



FIRE DEPARTMENT:

Montour Fire Department,
Montour, IA

APPLICATION:

TetraKO water enhancer is tested twice on a garage fire in Iowa with firefighters representing Montour, Tama, LeGrand, Haverhill, Green Mountain and Hiawatha Fire Departments.

SUMMARY:

A group of Iowa fire departments invite TetraKO to participate in an abandoned garage fire test. TetraKO is assessed for knockdown performance as well as structure protection. The conditions are hot and windy, but TetraKO meets the challenge.



FIRE INCIDENT REPORT #10:

I've been with the Montour Fire Department for 28 years and I am also an EMT with our first responders. My current position is maintenance captain. We have a lot of grassland fires in the fall, and also railroad right of way fires. Those are our two biggest challenges.

Water supply is a big concern in our area, as it is in many parts of the country. The water mains are old and have a small diameter, and we cannot pump direct from any of our mains. We rely on portable folding tanks, and pump from them – even on a structural fire in town. Otherwise, we have to transport from neighboring towns. TetraKO appeals to us because of that.

We tested TetraKO on an abandoned single stall garage with a big fuel load inside – mostly cardboard and wood. The garage was located no more than eight feet from an adjacent garage that the property owner wanted to save. To complicate matters, the wind was blowing towards that garage. Our guys coated the garage we wanted to protect with TetraKO on the sides and front exposures.

Firefighters lit the first fire and let it get roaring really strong, so that the flames were well over the garage peak. We had one fire team, using a 1 1/2-inch hose, hit it and I don't think they used more than 15-20 gallons at most. **You could see the smoke change color and the steam conversion happen – and they were able to walk in after less than a minute. It was a really impressive knockdown!**



Despite the intense heat and flame, all we observed was a little blistering on the old siding.

The second burn in that same garage involved a fuel load that included more than a trailer load of siding with a Styrofoam backing that we threw in there – and that stuff burns hot and nasty. We let the fire get rolling really good. It took a little more to knock it out, but not much more. I don't think we used over 40 gallons of TetraKO solution at the most. That one was equally impressive!

When the north wall of the garage collapsed, it fell to within 3-4 feet of the garage we wanted to protect. But despite the intense heat and flame, all we observed was a little blistering on the old siding. The TetraKO protected the structure. Afterward, all I heard was very good feedback from the firefighters who attended.

—Mike Buchanan, Maintenance Captain
Montour Fire Department



Better Solutions...Naturally!

EarthClean Corporation
120 Bridgepoint Way, Suite A
South Saint Paul, MN 55075
844-838-7256 • EarthClean.com