## STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF AMERICAN TOWER CORPORATION (ATC) AND NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT 701 LYDALL STREET MANCHESTER, CONNECTICUT

DOCKET NO. 453

December 18, 2014

# AMERICAN TOWER CORPORATION (ATC) and NEW CINGULAR WIRELESS PCS, LLC (AT&T) RESPONSES TO CONNECTICUT SITING COUNCIL PRE-HEARING QUESTIONS SET I

- Q1. Of the letters sent to abutting property owners, how many certified mail receipts did ATC/AT&T receive? If any receipts were not returned, which owners did not receive their notice? Did ATC/AT&T make additional attempts to contact those property owners?
- A1. Return receipts were received for all but two abutters, Salem Mazzawy and Russell E. Svoboda. Another notice was sent to each of these abutters via first class mail.
- Q2. Would any blasting be required for this site?
- A2. Blasting is not anticipated. Should bedrock be encountered within the confines of the utility trenching or tower foundation construction area, wedging and mechanical hoeram rock removal techniques would be implemented within reason prior to any blasting activities.
- Q3. What security measures would be employed to protect vandalism and unwanted intrusions into the facility?
- A3. In addition to the gated and locked compound, AT&T's shelter is locked and remotely monitored for intrusion 24 hours a day. The fence surrounding the compound is an anticlimb weave chain link fence.
- Q4. What are the frequencies AT&T is licensed to use in the area covered from the proposed facility?
- A4. AT&T is licensed by the FCC to provide wireless communications services throughout the State of Connecticut utilizing the following frequency blocks:

WPWV366 C Block
WQJZ617 E Block
WQJU451 B Block
KNKA239 B Block
KNLG441 D Block
KNLG442 E Block
WPSL626 A Block
WPTF536 C Block
KNLB204 B Block
KNLB297 D Block
KNB312 A Block
WPQL636 C Block

- Q5. Identify the adjacent sites with which the proposed facility would hand off signals. Include addresses of these sites.
- A5. The neighboring sites that the proposed site would hand-off signal are shown in the table below:

AT&T Site ID	Address	Town	Structure Type	
CT1069	130 VERNON ROAD	BOLTON	Monopole	
CT1093	47 MAIN STREET	VERNON	Water Tower	
CT1227	12-14 CARPENTER ROAD	BOLTON	Monopole	
CT5307	53-73 SLATER STREET	MANCHESTER	Monopole	
CT5308	281 HARTFORD TURNPIKE	VERNON	Rooftop	
CT5310	60 INDUSTRIAL PARK ROAD	VERNON	Monopole	
CT5448	239 MIDDLE TURNPIKE EAST	MANCHESTER	Monopole	
CT5819	49 SOUTH ROAD	BOLTON	Monopole	

Neighboring Hand-off Sites

- Q6. What is the existing signal strength in the area AT&T is seeking to cover from this facility? At which frequencies?
- A6. For 700 MHz, the signal strength in the gap is between -93 dBm and -120 dBm. For PCS LTE, that frequency will be deployed in the near future on existing sites. Signal strength in the gap that will be left by deploying PCS LTE on the existing sites is between -96 dBm and -120 dBm.
- Q7. Does AT&T have any statistics on dropped calls or other indicators of substandard service in the vicinity of the proposed facility? If so, what do they indicate?

- A7. AT&T's dropped call data for the area where reliable service is needed, while proprietary, indicates elevated voice and data drops. In addition, data testing indicates that substandard or nonexistent data service is provided within the area identified as a need for this site.
- Q8. What are lengths of the respective coverage gaps on the roads that would be covered from the proposed site? What are the distances that would be covered along these roads from the proposed site?

Vernon Street
Lydall Street
Meadowbrook Drive
Lake Street (State Route 85)
Richard Road
Grady Road

A8. For the roads identified above, the lengths of the coverage gaps and the distances that would be covered along these roads from the proposed Facility at an antenna centerline height of 100' AGL, for each frequency, are shown on the table below.

