

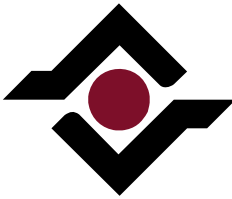
**City Water, Light & Power
Ash Impoundments
Springfield, Sangamon County, Illinois**

Post-Closure Plan for Coal Combustion Residuals Surface Impoundments

October 2016



Prepared for:
City Water, Light & Power
3100 Stevenson Drive
Springfield, Illinois 62703



Prepared by:

**ANDREWS
ENGINEERING INC**

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Appendix A: Site Map

1. INTRODUCTION

City Water, Light and Power (CWLP) Lakeside Ash Pond and Dallman Ash Pond are coal combustion residuals (CCR) surface impoundments. The locations of these CCR units are shown in Appendix A of this Plan. This post-closure plan was prepared according to the requirements under 40 CFR Part 257.104:

257.104 No later than October 17, 2016, the owner or operator of the CCR unit must prepare an initial written post-closure plan consistent with the requirements specified in paragraph (d)(1) of this section.

In accordance with the post-closure care regulations, the operator is responsible for maintaining and monitoring the CCR units for a minimum 30-year period following the closure of the unit. The items that must be contained in the Post-Closure Plan include procedures for: (1) Maintaining the integrity and effectiveness of the final cover system, including making repairs to the final cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding or otherwise damaging the final cover; and (2) Maintaining the groundwater monitoring system and monitoring the groundwater in accordance with the requirements of 40 CFR Parts 257.90 through 257.98. Each of these individual aspects is detailed in this Post-Closure Plan. This Plan shall be implemented when all items in the Closure Plan have been completed and certified.

2. POST-CLOSURE PLAN

2.1 Inspection and Maintenance

The purpose of the inspections and maintenance is to ensure proper functioning of all items that remain after closure. The inspections and maintenance are discussed in more detail in the following sections.

2.1.1 Inspections

A walking, visual inspection of the entire site should be conducted at least quarterly with a written record of the inspection made and preserved. The inspector will assess the condition and the need for repair of final cover, vegetation, fencing, monitoring devices, and drainage structures. These inspections will be conducted at least quarterly for a minimum of five years after closure. After five years, the operator may reduce the frequency to annual inspections until settling has stopped and there are no eroded or scoured areas visible. Annual inspections must be continued for a minimum of 30 years after closure, i.e., the entire proposed post-closure care period. Inspections will be conducted as necessary, particularly subsequent to heavy precipitation events. Each inspection shall be documented and the records kept at the facility office.

In general, the following guidelines will be followed when assessing the need for remedial actions/maintenance:

- a) All rills, gullies, and crevices six inches or deeper in the final cover will be filled. Areas identified by the operator as particularly susceptible to erosion may be recontoured to alleviate the problem.
- b) All reworked surfaces, and areas with failed or eroded vegetation in excess of 100 square feet cumulatively, shall be revegetated in accordance with the approved Closure Plan.

- c) Brush, trees, or similar vegetation with tap roots growing in areas not so designated will be controlled.
- d) Holes and depressions created by settling will be filled and recontoured so as to prevent standing water.
- e) Eroded and scoured drainage channels will be repaired and lining material will be replaced if necessary.

If the final cover system requires significant repair or augmentation, such activities will be conducted pursuant to Section 2.3 of the Closure Plan, including soils types, regrading and compaction, testing, and certification.

2.1.2 Maintenance

Erosion and differential settlement may cause the need for cover repairs. The majority of settlement should be realized prior to the placement of the final cover system. Any areas where ponding occurs or erosion cuts appear will be promptly repaired in order to maintain the integrity of the final cover system as described in the Closure Plan. While recently filled and covered areas will require the most maintenance, the disposal unit will stabilize with time such that little, if any, maintenance will ultimately be required. Earthen material for cover repairs will be made available from predetermined borrow areas proximate to the waste unit.

