



Public Service Commission

MW

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INSPECTION REPORT

DATE OF INSPECTION: September 25, 2024

TYPE OF INSPECTION: A partial inspection was conducted for assessing suitable plant growth material respread thickness on reclaimed land in areas within Section 29 of Permit NACT-1801 (Bond Release No. 2)

PERMITTEE - MINE: Coteau Properties Company - Freedom Mine

PERMITS INSPECTED: NACT-1801

PERSONS ACCOMPANYING INSPECTORS: N/A

INSPECTION CONDITIONS: The inspection was conducted between 9:30 a.m. and 5:00 p.m. CDT. Skies were sunny with south winds at 13 mph. The temperature ranged from 65-84° F. Access was unrestricted.

SUITABLE PLANT GROWTH MATERIAL REMOVAL/RESPREAD

The soil probing for assessing suitable plant growth material (SPGM) respread thicknesses in Section 29 of Permit NACT-1801 was completed on September 25, 2024. Soil probing in this area was conducted within the boundary of Bond Release No. 2, which was reclaimed to mostly tame pastureland. The topsoil and subsoil consisted of primarily loam and clay loam textures. Subsoil was mostly distinguishable from the underlying graded spoil, although in some instances it was difficult to distinguish due to similar soil textures and colors. A total of 26 soil probes were conducted in the area (Soil Probe Number 1- 26). The general landscape of the bond release area in Section 29 was hilly which limited soil probing activities to areas with gentle sloping topography. The locations of the soil probes are shown in **Figure 1** and the soil probe data are listed in **Table 1**.

Four soil probe locations within the N $\frac{1}{2}$ SW $\frac{1}{4}$ of Section 29 were observed to exhibit an apparent deficiency in subsoil respread thickness. These locations are identified as Probe Numbers 5, 11, 12, and 13 in **Figure 1** and **Table 1**. The topsoil respread depths were adequate within these four areas, but the subsoil respread thicknesses were less than required (12 inches or more). These areas were required to have a 48-inch SPGM respread thickness according to the corresponding approved grade approvals.

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Freedom Mine\Permits\NACT - 1801\Bond Release\No. 2\240925_Soil Probing

Figure 1. Soil probe locations and numbers for assessing SPGM thickness in Section 29 of Permit NACT-1801. The map depicts grade approval boundaries, required SPGM thickness, and bond release boundaries.



Table 1. Soil Probe Data for Section 29 of Permit NACT-1801

Permit Number	Probe Number	Date	Required Topsoil Respread (inches)	Required Subsoil Respread (inches)	Total Required SPGM Respread (inches)	Observed Topsoil (inches)	Observed Subsoil (inches)	Total Observed SPGM (inches)
NACT-1801	1	9/25/2024	7.0	41.0	48.0	10.0	34.0	44.0
NACT-1801	2	9/25/2024	7.0	41.0	48.0	9.0	35.0	44.0
NACT-1801	3	9/25/2024	7.0	41.0	48.0	8.0	40.0	48.0
NACT-1801	4	9/25/2024	7.0	41.0	48.0	15.0	32.0	47.0
NACT-1801	5	9/25/2024	7.0	41.0	48.0	9.0	27.0	36.0
NACT-1801	6	9/25/2024	7.0	41.0	48.0	8.0	40.0	48.0
NACT-1801	7	9/25/2024	7.0	41.0	48.0	11.0	37.0	48.0
NACT-1801	8	9/25/2024	7.0	41.0	48.0	10.0	38.0	48.0
NACT-1801	9	9/25/2024	7.0	41.0	48.0	15.0	-	-
NACT-1801	10	9/25/2024	7.0	41.0	48.0	6.0	42.0	48.0
NACT-1801	11	9/25/2024	7.0	41.0	48.0	7.0	29.0	36.0
NACT-1801	12	9/25/2024	7.0	41.0	48.0	6.0	24.0	30.0
NACT-1801	13	9/25/2024	7.0	41.0	48.0	6.0	30.0	36.0
NACT-1801	14	9/25/2024	7.0	41.0	48.0	7.0	37.0	44.0
NACT-1801	15	9/25/2024	7.0	41.0	48.0	7.0	-	-
NACT-1801	16	9/25/2024	7.0	41.0	48.0	11.0	-	-
NACT-1801	17	9/25/2024	6.9	41.0	47.9	10.0	38.0	48.0
NACT-1801	18	9/25/2024	7.0	41.0	48.0	7.0	41.0	48.0
NACT-1801	19	9/25/2024	8.0	40.0	48.0	10.0	38.0	48.0
NACT-1801	20	9/25/2024	7.0	-	-	6.0	42.0	48.0
NACT-1801	21	9/25/2024	7.0	-	-	7.0	29.0	36.0
NACT-1801	22	9/25/2024	7.0	-	-	8.0	2.0	10.0
NACT-1801	23	9/25/2024	12.2	35.8	48.0	10.0	38.0	48.0
NACT-1801	24	9/25/2024	7.1	14.8	21.9	7.0	16.0	23.0
NACT-1801	25	9/25/2024	7.1	14.8	21.9	6.0	14.0	20.0
NACT-1801	26	9/25/2024	7.1	-	-	7.0	-	-