CASE STUDY

Concrete Canvas® CCX-M®: Transforming Erosion Control for Oil & Gas Sites

LOCATION: Saskatchewan, Canada

PROJECT TYPE: Product Supply & Installation

PRODUCT USED: Concrete Canvas® CCX-M®, Titan Swamp Grid® 30,TE-8 Nonwoven Geotextile, Titan Silt Fence

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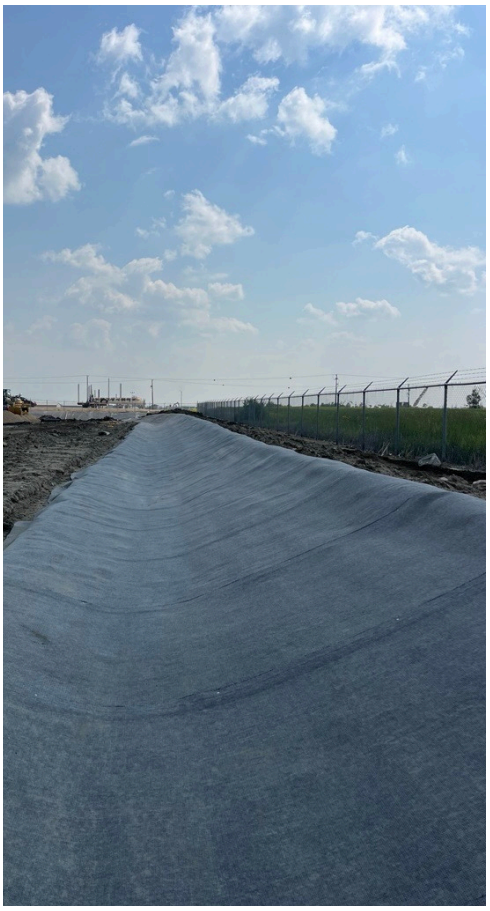
CHALLENGE:

An oil and gas operator in Saskatchewan faced a critical need for a long-term channel protection system across three environmentally sensitive sites. The project required stabilizing weak subgrades, maintaining construction timelines, and transitioning from a previously specified product—all while ensuring compliance with stringent environmental safeguards.



TITAN SOLUTION:

Titan delivered a fully integrated erosion control and stabilization system, meticulously engineered for durability, constructability, and lifecycle performance. Collaborating closely with the contractor, Titan facilitated a seamless transition to Concrete Canvas® CCX-M®, providing comprehensive technical documentation, installation guidance, and responsive project support. This proactive approach ensured a smooth approval process while mitigating procurement and execution risks.

Key elements of the solution included:

- Concrete Canvas® CCX-M®: Installed transversely within the channels to optimize hydraulic performance and erosion resistance. Edges were secured in engineered anchor trenches to prevent uplift and edge failure, while seams were mechanically fastened with stainless steel screws and sealed for a continuous, watertight lining system designed for long-term service life with minimal maintenance.

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TITAN SOLUTION CONT'D:

- Titan Swamp Grid® 30: Deployed to stabilize weak subgrades by distributing loads and improving ground bearing capacity, significantly enhancing site access and reducing the risk of rutting or construction delays.
- Titan TE-8 Nonwoven Geotextile: Used beneath the system for separation and reinforcement, improving structural integrity and ensuring long-term reliability.

Titan's responsive material supply and cross-site coordination ensured uninterrupted installation across all three locations, maintaining quality control and adhering to tight project schedules.

Concrete Canvas® Batched Bulk Roll

ACHIEVEMENT:

The project was successfully completed on schedule across all three sites, delivering enhanced constructability and reduced installation risks under challenging ground conditions.
Key Results:

- 2,135 m^2 of Concrete Canvas® CCX-M® installed for durable channel lining and long-term erosion protection.
- 21,318 m^2 of Titan TE-8 Nonwoven Geotextile and 12,245 m^2 of Titan Swamp Grid® 30 Combination Geogrid deployed to reinforce weak subgrades and improve load distribution.
- 2,500 linear feet of Titan Silt Fence installed to support sediment control and protect surrounding environments during construction.

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ACHIEVEMENT CONT'D:

The integrated solution not only strengthened environmental safeguards but also enhanced groundwater protection and reduced anticipated lifecycle maintenance demands. By combining advanced engineered materials with proactive technical partnership, Titan minimized project risks, optimized field efficiency, and delivered scalable, high-performance environmental protection across multiple active oil and gas sites.