

RFI411.org — Subject: **Plastic Open Relay Manifold**

**Miramichi, New Brunswick, Canada — Water-on-Wheels Class**  
Tanker filling operation— 3 portable pumps manifolded to fill porta-tank



During an RFI WOW class conducted in conjunction with the New Brunswick Department of Natural Resources, we had the opportunity to use the plastic pipe manifold built by DNR personnel.



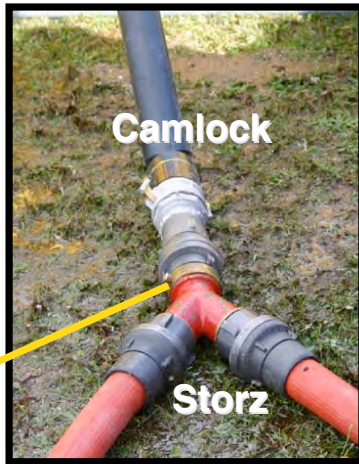
Here, the manifold is supplied by two 2-1/2" hoselines from the 2 portable pumps to supply water to the porta-tank from which the 1000-gpm fill engine drafts to supply the 4" tanker fill line.

The manifold is designed to be high enough to fill frameless porta-tanks (pumpkins) used for filling "bambi buckets" for wildland firefighting.



The manifold is made of short components to allow for portability. Each component is made using ABS plastic pipe and camlock fittings.

## Open Relay Maximizes Portable Pump Output



To simplify connections and save time, the 2-1/2" threaded siamese is equipped with Storz and camlock adapters.



Two Honda portable pumps draft water from a stream and pump it through 2-1/2" hose to the manifold.



Overview of tanker fill site — firefighter (orange coveralls) operates 4" x 2-1/2" manifold to fill tankers.