

**PLACEMENT ABOVE THE UPPERMOST AQUIFER LOCATION RESTRICTIONS  
SOUTH ASH PONDS 2S AND 3S  
WILL COUNTY STATION  
OCTOBER 2018**

Pursuant to Code of Federal Regulations Title 40, Part 257, Subpart D (40 CFR), Section 257.62, Geosyntec Consultants (Geosyntec) prepared this report to document compliance with location restrictions related to placement above the uppermost aquifer for the existing South Ash Pond 2S and South Ash Pond 3S (the Ponds) at the Will County Station (Site) in Romeoville, Illinois.

The work presented in this report was performed under the direction of Mr. Jesse Varsho, P.G., P.E., of Geosyntec. Ms. Jane Soule, P.E., reviewed this report in accordance with Geosyntec's senior review policy.

**1. Placement**

South Ash Pond 2S and South Ash Pond 3S are not separated from the upper limit of the uppermost aquifer by a minimum of five (5) feet.

**2. Limitations and Certification**

This report was prepared in accordance with current practices and the standard of care exercised by scientists and engineers performing similar tasks in the field of civil engineering. The contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.



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**WETLANDS LOCATION RESTRICTIONS  
SOUTH ASH PONDS 2S AND 3S  
WILL COUNTY STATION  
OCTOBER 2018**

Pursuant to Code of Federal Regulations Title 40, Part 257, Subpart D (40 CFR), Section 257.61, Geosyntec Consultants (Geosyntec) prepared this report to document compliance with location restrictions related to wetlands for the existing South Ash Pond 2S and South Ash Pond 3S (the Ponds) at the Will County Station (Site) in Romeoville, Illinois.

The work presented in this report was performed under the direction of Mr. Jesse Varsho, P.G., P.E., of Geosyntec in accordance with §257.61. Ms. Jane Soule, P.E., reviewed this report in accordance with Geosyntec's senior review policy.

**1. Wetlands Location Restriction Determination**

South Ash Pond 2S and South Ash Pond 3S are not located in mapped wetlands included in the National Wetlands Inventory – Version 2 presented by the U.S. Fish and Wildlife Service (USFW) [USFW, 2018]. Therefore, the locations of the Ponds are in compliance with the requirements outlined in §257.61(a).

**2. Limitations and Certification**

This report was prepared in accordance with current practices and the standard of care exercised by scientists and engineers performing similar tasks in the field of civil engineering. The contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.



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Wetlands Location Restrictions  
South Ash Pond 2S and South Ash Pond 3S, Will County Station  
October 2018

### **3. *References***

USFS, 2018. "National Wetlands Inventory, Version 2," <https://www.fws.gov/wetlands/data/Mapper.html>, updated 1 May 2018, accessed 28 August 2018.

**FAULT AREAS LOCATION RESTRICTIONS  
SOUTH ASH PONDS 2S AND 3S  
WILL COUNTY STATION  
OCTOBER 2018**

Pursuant to Code of Federal Regulations Title 40, Part 257, Subpart D (40 CFR), Section 257.62, Geosyntec Consultants (Geosyntec) prepared this report to document compliance with location restrictions related to fault areas for the existing South Ash Pond 2S and South Ash Pond 3S (the Ponds) at the Will County Station (Site) in Romeoville, Illinois.

The work presented in this report was performed under the direction of Mr. Jesse Varsho, P.G., P.E., of Geosyntec in accordance with §257.62. Ms. Jane Soule, P.E., reviewed this report in accordance with Geosyntec's senior review policy.

**1. *Fault Areas Location Restriction Determination***

South Ash Pond 2S and South Ash Pond 3S are not located within 200 feet (60 meters) of a mapped Holocene-aged fault, as mapped by the United States Geological Survey (USGS) Quaternary Fault Database [USGS, 2018]. Therefore, the locations of the Ponds are in compliance with the requirements outlined in §257.62(a).

