

NATURAL RESOURCES CONSERVATION SERVICE
Wyoming
CONSTRUCTION SPECIFICATIONS
FOR
POND SEALING OR LINING
BENTONITE TREATMENT

(Owner/Operator)	(Project Title)
<p>GENERAL</p> <p>Installation shall be in accordance with an approved design and plan. Details of construction shown on the drawings but not included herein are considered as a part of this specification. Construction activities shall be in accordance with applicable OSHA regulations.</p> <p>Personnel on site during the application or the mixing of bentonite shall wear mask and goggles.</p> <p>MATERIALS</p> <p>The bentonite shall be a sodium type and from the source specified, unless laboratory tests are completed for alternative bentonite sources and the design application rates adjusted accordingly. Such tests shall be performed on site soil proposed for the lining and bentonite of the quality and source proposed.</p> <p>SITE PREPARATION</p> <p>The area to be treated shall be cleared of all vegetation, organic materials, rocks or other objects that will interfere with the operation of mixing or compaction equipment. The subgrade for the liner shall be compacted to provide a firm, unyielding foundation.</p> <p>PLACEMENT</p> <p>Bentonite material shall be distributed evenly at the specified rates over the surface of each layer to be treated. The bentonite shall be thoroughly mixed into each layer by mixing with a disk, rototiller, pulverizer or similar equipment. The</p>	<p>moisture content of the soil materials shall be in the range of optimum moisture for compaction to 2 percent above optimum. Water shall be added by sprinkling after the mixing operation if the moisture content is too low. Soils that are too wet will be dried by discing or other suitable means before the spreading of the bentonite.</p> <p>Rubber tired equipment, smooth steel-rollers or crawler treads are preferred for compacting the liner layers.</p> <p>Unless otherwise specified the maximum thickness of individual lifts prior to compaction shall be 9 inches.</p> <p>COMPACTION</p> <p>Unless otherwise specified each layer of the liner shall be compacted to at least 90 percent of maximum standard proctor density.</p> <p>Liner materials not meeting the required minimum density or not within the specified moisture range shall be removed, replaced, and/or reworked to achieved the specified moisture and density.</p> <p>PROTECTION</p> <p>Unless otherwise specified a 6-inch minimum thick soil cover will be placed over the surface compacted soil liner.</p> <p>ADDITIONAL SPECIFICATIONS</p>