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Big Water Test Data

Liquid Trans Hydro Mini
Tanker Fill Test/Bridge Deployment
Winfield, Maryland
May 2004

Facts & Figures...

- During May 2004, Larry Davis, VP of GBW Associates, LLC led a series of performance tests and operational demonstrations on the Liquid Trans Hydro Mini. This presentation is a brief summary of a test involving the use of the Mini off of a bridge to fill a 3,500-gallon tanker.
- The test was conducted in Winfield, Maryland where the Mini was deployed over a bridge and used to fill a 3,500-gallon elliptical tanker.
- The lift at the bridge was 20 feet.

The Test Site



The test site was a bridge over a stream
in Winfield, Maryland.

A 20-ft Lift From Water to Rail



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Liquid Trans Hydro Mini Tests

Mini Gets Into Position



Mini Gets Into Position



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Liquid Trans Hydro Mini Tests

A Bridge Deployment is Needed



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Liquid Trans Hydro Mini Tests

Bridge Roller is Used



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Bridge Roller in Place



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Liquid Trans Hydro Mini Tests

Mini is Ready to be Lowered



Mini in Position



Lowering Begins



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Liquid Trans Hydro Mini Tests

Mini is Lowered



100-ft of 5" hose is used

Mini is Lowered



Pump is in Water

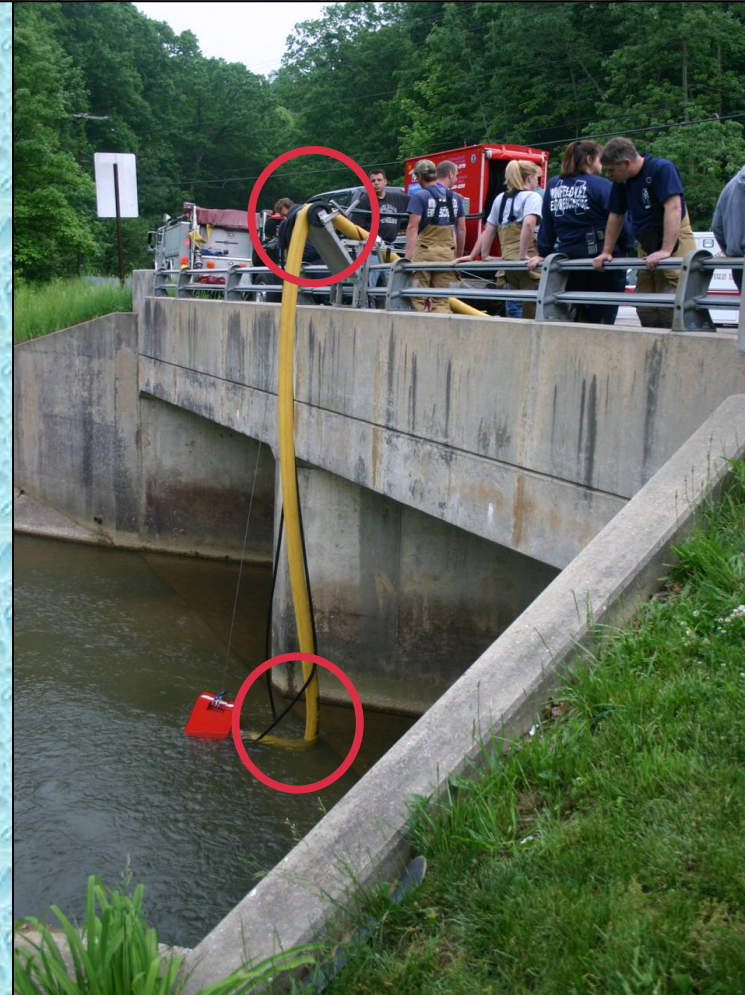


Pump Levels Out



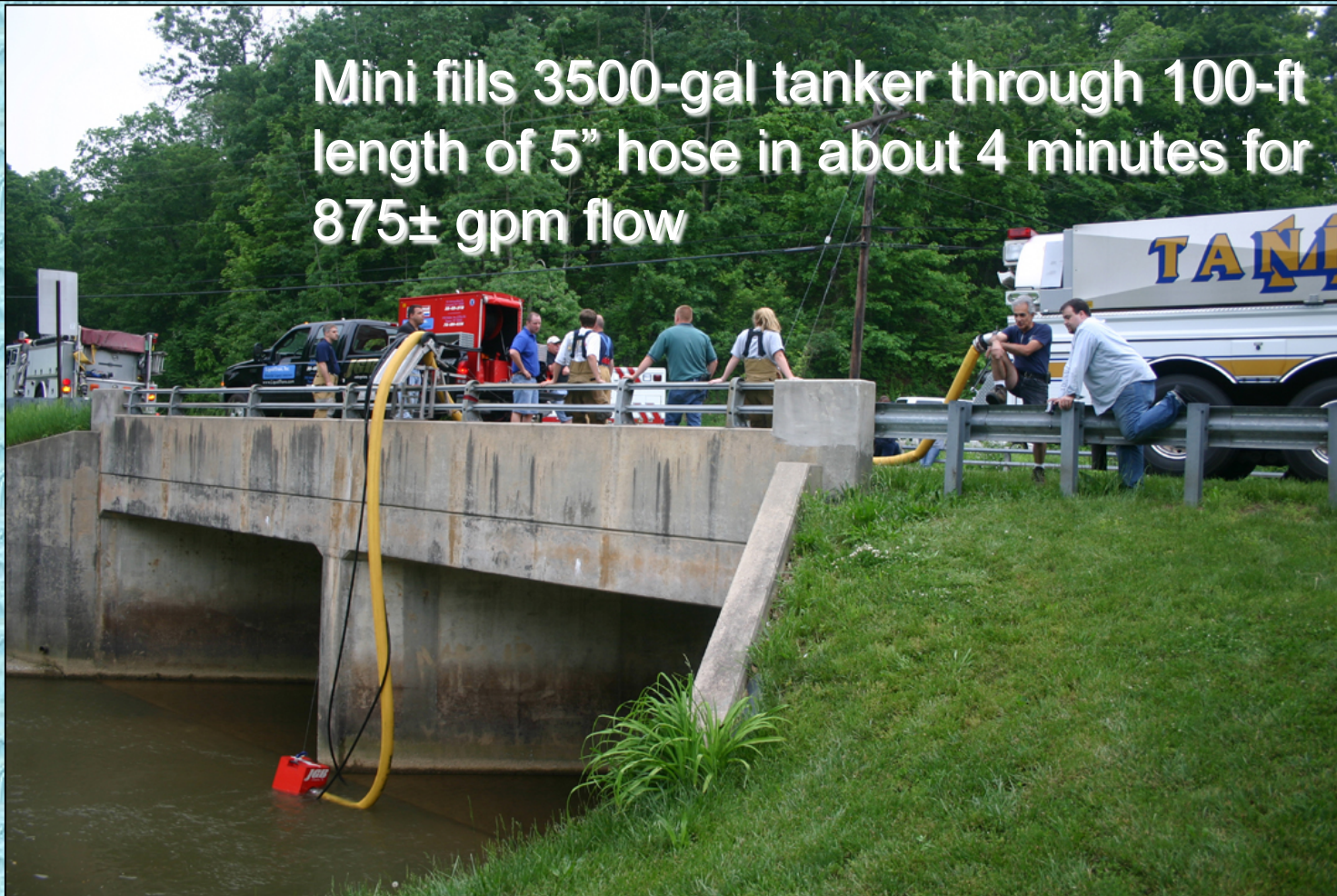
A Bit of a Problem

Pump in water with 5" discharge line — notice kink at pump and crimp in hose at roller



Tanker Fill Operations Started

Mini fills 3500-gal tanker through 100-ft length of 5" hose in about 4 minutes for 875± gpm flow





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