PITTSBURG TANK & TOWER GROUP
MAINTENANCE DIVISION Since 1919

1 Watertank Place
PO Box 1849
Henderson, KY 42419
P: (270) 826-9000
F: (270) 767-6912
www.pttg.com

**Town of Henderson WD #1**
**12105 Town Barn Road**
**Henderson, New York 13650**
**RE: Town of Henderson WD #1**
**125,000 Gallon WSP**
**May 20, 2026**
**Dustin Clark**
**Town Engineer**
**(315) 938-7434**
**Job No. 324329**

Photo shows the tank is secured with fencing. There is no signage on the fence. We recommend posting a **Warning, Tampering With This Facility is a Federal Offense** (US code title 42, section 300i-1) sign and a **No Trespassing** sign.

Photo shows the area around the tank foundation is properly graded and in compliance with AWWA D100-21; 12.7.1 Height aboveground.

Photo shows the condition of the foundation. NFPA 22-2018; 12.2.1.2 states, "… the junction of the tank bottom and the top of the concrete foundation shall be tightly sealed to prevent water from entering the base." We recommend caulk/grouting around the base of the tank to foundation connection to prevent water from entering under the tank, then sealing the foundation with a sealant.

Photo shows the tank has no grounding system. NFPA 780-2020; 7.3.7.3(3) states, “A tank shall be grounded though a minimum of two (2) grounding electrodes.” We recommend installing two (2) grounding assemblies.

Photos show the condition of the tank site. **Notice the vegetation growth around the tank foundation.** This could lead to deterioration of the structural components of the tank. OSHA 1910.176(c) states, “Storage areas shall be kept free from accumulation of materials that constitute hazards from tripping, fire, explosion, or pest harborage. Vegetation control will be exercised when necessary.” We recommend removing the vegetation from around the tank foundation. This should be done by others.

Photo shows one (1) of the seventeen (17) anchor bolts, which appear to be in good condition.

Photos show the 8” overflow pipe system, which is not equipped with a flapper valve as required by AWWA D100-21; 5.3: Overflow. We recommend installing a flapper valve and new screen on the existing overflow pipe elbow.

Photo shows the condition of the 34” x 78” base cone door. The base cone door requires the following to be in compliance with OSHA 1910.146(c)(2) Confined spaces.

We recommend:

Post **Confined Space Entry** sign

Base cone ladder in above photos is 16” wide in compliance with OSHA 1910.23 Ladders and AWWA D100-21; 5.4.2: Ladders. We recommend posting a **Fall Protection Required** sign at the base of the ladder.

Photo shows the condition of the piping insulation. We recommend replacing damaged pipe insulation, as needed, to prevent pipes from freezing.

Photo shows the first platform, which appears to be in good condition.

Stem access ladder in above photo is 16” wide in compliance with OSHA 1910.23 Ladders and AWWA D100-21; 5.4.2 Ladders.

Photo shows the 24” painters hatch, which appears to be in good condition.

Photo shows the 18” x 24” cleanout hatch, which appears to be in good condition.

Access tube ladder in above photo is 16” wide in compliance with OSHA 1910.23 Ladders and AWWA D100-21; 5.4.2 Ladders.

Photos show the tank interior dry area coating system. The overall tank interior dry area coating system appears to be in good condition. We recommend pressure washing the tank interior dry area with TSP detergent injection (minimum 3,500 psi at 3.0 gpm) then re-evaluating the tank interior dry area at next inspection cycle.

Photo shows the access tube hatch, which appears to be in good condition.

Photo shows the condition of the primary roof hatch. Roof openings on this tank require the following to be in compliance with AWWA D100-21; 5.4.3 Roof openings and OSHA 1910.146(c)(2) Confined spaces.

We recommend

Post **Confined Space Entry** sign
Install lock on primary hatch

Primary interior access ladder in above photo is 16” wide in compliance with OSHA 1910.23 Ladders and AWWA D100-21; 5.4.2 Ladders.

Photo shows the condition of the secondary access point / fan mount. Roof openings on this tank require the following to be in compliance with AWWA D100-21; 5.4.3 Roof openings and OSHA 1910.146(c)(2) Confined spaces.

We recommend:

Post **Confined Space Entry** sign

Photos show the condition of the existing roof vent. NFPA 22-2018; 4.15.5 states, “The screen or perforated plate shall be protected against the accumulation of sleet.” This vent is allowing the ingress of rain and wind-borne contaminants into the water system. **An improperly vented tank may cause external pressure to act on the tank which can cause buckling even at low pressure differential.** We recommend replacing the existing roof vent with a vacuum-pressure, frost proof vent and screen.

**This work should be performed on an emergency basis.**

Photo shows the antenna system located on top of the tank. We recommend performing a structural analysis to determine whether or not the tank can support the weight of the antenna system.

Photos show the tank exterior coating system. The overall exterior coating system appears to be in good condition. We recommend pressure washing the tank exterior with biodegradable detergent injection (minimum 3,500 psi at 3.0 gpm), then re-evaluating the tank exterior at next inspection cycle.

