

# Post-Closure Care Plan Amendment No. 1

Slag Pond  
Former Nelson Dewey Generating Station  
Cassville, Wisconsin

Prepared for:

Wisconsin Power and Light Company  
4902 N. Biltmore Lane  
Madison, Wisconsin 53718

**SCS ENGINEERS**

25222071.00 | June 30, 2022

2830 Dairy Drive  
Madison, WI 53718-6751  
608-224-2830

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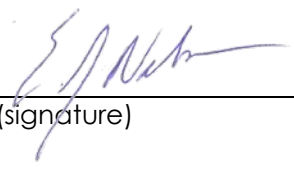
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## PE CERTIFICATION

	<p>I, Eric J. Nelson, hereby certify that this amended Post-Closure Care Plan meets the requirements of 40 CFR 257.104(d), was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.</p>
	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">               (signature)         </div> <div style="text-align: right;">             6/30/2022              (date)         </div> </div>
	<p style="text-align: center;">Eric J. Nelson</p> <p>(printed or typed name)</p>
	<p>License number <u>  E-37855-6  </u></p> <p>My license renewal date is <u>  7/31/2022  </u>.</p>
	<p>Pages or sheets covered by this seal:</p> <p style="text-align: center;"><b>Post-Closure Care Plan Amendment No. 1</b></p>

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## 1.0 INTRODUCTION AND PROJECT SUMMARY

On behalf of Wisconsin Power and Light Company (WPL), SCS Engineers (SCS) has prepared this amended Post-Closure Care Plan for the Slag Pond at the Nelson Dewey Generating Station (NED) facility in accordance with 40 CFR 257.104(d) as follows.

**40 CFR 257.104(d).** *“Written post-closure plan – (1) Content of the plan. The owner or operator of a CCR unit must prepare a written post-closure plan that includes, as a minimum, the information specified in paragraphs (d)(1)(i) through (iii) of this section.”*

The NED facility included three coal combustion residuals (CCR) units:

- Slag Pond – The Slag Pond is a closed CCR surface impoundment. The Slag Pond was closed by leaving CCR in place under a final cover system. Therefore, the Slag Pond is also subject to the requirements of 40 CFR 257.104.
- Wisconsin Pollutant Discharge Elimination System (WPDES) Pond – The WPDES Pond is a CCR surface impoundment that was closed by removal in accordance with 40 CFR 257.102(c) and is therefore not subject to the post-closure care criteria under section 40 CFR 257.104. The WPDES Pond is not the subject of this plan and is not discussed further herein.
- CCR landfill – The CCR landfill was closed prior to October 19, 2015, and is not subject to the rule requirements. The closure was approved by the Wisconsin Department of Natural Resources (WDNR) and the facility is currently complying with WDNR Long-Term care requirements including ongoing groundwater monitoring. The closed CCR landfill is not the subject of this plan and is not discussed further herein.

The site location is shown on **Figure 1**. **Figures 2** and **3** show the current conditions at the facility and monitoring locations.

CCR was consolidated within the Slag Pond and the area was closed by covering the CCR with a final cover system as described in the Closure Plan for this CCR unit. WPL is currently conducting post-closure care in accordance with 40 CFR 257.104(b).

## 2.0 MONITORING AND MAINTENANCE ACTIVITIES

**40 CFR 257.104(d)(1)(i).** *“A description of the monitoring and maintenance activities required in paragraph (b) of this section for the CCR unit, and the frequency at which these activities will be performed.”*

Monitoring and Maintenance Activities	Frequency
Mowing	Semi-Annually
Inspections by Owner/Operator	Quarterly
Inspections by Licensed Professional Engineer	As requested by Owner/Operator
Repair to final cover	As needed, determined by inspection
Inspect Groundwater Monitoring System	Quarterly

Monitoring and Maintenance Activities	Frequency
Repair Groundwater Monitoring System	As needed, determined by inspection
Environmental Monitoring (groundwater)	Semi-Annually

The owner/operator will perform quarterly inspections of the final cover surface and groundwater monitoring systems. If issues are noticed during the inspection, action will be taken to remedy the situation. Eroded areas will be repaired and reseeded. Repairs or replacement will be performed on groundwater monitoring system components as needed.

