

Epoxy Rehab & Protective Coatings of Lift Stations



J.B. Conant



WARREN
ENVIRONMENTAL



Misty Jameson



ACE PIPE CLEANING
A Carylton Company

January 27 – 28, 2026

Henry B. Gonzalez Convention Center, San Antonio, Texas



PROJECT-DRIVEN MATERIAL SOLUTION

Warren Epoxy 301 Series

WASTEWATER

- Structural rehabilitation
- Superior resistance to H₂S
- Tolerance in low PH

WATER

- NSF/ANSI/CAN 61 Certified
- Rapid Return to Service

STORMWATER

- Improves flow performance
- Protects aquatic life

POWER

- Superior resistance to fuels, chemicals, abrasions, and more

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ABOUT WARREN 301 SERIES EPOXY

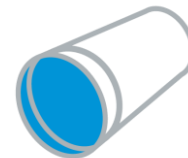
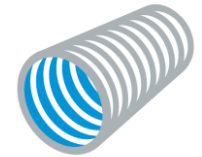
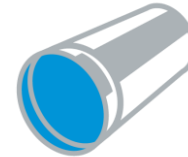
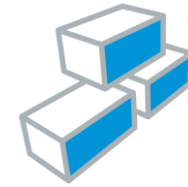
FEATURES



APPLICATIONS



SUBSTRATES



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KEY TECHNICAL BENEFITS



**CHEMICAL
RESISTANCE**



**TENSILE
STRENGTH: Up to
7,500 psi**



**WET/DAMP
APPLICATION**



**SUBSTRATE
ADHESION**



NO VOCs

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LAKE RIDGE PARKWAY LIFT STATION REHABILITATION

Grand Prairie, Texas

- Lift Station Dimensions:
 - 19' wide x 40' long x 40' deep
- Turnkey lift station epoxy coating rehabilitation, bypass pumping, replacement of a failed coating system



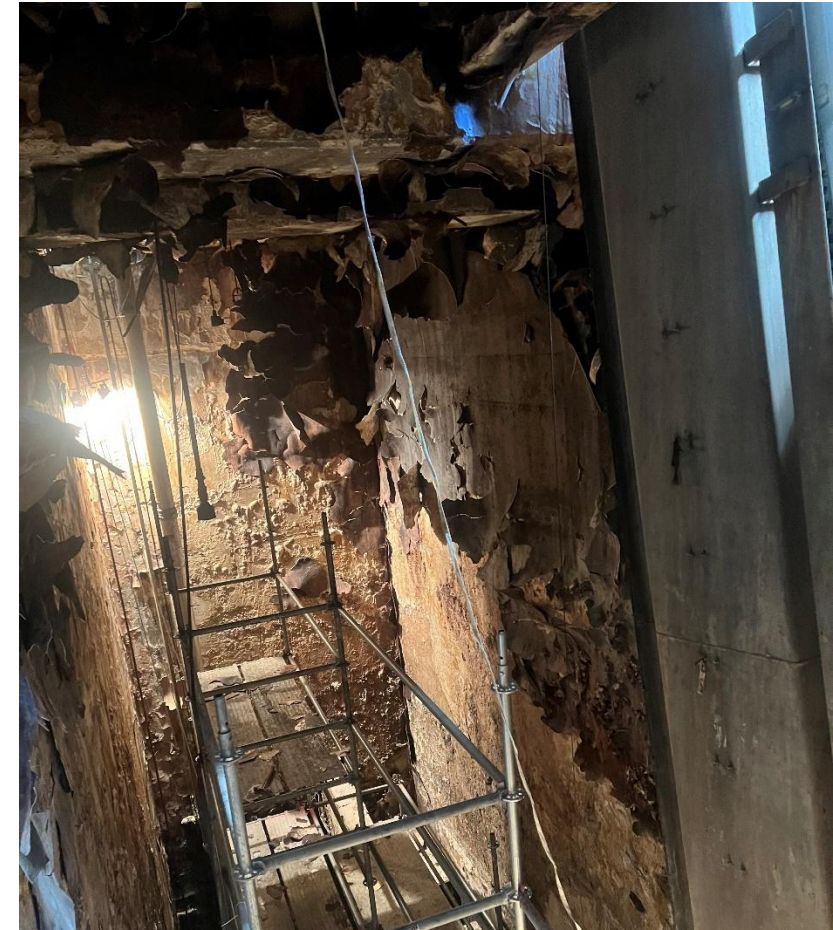
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LAKE RIDGE PARKWAY LIFT STATION REHABILITATION

