FIELD PERFORMANCE / INDUSTRIAL WASTEWATER

HDPE Manhole Performance in Aggressive pH Conditions

CJ Bio America • Fort Dodge, Iowa | Installation by Rasch Construction



First-generation extrusion-wound HDPE manholes

pH 1–6
Reported wastewater acidity

2019
Original installation

6+ YEARS
Contractor-reported service

THE CHALLENGE

A failing manhole at CJ Bio's amino-acid fermentation facility faced high-strength industrial wastewater with reported pH levels of 1–6.

THE SOLUTION

In 2019, Rasch Construction installed a first-generation, extrusion-wound solid-wall HDPE manhole with a monolithic, continuously fused barrel.

THE FIELD RESULT

After 6+ years in service, Rasch reported no corrosion-related or structural deterioration; CJ Bio expressed high satisfaction.

> *"No reported issues or signs of deterioration related to the corrosive conditions."*
>
> — Rasch Construction (field report)