## 2.1 FINAL COVER MAINTENANCE

Mowing will be performed semi-annually during the growing season unless additional mowing is required in response to the vegetation growth rate. If eroded areas are noted during quarterly inspections, WPL will repair and reseed the area.

## 2.2 GROUNDWATER MONITORING AND SYSTEM MAINTENANCE

Groundwater monitoring wells B7R, B11R/B11A/B11B, B26, B31A, and B31R have been installed in accordance with 40 CFR 257.90-98. The wells must continue to be maintained and sampled in accordance with 40 CFR 257.90-98.

## 3.0 POST-CLOSURE PERIOD CONTACTS

**40 CFR 257.104(d)(1)(ii).** “The name, address, telephone number, and email address of the person or office to contact about the facility during the post-closure period.”

The contact information for NED during the post-closure period is as follows:

Alliant Energy  
 Attn: Nelson Dewey Generating Station Site Manager  
 4902 N. Biltmore Lane  
 Madison, WI 53718  
 (800) 255-4268  
 CCRProgram@alliantenergy.com

## 4.0 POST-CLOSURE PERIOD SITE USE

**40 CFR 257.104(d)(1)(iii).** “A description of the planned uses of the property during the post-closure period. Post-closure use of the property shall not disturb the integrity of the final cover, liner(s), or any other component of the containment system or the function of the monitoring systems unless necessary to comply with the requirements of the subpart...”

The final use of the NED Slag Pond will be privately owned green space. With this use, there will be no disturbance of the final cover or any other related components.

## 5.0 CERTIFICATIONS

**40 CFR 257.104(d)(4).** “The owner or operator of the CCR unit must obtain a written certification from a qualified professional engineer that the initial and any amendment of the written post-closure plan meets the requirements of this section.”

Eric Nelson, PE, a licensed professional engineer in the State of Wisconsin, has overseen the preparation of this Post-Closure Care Plan amendment. A certification statement is provided on **page iii** of this plan.

## **6.0 RECORDKEEPING AND REPORTING**

**40 CFR 257.104(b)(2)(iii).** “The owner or operator has completed the written post-closure plan when the plan including the certification required by paragraph (d)(4) of this section, has been placed in the facility’s operating record as required by Section 257.105(i)(4).”

This Post-Closure Care Plan amendment will be placed in the facility’s operating record and on Alliant Energy’s CCR Rule Compliance Data and Information website, as will all future amendments, if any.

WPL will amend the Post-Closure Care Plan if there is a change in operation of the CCR unit that affects the written Post-Closure Care Plan or, if after post-closure activities have started, unexpected events cause a revision of the plan.

WPL will provide notification of completion of the post-closure care no later than 60 days following the completion of the 30-year post-closure care period. The notification will include certification by a qualified professional engineer verifying that post-closure care has been completed in accordance with the plan. The notification will be placed in the facility’s operating record and on the website.

