

# INTERIOR TANK PERFORMANCE REPORT

PASCO COUNTY  
HAYS ROAD SOLID WASTE FACILITY  
2,000,000-GALLON LEACHATE STORAGE TANK  
SPRING HILL, FLORIDA

CCR Job No. 2019-R-065

1. Performance Report
2. Performance Report Pictures

Sheets 1  
Sheets 2 – 7

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## **1.0 Executive Summary**

CROM Coatings and Restorations, a Division of CROM, LLC ("CCR"), conducted a destructive inspection of the **2.0-MG Leachate Storage Tank** in **Spring Hill, Florida** on **November 5, 2019**. The goal of the destructive inspection was to review the status of the tank and its structural integrity, and to determine what measures, if any, were necessary to bring the tank up to present codes and standards so that the longest useful life of the tank could be realized **in meeting the intent of Florida Administrative Code Chapter 62-701.400**.

**Several issues were discovered by the inspector, which were addressed.**

- CCR noted delaminated concrete and corrosion of diaphragm of the interior wall (Figures 12-18).
- CCR noted corrosion of the support bolsters of the interior dome (Figures 19-20).

## **2.0 Conclusions and Work Performed**

The work performed in the interior of the prestressed composite tank addresses the concerns for the integrity of the tank and the possibility of future problems.

- (1) Conclusion - Interior Tank Wall:** CCR noted delaminated concrete and corrosion of diaphragm of the interior wall by performing a destructive investigation in four (4) locations to determine the condition of the steel shell diaphragm at chosen areas of concern (Figures 12-18).

**Worked Performed by CCR:** Repairs on the delaminated and corrosive areas included the application of: Sika Armatec 110 EpoCem, a bonding agent and anti-corrosion coating, SikaCem 103, an ACI "Dry Shotcrete" material, and a Sika-Top Seal 107 cementitious waterproofing system (Figures 12-18).

- (2) Conclusion - Interior Tank Dome:** CCR noted corrosion of the support bolsters of the interior dome (Figures 19-20).

**Work Performed by CCR:** Repairs on the support bolsters of the interior dome include the removal of corrosion, and unsound material; then resurfaced these areas with MasterEmaco N 424, per manufacturer recommendations.

The preceding performance report is submitted for your review and discussion. If you have any questions or concerns, please do not hesitate to contact us.



**Yonathan Gomez**  
**Project Manager**



**Figure 1: Area of concern on the interior wall with noted dark staining.**



**Figure 2: Area of concern on the interior wall with noted crack.**



**Figure 3: Exploratory opening with missing diaphragm.**



**Figure 4: Exploratory opening with missing diaphragm.**





**Figure 5: Exploratory opening with corroded diaphragm.**



**Figure 6: Exploratory opening with minor corrosion.**



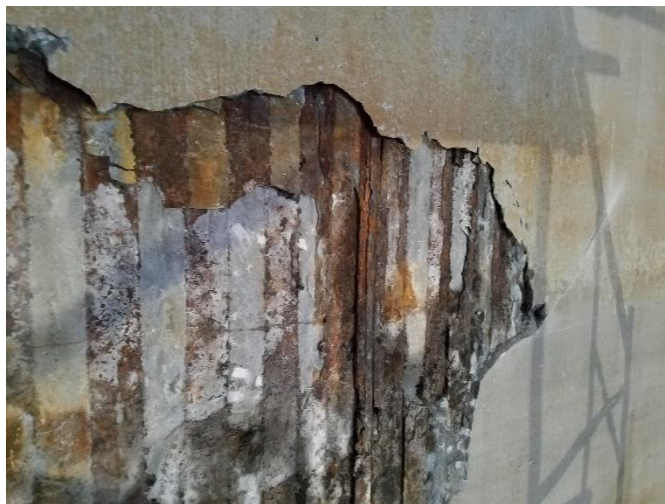
**Figure 7: Exploratory opening with diaphragm in good condition.**



**Figure 8: Concrete coverage ranged from 1" to 2".**



**Figure 9: View of the hollowed section on the interior tank wall.**



**Figure 10: View of the hollowed section on the interior tank wall.**



**Figure 11: View of the hollowed section on the interior tank wall.**



**Figure 12: View of the hollowed section on the interior tank wall.**





**Figure 13: Areas of concern being repaired.**



**Figure 14: Areas of concern being repaired.**



**Figure 15: Areas of concern being repaired.**



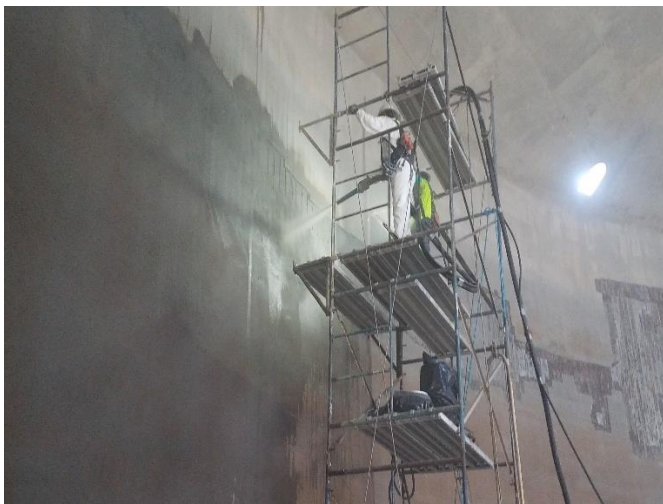
**Figure 16: Areas of concern being repaired.**



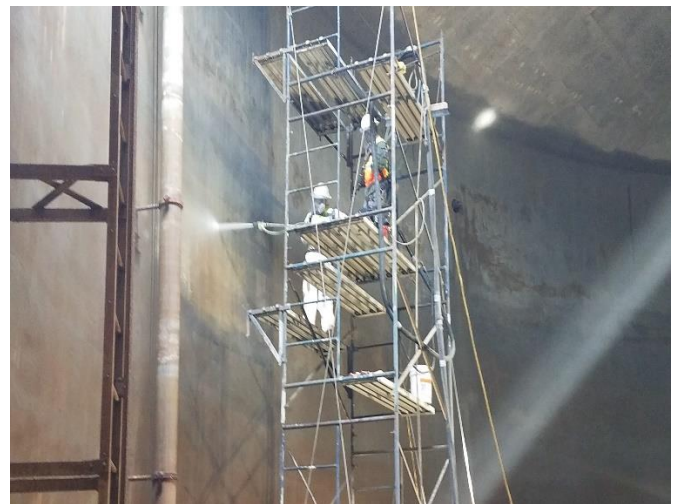
**Figure 17: Surface preparation of the interior wall.**



**Figure 18: Sika Armatex 110 application.**



**Figure 19: Sikacem 103 drymix application to bring the interior wall to its original state.**



**Figure 20: Interior abrasive surface preparation prior waterproofing application.**





**Figure 21: Sika 107 waterproofing application on the interior wall.**



**Figure 22: Sika 107 waterproofing application on the interior wall.**



**Figure 23: Sika 107 waterproofing application on the interior wall.**



**Figure 24: Sika 107 waterproofing application on the interior wall.**