



CASE STUDY



conserving water. protecting the environment



ITHACA, NY

CASE STUDY

LOCATION:

Cornell University - Ithaca, NY

PROJECT SCOPE:

Lake source cooling project

APPLICATION:

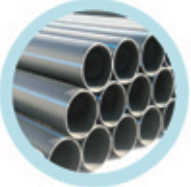
Two mile long, 63-inch HDPE pipeline 63-inch (1600 mm)

PROJECT DATES:

1999 - 2000

KEY CONTACTS:

Makai Ocean Engineering, designers of system



SUMMARY

Cornell University is situated on the southern shores of deep, cool Cayuga Lake. When the campus' conventional air conditioning system was ready for replacement, Cornell decided to draw the 39°F water from a 250-foot depth.

The cool water intake design utilized 10,400 feet of 63-inch (1600 mm) HDPE pipe. The pipe was manufactured to stand the test of time, with a wall thickness greater than three inches. The 58-foot lengths of pipe were butt fused on shore, forming 2,000-foot continuous leak-free pipeline sections.

These prefabricated sections were then flanged together and with the aid of concrete ballast weights, sunk into position on the lake bottom. The entire cooling loop was completed and installed in 1999 and became fully operational in August 2000.

Source: KWH pipe, September 17, 2004

*Please do not hesitate to contact the Alliance with any questions or comments.
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