

SCS ENGINEERS

October 11, 2017
File No. 25216073.17

Mr. Rob Saunders
Ottumwa Generating Station
20775 Power Plant Road
Ottumwa, Iowa, 52501

Subject: Groundwater Monitoring System Certification
Ottumwa-Midland Landfill, Ottumwa, Iowa

Dear Mr. Saunders:

The groundwater monitoring system at the Ottumwa-Midland Landfill (OML) is designed and constructed to meet the requirements of 40 CFR 257.91. The monitoring network is sufficient to accurately represent the quality of background groundwater that has not been affected by leakage from the coal combustion residue (CCR) unit and the quality of groundwater passing the waste boundary of the CCR unit.

Based on the design information provided for our review, the number, spacing, and depths of the monitoring system components were determined using site-specific information in accordance with 40 CFR 257.91(b).

The groundwater monitoring system consists of two upgradient and three downgradient monitoring wells, which exceeds the minimum requirements of 40 CFR 257.91(c)(1).

The groundwater monitoring system at the Ottumwa-Midland Landfill is a multi-unit system. The Ottumwa-Midland Landfill includes two existing CCR units which are contiguous:


- OML Existing Landfill
- OML Expansion Phase 1

The multi-unit system is designed to detect monitored constituents at the waste boundary of the facility as required by 40 CFR 257.91(d).

Based on the installation documentation provided for our review, the monitoring wells have been cased in a manner that will maintain the integrity of the monitoring well borehole and were constructed in accordance with the requirements of 40 CFR 257.91(e).



P.E. Certification

	<p>I, Eric J. Nelson, hereby certify that that the groundwater monitoring system at the Ottumwa-Midland Landfill has been designed and constructed to meet the requirements of 40 CFR 257.91. This certification is based on my review of documentation in the operating record regarding the design, installation, and development of the groundwater monitoring system components. I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p>
	<p><i>Eric J. Nelson</i> <i>10/11/2017</i></p>
	<p>(signature) (date)</p>
	<p><i>Eric J. Nelson</i></p>
	<p>(printed or typed name)</p>
<p>License number <u>23136</u></p>	
<p>My license renewal date is December 31, <u>2018</u>.</p>	
<p>Pages or sheets covered by this seal: <i>GROUNDWATER MONITORING SYSTEM CERTIFICATION</i> <i>(2 PAGES)</i></p>	
<p> </p>	

Sincerely,



Eric J. Nelson, PE
Senior Project Manager
SCS ENGINEERS



Thomas J. Karwoski
Senior Project Manager
SCS ENGINEERS

MDB/jsn/EN/SC/TK

cc: Jeff Maxted, Alliant Energy
Matt Hanson, Ottumwa Generating Station