6	Frequency 700 MHz		Frequency 1900 MHz	
Street Name	Gap	Coverage	Gap	Coverage
	(mi)	(mi)	(mi)	(mi)
Vernon Street	0.98	0.73	1.42	0.99
Lydall Street	1.02	0.27	1.37	0.36
Meadowbrook Drive	1.01	1.00	1.01	0.83
Lake Street/State Route 85	1.89	1.34	2.23	1.06
Richard Road	0.37	0.37	0.37	0.37
Grady Road/School Brook Ln <sup>1</sup>	0.67	0.67	0.67	0.64

Table: Gap Analysis

- Q9. What is the lowest feasible height at which AT&T's antennas could fulfill the coverage objectives from the proposed facility? What problems would result if AT&T were to install antennas at a lower height? Submit a propagation map showing the coverage at ten feet below this height.
- A9. The minimum centerline required to meet the targeted coverage objectives for this search area is 100 AGL. As shown in the propagation maps included in Attachment 1 titled: "Existing with Proposed @ 90' 700 MHz LTE Coverage" and "Existing with

<sup>&</sup>lt;sup>1</sup> Grady Road turns into School Brook Lane and vice-versa. Therefore, the gap statistics shown in Table 2 above reflect composite values for these two roads.

- Proposed @ 90' 1900 MHz LTE Coverage", at the reduced height, substantial in-building and road coverage are lost within the targeted area.
- Q10. How would AT&T provide backup power for its equipment at the proposed facility? What kind of fuel would the backup generator use? How many hours of service would the generator be able to provide before it needs to be refueled?
- A10. American Tower Corporation (ATC) is providing emergency back-up power at the proposed facility. ATC plans to install an 80kW diesel back-up generator for shared use. Based on a standard tank of 305 gallons, the back-up generator will provide approximately 89 hours of service.
- Q11. Would AT&T's backup power equipment include any provisions for the protection against fuel spills?
- A11. As noted in A.10, the emergency back-up generator will be provided by ATC. The proposed diesel generator includes a double-walled fuel tank to prevent spills. In addition, ATC remotely monitors emergency generators at all times. Thus, an alarm will sound if any fuel enters the outer fuel tank.
- Q12. Has ATC considered providing one backup power source capable of supplying backup power to all tenants of the proposed facility?
- A12. Yes, please see A.10.
- Q13. Would AT&T be amenable to sharing a backup generator with other tenants of the proposed facility?
- A13. Please see A.10.
- Q14. How many carriers would the tower be designed to accommodate? Would the tower be designed to be extendible?
- A14. The monopole can be designed to accommodate up to four carriers which may include future expansion.
- Q15. Is the proposed site near an "Important Bird Area" as designated by the National Audubon Society?
- A15. Audubon's Important Bird Areas (IBA) Program is a global effort to identify and protect habitat that will protect sustainable populations of birds. The IBA program is overseen by BirdLife International, with the National Audubon Society as the partner designate in the United States, and has become a key component of many bird conservation efforts, including, Partners in Flight, North American Waterbird Conservation Plan, and the U.S. Shorebird Conservation Plan.

The Site is not near a designated IBA. As shown on the figure included in Attachment 2, the closest IBA is the "Station 43 Marsh/Sanctuary" located on the Connecticut River, 7.4 miles west-northwest of the Site.

- Q16. Would the proposed facility comply with recommended guidelines of the United States Fish and Wildlife Service for minimizing the potential for telecommunications towers to impact bird species?
- A16. The proposed monopole tower will be built within a 50' x 50' fenced compound, and will include a 1550' x 25' access/utility easement (collectively known as the project area). The project area and tower structure are not located near a known migration route within a flyway. Upon our site investigation, it was determined that the project area is not located in an National Wetlands Inventory (NWI) mapped wetland, waterway, wildlife refuge, national wilderness area, native grassland or forest area, ridge-line, mountain top, coastline or area commonly known to have high incidences of fog or low clouds, where migratory birds may be found.

Per the interim guidelines of the FCC Programmatic Environmental Assessment of the Antenna Structure Registration Program (FCC PEA), implemented on June 18, 2012, towers over 450' in height require additional environmental review for potential migratory bird concerns. This tower will be 105' in height, which is below the FCC PEA height threshold. In addition, the TOWAIR report included in the Application indicates that no lighting per FAA regulations will be required. Furthermore, this tower will be constructed to accept future collocations, thus reducing the need to build additional towers within the immediate project area, and will not be constructed with guy wires.

