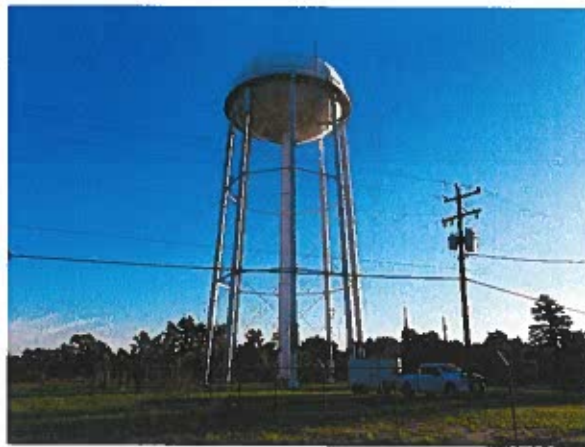


# **WATER STORAGE TANK ANNUAL INSPECTION REPORT**



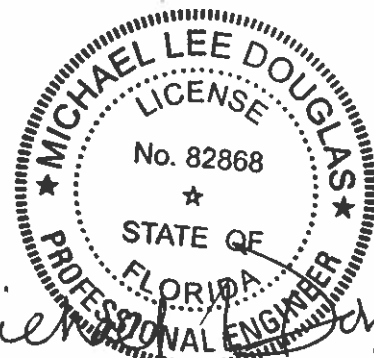
***Indian Lake Estates, Inc.***

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

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

***Date of Inspection: 09/05/2023***

Inspector Signature:



*Michael Lee Douglas*  
*10/10/2023*

## 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 09/05/2023. 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

**Date of Inspection:** 09/05/2023

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

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

**Tank Inspector:** Inspector: Logan Harrup, Inspector, Work: 434-865-2727, Work: Logan@tankcare.net, Certified Southern Corrosion Inspector

## DATA PLATE INFORMATION

**Manufacturer:** RD Cole

**Capacity:** 300,000 Gallons

**Construction Date:**

**High Water Level:** (FT)

**Low Water Level:** 110 (FT)

## 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: **Satisfactory** - The structure appears to be in a satisfactory condition. No repairs or maintenance is needed at this time

## 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.

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

**Abrasion Damage** - Mechanical damage. Cause: Physical damage by abrasion.

**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: **Moderate** - The extent of the deficiencies noted can undermine the future integrity and affect the longevity of 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

The exterior coatings are in satisfactory condition. The noted deficiencies are mildew, chalking, fading, pinpoint corrosion, corrosion of irregular shapes and surfaces, adhesion failure to substrate, abrasion damage, rust bleed, and bird residue. The presence of mildew can be observed on the tank legs, riser, struts, and catwalk. Chalking and fading can be observed on all exterior surfaces of the tank. Pinpoint corrosion can be observed in spot areas on the catwalk and roof. Corrosion of irregular shapes and surfaces can be observed around anchor nuts and bolts. Adhesion failure to substrate can be observed on the wind rods, catwalk floor, shell wall, roof, and liquid level indicator standoffs. Abrasion damage can be observed on a leg of the tank. Rust bleed can be observed originating from most of these areas of corrosion. Bird residue can be observed on the roof. Overall, the exterior surfaces are in satisfactory condition and the deficiencies noted are moderate in nature.

*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.

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: **Proportional** - Deficiencies are proportional to the age of the coating and the impact of the environment.

## INSPECTOR OBSERVATIONS

The interior coatings are in satisfactory condition. The noted deficiencies are pinpoint corrosion, corrosion of irregular shapes and surfaces, rust bleed, and steel loss. Pinpoint can be observed on the interior portion of the roof access hatch cover and shell wall. Corrosion of irregular shapes and surfaces can be observed on the roof support beams. Rust bleed can be observed originating from these areas of corrosion. Minor steel loss can be observed on the interior portion of the hatch lip. Overall, the interior coatings are in satisfactory condition and the deficiencies noted are minor in nature.

## 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: Repair Performed**

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**

At the time of inspection, the existing vent was replaced with an aluminum vent that was bolted to the existing flange.

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

## **PLANNED MAINTENANCE**

Washout Inspection Cycle: Due to the type of maintenance agreement, a washout cycle has not been assigned.



## COMPLIANCE REPORT

The compliance report documents the inspection on 09/05/2023 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.

### 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

SITE ACCESSIBILITY



TRESPASS PREVENTION



OVERFLOW PIPE DESIGN



ACCESS HATCH PROTECTION



VENT DESIGN AND CONDITION