## **7.0 REFERENCES**

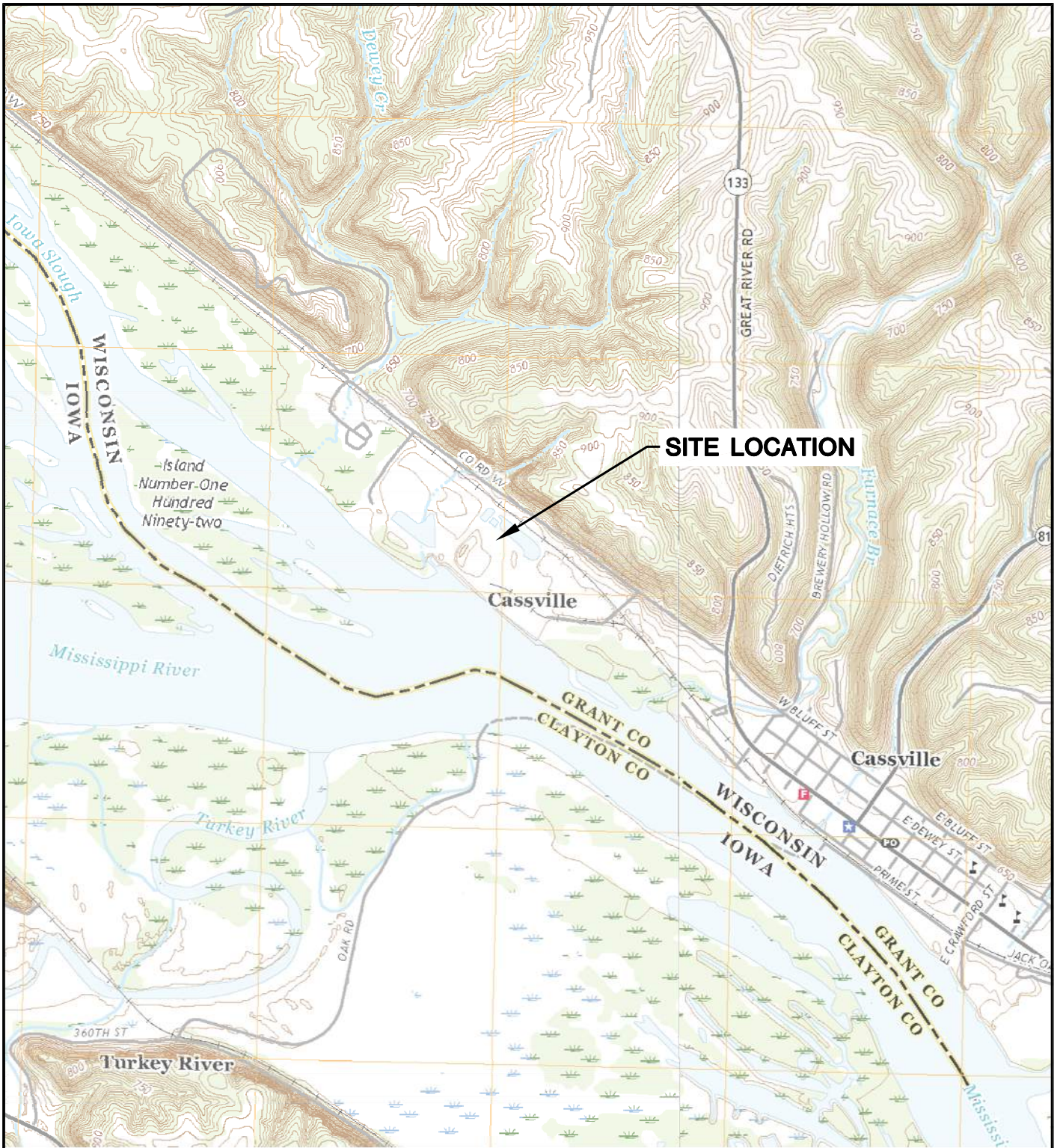
- Post-Closure Care Plan – Slag Pond, Wisconsin Power and Light Company Nelson Dewey Generating Station, SCS Engineers, Madison, Wisconsin, October 6, 2016.



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## Figures

- 1 Site Location Map
- 2 Aerial View
- 3 Site Plan and Monitoring Well Locations

