	4.0M	31.2	4.0E	118.9	8.0E	160.6	4.0E	219.8	8.0E	451.4	10.0E	500.0				
258	636.9	4.0M	31.2	4.0E	117.6	8.0E	163.8	4.0E	212.4	8.0E	309.2	10.0E	500.0				
259	636.9	4.0M	31.2	4.0E	116.8	8.0E	167.4	4.0E	207.1	8.0E	286.0	10.0E	500.0				
260	636.9	4.0M	31.2	4.0E	116.2	8.0E	171.1	4.0E	202.3	8.0E	267.8	10.0E	500.0				
261	636.9	4.0M	31.2	4.0E	115.6	8.0E	174.9	4.0E	197.6	8.0E	258.5	10.0E	469.6	15.0E	500.0		
262	636.9	4.0M	31.2	4.0E	115.1	8.0E	249.8	10.0E	466.5	15.0E	500.0						
263	636.9	4.0M	31.2	4.0E	114.4	8.0E	236.3	10.0E	341.8	8.0E	371.1	10.0E	451.3	15.0E	500.0		
264	636.9	4.0M	31.2	4.0E	113.9	8.0E	225.6	10.0E	338.1	8.0E	382.5	10.0E	436.1	8.0E	449.7	15.0E	500.0
265	636.9	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	449.2	15.0E	500.0
266	636.9	4.0M	31.9	4.0E	113.1	8.0E	221.9	8.0E	311.2	5.0E	322.2	8.0E	448.5	15.0E	500.0		
267	636.9	4.0M	31.9	4.0E	112.8	8.0E	224.7	8.0E	310.4	5.0E	323.2	8.0E	445.1	15.0E	500.0		
268	636.9	4.0M	31.9	4.0E	112.5	8.0E	229.5	8.0E	309.5	5.0E	324.3	8.0E	437.6	15.0E	500.0		
269	636.9	4.0M	31.9	4.0E	112.2	8.0E	230.0	8.0E	308.8	5.0E	326.5	8.0E	430.0	15.0E	500.0		
270	636.9	4.0M	31.9	4.0E	111.8	8.0E	229.8	8.0E	307.4	5.0E	329.3	8.0E	423.7	15.0E	500.0		
271	636.9	4.0M	31.9	4.0E	111.7	8.0E	232.4	8.0E	305.1	5.0E	332.2	8.0E	419.2	15.0E	500.0		
272	636.9	4.0M	31.9	4.0E	111.5	8											

