

RFI411.org — Subject: Plastic Portable Pump Manifold

Miramichi, New Brunswick, Canada
Portable Pump Manifold for Tanker Fill Operations



Overview of Fill Site

The New Brunswick, Canada, Department of Natural Resources fabricated a manifold from ABS plastic pipe and camlock couplings to supply water from portable pumps to a porta-tank (an open relay) from which a tanker fill pumper drafts.



Open Relay

Two portable pumps drafting from a stream inaccessible to a draft pumper supply water to the porta-tank via the manifold. The open relay operation allows the pumper to fill tankers at a higher flow than the portable pumps could deliver if their discharge lines were connected to pumper intakes. This is because of the water stored in the porta-tank.



Portable Pumps

Two Honda portable pumps draft from stream and pump through 3" hoses to manifold at porta-tank.

A Simple and Inexpensive Innovation



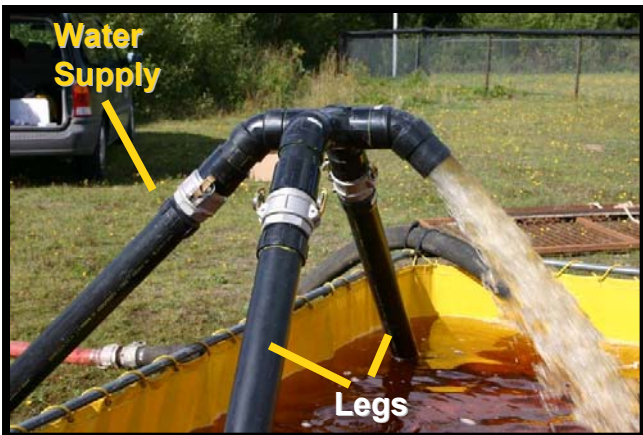
Manifold

Manifold is designed with legs that elevate discharge so it can be used with porta-tanks for tanker ops or for filling self-supporting “pumpkin” tanks for filling bambi buckets for air attack of wildland fires.



Siamese

3” portable pump discharge lines connect to siamese at base of manifold



Detail

The manifold was designed so it can be carried in small pieces that can easily be assembled. Camlock fittings speed assembly and disassembly.