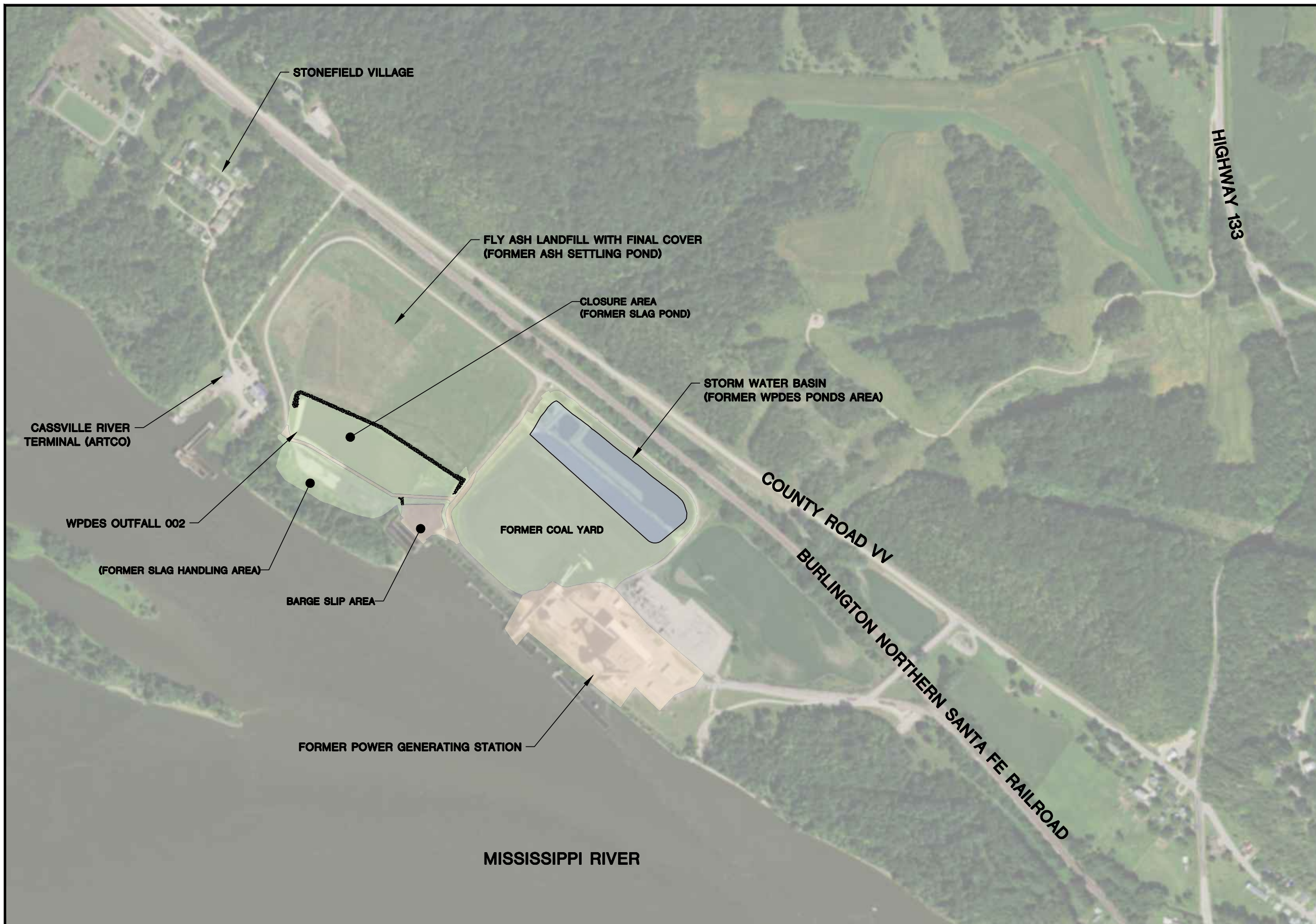


CASSVILLE AND TURKEY RIVER QUADRANGLES  
 WISCONSIN-IOWA  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 2018  
 SCALE: 1" = 2,000'



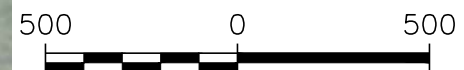
CLIENT	ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718		SITE	ALLIANT ENERGY NELSON DEWEY GENERATING STATION CASSVILLE, WISCONSIN		ENGINEER	SITE LOCATION MAP	
	PROJECT NO.	25220071.00		DRAWN BY:	BSS		<b>SCS ENGINEERS</b> 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE
DRAWN:	11/27/2019	CHECKED BY:	MDB	APPROVED BY:	TK 04/10/2020			
REVISED:	01/14/2020							





NOTES:

1. AERIAL PHOTOGRAPH FROM THE NATIONAL AGRICULTURE IMAGERY PROGRAM AND PUBLISHED BY THE USDA FSA AERIAL PHOTOGRAPHY FIELD OFFICE. DATE OF IMAGE IS AUGUST 24, 2015.

