CASE STUDY

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PROJECT SNAPSHOT

NAME:
Steel Potable Water Tank

LOCATION:
Conrad, Montana

DIMENSIONS:
40’ x 40’

OVERVIEW:
Advanced Lining used OBIC Armor’s multi-layer system to restore and protect a deteriorating wet well in Conrad, Montana, ensuring long-term durability and cost savings for the community’s wastewater infrastructure.

OBIC PRODUCTS USED:
- OBIC 1100
- OBIC Armor Lining System

CERTIFIED INSTALLER:
ADVANCED LINING

JOB COMPLETION:
Summer 2024

CASE STUDY

SITUATION

The town of Conrad, Montana, faced a critical issue with its deteriorating wastewater system, a vital part of its infrastructure. The concrete wet well had significant degradation due to years of exposure to harsh wastewater conditions, jeopardizing the system's functionality and risking potential environmental hazards. The city sought a solution that would restore the structure and prevent future damage without requiring an expensive and time-consuming replacement.

The existing concrete structure had suffered extensive wear, including cracks and infiltration of groundwater. Given its role as a lifeline for the community's wastewater system, it was essential to find a solution that provided immediate and long-lasting protection. Additionally, the rehabilitation needed to be completed within a short time frame to minimize disruption to the community.

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SOLUTION

Advanced Lining began by priming the tank with OBIC's potable water primer, chosen for its excellent adhesion and chemical resistance properties. Given the bolted steel nature of the tank, OBIC 1306 foam was applied to all seams and bolt heads, providing a seamless and rigid polyurethane barrier to prevent future leaks. The final step involved applying a top coat of OBIC 1100, an NSF/ANSI 61-certified polyurea coating designed specifically for potable water systems.

This application of OBIC's system not only restored the wet well to like-new condition but also provided it with the resilience to withstand future wear from wastewater exposure.

BENEFITS

The project was completed quickly, ensuring minimal disruption to the community. The OBIC Armor system provided immediate protection against corrosion and groundwater infiltration, extending the lifespan of the wet well by decades. Conrad's wastewater system is now better equipped to handle the demands of the community, reducing maintenance costs and preventing environmental risks.

The rehabilitation of Conrad, Montana's wet well using OBIC Armor ensured that a critical piece of infrastructure could continue to serve the community for years to come. By choosing the OBIC Armor system, the city avoided the high costs and disruption of replacement while gaining a long-term solution that will protect its wastewater system against the harsh conditions it faces.