Soil Baseline Map

New Horizon Mine
Permit No. C-1981-008
P.O Box 628, Nucla, CO. 81424

SCALE: 1" = 400'
ORIGINAL DATE: 6/25/2015
DWG. BY: ESI/TCP
APPROVED BY: FKF

DWG NO.
Map 2.04.9-1

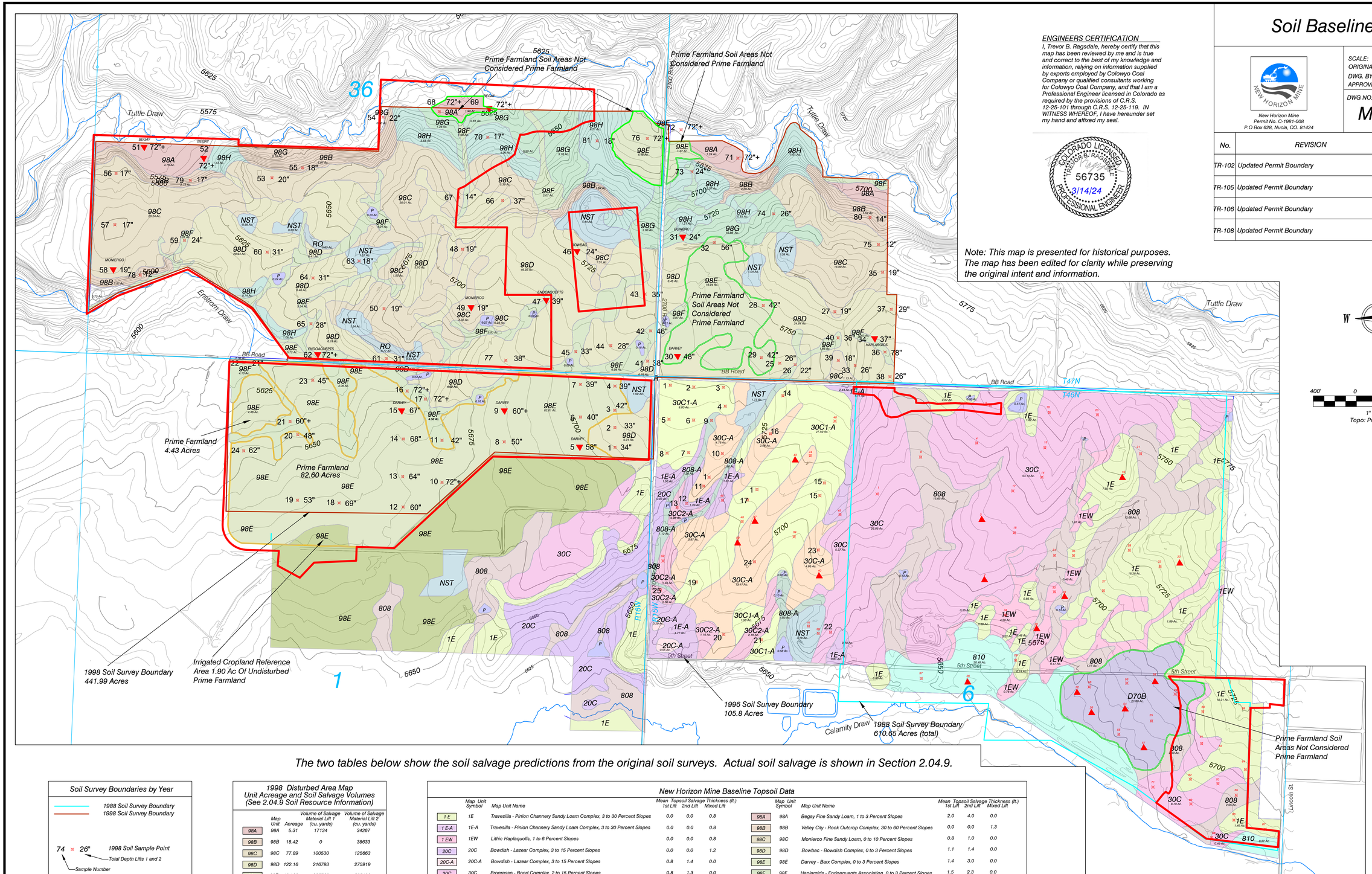
No.	REVISION	DATE	BY	CHK
TR-102	Updated Permit Boundary	2/22/21	Tony	FKF
TR-105	Updated Permit Boundary	5/19/22	Tony	TR
TR-106	Updated Permit Boundary	2/22/23	Tony	TR
TR-108	Updated Permit Boundary	3/14/24	Tony	TR

ENGINEERS CERTIFICATION

I, Trevor B. Ragsdale, hereby certify that this map has been reviewed by me and is true and correct to the best of my knowledge and information, relying on information supplied by experts employed by Colowyo Coal Company or qualified consultants working for Colowyo Coal Company, and that I am a Professional Engineer licensed in Colorado as required by the provisions of C.R.S. 12-25-101 through C.R.S. 12-25-119. IN WITNESS WHEREOF, I have hereunder set my hand and affixed my seal.

