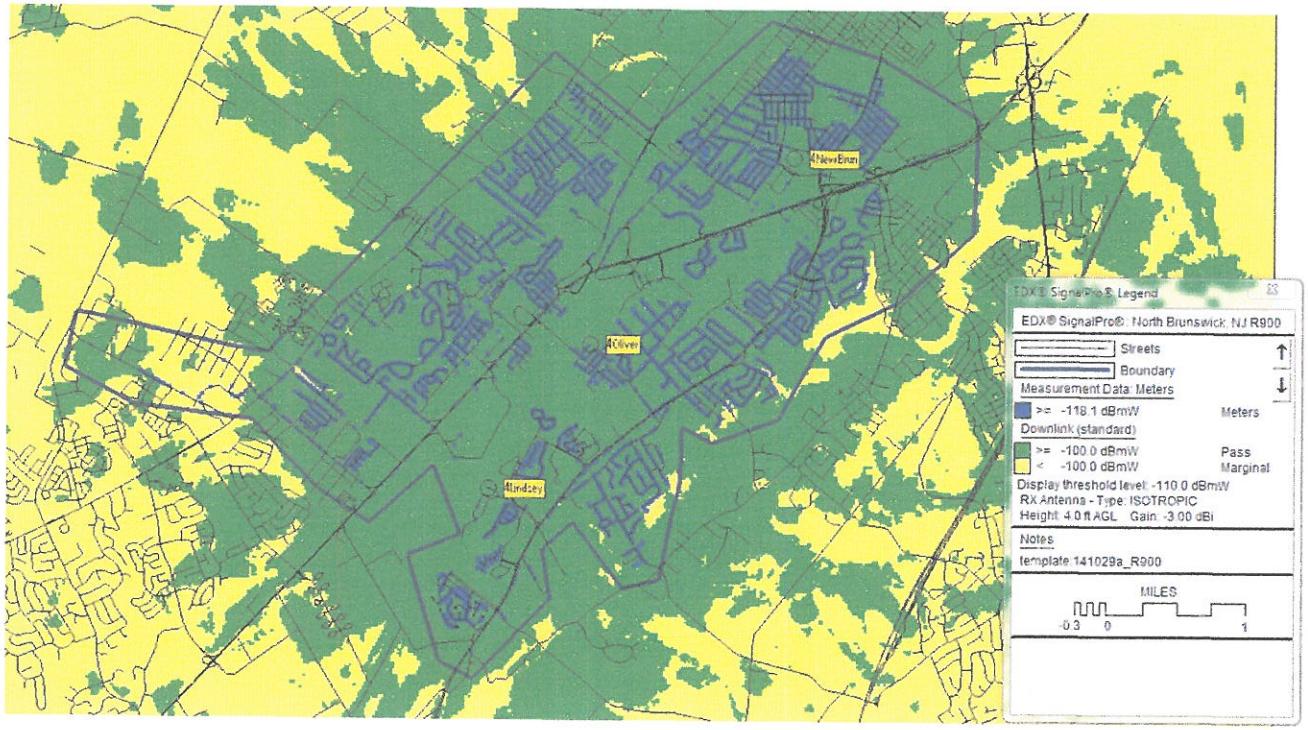
R900 Propagation Analysis
North Brunswick, NJ
October 26th, 2018