ATC's consultant, Dynamic Environmental Associates, Inc ("DEA") has concluded that there is minimal potential for the proposed project to have a significant effect on migratory bird species, and to the extent applicable, that this project adheres to the guidelines set forth in the United States Fish & Wildlife Service's "Service Interim Guidelines For Recommendations On Communications Tower Siting, Construction, Operation, and Decommissioning."

- Q17. Provide a map showing any alternative access routes/utility runs that were considered for this proposed facility.
- A17. Two alternative routes were evaluated to access and provide utility services to the proposed telecommunication facility. These alternatives are shown on the Alternative Access Map provided in Attachment 3. The reasons they were not considered are as follows:

Alternative A – This access and utility routing would commence at the cul-de-sac at the end of Deer Run Trail (northeast of the proposed facility) and extend to the proposed facility. This access is located within a dense wooded area and would require the

removal of numerous mature trees. Furthermore, construction traffic and activities in and out of this area would be immediately adjacent to existing residential properties. The access and utility routing as proposed only require limited tree trimming, no mature tree removal and maintains access/utility construction on the host parcel.

Alternative B – This access would commence at the cul-de-sac at the end of Leo J Lane (east of the proposed facility) and run westward to the proposed facility. This access is located within a dense wooded area and would require the removal of numerous mature trees. In addition, this routing would require wetlands crossing/disturbance. The access and utility routing as proposed will have the least potential environmental impact (mature tree removal and wetland disturbance) and maintains access/utility construction on the host parcel.

- Q18. Are there any Public Safety Answering Points within the coverage area of the proposed facility that are able to accept text-to-911 service?
- A18. AT&T and this facility will be able to support text-to-911 service once this functionality is supported and requested by the Public Safety Answering Point (PSAP). AT&T is not aware that this functionality had yet been requested for this area.
- Q19. When was the search ring for this proposed facility issued? What were the general boundaries of the search ring?
- A19. AT&T issued a search ring for this area in late May of 2013. Included in Attachment 5 is AT&T's search ring map.
- Q20. Who is the owner of the property at 277 Deer Run Trail?
- A20. The owner of 277 Deer Run Trail is Maureen R. Couvares (Mailing Address: 277 Deer Run Trail, Manchester, CT 06042).
- Q21. Characterize the land use within ¼ mile of the proposed facility.
- A21. Land use within ¼ mile of the proposed facility, not including the subject property, is dominated by developed residential properties. Please refer to the Land Use Map included in Attachment 4 which depicts the character of the surrounding area. Undeveloped, primarily wooded land that is located north and south of Deer Run Trail to the northeast of the proposed facility is owned by the Manchester Land Conservation Trust. This conservation land, known as Lydall Woods, encompasses approximately 30 acres for passive recreational use.

#### **CERTIFICATE OF SERVICE**

I hereby certify that on this day, an original and fifteen copies of the foregoing was sent electronically and by overnight mail to the Connecticut Siting Council.