COLORADO LICENSED
TREVOR B. RAGSDALE
56735
3/14/24
PROFESSIONAL ENGINEER

Note: This map is presented for historical purposes. The map has been edited for clarity while preserving the original intent and information.



The two tables below show the soil salvage predictions from the original soil surveys. Actual soil salvage is shown in Section 2.04.9.

Soil Survey Boundaries by Year

- 1988 Soil Survey Boundary
- 1998 Soil Survey Boundary

74 26" — 1998 Soil Sample Point (Total Depth Lifts 1 and 2; Sample Number)

DARVEY 9 26" — 1998 Lab Sample Point (Total Depth Lifts 1 and 2; Sample Number)

15 — 1996 Soil Sample Point (Sample Number)

- 1988 Soil Description Site
- 15 - 1988 Soil Observation Site

98H Soil Map Unit

1998 Disturbed Area Map Unit Acreage and Soil Salvage Volumes (See 2.04.9 Soil Resource Information)

	Map Unit	Acreage	Volume of Salvage Material Lift 1 (cu. yards)	Volume of Salvage Material Lift 2 (cu. yards)
98A	98A	5.31	17134	34267
98B	98B	18.42	0	38633
98C	98C	77.89	100530	125663
98D	98D	122.16	216793	275919
98E	98E	104.38	235760	505199
98F	98F	26.15	63283	97034
98G	98G	27.63	49034	80238
98H	98H	24.30	0	58806
C	C	0.75	0	0
NST	NST	13.32	0	0
P	P	1.55	0	0
R	R	6.08	0	0
RO	RO	1.40	0	0
	Totals	429.34	682534	1215759

New Horizon Mine Baseline Topsoil Data

	Map Unit Symbol	Map Unit Name	Mean Topsoil Salvage Thickness (ft.) 1st Lift	2nd Lift	Mixed Lift
1 E	1E	Travesilla - Pinion Channery Sandy Loam Complex, 3 to 30 Percent Slopes	0.0	0.0	0.8
1 E-A	1E-A	Travesilla - Pinion Channery Sandy Loam Complex, 3 to 30 Percent Slopes	0.0	0.0	0.8
1 EW	1EW	Lithic Haplaquolls, 1 to 6 Percent Slopes	0.0	0.0	0.8
20C	20C	Bowdish - Lazear Complex, 3 to 15 Percent Slopes	0.0	0.0	1.2
20C-A	20C-A	Bowdish - Lazear Complex, 3 to 15 Percent Slopes	0.8	1.4	0.0
30C	30C	Progresso - Bond Complex, 2 to 15 Percent Slopes	0.8	1.3	0.0
30C-A	30C-A	Progresso - Bond Complex, 2 to 8 Percent Slopes	0.8	1.4	0.0
30C-1-A	30C-A-1	Progresso Sandy Loam, 2 to 4 Percent Slopes	0.9	2.2	0.0
30C-2-A	30C-A-2	Progresso Sandy Loam, 4 to 15 Percent Slopes	1.1	2.8	0.0
70B	70B	Barx Sandy Loam, 1 to 4 Percent Slopes	1.3	3.5	0.0
D70B	D70B	Barx - Barx, Scalped - Barx, Buried Complex, 1 to 4 Percent Slopes	0.8	3.5	0.0
808	808	Lithic - Typic Haplaquolls, Shallow to Deep, 1 to 3 Percent Slopes	0.0	0.0	2.4
808-A	808-A	Lithic - Typic Haplaquolls, Shallow to Deep, 1 to 3 Percent Slopes	1.0	2.8	0.0
810	810	Typic Haplaquolls, Deep, 1 to 3 Percent Slopes	0.0	0.0	0.0
98A	98A	Begay Fine Sandy Loam, 1 to 3 Percent Slopes	2.0	4.0	0.0
98B	98B	Valley City - Rock Outcrop Complex, 30 to 60 Percent Slopes	0.0	0.0	1.3
98C	98C	Monierco Fine Sandy Loam, 0 to 10 Percent Slopes	0.8	1.0	0.0
98D	98D	Bowbac - Bowdish Complex, 0 to 3 Percent Slopes	1.1	1.4	0.0
98E	98E	Darvey - Barx Complex, 0 to 3 Percent Slopes	1.4	3.0	0.0
98F	98F	Haplargids - Endoaquepts Association, 0 to 3 Percent Slopes	1.5	2.3	0.0
98G	98G	Bowdish - Bowbac Complex, 3 to 15 Percent Slopes	1.1	1.8	0.0
98H	98H	Wahweap Fine Sandy Loam, 10 to 30 Percent Slopes	0.0	0.0	1.5
C	C	Coal	0.0	0.0	0.0
NST	NST	No Suitable Topsoil	0.0	0.0	0.0
P	P	Ponds	0.0	0.0	0.0
R	R	Roads	0.0	0.0	0.0
RO	RO	Rock Outcrop	0.0	0.0	0.0

Legend

- Permit Boundary
- Prime Farmland Soils - Designated Prime Farmland
- Prime Farmland Soils - Designated Not Prime Farmland
- Streams
- Roads
- Township & Range

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