All maintenance conducted at the site will be documented; records will be retained at the facility office.

2.1.3 Groundwater Monitoring

The ash ponds are existing CCR Units and must initiate a groundwater sampling and analysis program by October 17, 2017. A groundwater monitoring program installed around the surface impoundments was approved by the Illinois EPA, Bureau of Water in December, 2011. This groundwater monitoring will continue for a minimum period of 30 years after closure pursuant to 40 CFR 257.93(b)

The exterior condition of all groundwater monitoring devices will be inspected quarterly during the quarterly site inspections referenced in Section 2.1.1 above. The inspection will include the condition of the concrete cap, protective casing and lock, and the condition of the area immediately surrounding the device. The monitoring devices will be further inspected at the time of sampling, which will include the well casing and cap. The inspections shall be recorded, as well as any maintenance conducted at a device.

2.2 Contact Information

The name, address, telephone number, and email address of the person or office to contact about the facility during the post-closure care period is:

P.J. Becker
City Water Light and Power
201 E. Lake Shore Drive
Springfield Illinois 62712
(217) 757-8610 ext 1110

PJ.Becker@cwlp.com

2.3 Final Cover System

The final end use of the closed ash ponds is planned to be a natural area with passive vegetation and native grasses. The end use is planned to serve as open space that will not disturb the integrity of the final cover, liner, environmental systems, or monitoring equipment.

3. STATEMENT

This Post-Closure Plan for Coal Combustion Residuals Surface Impoundments was completed for CWLP by Andrews Engineering, Inc. in accordance with the requirements under 40 CFR Part 257.104.



Paul M. Van Metre, P.E.

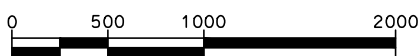
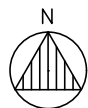
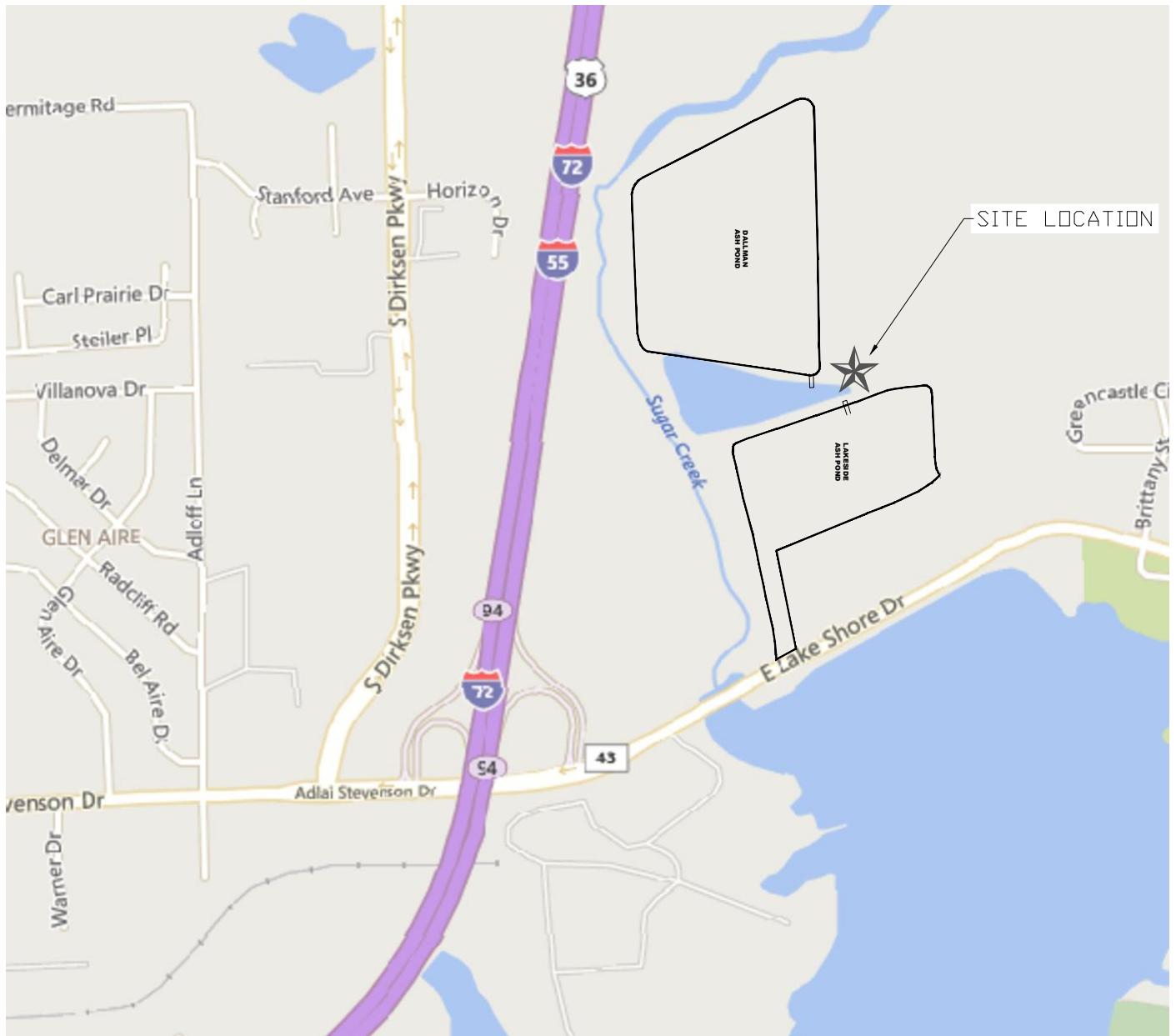
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Date