# 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
273	636.9	4.0M	31.9	4.0E	111.4	8.0E	231.4	8.0E	300.8	5.0E	338.3	8.0E	378.7	10.0E	413.4
		10.0E	498.6	8.0E	500.0										
274	636.9	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
		10.0E	411.7	15.0E	465.1	10.0E	494.9	8.0E	500.0					8.0E	361.0
275	636.9	4.0M	31.9	4.0E	110.7	8.0E	233.2	8.0E	242.2	15.0E	290.0	8.0E	295.3	5.0E	343.8
		10.0E	409.9	15.0E	453.7	10.0E	491.7	8.0E	500.0					8.0E	349.7
276	636.9	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
		15.0E	449.3	10.0E	488.4	8.0E	500.0							10.0E	409.7
277	636.9	4.0M	31.9	4.0E	110.4	8.0E	236.9	15.0E	289.8	5.0E	348.6	10.0E	409.6	15.0E	448.8
		8.0E	500.0											10.0E	485.4
278	636.9	4.0M	31.9	4.0E	110.2	8.0E	240.0	15.0E	286.6	5.0E	351.0	10.0E	410.2	15.0E	449.0
		8.0E	500.0											10.0E	482.8
279	636.9	4.0M	31.9	4.0E	110.1	8.0E	243.0	15.0E	283.7	5.0E	353.6	10.0E	411.0	15.0E	449.8
		8.0E	500.0											10.0E	484.4
280	636.9	4.0M	31.9	4.0E	108.8	8.0E	244.5	15.0E	281.2	5.0E	355.5	10.0E	412.2	15.0E	451.1
		8.0E	500.0											10.0E	486.2
281	636.9	4.0M	31.9	4.0E	105.7	8.0E	238.2	15.0E	278.4	5.0E	357.3	10.0E	414.1	15.0E	452.5
		8.0E	500.0											10.0E	488.0
282	636.9	4.0M	31.9	4.0E	102.8	8.0E	232.4	15.0E	275.4	5.0E	359.7	10.0E	416.0	15.0E	453.7
		8.0E	500.0											10.0E	490.0
283	636.9	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
		10.0E	413.6	5.0E	418.6	15.0E	454.8	10.0E	492.3	8.0E	500.0			5.0E	362.7
284	636.9	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
		10.0E	399.0	5.0E	422.5	15.0E	456.6	10.0E	494.7	8.0E	500.0			5.0E	368.7
285	636.9	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
		15.0E	458.7	10.0E	497.3	8.0E	500.0							5.0E	426.3
286	636.9	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
		8.0E	348.1	5.0E	430.5	15.0E	458.3	10.0E	500.0					10.0E	319.5
287	636.9	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
		8.0E	345.7	5.0E	435.0	15.0E	455.0	10.0E	500.0					10.0E	316.2
288	636.9	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	439.7
		10.0E	500.0											15.0E	454.5
289	636.9	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	445.1
		10.0E	500.0											15.0E	455.1
290	636.9	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	451.3
		10.0E	500.0											15.0E	452.9
291	636.9	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	446.6
		10.0E	500.0	8.0E	153.4	15.0E	231.7	8.0E	260.9	5.0E	269.1	10.0E	302.1	8.0E	332.8
292	636.9	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
		10.0E	500.0											5.0E	444.5
293	636.9	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
		4.0E	443.4	10.0E	500.0									5.0E	393.6
294	636.9	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
		4.0E	441.9	10.0E	500.0									5.0E	376.6
295	636.9	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
		4.0E	442.9	10.0E	500.0									5.0E	365.2
296	636.9	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
		4.0E	446.1	10.0E	500.0									5.0E	356.6
297	636.9	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
		10.0E	393.3	4.0E	411.8	10.0E	418.9	4.0E	453.0	10.0E	500.0			4.0E	392.2
298	636.9	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
		10.0E	398.6	4.0E	403.5	10.0E	424.5	4.0E	429.7	10.0E	435.0	4.0E	460.4	10.0E	500.0
299	636.9	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
		10.0E	434.8	4.0E	441.3	10.0E	441.8	4.0E	475.6	10.0E	500.0			4.0E	346.5
300	636.9	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	433.4
		10.0E	461.1	4.0E	487.3	10.0E	497.6	4.0E	499.1	10.0E	500.0			4.0E	434.7
301	636.9	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	468.6
		10.0E	500.0											4.0E	488.8
302	636.9	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	471.4
		10.0E	500.0											4.0E	472.7
303	636.9	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	525.6
		10.0E	500.0											4.0E	599.3
304	636.9	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
		4.0E	360.2	10.0E	500.0									10.0E	352.6
305	636.9	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
		10.0E	500.0	8.0E	96.1	15.0E	167.7	5.0E	188.9	8.0E	200.7	4.0E	209.7	5.0E	333.8
306	636.9	4.0E	50.9	8.0E	96.1	15.0E	167.7	5.0E	188.9	8.0E	200.7	4.0E	209.7	5.0E	333.8
		10.0E	500.0											4.0E	366.0
307	636.9	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	382.1
		10.0E	500.0	8.0E	91.9	15.0E	163.3	5.0E	196.3	4.0E	216.8	5.0E	326.2	4.0E	385.3
308	636.9	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	385.3
		10.0E	500.0											1.0E	399.8
309	636.9	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	375.5
		10.0E	500.0											1.0E	399.8
310	636.9	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
		10.0E	405.4	1.0E	426.2	10.0E	500.0							1.0E	395.6
311	636.9	4.0E	50.5	8.0E	86.3	15.0E	157.2	5.0E	203.3	4.0E	234.5	5.0E	303.8	4.0E	354.7
		10.0E	497.9	1.0E	500.0									1.0E	455.0
312	636.9	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	244.6
		4.0E	345.0	1.0E	471.7	10.0E	486.3	1.0E	500.0					5.0E	292.4
313	636.9	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	335.9
		10.0E	405.4	8.0E	81.4	15.0E	134.7	5.0E	207.6	4.0E	327.3	5.0E	500.0	1.0E	500.0
314	636.9	4.0E	50.5	8.0E	80.0	15.0E	133.1	5.0E	208.4	4.0E	318.2	1.0E	500.0		
315	636.9	4.0E	50.5	8.0E	80.0	15.0E	133.1	5.0E	208.4	4.0E	318.2	1.0E	500.0		
316	636.9	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
		10.0E	405.4	8.0E	77.4	15.0E	114.4	5.0E	127.6	15.0E	130.2	5.0E	210.2	4.0E	301.4
317	636.9	4.0E	50.5	8.0E	77.4	15.0E	114.4	5.0E	127.6	15.0E	130.2	5.0E	210.2	4.0E	301.4
318	636.9	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</	