Photo shows the tank interior. A temperature difference between the water in the top and bottom of a tank, even as little as 1-2 degrees Fahrenheit, is an indication of thermal stratification and the tank water not being completely mixed. Incomplete mixing would result in short-circuiting, and localized increase in water age would develop inside the tank. This typically leads to water quality problems, such as loss of residual, DBP spikes, HPC spikes, bacteria regrowth, formation of bio-film, changes in pH and dissolved oxygen. We recommend installing a mixing system. Electrical work to be done by others if required.

Photo shows a suction pipe on the interior of the tank, which is equipped with an anti-vortex assembly to prevent formation of a vortex.

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**RE: Town of Henderson WD #1**
**125,000 Gallon WSP**
**Job No. 324329**

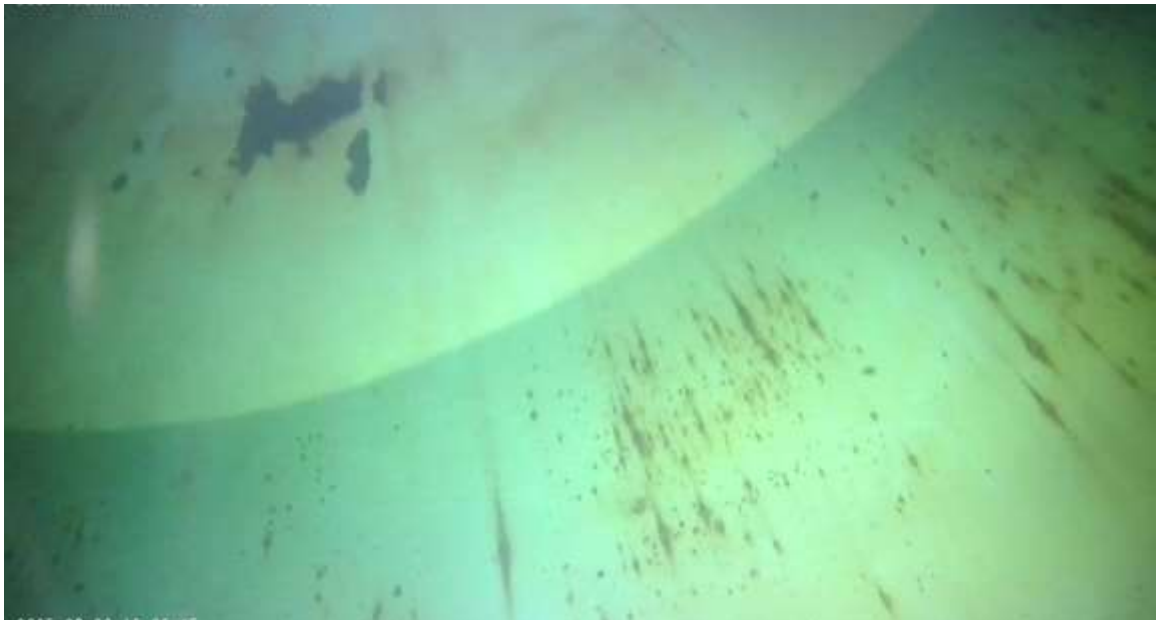
Photo shows sediment in the tank. Silt ingested into the sprinkler system can clog the sprinkler heads, rendering the system deficient. We recommend performing a dry interior cleanout to prevent damage to the sprinkler system.

**This work should be performed on an emergency basis.**

**Please note price for interior cleanout is based on removing 1" – 3" of sediment. Any additional accumulation discovered will be removed in the amount of $300 per hour. In the event the tank has to be drained, tank will need to be drained by the owner, prior to our arrival.*

We further recommend installing a passive cathodic protection system.

**Due to slope in bottom of tank, a robotic in-service cleanout cannot be performed.**



Photos show the condition of the interior wet area coating system. We recommend abrasive blasting all rusted and abraded interior wet areas to SSPC-SP10 (near white), and brush blasting all remaining interior wet areas to SSPC-SP7; then applying one (1) spot coat of epoxy primer to all areas blasted to #10, stripe coating all weld seams, and applying an epoxy liner to the entire tank, to achieve 8 to 10 mils of total dry film thickness. Total mil thickness will include a combination of the existing and new coating.

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# WATERSPHERE INSPECTION REPORT

JOB NO: 324329 INSPECTOR: Blake Collins (KW)

TANK OWNER: Town of Henderson WD #1

OWNER'S REPRESENTATIVE: Dustin Clark

TITLE: Town Engineer

MAILING ADDRESS: 12105 Town Barn Road, Henderson, New York 13650

PHYSICAL ADDRESS: 12105 Town Barn Road, Henderson, New York 13650

E-MAIL: dclark@bartonandloguidice.com

CITY, STATE: Henderson, New York ZIP: 13650 COUNTY: Jefferson County

TELEPHONE: (315) 938-7434 FAX: Not Provided

LOCATION OF TANK: 9330 NYS Route 3, Henderson, New York 13650

**Town of Henderson WD #1**
**12105 Town Barn Road**
**Henderson, New York 13650**
**May 20, 2026**
**Dustin Clark**
**Town Engineer**
**(315) 938-7434**