APPENDIX A


Site Map



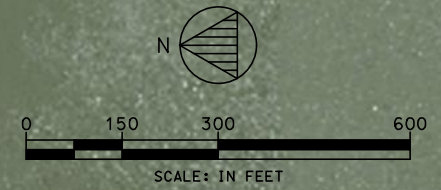
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NOTE:
BASE IMAGE DERIVED FROM BING

SITE LOCATION

 <p>ANDREWS ENGINEERING, INC. 3300 Ginger Creek Drive, Springfield, IL 62711-7233 Tel (217) 787-2334 Fax (217) 787-9495 Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO Professional Design Engineering and Land Surveying Firm #184-001541</p>	<p>SITE LOCATION MAP</p>	<p>DATE: OCTOBER 2016</p>
	<p>PLANS PREPARED FOR</p>	<p>PROJECT ID: 150077/0011</p>
	<p>CWLP</p>	<p>SHEET NUMBER:</p>
<p>APPROVED BY: PMV DESIGNED BY: PMV DRAWN BY: RMC</p>	<p>SPRINGFIELD, SANGAMON COUNTY, ILLINOIS</p>	<p>FIG. 1</p>

J:\S\Springfield\CWLP\CWLP.dwg\SURFACE IMPOUNDMENTS.dwg Tab: FIGURE 2A Last Saved: October 13, 2016, by Ryan Curtis Plotted: Thursday, October 13, 2016 10:06:59 AM



NO.	DATE	DESCRIPTION	BY

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 3300 GINGER CREEK DRIVE
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 PROFESSIONAL DESIGN ENGINEERING AND LAND SURVEYING FIRM #184-001541
 APPROVED BY: PMV DESIGNED BY: PMV DRAWN BY: MPN

CWLP COAL COMBUSTION RESIDUALS SURFACE IMPOUNDMENTS
 PLANS PREPARED FOR
 CITY, WATER, LIGHT & POWER
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: OCTOBER 2016
 PROJECT ID: 150077/0011
 SHEET NUMBER:
FIG. 2A