

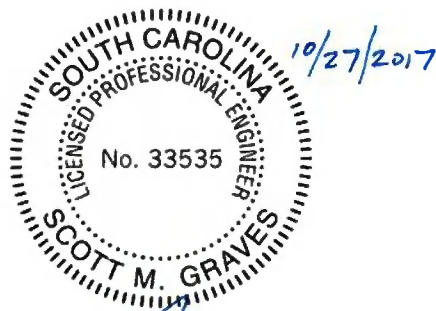
Certification for Design of Composite Liner and Leachate Collection and Removal System

Federal CCR Rule: 40 CFR §257.70

CCR Unit: WGS Class Three Landfill (CCR Landfill)

Certification:

I, **Scott M. Graves**, a qualified professional engineer registered in the state of **South Carolina**, am the design engineer-of-record for the above-referenced CCR Unit – the design of which is documented in the *Winyah Generating Station Class Three Landfill Permit Application* approved by the South Carolina Department of Health and Environmental Control (DHEC) on 15 September 2017 [Permit #LF3-00042]. In my professional opinion, I find and certify that the design of the composite liner (including alternative composite liner) and the leachate collection and removal system for the WGS Class Three Landfill meets the design criteria requirements of 40 CFR §257.70. This certification applies to the design of two allowable options for the composite liner: (i) the “standard” composite liner that complies with 40 CFR §257.70(b); and (ii) an alternative composite liner that complies with 40 CFR §257.70(c) including having a liquid flow rate through the lower component of the alternative composite liner is no greater than the liquid flow rate through two feet of compacted soil with a hydraulic conductivity of 1×10^{-7} cm/sec when calculated using Equation 1 of §257.70(c)(2).



Seal and Signature:



Firm Seal

Printed Name: Scott M. Graves

PE License Number: 33535 State: South Carolina