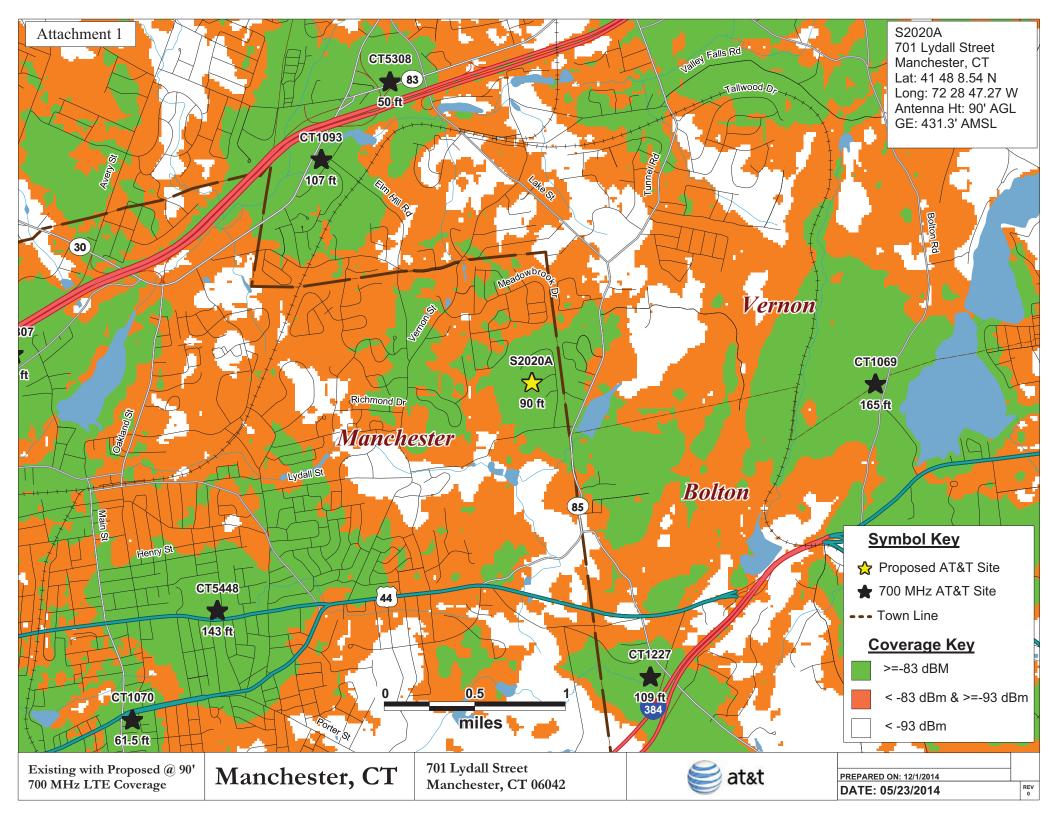
Dated: December 18, 2014

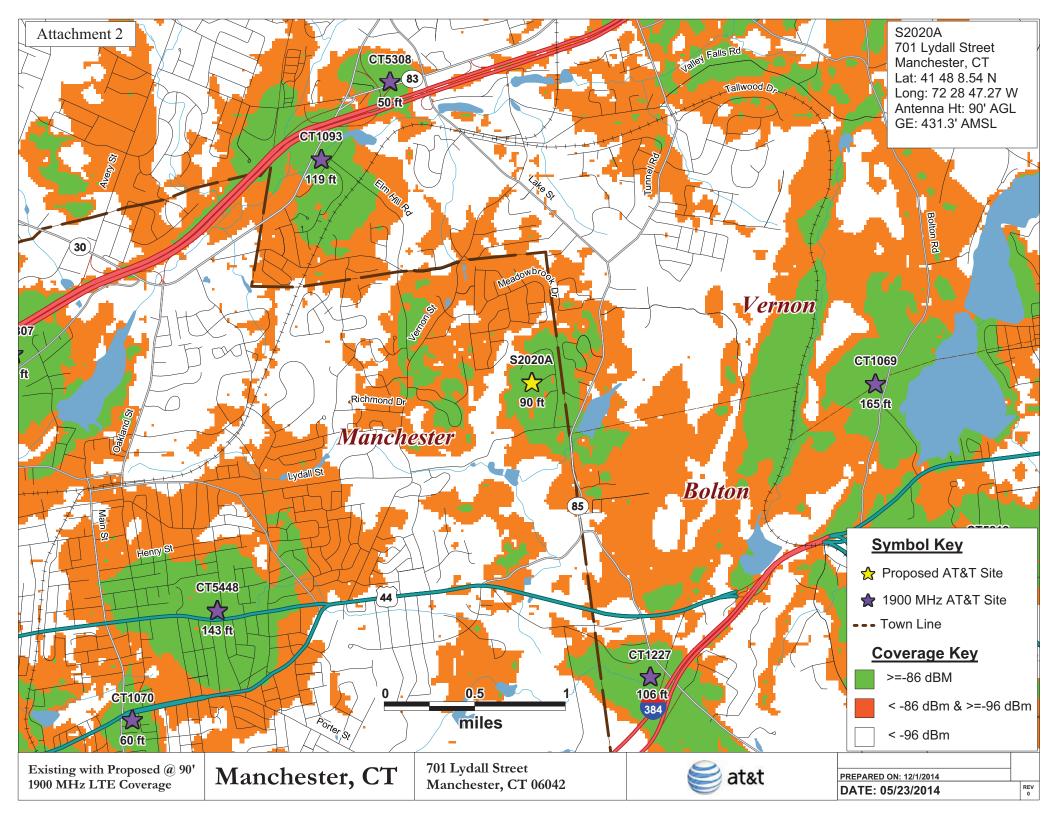
Lucia Cinoccino

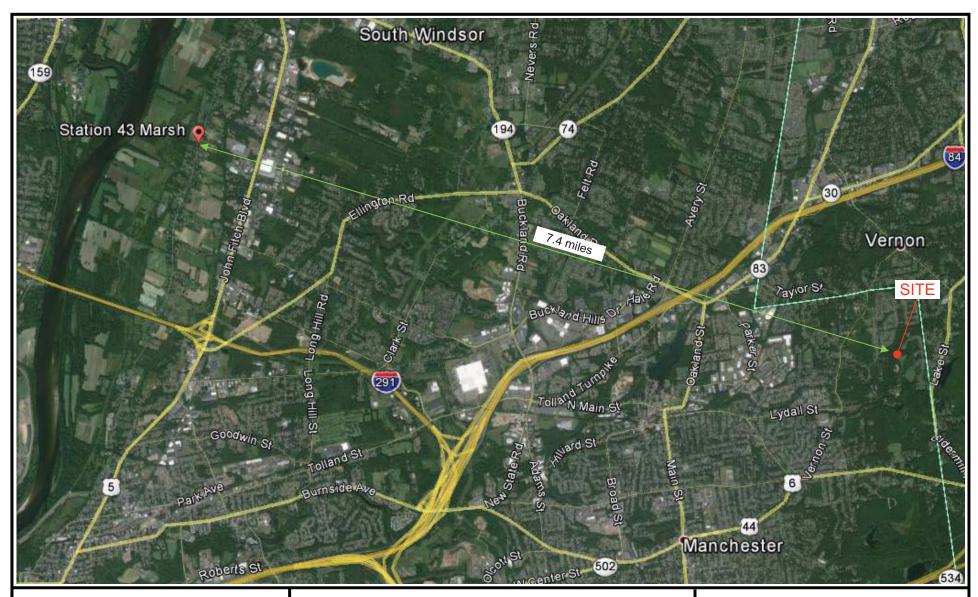
cc: Blake Paynter, ATC

