



April 27, 2007

**Clearwire CA-SAC144 “Watt & 50”
County of Sacramento, Conditional Use Permit
Project Description / Justification Statement**

About Clearwire:

Clearwire is a national wireless high-speed Internet access provider that offers portable and reliable broadband Internet solutions to residential and small business customers.

As part of a nationwide build-out initiative, Clearwire is developing a network to cover the entire Sacramento metropolitan area. Clearwire has already launched service in 35 markets, covering more than 350 cities and towns in Alaska, California, Florida, Hawaii, Idaho, Minnesota, Nevada, North Carolina, Oregon, Texas, Washington and Wisconsin in the United States, as well as Ireland, Belgium, Denmark (under the Clearwire name with Danske Telecom) and Mexico (via our partner MVSNet).

Clearwire offers a Wi-MAX class solution, utilizing next-generation, non-line-of-sight wireless technology. Customers use Clearwire to connect to the Internet using licensed spectrum, thus eliminating the confines of traditional cable or phone wiring. The tower equipment transmits radio signals from a base site to a small, wireless modem the size of a paperback book, which easily connects the user's computer to the Internet. Additional information on Clearwire is attached and more can be found at www.clearwire.com.

Project Description:

The proposed Clearwire facility is located at 8880 Cal Center Drive, Sacramento, California on an existing commercial office building. Clearwire's antenna array will be flush-mounted to the parapet screen wall and will not protrude above the wall. The antenna array will consist of six panel antennas, six BTS units (signal enhancement devices) and six 2' microwave dishes. All antennas and ancillary equipment will be painted to match the existing color of the building. The one 50"H x 25"W x 25"L equipment cabinet (about size of legal size file cabinet) will be located on the roof within the existing parapet screen wall, and will not be visible from the street.

Clearwire's wireless internet sites are different from cellular carrier's network requirement. A cellular network requires each site to be linked to adjacent sites to provide continuous service. Clearwire sites are stand alone facility providing broadband internet service to a 2 to 3 miles radius from the location. Each individual site collects internet signal from users and then transmits/receives signals via microwave from a central hub location. Attached for additional information is a coverage map of the CA-SAC144 "Watt & 50" location and master plan map of the anticipated Clearwire sites necessary to provide comprehensive coverage to the County of Sacramento.

Clearwire Technology:

Clearwire deploys a WiMAX-class solution, utilizing next-generation, non-line-of-sight (NLOS) wireless technology that uses OFDM transmission protocol, featuring a design standard that includes secure wireless data transmission. Clearwire operates on licensed FCC 2.5 GHz frequencies. For the Sacramento market Clearwire controls the following frequencies WHG370, WSL88, WHR512 and WLZ720.

The company sends its signal from an antenna transmitter on a tower, monopole or roof top to a specially developed receiver box. The receiver box plugs into an electrical outlet or other power source and into a computer via an Ethernet cable to provide high-speed access to the Internet. The modem is compatible with most PC and Macintosh computers and requires no additional software or hardware installations.

Tests of the modem show Clearwire can provide service at up to 1.5 Mbps download and up to 256 kbps upload speeds, which is comparable to DSL and cable service and up to 25 times faster than typical dial-up connections.

The portable Clearwire service can be moved from place-to-place inside Clearwire's coverage area, which allows customers to use the service throughout their home, office or favorite coffee house. As long as there is a power source, Internet access is available in any Clearwire service area.

Summary:

The Clearwire collocation has been designed for minimum visual impact by flush mounting the antenna array on the existing parapet screen wall. Clearwire will be offering "state of the art" wireless broadband internet service over secure FCC license frequencies for the entire County of Sacramento, much of Northern and

Central California and many other regions in the United States. This is significantly different from the local WiFi hot spots found at local coffee shops.

For specific information, please review the attached plans, photo simulation and other related documents. If you have any questions, please contact me at 916.601.1123

Sincerely,

Jennifer Walker
Planning Manager, Representative for Clearwire