KU KANSAS GEOLOGICAL SURVEY
The University of Kansas

October 29, 2008

Mr. Terry Fox, L.G.
Triad Environmental Services
P.O. Box 1507
Pittsburg, KS 66762

Re: Lee Hurt Road Reclamation Project
KS-0018, KS-0194, KS-0405, KS-0407, KS-0414, KS-0415, KS-0549
Parts of Sections 1, 11, 12, 13 and 14, T. 30 S., R. 25 E.
Crawford County, Kansas

Dear Terry:

I have reviewed the information that you recently sent to the Kansas Geological Survey concerning the seven proposed reclamation projects planned for small areas located within portions of Sections 1, 11, 12, 13 and 14, T. 30 S., R. 25 E. in Crawford County Kansas as shown on your project location map. All of these project areas presently contain hazards along the Lee Hurt Road or other local roads as a result of past strip-mining for the Weir-Pittsburg coal. The Weir-Pittsburg coal bed is part of the Cabaniss Formation of the Cherokee Group of rocks in southeastern Kansas.

The planned reclamation efforts should help correct shallow water problems that are present close to existing roads, and correct problem slopes by extending the slopes away from the roads for a minimum distance of 80 ft. The Weir-Pittsburg coal was the coal strip-mined and possible deep-mined in the planned reclamation areas. No coal beds underlie the Weir-Pittsburg coal in these areas that could be economically mined by surface or underground mining methods. Very little, if any Weir-Pittsburg coal remains in the seven planned reclamation sites.

The potential for additional strip-mining or possible deep mining of Weir-Pittsburg coal at this proposed reclamation project is not a concern. I do not anticipate any additional mining in the immediate areas of the planned reclamation, and you should continue with your reclamation plans.

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of the reclamation of this property.

Sincerely,

Lawrence L. Brady

Lawrence L. Brady
Senior Scientific Fellow

TRIAD
ENVIRONMENTAL SERVICES

GEOLOGICAL ENGINEERING SOLUTIONS FOR TODAY'S ENVIRONMENTAL CONCERNS
P.O. BOX 1507 • PITTSBURG, KS 66762 • (620) 231-5660 • FAX (620) 231-5661

October 22, 2008

Dr. William E. Harrison, Director
Kansas Geological Survey
University of Kansas
1930 Constant Ave. – Campus West
Lawrence, Kansas 66047-3726

RE: Lee Hurt Road Reclamation Project
Crawford County, Kansas
KS-0018, KS-0194, KS-0405, KS-0407, KS-0414, KS-0415, KS-0549

Dear Mr. Harrison,

Triad Environmental Services was retained to design the reclamation of the Lee Hurt Road AML Reclamation Project for the Kansas Department of Health and Environment (KDHE), Surface Mining Section (SMS). The project consists of seven (7) small project areas located in Sections 1, 11, 12, 13, and 14, T30S, T25E, Crawford County, Kansas (Location Map attached).

Reclamation of the sites is being considered by the Surface Mining Section to minimize the hazards typically associated with surface coal mining operations. The majority of the projects entail taking steep slopes and water hazards adjacent to roads and constructing safe recoverable slopes extending a minimum of 80 feet from the edge of the road. Attached is a project description that briefly discusses each area. On behalf of KDHE/SMS we are requesting a letter from the Kansas Geological Survey stating whether or not it is considered likely that the project area will be mined in the future.

We would appreciate a reply at your earliest convenience. If you have any questions, please feel free to call.

Respectfully,

Terry Fox, L.G.

cc: KDHE, Surface Mining Section

LEE HURT ROAD
RECLAMATION PROJECT

SITE DESCRIPTIONS

KS-0018 (KDWP): Reclamation will consist of constructing a safe recoverable slope which extends a minimum of 80 feet from the east edge of 260th street (Lee Hurt Road). This will entail construction of a rock dam and partial backfill of approximately 0.49 acres of shallow pit left by previous surface mining and reclamation operations.

KS-0194 (Private, KDWP): Reclamation will consist of addressing four (4) shallow (4-6') water filled structures located adjacent to 260th Street (Lee Hurt Road) and 570th Ave. Approximately 1.61 acres of shallow pit will be backfilled, with drainage reestablished in the form of waterways or roadside ditches. A (RCP) culvert will be installed to route the drainage from Section 13 to Section 12. Existing spoil will be used for backfill. It is anticipated that an equivalent area of shallow water resources will be replaced in the KDWP Wildlife Area.

KS-0405 (Private, KDWP): Reclamation will consist of constructing a safe recoverable slope which extends a minimum of 80 feet from the east and west edges of 260th street (Lee Hurt Road). On the west side, a rock dam will be constructed and approximately 0.09 acres of shallow pit adjacent to the road will be back filled. On the east side a rock dam will be constructed and approximately 0.20 acres of shallow pit will be backfilled.

KS-0407 (Private, KDWP): Reclamation will consist of partially backfilling shallow pits immediately adjacent to 260th street (Lee Hurt Road) and constructing recovery zones which extend a minimum of 80 feet from the edge of the road. A corroded metal culvert which transfers the drainage from east to west will be replaced with a reinforced concrete pipe. On the west side of 260th street, approximately 0.47 acres of shallow pit will be backfilled. An equivalent impoundment will be constructed west of the existing pit. On the east side, a rock dam will be constructed and approximately 0.11 acres of shallow pit will be backfilled. Existing spoil will be used for backfill, with the borrow area shaped into a small parking area to provide access to the KDWP Wildlife Area.

