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MAPS

- (1)(a) Map of Surface Landowners Within the Mine Permit Area and Within ½ Mile of the Affected Area

Reference Plate 2 (Volume 3).

- (1)(b) Map of Subsurface Landowners Within the Affected Area

Reference Plates 3 and 3A (Volume 3).

- (1)(c) Map of Mining Boundaries within the Mine Permit Boundary

Reference Plate 5 (Volume 3).

- (1)(d) Map of the Boundaries of All Areas Proposed to be Affected Over the Life of the Operation

Reference Plate 8 (Volume 3) shows the current life of mine disturbance boundary and the current mine permit boundary. Plate 1A (Volume 3) shows historical mine permit boundaries and acreages of each. Plate 5 (Volume 3) shows the sequence of the mining areas.

- (1)(e) Map Showing the Names and Locations of All Existing Facilities Within 1000 Feet of the Affected Area

Locations of facilities are shown on Plates 8. There are no existing facilities within 1000 feet of the affected area.

- (1)(f) Map Showing the Location and Boundaries of Revegetation Reference Areas

Reference Plate 23 (Volume 4); Plate 1A (Appendix B-2).

- (1)(g) Map Showing Surface Water Locations

Reference Plate 8 (Volume 3) Plate 1 in the Annual Report of Hydrologic Monitoring for the elevations and locations of Historic Water Quality Monitoring Stations and Current Water Quality Monitoring Stations.

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- (1)(h) Map Showing the Location of Any Park or Cultural Resources and Archaeological Sites

Reference Plate 7 (Volume 3) Appendix G, Appendix G-2, Appendix G-3 and Appendix G-4.

- (1)(i) Map Showing the Location and Boundaries of Any Units of the National System of Trails or Part of Any Wild and Scenic River System

None of the above exist within the mine permit area.

- (1)(j) Map Showing Any Proposed Change to a Facility or Feature to be Affected by the Operation

Reference Plate 1 for lands to be affected by SCM mining operations.

- (1)(k) Map Showing the Area of Land Affected According to the Mining and Reclamation Sequence

Reference Plate 5 (Volume 3) for the mining sequence, and Plate 6 (Volume 3) for the reclamation sequence.

- (1)(l) Map Showing Each Area for Which a Performance Bond Will be Posted

Reference Map M-1 in Appendix M.

- (1)(m) Map Showing the Location of Any Mineral, Spoil, Coal, Soil, Coal Waste or Garbage Storage Area

Reference Plate 8 (Volume 3).

- (1)(n) Map Showing the Elevations and Locations of Monitoring Stations to Gather Water Quality and Quantity Data, Fish and Wildlife Data and Air Quality Data

Reference Plate 8 (Volume 3) for air quality data. Reference Plate 11 (Volume 4) for fish and wildlife data. Since the original approval of SMP 79012, annual wildlife monitoring has been conducted. The wildlife survey area has been modified to incorporate potential mine expansion areas and eliminate survey duplication with Decker Coal Company. The latest Annual Wildlife Monitoring Report contains the up-to-date wildlife survey area and

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summary of wildlife data. Reference Plate 1 in the Annual Report of Hydrologic Monitoring for the elevations and locations of Historic Water Quality Monitoring Stations and Current Water Quality Monitoring Stations.

- (1)(o) Map Showing the Location of Each Water Diversion, Collection, Conveyance, Treatment, Storage and Discharge Facility to be Used

Reference Appendix K, K-a, K-b and K-c.

- (1)(p) Map Showing the Location of Each Air Pollution Collection and Control Facility

Reference Plate 8 (Volume 3).

- (1)(q) Map Showing the Location of Each Waste Disposal Facility

Reference Plate 8 (Volume 3).

- (1)(r) Map Showing the Location of Proposed Post-mine Revegetation Communities and Proposed Fish, Wildlife and Related Environmental Enhancement Features

Reference Plate 4A (Volume 3).

- (1)(s) Map Showing the Location of Each Explosives Storage Area

Reference Plate 8 (Volume 3).

- (1)(t) Map Showing the Location of Each Sedimentation Pond and Permanent Water Impoundment

Reference Plate 8 (Volume 3) and Appendix K, K-c.

- (1)(u) Map Features

Each map will contain the following features:

- Date of Preparation
- North Point and Map Scale
- Legend of Items Shown on Map
- Contour Interval of the Map
- Township, Range and Section Numbers

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(1)(v) Map Showing the 1000 Meter UTM System Necessary for Hydrologic Impact Assessments and AVF Determinations

Reference Appendix L.

(1)(w) Map Showing the Final Surface and Underground Water Drainage Plan

Reference Plate 4 (Volume 3).

(1)(x) Map Showing the Location of Test Boring Holes

Reference Plate 9 (Volume 4) for overburden drill hole locations and Plate 10 (Volume 4) for coal drill hole locations.

(1)(y) Map Showing the Surface Location Lines of Any Geologic Cross Sections

Reference Plate 14 (Volume 4) and Plates I-7, I-8, I-9, and I-10 (Appendix I).

(1)(z) Map Showing the Location and Extent of Subsurface Water

Reference Plate 13 of Volume 4, Plates I-7 through I-10 of Appendix I, figures in Attachment 6 (Spring Creek Coal Mine Groundwater Model) of Appendix L and Attachment 7 (Groundwater Model Update) of Appendix L.

(2) Map Preparation Procedures

All maps, plans and cross sections required by this rule have been designed, submitted and approved per MDEQ rules; and prepared by or, if appropriate, under the direction of, and certified by a qualified, licensed, professional engineer. Map certification will be as follows:

"I, the undersigned, hereby certify that this map is correct and shows to the best of my knowledge and belief, all the information required by the mining laws of this state".

Current information is provided on maps submitted with each annual report, major and minor revision, exploration permit application, and other reports as necessary. The map scale is 1 inch to 500 feet as approved by the MDSL(now MDEQ) on March 1, 1982, unless other scales are necessary to provide the required information.