Grand Prairie, Texas



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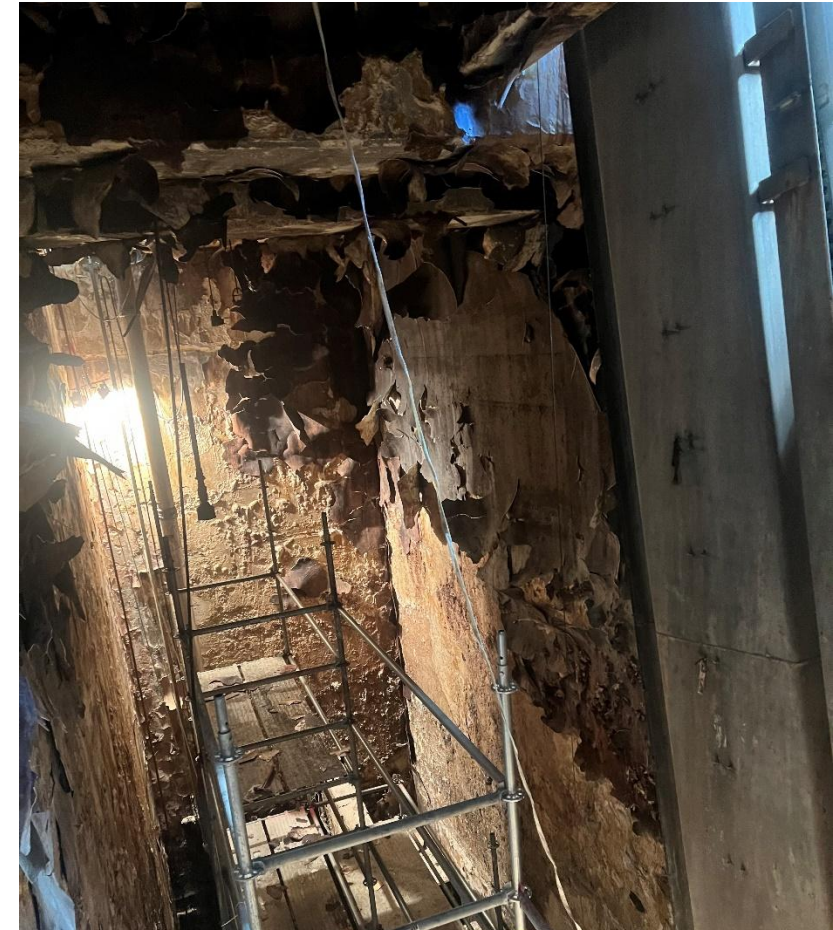
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LAKE RIDGE PARKWAY LIFT STATION REHABILITATION

Grand Prairie, Texas

- Pro Tip: 1 week to remove existing coating
- 6 weeks from start to finish
- Epoxy applied in single coat; 250 mils



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LAKE RIDGE PARKWAY LIFT STATION REHABILITATION

Grand Prairie, Texas

- Spark Test on entire structure
- Coating demonstrated high adhesion to substrate
- High-Build Epoxy Coating protects concrete wet well for 50 years



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LAKE ARLINGTON LIFT STATION

Fort Worth, Texas

- New concrete structures
- Corrosive environment



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LAKE ARLINGTON LIFT STATION

Fort Worth, Texas

Epoxy lining of
60' x 20' x 50' deep
trench style lift
station wet well



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LEAGUE CITY HWY 3 LS & FM REHABILITATION

Fall 2023

- Existing 10' diameter x 30' deep lift station wet well
- Replace pumps and discharge piping, pressure blasting & coating