NEPTUNE
TECHNOLOGY GROUP

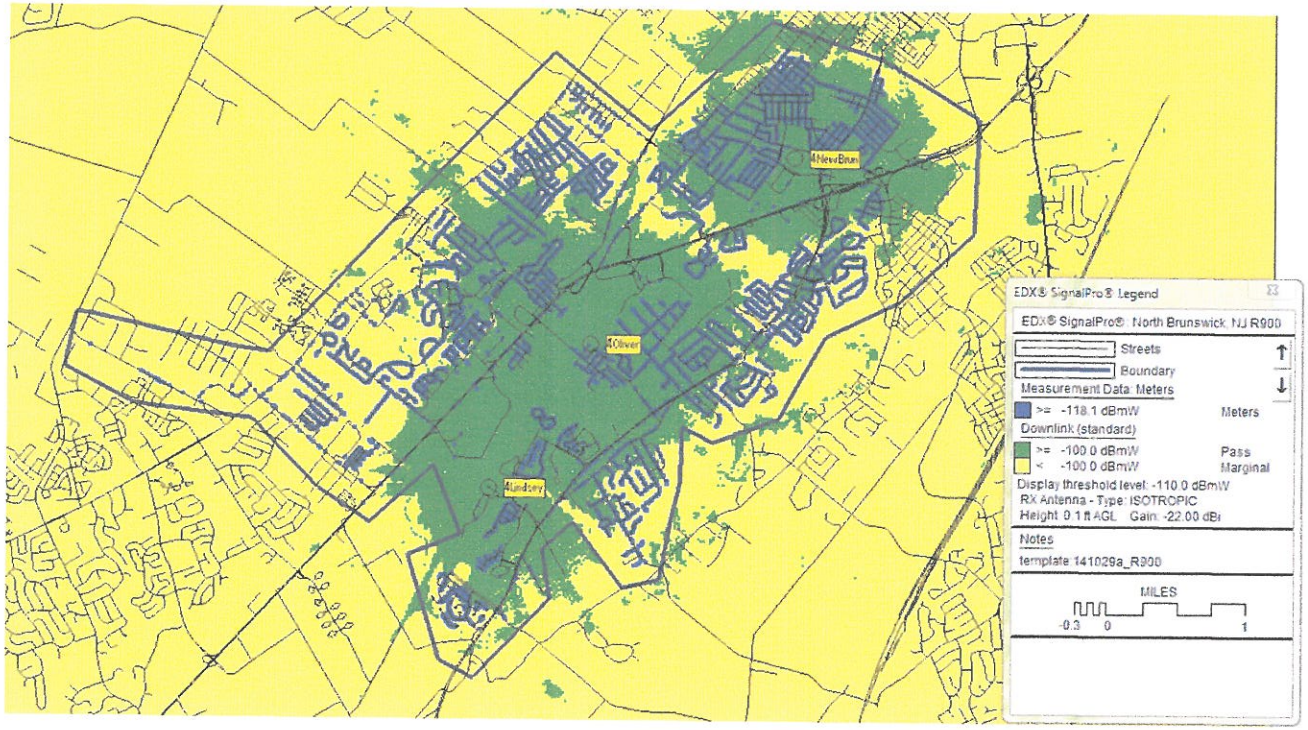
Scope:

- 11,223 Meters provided
  - 10,950 (97.6%) with coordinates in service area.
- 13.18 sq. miles in service boundary
- MIU used for evaluation.
  - Enhanced R900v4 Wall MIU External
  - Enhanced R900v4 Wall/R900i MIU Inside
- Assets provided for Gateways.

