PROJECT HIGHLIGHT

Louisiana Gulf Coast Large Industrial Project

Heavy Haul Roads

PROJECT TEAM

OWNER:
Private due to NDA

ENGINEER:
Private due to NDA

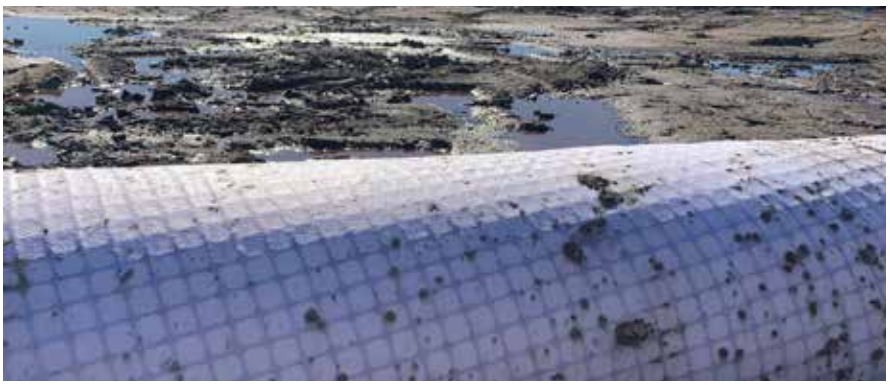
JOB NUMBER:

CONTRACTOR:
Private due to NDA

SUPPLIER:
Industrial Fabrics, Inc. (IFI)

TECHNICAL DESCRIPTION:

Product:	**BASELOK® FabGrid® FG6 w/ BASELOK® GCSP8 & BL6**
Square Feet:	750,000 - 1,500,000 SF
Installation Date:	October 2021



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Description on next page

INDUSTRIAL FABRICS, INC. since 1981

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PROJECT DESCRIPTION:

A large industrial site close to the Mississippi River in South Louisiana needed to build heavy haul roads for access to the next phase of the project.

PROBLEM:

The original design for the heavy haul roads on this large industrial project included 18 inches of chemical stabilization, a high strength woven geotextile, a layer of geogrid and 24 inches of crushed limestone base. The design subgrade CBR was 0.5%. The biggest challenge was the site had recently been flooded with 13 feet of water from Hurricane Ida. Originally, the contractor did not feel the chemical stabilization would be possible if there was much water present, so they were ready with a value engineering option from Industrial Fabrics. There were many concerns surrounding the delay in schedule from the flooding, and the hope was a geosynthetic option would allow for faster construction and cost savings.

SOLUTION:

The Industrial Fabrics engineering team was able to produce an alternate design for these heavy haul roads. As mentioned, the subgrade conditions were very weak with a design CBR of 0.5%. Therefore, the Industrial Fabrics engineering team recommended the **BASELOK® Foundation Performance System (FPS)**. This system included a BASELOK® FabGrid® followed by a BASELOK® GeoCell. The FabGrid® chosen for this critical application was BASELOK® FG6. By utilizing the **BASELOK® FPS**, the chemical stabilization was eliminated and 12 inches of the aggregate was replaced with 12 inches of angular sand. As such, Industrial Fabrics manufactured a custom geocell to maximize confinement of the sand. This eight inch geocell was called BASELOK® GCSP8. The solution included placing the BASELOK® FG6 directly on the saturated subgrade followed by the BASELOK® GCSP8. Once in place, truckloads of sand were brought in and a 12 inch compacted lift was placed within the GCSP8 leaving four inches of overfill. Once the sand was in place, a layer of BASELOK® BL6 geogrid was placed over the sand followed by 12 inches of crushed limestone.

RESULTS:

The **BASELOK® FPS** performed so well, the owner is now considering using this particular system for more permanent applications on the project. The nearly five miles of heavy haul roads were completed in only eight weeks. Ease of the **BASELOK® FPS** installation helped get the project back on schedule. As an added bonus, the **BASELOK® FPS** saved the project nearly $3 million dollars compared to the original design.

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