



Jeremiah W. (Jay) Nixon, Governor

Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

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MEMORANDUM

DATE: July 5, 2011

TO: Land Reclamation Commission

FROM: Zach Davenport, Environmental Specialist (*Original Signed by David Dowdy for Zach Davenport*)
Land Reclamation Program

SUBJECT: Report on Montrose Badlands Reclamation Project

Location:

The Montrose Badlands Reclamation Project is part of the Germantown Problem Area and is located approximately one mile north and one mile west of Montrose, Missouri, on County Road SW1301 in Henry County. The legal description of the project site W½ of Section 11, T40N, R28W. This site can be found on the Montrose, MO-KANS. 7.5' Quadrangle Map. The construction access to the site will be by way of existing county roads and farm access roads.

History:

Peabody Coal Company strip-mined over 2,400 acres in the immediate area between the Mid-1950's and the late-1980's. The Tebo Coal Bed and the Weir-Pittsburg Coal Bed located approximately ten feet below the Tebo were both mined in tandem. Approximately 1,700 acres are considered abandoned since they were mined prior to the 1977 SMCRA regulations. In 1987, nearly 700 acres of abandoned mine lands were partially graded, limed and revegetated as part of the original Germantown Project.

Project Design:

The project has been assigned a Priority 2 rating for reclamation. The scope of work consists of ten (10) acres of mine spoils, dangerous piles and embankments (DPE's), 500 feet of dangerous highwall (DH) located adjacent to County Road SW1301, a water impoundment ensuing in approximately seven and one-half (7.5) acres of clogged stream lands (CSL), and three small pools of standing water classified as polluted water agriculture/industrial (PWA) due to acidic conditions. The project will consist of removing coal waste and disposing of it properly (on-site), while clearing, grubbing, grading, liming, fertilizing, mulching, and seeding the entire project site. A dam will be placed in conjunction with the grading and movement of coal waste/spoil, to improve water quality and increase the amount of surface water on the site.



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The highwall located along the county road will be reclaimed with earthen material obtained from the East side of the site. The highwall is roughly ten feet in height. The main pit has a fairly healthy body of water and it is anticipated that reclamation process should improve the water quality substantially. The dam to be placed in the pit will raise the water level approximately 12-14 feet.

The mine spoils will be graded to an average two (2) to three (3) percent slope. These spoils are extremely acidic and will require large quantities of lime to be applied and incorporated into the upper eighteen inches of spoil. Once the mine spoils are graded, limed and fertilized, they will be seeded to a temporary cover crop to add organic matter to the soil. This will allow any additional lime and fertilizer amendments to be added, as specific site conditions dictate. After a series of two consecutive cover crops, the site will be permanently seeded to a cool-season grass/legume mix, which will be utilized for pasture.

Contract Award:

Intent to Award the contract for the Montrose Badlands Reclamation Project (#Y1105-01) was issued on April 29, 2011, to Hale Fencing and Bobcat Services, LLC in Henley, Missouri, in the amount of \$464,122.50. Notice to proceed was issued by the Office of Administration, Division of Facilities Management, Design and Construction on May 20, 2011. The Contract completion date is November 4, 2011.

ZD:ms