# 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
325	636.9	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	1.0E	451.9
		2.0E	500.0														
326	636.9	4.0E	50.2	8.0E	79.5	15.0E	110.6	5.0E	113.5	15.0E	119.3	5.0E	221.9	4.0E	268.6	1.0E	453.7
		2.0E	500.0														
327	636.9	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	267.6	1.0E	458.0
		2.0E	500.0														
328	636.9	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	268.0	1.0E	464.1
		2.0E	500.0														
329	636.9	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	268.4	1.0E	474.4
		2.0E	500.0														
330	636.9	4.0E	50.2	8.0E	82.6	15.0E	120.4	5.0E	230.8	4.0E	268.9	1.0E	500.0				
331	636.9	4.0E	50.2	8.0E	83.4	15.0E	120.5	5.0E	233.0	4.0E	270.2	1.0E	500.0				
332	636.9	4.0E	50.4	8.0E	84.3	15.0E	120.7	5.0E	235.3	4.0E	271.7	1.0E	500.0				
333	636.9	4.0E	50.4	8.0E	85.3	15.0E	121.5	5.0E	237.5	4.0E	273.1	1.0E	500.0				
334	636.9	4.0E	50.5	8.0E	86.3	15.0E	122.3	5.0E	240.0	4.0E	274.7	1.0E	500.0				
335	636.9	4.0E	50.5	8.0E	87.2	15.0E	123.3	5.0E	242.5	4.0E	277.5	1.0E	500.0				
336	636.9	4.0E	50.7	8.0E	88.4	15.0E	124.2	5.0E	245.1	4.0E	280.8	1.0E	500.0				
337	636.9	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	500.0		
338	636.9	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	500.0		
339	636.9	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	500.0		
340	636.9	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	500.0		
341	636.9	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	1.0E	500.0
342	636.9	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	1.0E	500.0
343	636.9	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	1.0E	500.0
344	636.9	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	4.0E	340.9
		1.0E	500.0														
345	636.9	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	4.0E	345.2
		1.0E	500.0														
346	636.9	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	4.0E	349.5
		1.0E	500.0														
347	636.9	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	4.0E	352.0
		1.0E	500.0														
348	636.9	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	500.0		
349	636.9	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	500.0		
350	636.9	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	500.0		
351	636.9	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	500.0		
352	636.9	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	500.0		
353	636.9	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	4.0E	365.5
		1.0E	500.0														
354	636.9	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	5.0E	328.3
		4.0E	367.7	1.0E	500.0												
355	636.9	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	5.0E	326.5
		4.0E	369.7	1.0E	500.0												
356	636.9	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	5.0E	325.2
		4.0E	371.1	1.0E	500.0												
357	636.9	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	122.3	15.0E	129.6
		4.0E	258.9	5.0E	324.0	4.0E	372.6	1.0E	500.0								
358	636.9	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	15.0E	130.2
		4.0E	257.3	5.0E	323.3	4.0E	374.2	1.0E	500.0								
359	636.9	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	5.0E	323.3
		4.0E	375.9	1.0E	500.0												



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

## Soil Conductivity Data for Projection of Field Strength Contours

Radiation Az 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
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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							
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