Michele Briggs, ATC

Jennifer Young Gaudet, HPC Wireless









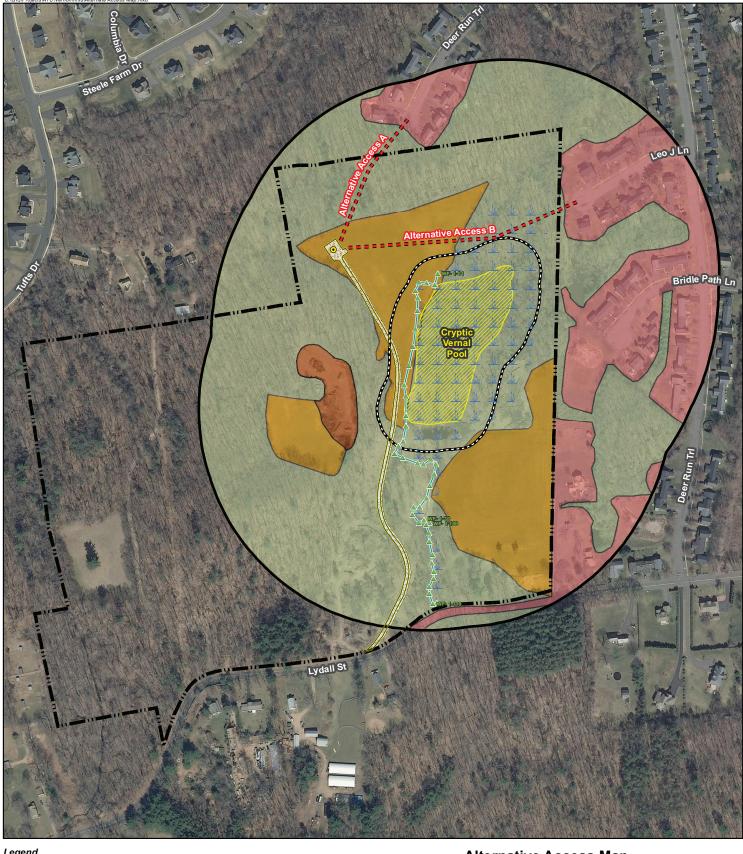
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## **IMPORTANT BIRD AREAS MAP**

