

GROUNDWATER MONITORING SYSTEM CERTIFICATION
LOWER COLORADO RIVER AUTHORITY
COAL COMBUSTION RESIDUALS UNIT: COMBUSTION BYPRODUCTS LANDFILL
FAYETTE POWER PROJECT
La Grange, Texas

AMEC FOSTER WHEELER (Consultant) has been retained by the Lower Colorado River Authority (LCRA) to evaluate the above-referenced coal combustion residuals (CCR) landfill Groundwater Monitoring System (System). The evaluation is conducted in support of verification that the System meets the design and construction requirements specified in 40 C.F.R. § 257.91. Presented below are the project background, limitations, and the Engineer's Certification.

1.0 BACKGROUND

Pursuant to 40 C.F.R. § 257.90(b)(2), owners and operators of new CCR landfills, new CCR surface impoundments, and all lateral expansions of existing CCR unit, must develop a Groundwater Monitoring System, as required by 40 C.F.R. § 257.91. 40 C.F.R. § 257.91 requires owners and operators of a CCR unit to construct a System that consists of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from the uppermost aquifer that accurately represent the quality of background groundwater that has not been affected by leakage from the CCR unit and accurately represent the quality of groundwater passing the waste boundary of the CCR unit. The System design is also based on local hydrogeologic conditions, and CCR unit design.

Pursuant to 40 C.F.R. § 257.91(f), the owner or operator must obtain certification from a qualified Professional Engineer stating that the System has been designed and constructed to meet the requirements of 40 C.F.R. § 257.91, including the performance standards specified in 40 C.F.R. § 257.91(a), based on the site-specific information specified in 40 C.F.R. § 257.91(b).

In support of the Consultant's assessment, the Consultant evaluated the System for the above-referenced CCR unit, and prepared the document titled *Combustion Byproducts Landfill – Coal Combustion Residuals Rule Groundwater Monitoring Well System, Lower Colorado River Authority (LCRA), Fayette Power Project, La Grange, Texas*, dated October 16, 2017. Based on past hydrogeologic assessment, and CCR unit design, the Consultant has determined that sufficient information is available to make the requisite certification.

2.0 LIMITATIONS

The Consultant's signature on this document represents that to the best of the Consultant's knowledge, information, and professional judgment, the aforementioned information is accurate as of the signature date. The Consultant's opinions and decisions are made on the basis of the Consultant's experience, qualifications, and professional judgment and are not to be construed as warranties or guaranties. In addition, opinions relating to environmental, geologic, and geotechnical conditions (or other estimates) are based on available data, and actual conditions may vary from those encountered at the times and locations where data are obtained, despite the use of due care.

3.0 CERTIFICATION

I, **Seth Green**, being a Registered Professional Engineer with the State of Texas, do hereby certify to the best of my knowledge, information, and belief, that the Groundwater Monitoring System for the CCR Unit: Combustion Byproducts Landfill, has been designed and constructed to meet the requirements of 40 C.F.R. § 257.91 and in accordance with recognized and generally accepted good engineering and scientific practices.

SIGNATURE



DATE

10/16/17