011121  
Exhibit 14F13

# 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		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	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
		5kE	166.7	2.0E	173.8	5kE	370.0										
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
		5kE	370.0														
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
		5kE	342.6	4.0E	370.0												
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
		5kE	242.5	2.0E	244.6	5kE	246.6	2.0E	249.8	5kE	252.0	2.0E	313.0	5kE	337.6	4.0E	370.0
195	454.7	4.0E	64.5	5kE	92.1	4.0E	144.5	2.0E	217.9	5kE	252.3	2.0E	273.9	5kE	280.7	2.0E	303.2
		5kE	340.2	4.0E	370.0												
196	439.6	4.0E	63.9	5kE	91.2	4.0E	145.3	2.0E	222.4	5kE	339.7	4.0E	370.0				
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
		5kE	351.0	4.0E	370.0												
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
		5kE	299.8	2.0E	300.9	5kE	320.1	4.0E	341.2	5kE	352.4	4.0E	370.0				
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
		5kE	317.2	2.0E	321.4	5kE	324.0	4.0E	338.1	5kE	346.0	4.0E	370.0				
202	363.9	4.0E	60.5	5kE	70.8	4.0E	151.4	2.0E	180.6	5kE	283.9	2.0E	296.4	5kE	305.5	2.0E	310.9
		5kE	317.7	2.0E	332.2	4.0E	335.2	5kE	343.6	4.0E	370.0						
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
		5kE	295.6	2.0E	299.7	5kE	302.1	2.0E	313.7	5kE	317.0	2.0E	334.1	5kE	341.8	2.0E	356.6
		4.0E	357.0	2.0E	370.0												
204	344.7	4.0E	59.7	5kE	68.1	4.0E	153.9	2.0E	191.0	5kE	199.2	2.0E	199.6	5kE	246.9	4.0E	247.7
		5kE	256.7	4.0E	263.0	5kE	268.9	4.0E	271.0	5kE	276.5	2.0E	313.7	5kE	316.4	2.0E	328.6
		5kE	340.1	2.0E	370.0												
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	237.9	4.0E	239.6
		5kE	243.3	4.0E	247.4	5kE	249.9	4.0E	271.7	5kE	276.6	2.0E	310.8	5kE	314.6	2.0E	325.6
		5kE	330.2	2.0E	370.0												
206	328.6	4.0E	58.9	5kE	66.5	4.0E	156.8	2.0E	196.0	5kE	238.0	4.0E	247.2	5kE	248.6	4.0E	269.4
		5kE	278.3	2.0E	307.7	5kE	311.4	2.0E	328.0	5kE	334.1	2.0E	370.0				
207	321.7	4.0E	58.6	5kE	66.0	4.0E	158.2	2.0E	194.6	5kE	238.2	4.0E	247.2	5kE	247.4	4.0E	272.8
		5kE	278.1	2.0E	304.8	5kE	308.2	2.0E	328.6	5kE	332.2	2.0E	370.0				
208	315.5	2.0M	2.9	5.0M	31.2	4.0E	58.3	5kE	65.7	4.0E	159.8	2.0E	193.4	5kE	227.2	4.0E	228.2
		5kE	238.5	4.0E	269.4	5kE	275.8	2.0E	302.1	5kE	305.1	2.0E	329.4	5kE	333.8	2.0E	370.0
209	310.0	2.0M	2.9	5.0M	31.2	4.0E	57.9	5kE	65.3	4.0E	161.4	2.0E	192.2	5kE	220.8	4.0E	226.6
		5kE	238.8	4.0E	266.2	5kE	271.5	2.0E	299.3	5kE	302.2	2.0E	331.2	5kE	334.7	2.0E	370.0
210	305.2	2.0M	2.9	5.0M	31.2	4.0E	57.6	5kE	65.0	4.0E	163.0	5kE	163.2	4.0E	163.2	2.0E	191.2
		5kE	215.7	4.0E	225.1	5kE	239.0	4.0E	266.2	5kE	270.9	2.0E	298.7	5kE	299.5	2.0E	333.6
		5kE	333.8	2.0E	370.0												
211	301.0	2.0M	2.9	5.0M	31.2	4.0E	57.3	5kE	64.7	4.0E	162.4	5kE	163.8	4.0E	165.3	2.0E	194.2
		5kE	213.9	4.0E	223.9	5kE	239.8	4.0E	266.0	5kE	270.2	2.0E	370.0				
212	297.4	2.0M	2.9	5.0M	31.2	4.0E	57.0	5kE	64.4	4.0E	161.7	5kE	164.8	4.0E	167.5	2.0E	175.1
		5kE	175.6	2.0E	192.2	5kE	212.3	4.0E	221.6	5kE	22						

# 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
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	2.0E	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	5kE	33.6	4.0E	134.								