**2. *Limitations and Certification***

This report was prepared in accordance with current practices and the standard of care exercised by scientists and engineers performing similar tasks in the field of civil engineering. The contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.



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Fault Areas Location Restrictions  
South Ash Pond 2S and South Ash Pond 3S, Will County Station  
October 2018

### **3. *References***

USGS, 2018. “Quaternary Fault and Fold Database,”  
<https://earthquake.usgs.gov/hazards/qfaults/>, accessed 28 August 2018.

**SEISMIC IMPACT ZONES LOCATION RESTRICTIONS  
SOUTH ASH PONDS 2S AND 3S  
WILL COUNTY STATION  
OCTOBER 2018**

Pursuant to Code of Federal Regulations Title 40, Part 257, Subpart D (40 CFR), Section 257.63, Geosyntec Consultants (Geosyntec) prepared this report to document compliance with location restrictions related to seismic impact areas for the existing South Ash Pond 2S and South Ash Pond 3S (the Ponds) at the Will County Station (Site) in Romeoville, Illinois.

The work presented in this report was performed under the direction of Mr. Jesse Varsho, P.G., P.E., of Geosyntec in accordance with §257.63. Ms. Jane Soule, P.E., reviewed this report in accordance with Geosyntec's senior review policy.

**1. *Seismic Impact Zones Restriction Determination***

South Ash Pond 2S and South Ash Pond 3S are not located within a seismic impact zone as defined in §257.53 and as mapped by the United States Geological Survey (USGS) [USGS, 2014]. Therefore, the locations of the Ponds are in compliance with the requirements outlined in §257.63(a).

**2. *Limitations and Certification***

This report was prepared in accordance with current practices and the standard of care exercised by scientists and engineers performing similar tasks in the field of civil engineering. The contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.



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Seismic Impact Zones Location Restrictions  
South Ash Pond 2S and South Ash Pond 3S, Will County Station  
October 2018

### **3. *References***

USGS, 2014. "2014 U.S. Geological Survey National Seismic Hazard Maps, PGA 2% in 50 Years," <https://earthquake.usgs.gov/hazards/hazmaps/conterminous/index.php#2014>, accessed 28 August 2018.

**UNSTABLE AREAS LOCATION RESTRICTIONS  
SOUTH ASH PONDS 2S AND 3S  
WILL COUNTY STATION  
OCTOBER 2018**

Pursuant to Code of Federal Regulations Title 40, Part 257, Subpart D (40 CFR), Section 257.64, Geosyntec Consultants (Geosyntec) prepared this report to document compliance with location restrictions related to unstable areas for the existing South Ash Pond 2S and South Ash Pond 3S (the Ponds) at the Will County Station (Site) in Romeoville, Illinois.

The work presented in this report was performed under the direction of Mr. Jesse Varsho, P.G., P.E., of Geosyntec in accordance with §257.64. Ms. Jane Soule, P.E., reviewed this report in accordance with Geosyntec's senior review policy.

**1. *Unstable Areas Restriction Determination***

South Ash Pond 2S and South Ash Pond 3S are not located in unstable areas based on a review of subsurface investigations at the site [Patrick, 2011], published liquefaction maps [ISGS, 2008] and a site visit by Geosyntec. Therefore, the locations of the Ponds are in compliance with the requirements outlined in §257.64(a).

**2. *Limitations and Certification***

This report was prepared in accordance with current practices and the standard of care exercised contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.



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Unstable Areas Location Restrictions  
South Ash Pond 2S and South Ash Pond 3S, Will County Station  
October 2018

### **3. *References***

Illinois State Geological Survey (ISGS), 2008. "Illinois USGS I-2789 Map," accessed as GIS shape file, downloaded from <http://isgs.illinois.edu/earthquake-consortium/digital-maps>, 26 September 2018.

Patrick Engineering, 2011. "Hydrogeologic Assessment Report, Will County Generating Station, Romeoville, Illinois," Patrick Project Number 21053.070, February.