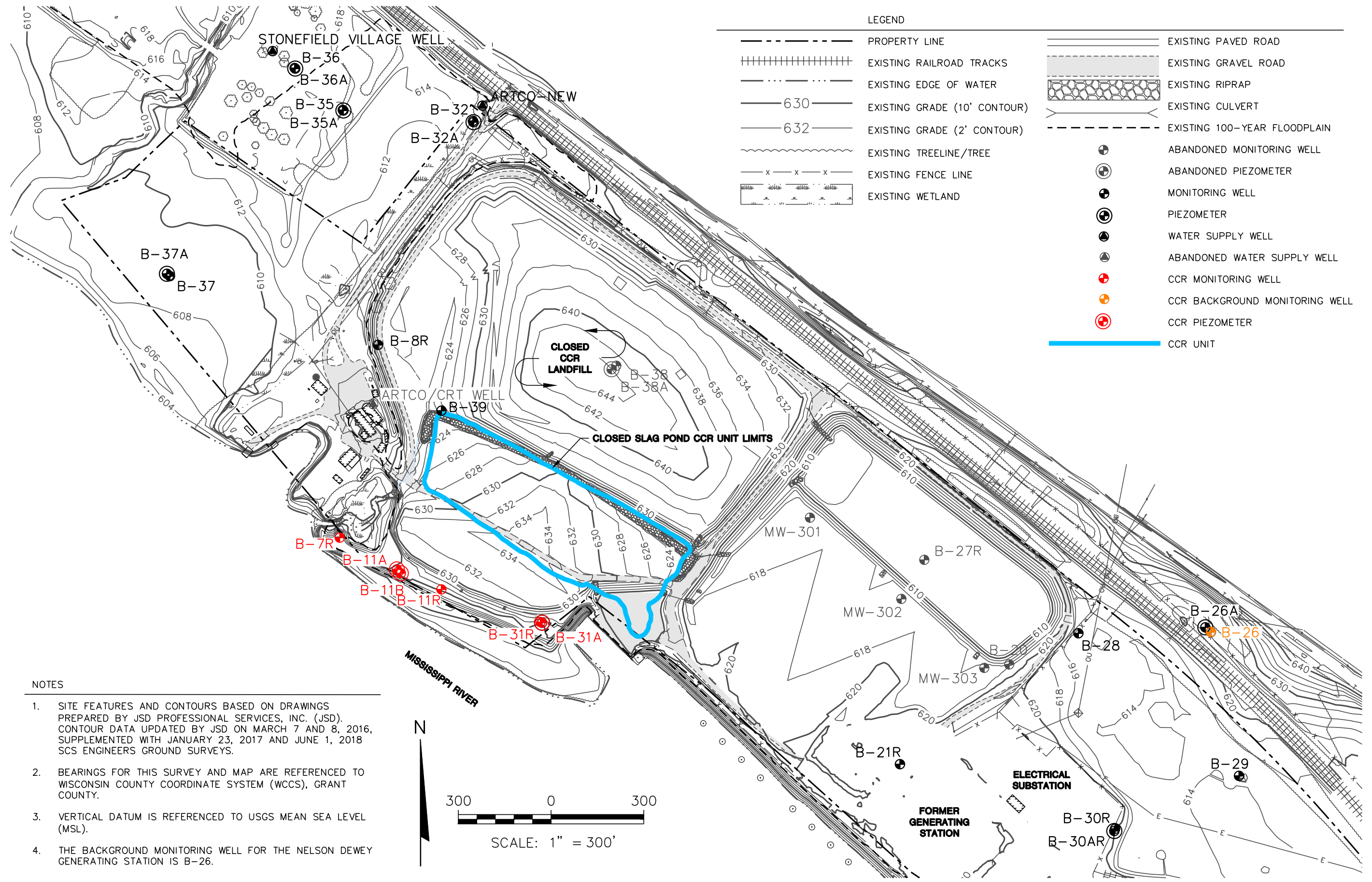


SCALE: 1" = 500'

