HoustonEngineering Inc.

NDPSC FIELD CHECKLIST AND NOTES

OBSERVER: Andrew Vistad

Project	NST Express Pipeline	Project No.	PSC No. PU-15-232 (HEI #166077-022)
Date	5/11/2016	SITE VISIT	5/10/2016

Site Visit Number and Observation Goals (i.e. 50% completed construction, as-built, reclamation etc.)

Project Start (SPGM Segregation)
Observe topsoil segregation technique and confirm contractor qualifications.

Exclusion and Avoidance Areas / Siting and other Considerations for Visit

SPGM segregation.

Timeline of Activity on Site

Time	Activity
8:30 MDT	Arrive on site
9:30 MDT	Started removal and segregation of SPGM.
11:30 MDT	Leave site.

Photograph Log

1	Top soil removed by bull dozer. Facing ESE	9	Topsoil removal width and pile. Facing west.		
2	Removed SPGM pile. Facing West	10	Removal southern extents Facing west.		
3	Removal stages and equipment. Facing SE.	11	Removal northern extents Facing West.		
4	Dozer and removal depth. Facing South.				
5	Dozer and blade removal. Facing South.				
6	Grader removal depth Facing South.				
7	Removal in stages. Facing SE				
8	Grader solo removal. Facing West				

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NOTES:

8:30 MDT - Arrived on site, spoke with Chris Thompson about location of construction and scope of construction for the day. Darrell of Northstar outlined the construction area for the day and explained the SPGM removal methods. SPGM removal will be accomplished with motor graders. The motor graders will remove the SPGM material by pushing it to one side of the construction easement. Approximately 50 feet of SPGM will be removed. To aid in piling the SPGM bulldozers will be used.

9:30 MDT - Contractors from Loenbros on site to start removal of topsoil. Current conditions, cloudy with occasional rain. Wind S @10 mph.

10:30 MDT – Loenbro continued removing topsoil. Removal with the motor grader was halted and primary remove is done with 3 bull dozers. This change was made mostly because rain caused slippery conditions. The dozers worked in sets with the lead dozer removing part of the top soil and following dozers removing more until desired removal was accomplished.

11:30 MDT – The pile of topsoil was approximately 5.5 feet tall and 25 feet wide along the corridor that they were working. The topsoil was stripped over 75% of the easement that was staked. With the topsoil pile taking up the remainder of the staked easement. Contractors show proficiency in segregation of SPGM material. Methods are appropriate for the site and site conditions. Left site.

OBSERVERS's SIGNATURE: Andrew Vistad