



MONTHLY PROJECT PROGRESS REPORT
NuSTAR 10-INCH PIPELINE RELOCATION
FM DIVERSION CHANNEL RELOCATION PROJECT
AFE_0002412
PSC CASE NO. PU-20-381
Report Date September 15, 2021

- **SAFETY**
 - No issues. Continue with daily tailgate safety meetings before start of work each day.
- **RIGHT-OF-WAY**
 - No current issues with landowners or tenants
 - Working with landowners as needed for access to fields around construction activity.
- **ENVIRONMENTAL**
 - Silt fencing and waddles in place and being monitored by SWCA
 - No current issues
- **SURVEY**
 - EFN Surveyors on site. All ROW and work spaces have been staked
 - Survey continues to collect pipe joint and weld data for as-built files
 - Survey set up ground elevation grids to monitor settlement and heaving during HDD operations
- **CONSTRUCTION**
 - Rains have hampered the project several days since the last report.
 - 6,566 feet of FBE line pipe has been welded. All welds have been NDT inspected
 - 5,384 feet of FBE/ARO HDD pipe has been welded. All Welds have been NDT inspected
 - HDD installations for C-1 ditch and C-2 County Road 166th are complete.
 - HDD Contractor (Ellingson Trenchless) moved on site 6/21/21 and began set-up for drilling at the Drain 14 location. Drilling operations began on 6/23/21 but at 189 feet in had troubles with tool reading down-hole pressures. Pulled out of hole and working to bring in a new coupler for tool. Tool arrived on 6/26/21 and drilling operations resumed on Drain 14. Continued to have circulation issues. A request was made by the HDD contractor to move to a shallower depth into a softer soil layer. A new plan was prepared and approved by the Diversion Authority. This process of a new plan development and approval caused a one-month shutdown of the project while this was being worked out. HDD was completed per the modified depth and plan.
 - Larger HDD has not started yet. The Diversion Authority has requested additional calculations for soil settlement and rebound which was overlooked by the Diversion Authority and NuStar during the design package review. NuStar has made several attempts to have its Engineers of record (HDR Engineering) review preliminary calculations provided by the HDD contractor and their engineering firm. This has caused delays in the project for several weeks as HDR has been selective in its support to the project due to the change of their original HDD design. NuStar requested HDR to perform its own calculations

and validations of the soil settlement and rebound calculations. HDR has not provided the information required and has been placed on hold from any further engineering work for the project due to resistance to perform the calculations, effective 9/14/21. NuStar has begun internal engineering department review of the requirements for the calculations and will schedule meetings with the Diversion Authority in order to provide the appropriate design information. Targeting to have this complete by September 24, 2021. If additional engineering services deemed necessary to complete the calculations and obtain the appropriate approvals, NuStar will accommodate this.

- Pipeline contractor working on field bending line pipe for tie-ins to smaller HDD's.
- Pipeline contractor has started to grout fill the Drain 14 HDD on the upstream and downstream sides of the drill for sealing the HDD bore cavity per requirements.

Pictures:



Pipe bending activity.

Jul 12, 2021 at 9:06:59 AM
+46.865856,-97.003337
58059
Cass County



Laying in of mainline section of pipe

Jul 9, 2021 at 9:54:43 AM
+46.864807,-96.995479
58059
Cass County



Pipe joint coating applications



Grouting operations for Drain 14 HDD cavity