

# **WATER STORAGE TANK ANNUAL INSPECTION REPORT**



***Indian Lake Estates, Inc.***

***Ft. Meyers Dr. Elevated Water Tank***

***Water System Contact: Dawn Dube, Administration, Work: 863-692-2600***

***Date of Inspection: 03/24/2025***

*Inspector Signature:* \_\_\_\_\_



## ANNUAL WATER TANK INSPECTION REPORT

This inspection report documents the current condition of the structure, attached components, the applied protective coating systems, and regulatory compliance with common regulatory standards.

The protective coating systems applied to the exterior and interior of the structure are further evaluated based on the types of deficiencies observed, the extent of those deficiencies, and the degree to which the deficiencies affect those coated surfaces. Under the Management Program, we use the findings from this annual inspection to confirm that the maintenance plan set for the water tank is on schedule. Should conditions warrant any repairs, touch-up, or painting, those services will be scheduled in a timely manner. Our goal is to ensure your water tank is visually appealing, protected, and compliant with regulatory standards. Our inspection procedures adhere to SSPC, NACE, and AWWA standards relating to inspecting and maintaining water storage structures. This report is not a structural analysis or a guarantee of compliance with all state or federal regulations.

A Visual Inspection was performed on the water tank identified as the Ft. Meyers Dr. Elevated Water Tank located at 6571 Ft Meyers Dr, Indian Lake Estates, FL 33855, USA on 03/24/2025. Should you have any questions about the observations and recommendations outlined in this inspection report, please contact your Account Representative or call our main office at (252) 535-1777.



## INSPECTION DATA

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**Date of Inspection:** 03/24/2025

**Water Tank Owner:** Indian Lake Estates, Inc.

**Report Submitted to:** Water System Contact: Dawn Dube, Administration, Work: 863-692-2600

**Tank Inspector:** Inspector: Doug Iafollo, Inspector/ Quality Control, Work: 2525351777, Work: Douglas@tankcare.net, Certified Southern Corrosion Inspector

## DATA PLATE INFORMATION

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Manufacturer: RD Cole

High Water Level: (FT)

Capacity: 300,000 Gallons

Low Water Level: 110 (FT)

Construction Date:

## EXTERIOR INSPECTION OBSERVATIONS

The exterior of the structure, its components, and the protective coating system was evaluated based on four basic criteria: (1.) Condition. (2.) Protection. (3.) Durability. (4.) Adherence to the maintenance plan.

### STRUCTURE AND COMPONENTS

Overall the condition of the exterior of the structure was observed to be: **Monitor** - Minor deficiencies were observed and noted for monitoring and possible repair in the future.

### PROTECTIVE COATING SYSTEM

The types of deficiencies observed affecting the exterior protective coating system:

**Mildew** - Black fungal growth. Cause: Micro-organism especially on damp and shaded paint.

**Chalk Erosion** - Gradual thinning of the finish coat to expose the undercoat. Cause: Degradation of coating resin by sunlight leaving loose residue on its surface.

**Fading** - Color changes or irregularities. Cause: Ultraviolet light degrade: or moisture behind the paint film.

**Pinpoint Rust** - Rusting at pinholes or holidays. Cause: The steel surface profile is exposed from degrading a thinning coating.

**Peeling Between Coats** - Peeling of heavy paint buildup from the substrate. Cause: Stress from weathering (a contraction of total system) exceeds adhesion to the substrate.

The extent of the deficiencies observed and listed above are classified as: **Minor** - Any deficiencies noted are only minor and are not adversely affecting the coating system.

The degree of those deficiencies affecting the overall coating system is estimated to be: **Proportional** - Deficiencies are proportional to the age of the coating and impact of the environment.

## INSPECTOR OBSERVATIONS

### Exterior

Overall, the exterior coatings of the tank are in satisfactory condition. The noted deficiencies are minor in nature and include:

- Mildew: which can be observed on the legs, bowl, shell, and the catwalk.
- Fading: which can be observed on the legs, bowl, shell, catwalk and roof.
- Chalking: which can be observed on the legs, bowl, shell, catwalk and roof.
- Pinpoint corrosion: which can be observed on the legs, bowl, shell, catwalk and roof.
- Staining/streaking from corrosion: which can be observed on the legs, bowl, shell, catwalk and roof.
- Flash corrosion: which can be observed on roof near vent.

*INSPECTION PICTURES INCLUDED.*

## INTERIOR WET INSPECTION OBSERVATIONS

The interior wet of the structure, its components, and the protective coating system was evaluated based on four basic criteria: (1.) Condition. (2.) Protection. (3.) Durability. (4.) Adherence to the maintenance plan.

### STRUCTURE AND COMPONENTS

Overall the condition of the interior wet area of the structure was observed to be: **Satisfactory** - The interior of the structure is in a satisfactory condition. No maintenance is needed at this time

### PROTECTIVE COATING SYSTEM

The types of deficiencies observed affecting the interior wet protective coating system:

**Irregular Shape Rust** - Deterioration at edges, corners, crevices, channels, etc. Cause: Difficult to coat surfaces; or configurations where the coating thins from service degradation.