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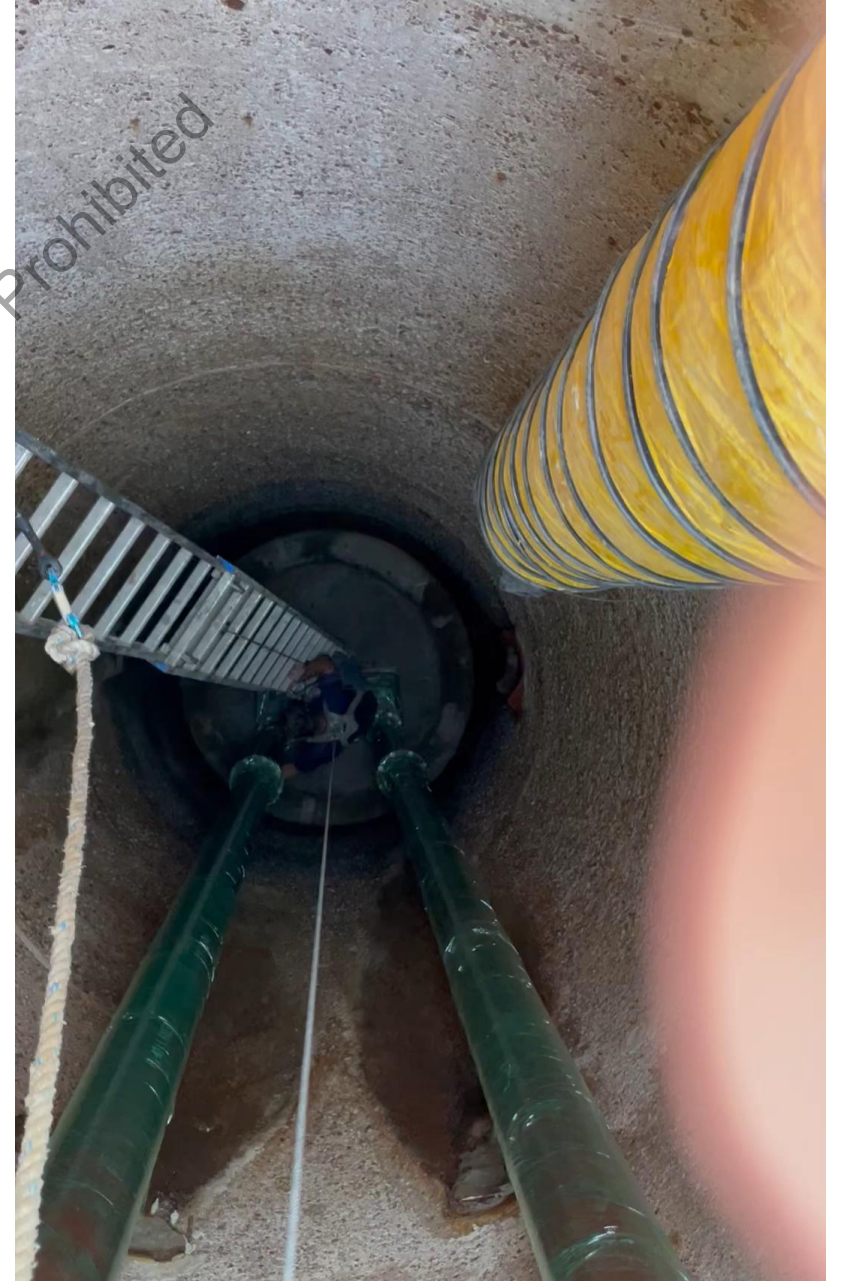
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LEAGUE CITY HWY 3 LS & FM REHABILITATION

Fall 2023

- Existing wet well sandblasted, acid etched & chlorine washed
- Grouted leaks around incoming pipes
- Warren's mastic troweled into holes or pipe gaps



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LEAGUE CITY HWY 3 LS & FM REHABILITATION

Fall 2023



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LEAGUE CITY HWY 3 LS & FM REHABILITATION

Fall 2023



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LEAGUE CITY HWY 3 LS & FM REHABILITATION

Fall 2023

Adhesion Results

D7234-19 pull-off adhesion strength of coatings on concrete

- **Roof:** 486 psi
- **East Wall:** 355 psi
- **West Wall:** 1,508 psi (epoxy sheared)
- **Floor:** 664 psi

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KEY FACTORS FOR SUCCESSFUL LIFT STATION COATINGS

- **Polymer coating** vs cementitious admixture or calcium aluminate
- **Proven product** with a track record
- Experienced contractor **applicator**
- Well-written and detailed **specification**
- **Post application testing**
- **Coating inspection**

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QUESTIONS?



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