KS-0414 (Private): Reclamation will consist of backfilling portions of shallow pits left from previous surface mining and reclamation and construction of a recovery zone extending a minimum of 80 feet from the edge of 580th Ave. The site is divided into a West area and an East area. In the West area, a rock dam will be constructed and approximately 0.25 acres of shallow pit on the north side of the

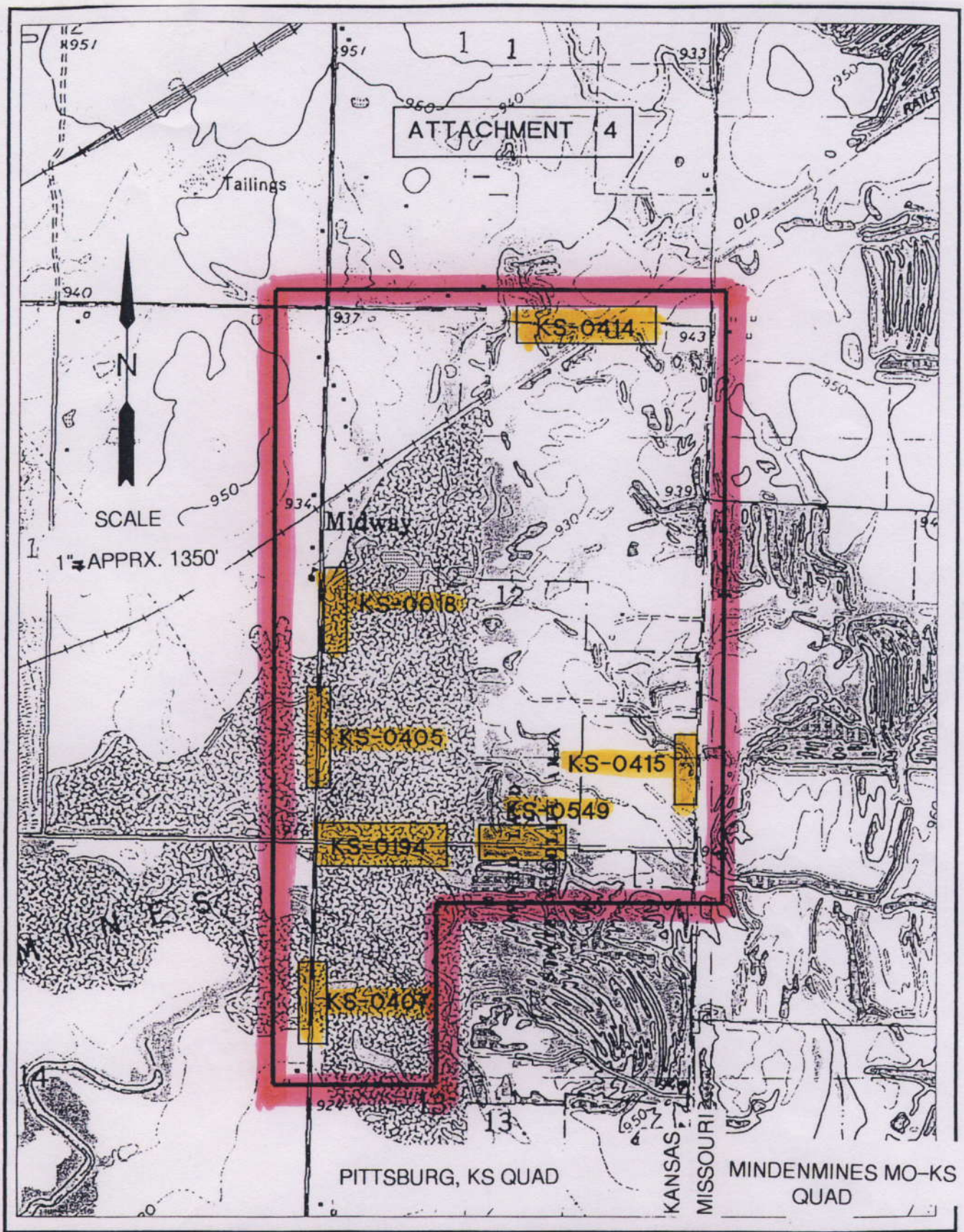
road will be backfilled, with approximately 0.12 acres of water filled pit backfilled and shaped into a waterway on the south side of the road.

In the East project area, approximately 0.23 acres of shallow pits will be backfilled, with a culvert installed to route the drainage under an existing driveway. Steep slopes surrounding the remaining portion of remaining pit will be graded to provide backfill material. In addition, the remaining pit will be enlarged to replace water lost by backfilling.

KS-0415 (Private): Reclamation will consist of constructing a recoverable slope which extends a minimum of 80 feet from the west edge of 270th Street (State Line Road). A rock dam will be constructed and approximately 0.17 acres of shallow pit adjacent to the road will be backfilled. Portions of the remaining pit will be enlarged to provide backfill material.

KS-0549 (KDWP): Reclamation will consist of constructing recoverable slopes north and south of 570th Ave. extending a minimum of 80 feet from the edge of the road. On the north side of the road a small parking area will be constructed in the borrow area to provide access to the KDWP wildlife area. On the south side of the road, a waterway will be constructed to route the roadside drainage to an existing impoundment on the KDWP wildlife area.

Following backfilling and grading, all areas will be amended as necessary with lime and then re-seeded and mulched. Rock will be added to the drainages as necessary. Existing fences will be replaced and new fencing will be constructed in the KDWP wildlife areas to limit vehicle access.



KDHE - Surface Mining Section, Engineering	Project PADs: KS-0018, -0194, -0405, -0407, -0414, -0415 & -0549.
For: ENGINEERING CONSULTING SERVICES	Date: 10–2008
Description: LEE HURT ROAD PROJECT LOCATION	By: JGB
Location: Sections 1, 11, 12, 13, & 14, T. 30 S., R. 25 E.	Drawing: pbrgquad.dwg/leehurtroad