**Pinpoint Rust** - Rusting at pinholes or holidays. Cause: Steel surface profiles exposure point from the degradation of a coating thickness from service.

**Discoloration / Staining** - Organic build up on the surface of the coating causing a discoloration. Cause: Typically iron and or manganese deposits in the water.

The extent of the deficiencies observed and listed above are classified as: **Minor** - Deficiencies noted are considered normal or minor but an indicator of the natural degradation of the coating system.

The degree of those deficiencies affecting the overall coating system is estimated to be: **Widespread** - Deficiencies are widespread and impacting a majority of the interior coating system.

## INSPECTOR OBSERVATIONS

### Interior WET

Overall, the interior (wet) coatings are in satisfactory condition. The noted deficiencies are minor in nature and include:

- Discoloration/staining: which can be observed on most surfaces below high water level. This is generally attributed to elements present in the water system.
- Pinpoint corrosion: which can be observed on interior roof.
- Corrosion of irregular shapes and surfaces: which can be observed on interior roof and ladder.
- Adhesion failure: which can be observed on the interior roof, ladder, and on the rafters.
- Undercutting: which can be observed on the interior roof, ladder, and on the rafters.
- Staining/streaking from corrosion: which can be observed on the shell and floor,

*INSPECTION PICTURES INCLUDED.*



## **STRUCTURE COMPONENTS**

Components are integral parts of the structure and its day-to-day operation. The components are also evaluated based on the four basic criteria: (1.) Condition. (2.) Protection. (3.) Durability. (4.) Adherence to the maintenance plan.

### **STRUCTURE AND COMPONENTS**

**Foundation: Satisfactory**

Inspection Criteria: Evaluate the condition of the surface of the foundation(s) that is visible.

**Support Structure: Satisfactory**

Inspection Criteria: Depending upon the design of the water tank, evaluate the condition of the legs, rods, beams, bell, stem, and catwalk components.

**Storage Structure: Satisfactory**

Inspection Criteria: Depending upon the design of the water tank, evaluate the bowl, sidewall, dome, or roof of the storage structure.

**Hatches: Satisfactory**

Inspection Criteria: Evaluate all hatches that access the interior dry or interior wet spaces for condition and compliance.

**Overflow Components: Satisfactory**

Inspection Criteria: Evaluate the pipe, standoffs, welds, penetration point, vertex preventer, and termination flap or screen for condition and compliance.

**Level Indicator Structure: Satisfactory**

Inspection Criteria: Inspect the components of the indicator structure and test the movement of the indicator.

**Vent Structure: Satisfactory**

Inspection Criteria: Evaluate vent components (base, cover, and screen) for condition, proper operation, and compliance.

**Ladders: Satisfactory**

Inspection Criteria: All ladders are evaluated for their integrity, safety, and OSHA compliance.

The following items listed are typically not covered under the maintenance agreement. If these items are installed, as a courtesy, Southern Corrosion will inspect these components to document their condition and operation.

**Antenna Components: N/A**

Inspection Criteria: Evaluate the installation, mounts, and support structure.

**Obstruction Light: N/A**

Inspection Criteria: Inspect the condition of the mount and if possible the operation of the light.

**Mixer: N/A**

Inspection Criteria: Evaluate the installation and visual condition of the mixer.

## **INSPECTOR OBSERVATIONS**

*APPLICABLE PICTURES OF COMPONENTS IDENTIFIED FOR MAINTENANCE ARE INCLUDED.*

## **PLANNED MAINTENANCE**

## COMPLIANCE REPORT

The compliance report documents the inspection on 03/24/2025 of the Ft. Meyers Dr. Elevated Water Tank and its compliance with State Health and Environmental Control regulations related to water storage facilities. Please note that this report does not guarantee water quality or compliance with all related regulations.

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### Site Accessibility - **Compliant**

\* Compliance Criteria: All storage tanks shall be readily accessible at all times for inspection and maintenance.

### Trespass Prevention - **Compliant**

\* Compliance Criteria: Fencing, locks on access manholes, and other manholes, and other necessary precautions shall be provided to prevent trespassing, vandalism, and sabotage.

### Overflow Pipe Design - **Compliant**

\* Compliance Criteria: All atmospheric storage structures shall be provided with an overflow. The termination of the pipe should be covered by a screen or flap.

### Access Hatch - **Compliant**

\* Compliance Criteria: Any access hatch should meet AWWA design standards and the cover secured with a lock.

### Vent Design and Condition - **Compliant**

\* Compliance Criteria: All finished water atmospheric storage structures shall be vented. A vent structure shall be capped and all openings covered with a screen.

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SITE ACCESSIBILITY



TRESPASS PREVENTION



OVERFLOW PIPE DESIGN



ACCESS HATCH PROTECTION



VENT DESIGN AND CONDITION

