

Part IV - Reclamation Plan

A. Post-mining Land Use

1. Describe the proposed post-mining land use(s) for the permit area. If more than one land use is proposed, show on a map and give acreage for each use. Include comments from the legal owner of record concerning the proposed land use. (780.23, 816.133) See Attachment IV-A-1

1 acre permanent water impoundment, fish & wildlife
habitat

21 acres undeveloped or no current use

2. Is the proposed land use different from the current land use? (780.23, 816.133) (XXX)Yes () No

If yes, complete the following:

- (a) Is the area zoned for the proposed land use?
() Yes () No (XXX) N/A

- (b) Is the proposed use compatible with adjacent land uses and applicable local and state land use policies?
(XXX) Yes () No

The proposed post mining landuses of undeveloped lands or no current use or land management, and permanent water impoundments, Fish and Wildlife Habitat, are compatible with the landuses of the surrounding area. All Basins will be designed, constructed and certified under the direct supervision of a registered professional engineer. There will be no public health or safety hazards or no threat of water diminution or pollution caused by the post mining landuses. The proposed post mining landuses, will not cause unreasonable delays in reclamation.

- (d) Include letters of commitment from outside parties ensuring the provision of any necessary public facilities and any state and local governmental agencies which have to initiate, implement, approve or authorize the proposed land use. See Attached Landuse Letters
- (e) Enclose design plans for the proposed post-mining land use, if applicable. See Attachment III-B-2(a)

Applicant: TTJ, LLC.
Mine Name: Berry Mountain Fines Recovery Operation
Permit Number: P-

B. Grading and Contouring

1. Enclose detailed plans with appropriate cross-sections or maps which satisfy the requirements of Section 780.18(b)(3 and 4).

See the Attachment IV-B.-1. Terraces will be constructed a maximum of 100 feet apart on slopes to minimize erosion. Terraces will not be excessive in width or have greater than 50% outer slopes.

2. Complete the following timetable: [780.18(b)(1)]

Increment (if applicable)	# Months After Operation Begins	% Of Increment of Permit Which Will Be Graded and Contoured
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1	1 months	0%
	3 months	25%
	6 months	50%
	9 months	75%
	12 months	100%

** Grading will be kept to within 6 months or four spoil ridges from the active. 180 days following removal of all coal from a given increment, the increment will be backfilled and graded.

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3. On appropriate map(s), show representative values for the following: [780.18(b)(3), 816.102]

- (a) Percent of slope before mining; and
- (b) Proposed post-mining slope including final slope of the highwall(s) in percent.

Land slope measurements on the permit map indicate an average premining slope of 24%. The final average post-mining slope will not exceed the pre-mining slope. Final slopes will not exceed the steepest existing slope, 33%. Please note that the term pre-mining as used above addresses the state of the land prior to any mining having occurred, whether conducted by TTJ, LLC., or others. Existing contours on the proposed permit area are based on field surveying by PERC Engineering Company, Inc. and show post mining conditions. There is an existing pre-law highwall adjacent to the proposed permit area. However, this highwall will not be advanced during the fine recovery operation and will not be reclaimed.

4. Complete the following:

- (a) Is the mining operation to be conducted on a pre-existing (prior to August 3, 1977) highwall?

(XXX) Yes () No

- (b) Is the operation of such limited slope as to not generate enough material to completely backfill the re-affected or enlarged highwall?

(XXX) Yes () No

If Yes, provide analysis to show maximum extent of backfilling possible.

There is a pre-existing highwall. This highwall will not be advanced or reclaimed.

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Attachment IV-B-1

OVERBURDEN RESTABILIZATION PLAN

All overburden shall be backfilled, compacted, and graded so that the post mining slope will approximate the pre-mining slope and in a timely manner. (See Part IV.-B.-2). Overburden will be rough graded by dozers. Once overburden has been rough graded, farm-type tractors will be used to disc the overburden to its final contour, decrease compaction, and increase the mechanical breakage of the surface layer.

Grading and contouring will proceed as part of the mining sequence. Spoil will be graded up to 180 days or four spoil ridges from the active pit. Mobile equipment will be used for grading at this site. Spoil peaks will be graded and depressions filled. Excess spoil from this process will be placed in the final pit and backfilled against the final highwall. There is an existing highwall This highwall will not be advanced or reclaimed. Final average post mining slopes will not exceed the maximum premining slope.

Stabilization of graded material will be achieved by the planting of warm or cool season perennials as outlined in Part IV-C-5 of the permit.

C. Revegetation

- (1) Outline procedures for soil testing required to determine type and amount of soil amendments to be applied and to evaluate results of topsoil handling and replacement. (780.18, 816.25)

Once the texture criteria for final graded overburden has been met as outlined on Attachment IV-C-2, the final texture samples taken shall be sent to a qualified soil testing laboratory where the following tests shall be conducted: pH, fertility ratings for phosphorus, potassium, and magnesium, and amendment recommendations for post mining revegetation for limestone, nitrogen, P₂O₅ and K₂O. Results of this analysis will be used to determine the amount of soil amendments, if any, to be applied to the plant medium and will be submitted to the Regulatory Authority for review.

- (2) Are selected overburden materials to be used as a supplement or substitute for topsoil?
(XXX) Yes () No

If, yes, provide results of analysis, trials, and tests required under Section 816.22(e). (779.21)

See Attachment IV-C-2

- (3) Are commercial or introduced species to be used?
() Yes (XXX) No

If yes, give a narrative with supporting references which show that the species meet the requirements of Section 816.112. (780.18, 816.112)

- (4) Is the area to be reclaimed for fish and wildlife habitat?
(XXX) Yes () No

If yes, list the species of plants to be used with a brief description of how they meet the criteria of Section 816.97 (d) (6). [780.18(b) (5 and 6), 816.97(d) (6)]

Basin 001P is to remain as a permanent water impoundment, fish and wildlife habitat

- (5) Complete the following schedules for each increment or sub-area of the permit area. [780.18(b) (5)]

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VEGETATION SCHEDULE

Increment 1-2

Temporary Vegetation

<u>Planting Species</u>	<u>Planting Rate</u>	<u>Planting Methods</u>	<u>Areas to be Dates Planted</u>
Rye Grass Disturbance	10#/acre	Broadcast Fall	All
Browntop Millet	10#/acre	Broadcast Spring	All Disturbance

Permanent Vegetation

<u>Planting Species</u>	<u>Planting Rate</u>	<u>Planting Methods</u>	<u>Areas to Dates be planted</u>
Bermuda	10#/Acre	Broadcast Spring	All Disturbance
Fescue	50#/Acre	Broadcast Both	All Disturbance
Kobe Lespedeza	30#/Acre	Broadcast Spring	All Disturbance
Vetch	30#/Acre	Broadcast Fall	All Disturbance

Note: Planting will take place the 1st planting season after grading occurs.

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6. Describe, in detail, proposed husbandry practices to be used. [780.18(b)(5), 805.13(b)(3)]

In cases where rills and gullies form that exceed performance standards, these areas will be regraded and reseeded. Areas where adequate vegetative cover is not established will be reseeded accordingly using those planting techniques described earlier in response to question IV-C.-5.

7. Describe, in detail, the measures and sampling methods to be used to determine and demonstrate success of revegetation; or methods to demonstrate the productive capacity of reconstructed prime farmland. (780.18, 816.116)

Productivity and revegetation success will be determined in accordance with the Alabama Surface Mining Commission's Technical Manual No. 1, "Approved Statistical Analysis and Sampling Techniques for Determining Revegetation Success on Surface Mine Lands in Alabama", or by other methods which have approval from the Alabama Surface Mining Commission.