# 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	270.0								
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 Dist	Region Cond Dist	Region Cond Dist	Region Cond Dist	Region Cond Dist	Region Cond Dist	Region Cond Dist	Region Cond 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 03 06

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 14F19

# 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
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	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		Region		Region		Region		Region		Region		Region		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	1.0E	93.9	5kE	116.8	4.0E	127.7	5kE	370.0								
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						



# 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
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								



# 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
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								
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 Measurements on 105°T (see Exhibit 14G)

Coordinates: N 41 24 34 W 75 40 01

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 14F24

## Soil Conductivity Data for Projection of Field Strength Contours

Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	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		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 274.4
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 277.6
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 275.0
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 230.9
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	0.5M	0.75	1.0M	105.0	0.5M	119.6	4.0E	158.4	1.0E	219.5	5kE	278.4	0.5E	285.7
96	281.6	0.5M	0.75	1.0M	105.0	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 370.0
97	281.6	0.5M	0.75	1.0M	105.0	0.5M	119.6	4.0E	160.0			5kE	269.6	0.5E	275.4
		0.5E	299.2	5kE	305.0	0.5E	309.8	5kE	370.0	1.0E	206.5				5kE 288.4
98	281.6	0.5M	0.75	1.0M	105.0	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 280.8
99	281.6	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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	0.5M	0.75	1.0M	105.0	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		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	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	2.0E	353.1	5kE	356.5	2.0E	363.4	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	313.5	2.0E	350.4	5kE	370.0
186	281.6	2.0E	339.1	5kE	370.0	1.0M	20.0	0.5M	80.0	1.0M	121.5	4.0E	207.1	5kE	211.6	4.0E	314.1
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	211.1	5kE	216.0	4.0E	225.6
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	205.0	5kE	207.0	4.0E	214.8
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	207.1	5kE	211.6	4.0E	314.1
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	207.1	5kE	211.6	4.0E	314.1
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	207.1	5kE	211.6	4.0E	314.1
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	207.1	5kE	211.6	4.0E	314.1



## Soil Conductivity Data for Projection of Field Strength Contours



011121  
Exhibit 14F27

# 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
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	4.0E	239.5	8.0E	2								

# 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 14F30

# 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
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
		5kE	370.0														
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								



# 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
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														



# 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
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								
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								
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								
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				0.5E	256.4		5kE	261.7
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	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</													

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

## Soil Conductivity Data for Projection of Field Strength Contours

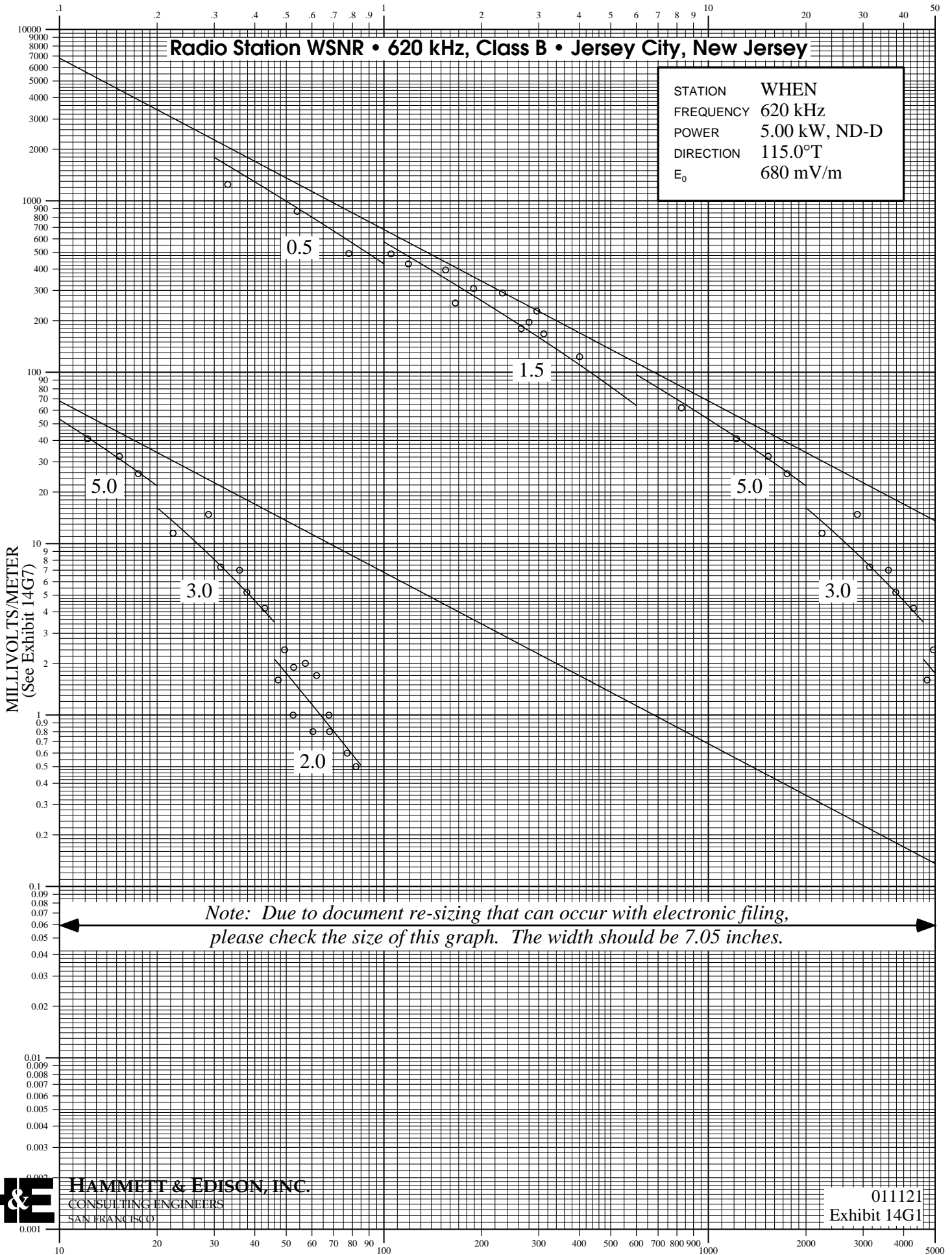
Az	Radiation mV/m@1km	Region		Region		Region		Region		Region		Region		Region		Region	
		Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist	Cond	Dist
311	305.8	2.0E	5.5	5kE	6.1	2.0E	93.7	1.0E	178.3	4.0E	212.6	2.0E	296.0	4.0E	370.0		
312	305.8	2.0E	5.8	5kE	6.3	2.0E	93.0	1.0E	179.8	4.0E	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								



