



Map 2.05.3-7 Culverts and Ditches
Culvert Sizing for Subwatersheds

| Culvert Number | Diameter (Inches) | Max Drainage Basin (acres) | Material |
|----------------|-------------------|----------------------------|----------|
| C1 | 18 | 14.5 | CMP |
| C2 | 36 | 70.1 | CMP |
| C3 | 48 | 142.8 | RCP |
| C4 | 24 | 29.8 | CMP |
| C5 | 18 | 14.5 | CMP |
| C6 | 18 | 14.5 | CMP |
| C7 | 18 | 14.5 | CMP |
| C8 | 24 | 29.8 | CMP |
| C9 | 24 | 29.8 | CMP |
| C10 | 24 | 29.8 | CMP |
| C11 | 18 | 14.5 | CMP |
| C12 | 18 | 14.5 | CMP |
| C13 | 36 | 70.1 | CMP |
| C14 | 10 | 3.75 | Plastic |
| C15 | 10 | 3.75 | Plastic |
| C16 | 10 | 3.75 | Plastic |
| C17 | 10 | 3.75 | Plastic |
| C18 | 10 | 3.75 | Plastic |
| C19 | 18 | 14.5 | CMP |
| C20 | 24 | 29.8 | CMP |
| C21 | 24 | 29.8 | CMP |

Legend

- Soil Boundary
- Surface Disturbance Boundary
- 7150

Surface Contour (ft)
- Roads
- Mine Roads
- D73

Ditch (with direction of flow)
- C1

Culvert
- XTO

XTO Culvert
- TS

Top Soil Stockpile Footprint
- △

Discharge Location
- Rip-Rap

Notes

Ditch data for ditches D64, D71, D72, D73, D74, D75, D76, D81, D82, D83, D84, D92, D94 and D96 are shown in Table Ex. 15-2 Jeff Canyon Mine Ditch Summary found in Exhibit 15 of the Lorencito Canyon Mine Permit Text .

Ditches labeled D1-D16 were labeled in the field.

CERTIFICATION
I certify that I have reviewed this drawing and that it was prepared under my supervision. The information contained herein is accurate to the best of my knowledge and belief.

Professional Geologist _____ Date _____

Lorencito Canyon Mine
Soil Distribution Plan

DESIGNED BY: *
DRAWN BY: NM/RGT

DATE: 10/13/2017
SCALE: AS SHOWN

PREPARED FOR: **cline**
mining corporation

Map 2.05.3-5



New Elk Coal Company LLC