

TRI-LOC CASE STUDY
Fall 2018



Trinity Products' Weldless Interlock System

PROJECT:

CountryMark Alky Project:
HF Water Mitigation

LOCATION: Mt. Vernon, IN, CountryMark
Oil Refinery

OWNER: CountryMark Oil Refinery,
Mt. Vernon, IN

GENERAL CONTRACTOR: Dieg Brothers

SUBCONTRACTOR: Cornerstone Boring



SCOPE:

200LF of 36"OD x .625", OD coated at 0.5% slope for positive drainage purposes. A 20" C900 PVC water main was threaded inside the casing. The Tri-Loc casing was installed using an Akkerman GBM pilot tube system, followed by a 36" weld on reaming head with auger boring. Due to the 36" bore being under a CSX railroad that required certified welders, continuous 24-hour operation and at an oil refinery; the cost and risk were both lowered using Tri-Loc.

SOIL CONDITIONS:

The ground conditions were a soft to medium stiff, grayish clay, heavily saturated with water. These ground conditions would have presented difficulties to provide a quality weld. A major concern was any difficulty in stopping water flowing inside the casing would delay operations and push the bore into a second shift.

RESULTS: The 200' bore of 36" x .625" was completed in 10 hours using 20' sticks of casing pipe. All casing was prepped with augers and staged to continue the boring operation as quickly as possible. The ground pressures remained low throughout the entire jacking process.

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INSTALLATION: When Cornerstone Boring was bidding this project the time and costs associated with providing certified welders, an inspector, boring crew, downtime due to welding the pipes, and a 24-hour boring requirement; Tri-Loc made business sense. The cost savings came into play due to 24-hour boring operations required under CSX railroad and CountryMark bidding specifications.

TESTIMONIAL: "Tri-Loc was cheaper than the competitor, provided the same quality and the lead time matched our start date. We by far exceeded our expectations compared to typical weld times we would have encountered. CountryMark has been a great company to work with and generously extended the invitation for Cornerstone Boring and Tri-Loc to be used again on an upcoming Spring 2020 project that has 200LF of 30" casing."

- Chad Rudolph, Cornerstone Boring

"Everything turned out great and this is a good product to replace the old way."

- Eric W. Dickhaut, Construction
Manager - CountryMark



PROJECT DETAILS:

- Pipe Used - 36"OD x .625" x 20' Trinity Tri-Loc Steel Casing
- Total Quantity Installed: 200LF
- Joint Design - 4-tooth design (prior to 3-tooth AB design)
- Equipment Used: American Augers 36/600
- Soil Conditions: soft to medium stiff, grayish clay, heavily saturated with water
- Highlight: "we by far exceeded our expectations compared to typical weld times we would have encountered"
- Completion Time: 10 Hours
- Carrier Pipe: C900 PVC water main