# KILOMETERS FROM ANTENNA

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

STATION	WHEN
FREQUENCY	620 kHz
POWER	5.00 kW, ND-D
DIRECTION	115.0°T
E <sub>0</sub>	680 mV/m



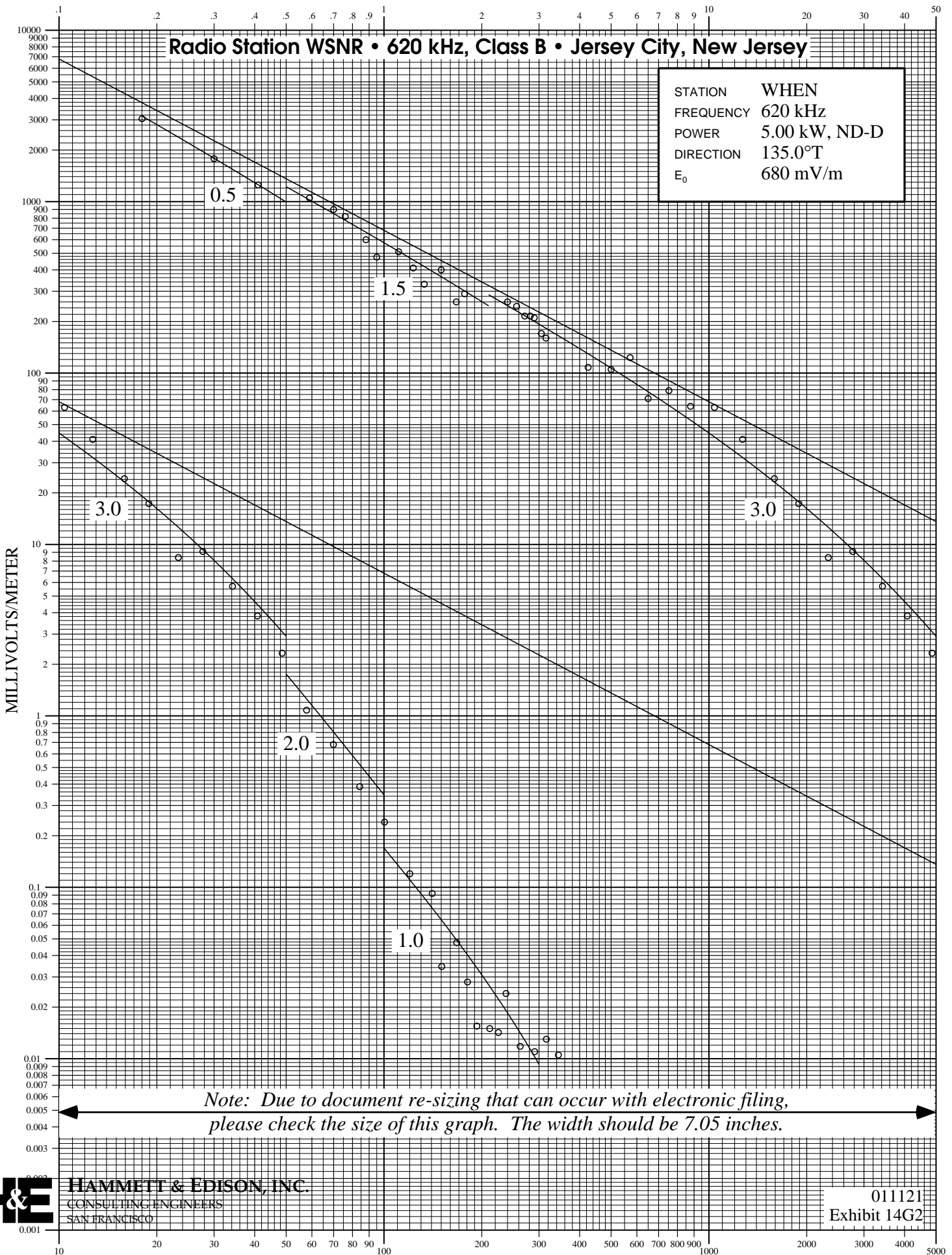
**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO

011121  
Exhibit 14G1

# KILOMETERS FROM ANTENNA

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

STATION	WHEN
FREQUENCY	620 kHz
POWER	5.00 kW, ND-D
DIRECTION	135.0°T
E <sub>0</sub>	680 mV/m



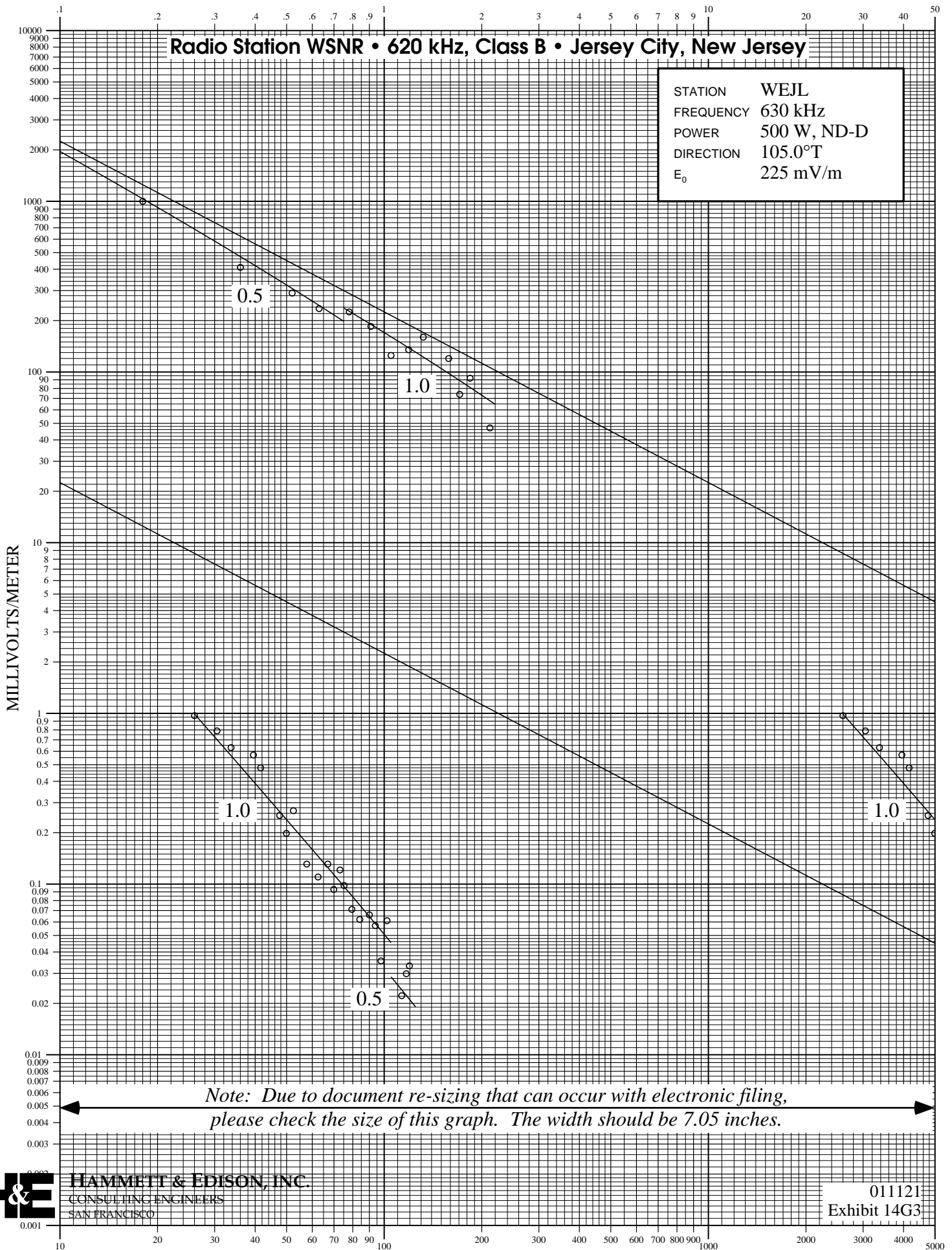
**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO

011121  
Exhibit 14G2

# KILOMETERS FROM ANTENNA

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

STATION	WEJL
FREQUENCY	630 kHz
POWER	500 W, ND-D
DIRECTION	105.0°T
E <sub>0</sub>	225 mV/m



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO

011121  
Exhibit 14G3

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

**Field Measurements on Station WHEN, 620 kHz, at 115°T**

<u>Point</u>	<u>Distance</u>	<u>Date/Time</u>	<u>Field</u>
1	0.33 km	a1112	1240 mV/m
2	0.54	a1114	870
3	0.78	a0946	493
4	1.05	a0951	491
5	1.19	a1120	430
6	1.55	a1000	395
7	1.66	a1014	254
8	1.89	a1008	308
9	2.32	a1022	290
10	2.65	a1034	180
11	2.80	a1040	196
12	2.96	a1104	227
13	3.11	a1045	168
14	4.01	a1136	123
15	8.26	a1153	62
16	12.2	a1206	40.9
17	15.3	a1217	32.3
18	17.5	a1229	25.6
19	22.4	a1244	11.5
20	28.8	a1253	14.8
21	31.4	a1309	7.3
22	35.9	a1328	7.0
23	37.8	a1336	5.2
24	42.9	a1353	4.21
25	47.2	a1401	1.62
26	49.4	b1326	2.41
27	52.5	a1409	1.05
28	52.7	b1337	1.94
29	57.3	a1418	2.00
30	60.4	b1352	0.83
31	62.0	a1428	1.75
32	67.7	b1445	1.05
33	68.0	b1416	0.76
34	77.0	b1447	0.58
35	82.6	b1459	0.53

Dates of Measurements:

- a January 6, 2002
- b January 9, 2002

(See Exhibit 14G7)

**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

**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

Dates of Measurements:

- a November 16, 2001
- b November 17, 2001
- c November 27, 2001

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

### Certification of Field Measurements

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained to determine by measurement the unattenuated field strength and ground conductivity in certain directions from Radio Stations WHEN, 620 kHz, Syracuse, NY, and WEJL, 630 kHz, Scranton, PA.

### Measurements Summary

Station WHEN operates at 5.0 kW watts nominal power into a non-directional tower in downtown Syracuse. Measurements were conducted during June 10–23, 1999, at 135°T from WHEN by Mr. Gerald E. Corby of Budd Lake, NJ, and by persons working under his direction; WSNR was taken off the air when required for accurate measurements at distant points. Measurements were conducted during January 6–10, 2002, at 115°T and 135°T from WHEN by qualified personnel working under the direction of the undersigned. Station WEJL operates at 500 watts nominal power into a non-directional tower in downtown Scranton. Measurements were conducted during November 16–27, 2001, at 105°T from WEJL by qualified personnel working under the direction of the undersigned. It is believed that all measurements were carefully made in, wherever possible, clear areas removed from overhead wires, fences, and other large metallic obstructions.

### Results of Measurements

In all three cases, close-in measurements were taken, *i.e.*, at least ten points within 3 kilometers of the station being measured. For the limited purpose of determining soil conductivity data from the most recent measurements, appropriate seasonal adjustments were applied. Graphs 3 and 4 of Section 73.184 of the FCC Rules were used to determine the unattenuated radiation and ground conductivity along the radials, as shown in this Exhibit 14. It is believed that the soil conductivity data reported here are true representations of the actual conditions pertaining to projection of protected and interfering contours in accordance with FCC Rules.

### 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.

January 11, 2002



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



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SAN FRANCISCO

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Exhibit 14G7