



Town of Middlefield Municipal Light Plant

Chester Fire Tower Benefits

Access to the Chester fire tower would provide the Middlefield wireless network with several opportunities to deliver greater connectivity at an estimated savings of at least \$52K.*

Even a spot near the 50 foot level of the Chester tower would:

- Provide line of sight to dozens of homes, reducing the need for expensive TV White Space equipment and replacing at least two poles with their associated equipment, for about \$20K in net savings.
- Reach two poles on East River Road that would obviate the need for a half-mile fiber run past Glendale Falls (or a large monopole planted in granite near the environmentally-sensitive site), for a savings of \$25K.
- Facilitate backhaul between poles and towers.
- Allow for the use of shorter poles on Chipman Road and Chester Road, saving approximately \$7K.
- Foster regional solutions via access to locations in North Chester & Worthington.

All told, access to the high location would save thousands of dollars in construction costs, foster regional rationalization, and simplify the installation of high-quality access across the Town.

* The installation would entail:

- Several 15" backhaul dishes, facing the Transfer Station, East River Rd, Chester Rd, and other potential locations.
- A 5 GHz sector antenna, approximately 663 mm tall and a 410 mm wide, and a 900 MHz sector antenna, approximately 880 mm tall and 288 mm wide.