PROJECT NO.	25220071.00	DRAWN BY:	BJM	<p>2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830</p>	<p>CLIENT WISCONSIN POWER AND LIGHT CO. NELSON DEWEY GENERATING STATION 11999 COUNTY HIGHWAY VV CASSVILLE WI, 53806</p>	<p>SITE WISCONSIN POWER AND LIGHT NELSON DEWEY GENERATING STATION CASSVILLE WISCONSIN</p>	<p>AERIAL VIEW</p>	FIGURE
DRAWN:	12/18/13	CHECKED BY:	KAK					2
REVISED:	01/22/20	APPROVED BY:	TK 04/10/2020					

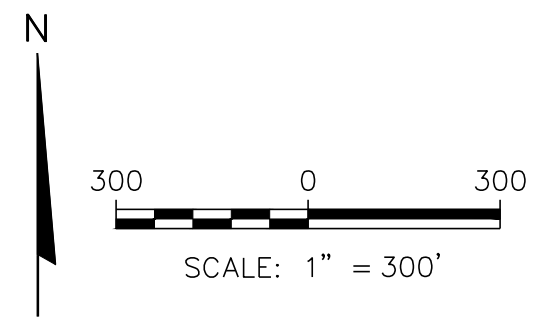


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LEGEND	
	PROPERTY LINE
	EXISTING RAILROAD TRACKS
	EXISTING EDGE OF WATER
	EXISTING GRADE (10' CONTOUR)
	EXISTING GRADE (2' CONTOUR)
	EXISTING TREELINE/TREE
	EXISTING FENCE LINE
	EXISTING WETLAND
	EXISTING PAVED ROAD
	EXISTING GRAVEL ROAD
	EXISTING RIPRAP
	EXISTING CULVERT
	EXISTING 100-YEAR FLOODPLAIN
	ABANDONED MONITORING WELL
	ABANDONED PIEZOMETER
	MONITORING WELL
	PIEZOMETER
	WATER SUPPLY WELL
	ABANDONED WATER SUPPLY WELL
	CCR MONITORING WELL
	CCR BACKGROUND MONITORING WELL
	CCR PIEZOMETER
	CCR UNIT

- NOTES**
- SITE FEATURES AND CONTOURS BASED ON DRAWINGS PREPARED BY JSD PROFESSIONAL SERVICES, INC. (JSD). CONTOUR DATA UPDATED BY JSD ON MARCH 7 AND 8, 2016, SUPPLEMENTED WITH JANUARY 23, 2017 AND JUNE 1, 2018 SCS ENGINEERS GROUND SURVEYS.
  - BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), GRANT COUNTY.
  - VERTICAL DATUM IS REFERENCED TO USGS MEAN SEA LEVEL (MSL).
  - THE BACKGROUND MONITORING WELL FOR THE NELSON DEWEY GENERATING STATION IS B-26.



CLIENT	ALLIANT ENERGY 4902 N. BALTIMORE LANE, #1000 MADISON, WI 53718		PROJECT NO. 25221071.00	DRAWN BY: BSS	CHECKED BY: MDB	APPROVED BY: MDB 1/11/2022	ENGINEER	SITE	ALLIANT ENERGY NELSON DEWEY GENERATING STATION CASSVILLE, WISCONSIN		FIGURE 3
	SITING PLAN AND MONITORING WELL LOCATIONS										

**SCS ENGINEERS**  
2830 DAIRY DRIVE MADISON, WI 53718-6751  
PHONE: (608) 224-2830