Vernon Risley Site ATC Site #: 281539 701 Lydall Street Manchester, CT Date: 12/09/2014

CONSULTANT PROJ. #: 21406020





Hayfield

Forested

#### Legend

Proposed Tower Location

Proposed Facility Layout Proposed Disturbance Limits

Alternative Access

Approximate Subject Parcel Boundary Cryptic Vernal Pool

100' Vernal Pool Envelope 100'-750' Critical Terrestrial Habitat Area

Base Map Source: ESRI Ortho Imagery map service Map Scale:1 inch = 350 feet Map Date: December 2014

#### Critical Terrestrial Habitat

Developed Undeveloped Small Quarry Operation

Developed

Wetland Flag

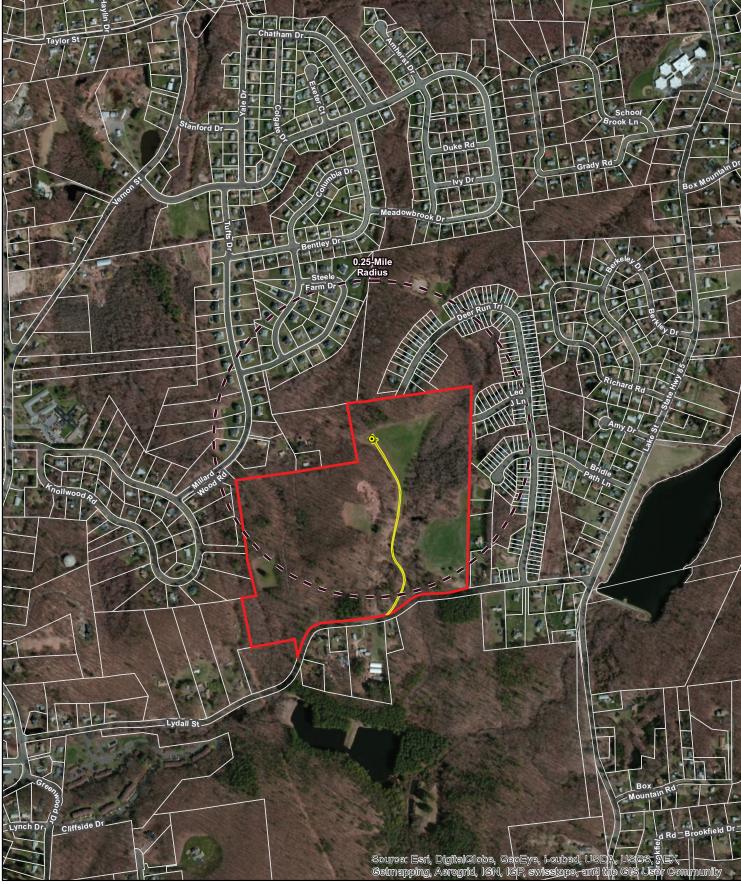
**Delineated Wetland Boundary** 

Wetland Area

#### **Alternative Access Map**

Proposed Wireless Telecommunications Facility Manchester Risley 701 Lydall Street Manchester, Connecticut





#### Legend

Proposed Tower Location

0.25-Mile Radius

Map Scale:1 inch = 800 feet Map Date: December 2014

Proposed Facility Layout

Approximate Parcel Boundary (CTDEEP)

Approximate Subject Parcel Boundary

Base Map Source: ESRI Ortho Imagery map service



#### **Land Use Map**

Proposed Wireless Telecommunications Facility Vernon Risley 701 Lydall Street Manchester, Connecticut



### ATTACHMENT 5

