



INDUSTRY

CO-OP REFINERY COMPLEX TIER III GAS DESULPHURIZATION

Design and Building of CFA and CIP Piles

CANADA



Owner

Federated Co-op

Engineer

Worley Parsons Resources and Energy

General contractor

Graham Industrial Services

Period of works

July 2018-October 2019

Main figures

Geotechnical specialties

Supply and construction of 250 CFA and CIP Piles



Project description

Soletanche Bachy Canada was contracted by Graham Industrial Services on behalf of the Co-op Refinery Complex in Regina SK to construct pile foundations to support storage tanks, interconnecting pipe racks, feed surge drums, bridges and other structures required for their Tier III Gas Desulphurization Project in Units 20, 54 and 56.

Ground conditions

The Co-op Refinery Complex is within the Regina Aquifer Protection Zone. Ground conditions on site were clay fill to approximately 13' followed by silty sand to 60' overlying glacial till.

Solution

Working in a live gas plant, many of the piles within the GDS Units were located very close to operational structures. Careful planning of each day's activities together with effective communication, coordination with other subtrades on site, including a well-defined execution plan were essential to the successful completion of the project



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