ORIGINAL CONTRACT NO: Not Provided YEAR BUILT: Not Provided

ORIGINAL MANUFACTURER: Caldwell Tanks Incorporated CAPACITY: 125,000 Gallon

DATE OF LAST INSPECTION: Not Provided TYPE: Dual Purpose

HIGH WATER LEVEL: 119'-2" LOW WATER LEVEL: 86'-11"

DIAMETER: 32'-0" HEAD RANGE: 32'-3"

TYPE CONSTRUCTION: WELDED: X RIVETED: BOLTED:

ACCOUNT EXECUTIVE: Lawna Hergenrider

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| Testing | Exterior | Interior |
|---|---|---|
| **Lead** | Negative | Negative |
| **Adhesion** | A 3 @ 14.3 | A 4 @ 13.0 |

| **Mil Thickness Testing** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bottom Bowl** | 18.8 | 13.7 | 16.5 | 13.5 | 12.7 | 14.4 | 12.5 |
| | 12.2 | 16.1 | 11.8 | | | | |
| **Base** | 14.4 | 15.2 | 12.4 | 16.3 | 19.1 | 17.2 | 15.1 |
| | 18.5 | 16.0 | 12.4 | | | | |
| **Access Tube** | 14.2 | 15.5 | 12.1 | 16.8 | 11.5 | 13.5 | 20.5 |
| | 13.1 | 12.4 | 13.5 | | | | |
| **Roof** | 15.7 | 12.5 | 15.2 | 19.8 | 12.8 | 10.7 | 15.4 |
| | 12.8 | 17.4 | 21.9 | | | | |

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| Ultrasonic Thickness Testing | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Bottom Bowl** | .181 | .412 | .410 | .385 | .408 | .414 | .405 |
| | .407 | .408 | .410 | | | | |
| **Base** | .439 | .437 | .432 | .436 | .437 | .434 | .436 |
| | .438 | .437 | .429 | | | | |
| **Access Tube** | .425 | .419 | .424 | .417 | .424 | .428 | .430 |
| | .420 | .416 | .421 | | | | |

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| Page # | Work Proposed | Critical Deficiency | NON-Critical Deficiency | OSHA | Structural | Preventive Maintenance |
|---|---|---|---|---|---|---|
| 2 | Post a Warning, Tampering With This Facility is a Federal Offense (US code title 42, section 300i-1) sign. | | X | | | |
| | Post a No Trespassing sign. | | X | | | |
| 4 | Caulk/Grout around the base of the tank to foundation connection. | | | | | X |
| | Seal the foundation with a sealant. | | | | | X |
| 5 | Electrically ground the tank. | | | X | | |
| 6 | Remove the vegetation from around the tank foundation. This should be done by others. | | | X | | |
| 8 | Install a flapper valve and new screen on the existing overflow pipe elbow. | | X | | | |
| 9 | Post a Confined Space Entry sign on base cone door. | | | X | | |
| 10 | Post Fall Protection Required sign at base of the base cone ladder. | | | X | | |
| 11 | Replace damaged pipe insulation, as needed. | | | | | X |
| 17 | Pressure wash the tank interior dry area with TSP detergent injection (minimum 3,500 psi at 3.0 gpm) then re-evaluate the tank interior dry area at next inspection cycle. | | | | | X |
| 19 | Post Confined Space Entry sign on primary roof hatch. | | | X | | |
| | Install lock on primary roof hatch. | | | | | X |
| 21 | Post Confined Space Entry sign on secondary access point / fan mount. | | | X | | |
| 22 | Replace the existing roof vent with a vacuum-pressure, frost proof vent and screen. This work should be performed on an emergency basis. | X | | | X | |
| 23 | Perform a structural analysis to determine whether or not tank can support weight of antenna system. | | | | | X |
| 24 | Pressure wash the tank exterior with biodegradable detergent injection (minimum 3,500 psi at 3.0 gpm), then re-evaluate the tank exterior at next inspection cycle. | | | | | X |
| 25 | Install a mixing system. Electrical work to be done by others if required. | | X | | | |

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| Page # | Work Proposed | Critical Deficiency | NON-Critical Deficiency | OSHA | Structural | Preventive Maintenance |
|---|---|---|---|---|---|---|
| 27 | Perform a dry interior cleanout, up to 3" of sediment. *Due to slope in bottom of the tank, a robotic in-service cleanout cannot be performed.* This work should be performed on an emergency basis. Additional accumulation will be $300 per hour to remove. In the event the tank has to be drained, it should be drained by the owner prior to our arrival. | X | | | | |
| | Install a passive cathodic protection system. | | | | | X |
| 28 | Abrasive blast all rusted and abraded interior wet areas to SSPC-SP10 (near white), and brush blast all remaining interior wet areas to SSPC-SP7; then apply one (1) spot coat of epoxy primer to all areas blasted to #10, stripe coat all weld seams, and apply an epoxy liner to the entire tank, to achieve 8 to 10 mils of total dry film thickness. Total mil thickness will include a combination of the existing and new coating. | X | | | | |