

Applicant: <u>GTM Energy Partners, LLC</u>
Mine Name: <u>Mine No. 3</u>
Permit Number: <u>P-3889, Revision R-3</u>

PART IV ADDENDUM TO RECLAMATION PLAN

- 1) The historic premining landuse (undeveloped) and the proposed Revision R-3 post mining landuse for the 17 acres to be added through the above referenced R-3 (undeveloped/no current use and permanent water impoundment, fish and wildlife habitat) is compatible with the surrounding landuse and of the previously approved Permit P-3889.
- 2) No prime farmland exists within the permit area.
- 3) Completeness of contouring, backfilling, and grading shall follow the same requirements as the previously approved Reclamation Schedule. All grading and contouring shall follow the approximate original contours.
- 4) Topsoil handling and revegetation will follow the originally approved Reclamation Plan in the Permit P-3889.
- 5) Husbandry practices and sampling to determine success of revegetation shall be in accordance with the originally approved Permit P-3889.

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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 the Auburn University Soil Testing Laboratory (or other equally valid laboratories) where the following tests shall be conducted: % sand, silt, & clay, textural classification, pH, total sulfur, acid-base account, fertility ratings for phosphorus, potassium, and magnesium, and amendment recommendations for post mining revegetation for limestone, nitrogen, P₂O₅ and K₂O. Sampling frequency shall be 1 sample/5 acres of area included in the variance area as a result of Revision R-3. 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 prior to Phase I bond release 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)

A topsoil variance is requested for 5 acres of previously disturbed area within the permit area that is added under Revision R-3. See Attachment IV-C-2

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ATTACHMENT IV-C-2
OVERBURDEN RESTABILIZATION PLAN

Due to the fact that previous disturbance has occurred on approximately 5 acres within the proposed Revision R-3 area, and within these areas no topsoil exists to reclaim with, a Topsoil Variance is requested for these previously disturbed areas. Chemical analysis from overburden samples submitted with the original permit application from an adjacent area just northeast of the R-3 topsoil variance area revealed that this spoil is not acid-forming (see original permit application).

All overburden shall be backfilled, compacted, and graded so that the post mining slope will approximate the pre-mining slope (See Attachment IV-B-3) and in a timely manner (See Part IV-B-2). Overburden will be rough graded by Caterpillar type dozers. As required by the Regulations, the best available overburden material will be utilized for revegetation within these disturbed areas. 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. Rocks 24" in diameter that remain upon the surface, if any, will be collected and buried. At this time the following criteria will be used to evaluate the textural quality of the graded overburden:

- a) Rocks of a size greater than 10" shall not exceed 10% by weight of the substitute material.
- b) The substitute material shall not contain more than 50% by weight of materials greater than 0.75 inches in size.
- c) At least 30% by weight of the substitute material shall be of a size less than 2 millimeters.

This textural criteria is adequate for the proposed post mining landuse within areas added to the topsoil variance through this revision, which is "no current use or undeveloped". Sampling frequency shall be 1 sample/5 acres. Each sample will be selected as the most representative of the area for texture. Samples will be taken by digging a cylindrical to slightly conical shaped hole 6 inches deep with a spade or other suitable equipment. All contents of this section will be included in the sample. The results of sieve analysis for these samples will be submitted to the Regulatory Authority for review and compared to the above criteria for approval prior to Phase I bond release. If this criteria is not met, GTM Energy Partners, LLC, shall redisc the overburden and resample. If increasing the mechanical breakage will not enhance the graded overburden to a satisfactory level, additional soil sized material will be hauled and spread on site or rocks collected and buried until the above criteria is achieved prior to Phase I bond release.