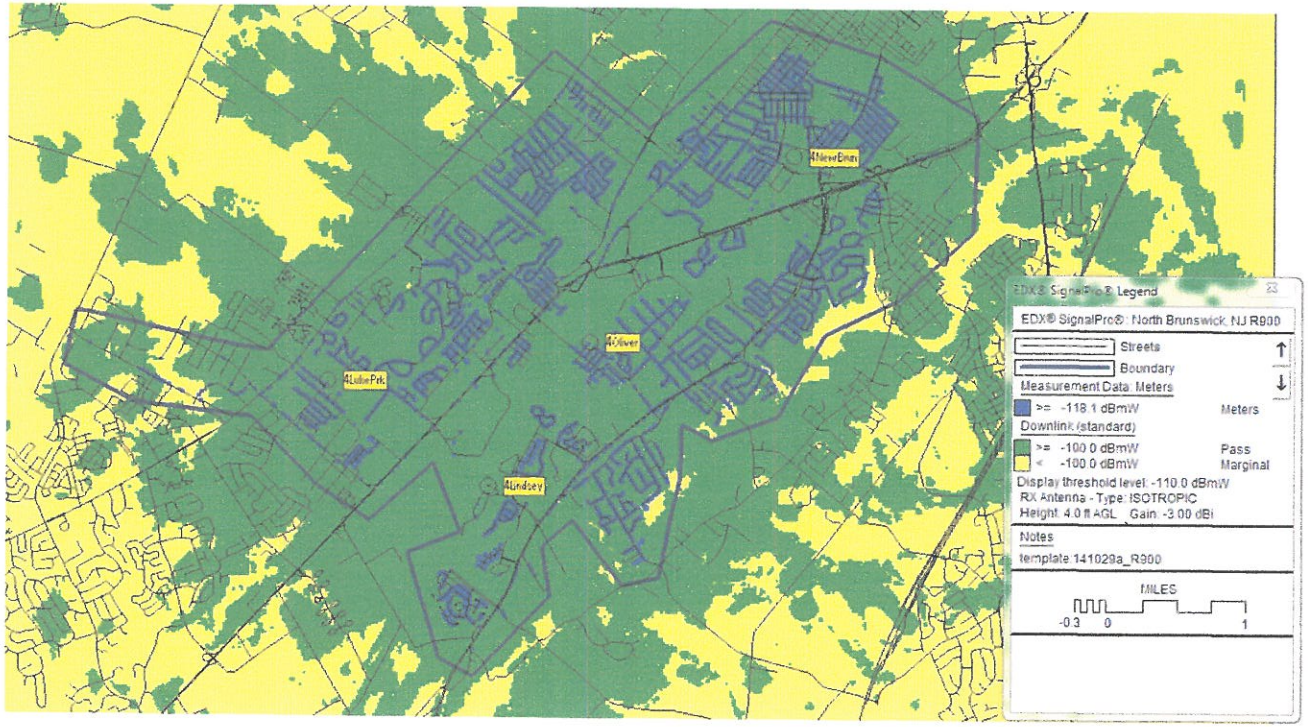
Map 1a: 3 Provided - Wall



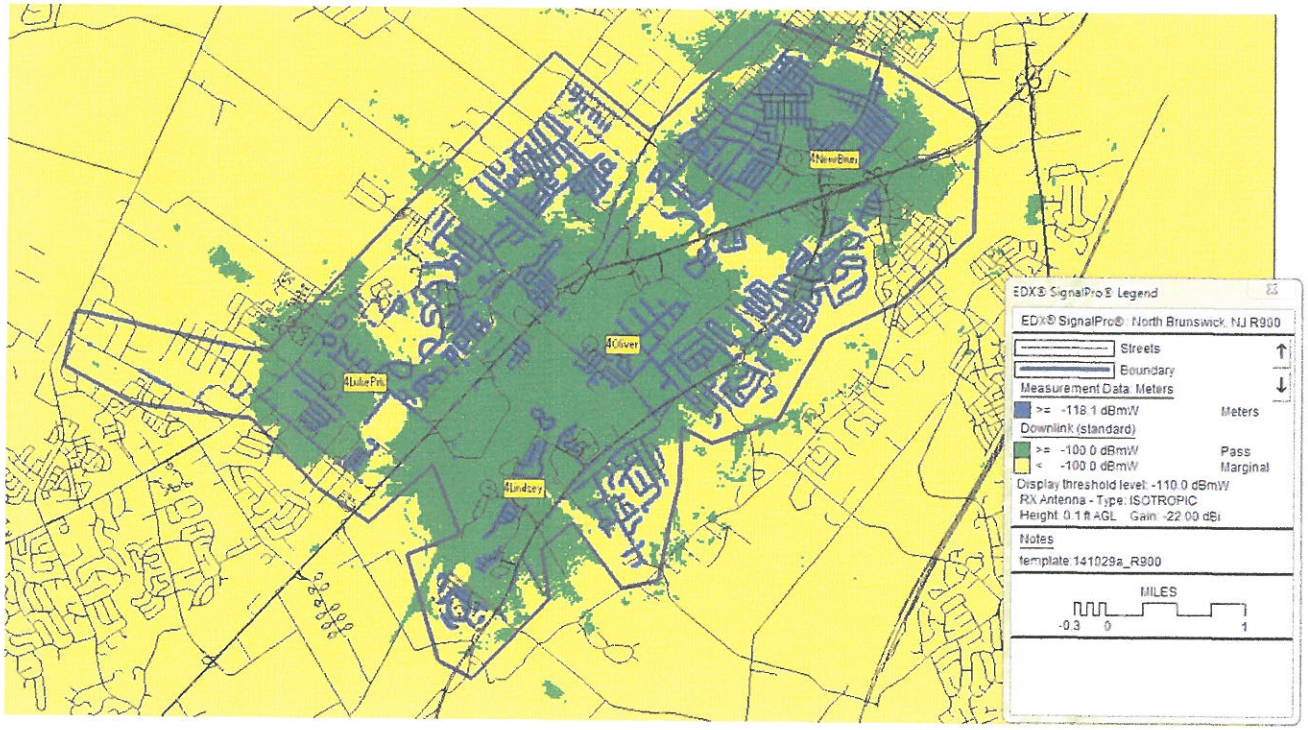
Map 1b: 3 Provided - Inside



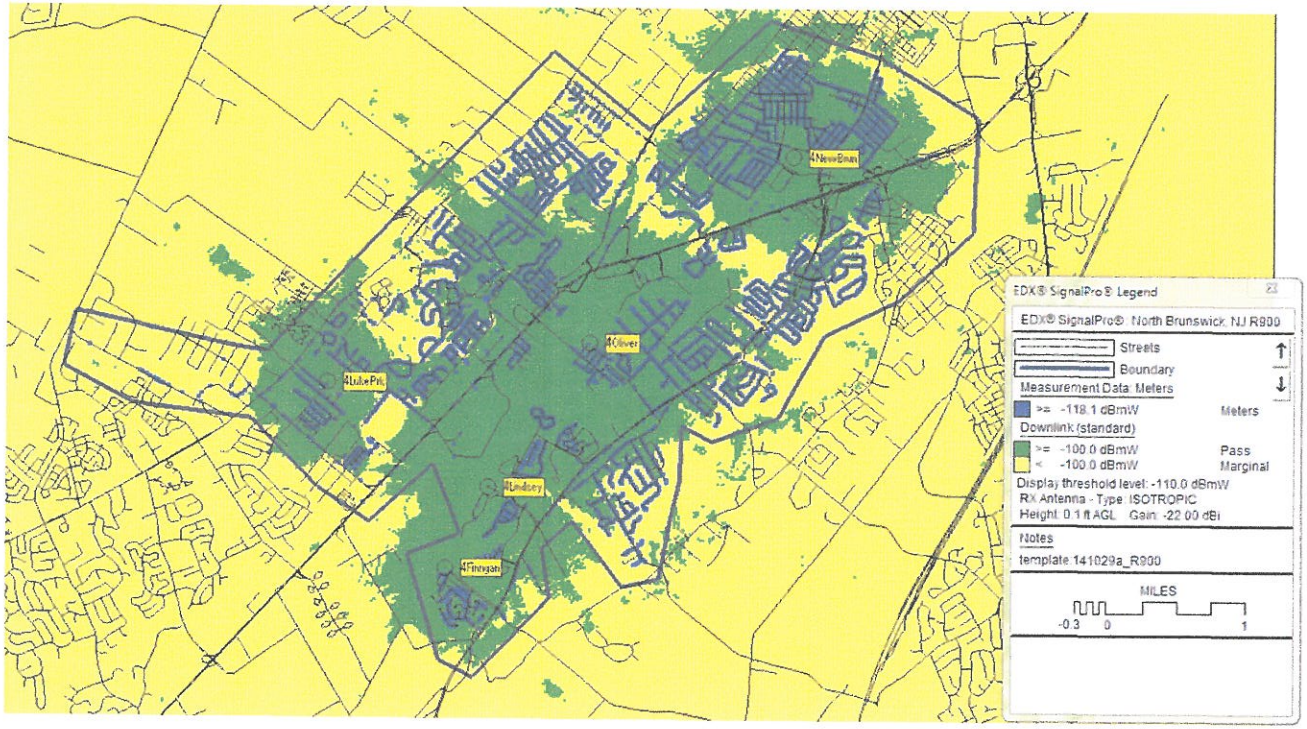
Map 2a: 4 Provided - Wall



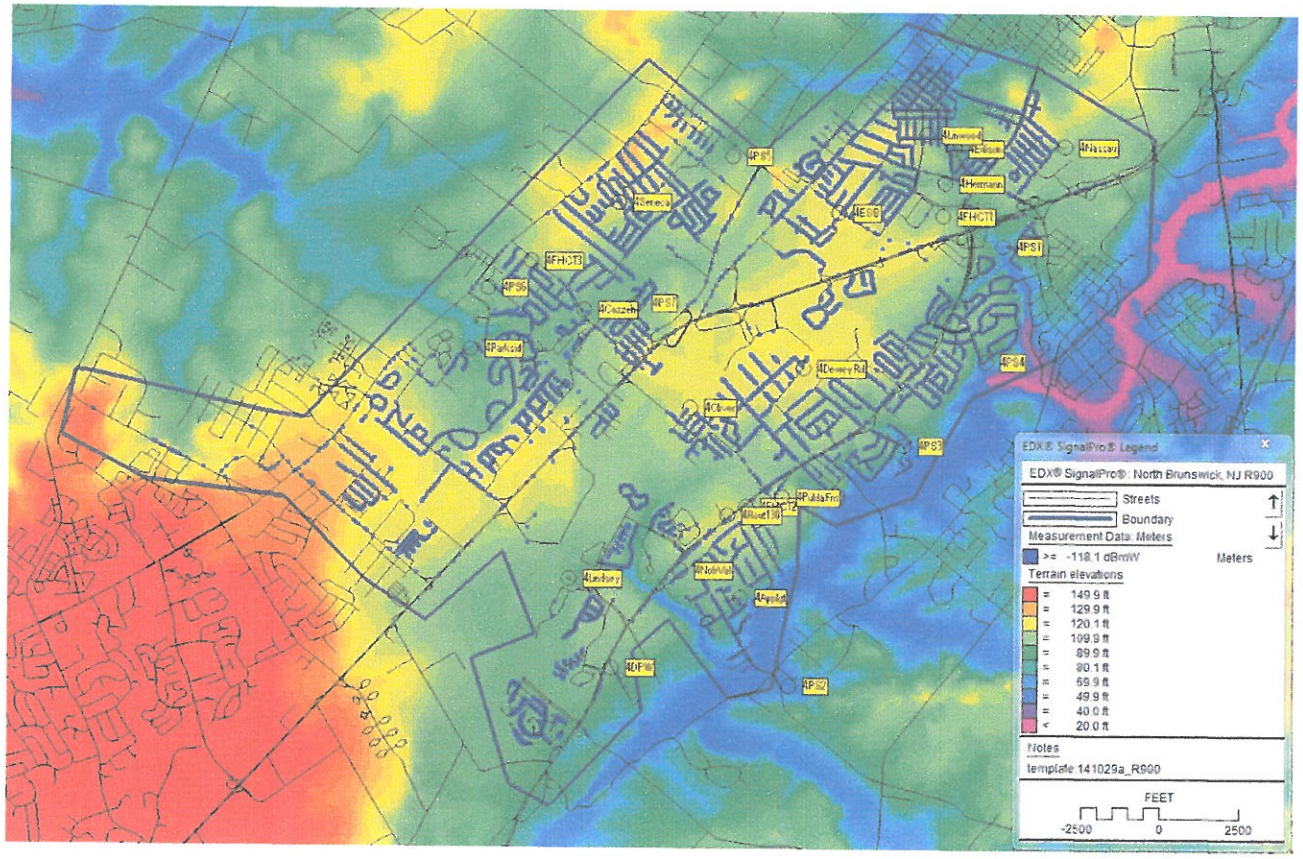
Map 2b: 4 Provided - Inside



Map 3a: 5 Provided - Inside



Elevation Map *(National Elevation Dataset available, courtesy of the U.S. Geological Survey)*



Gateway Locations:

