

OTTER CREEK MINE

17.24.322 GEOLOGIC INFORMATION AND COAL CONSERVATION PLAN

17.24.322(1)

Exhibit 322A – Coal Conservation Plan addresses the requirements of this section.

17.24.322(2)

Exhibit 322A – Coal Conservation Plan includes or references:

17.24.322(2)(a)

The results of all test borings, evaluations, observations, and analyses, including the following:

(i) A narrative interpretation of the results of all test borings or core samplings conducted on the area to be mined or otherwise affected, including the nature, depth, and thickness of all known strata, overburden, and all coal seams encountered.

(ii) A narrative identifying the total reserves in the permit area with a description of the method of calculation.

(iii) Geologic cross-sections accurately depicting the known geologic makeup beneath the surface of the area to be mined or otherwise affected. The cross-sections depict the thickness and geological character of all known strata, beginning with the soil and including the stratum immediately below the lowest of all the potentially economically minable coal seams or the stratum containing any aquifer below this seam that may be adversely impacted by mining, whichever is deeper. Please refer to Map 16 – Geologic Cross-Sections, Baseline Report 304F – Lithologic Logs, and Baseline Report 304G – Geophysical Logs.

(iv) Map 15 – Drill Hole Locations shows elevations and locations of test borings and coal sampling.

(v) An isopach map of overburden thickness is included as Plate 2 of Exhibit 322A. Other isopach maps will be submitted if requested.

(vi) An analysis and summary of the chemical properties of all coal seams to be disturbed including the content of sulfur (organic and inorganic), trace mineral elements, sodium (as Na₂O), moisture, and ash as well as the British thermal unit (BTU) content per pound.

(vii) All coal crop lines and the strike and dip of the coal to be mined within the proposed mine plan area are shown on Plate 1 of Exhibit 322A – Knobloch Coal Limits and Bottom Structure.

(viii) There are no known workings of active, inactive, or abandoned underground mines, including mine openings to the surface within the proposed mine plan and adjacent areas.

(ix) There are no previously strip mined areas within the proposed mine plan area.

17.24.322(2)(b)

Exhibit 322A – Coal Conservation Plan includes a description of the location, quantity, and quality of all coal to be left unmined, accompanied by a detailed explanation of the reasons why the coal will not be mined. This explanation includes coal that is to be left unmined in order to comply with the Act as well as that coal which is to be left unmined because of the method of operation or because the coal is not minable or marketable. Plate 3, Exhibit 322A – Coal Recovery Map shows coal to be mined and coal to be left in place.

17.24.322(2)(c)

Coal fenders are not planned.

17.24.322(3)

No response required.