Map	Location	Latitude	Longitude	Collector	Elev(m)	AntHgt(m)	Elev(ft)	AntHgt(ft)	Coax(dB)	AntGain	Antenna
1,2,3,4,5	4Lindsey	40.432268	-74.500326	GPV4	30	49	98	160	2.9	7.1	MFB9155_915
1,2,3,4,5	4NewBrun	40.466599	-74.459267	GPV4	31	46	102	150	2.8	7.1	MFB9155_915
1,2,3,4,5	4Oliver	40.447187	-74.486621	GPV4	36	61	118	200	3.4	7.1	MFB9155_915
3,4,5	4LukePrk	40.44297	-74.522263	GPV4	38	23	125	75	1.6	7.1	MFB9155_915
5	4Finngan	40.423874	-74.506065	GPV4	30	23	98	75	1.6	7.1	MFB9155_915

Predicted Coverage Results:

Map	Description	#Coll	MIUType	#Services	%Services	AreaSqMiles	%Area
1a	3 Provided - Wall	3	R900v4 Wall	10,871	99.27%	12.43	94.32%
1b	3 Provided - Inside	3	R900v4 Inside	6,944	63.41%	6.96	52.81%
2a	4 Provided - Wall	4	R900v4 Wall	10,901	99.55%	12.72	96.51%
2b	4 Provided - Inside	4	R900v4 Inside	7,729	70.58%	7.90	59.93%
3a	5 provided	5	R900v4 Wall	8,051	73.52%	8.15	61.84%