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January 16, 2026  
File No. 0213269

Tucson Electric Power Company  
Springerville Generating Station  
P.O. Box 2222  
Springerville, AZ 85938

Attention: James Thomas  
Environmental Coordinator

Subject: 2025 Annual Inspection by a Qualified Professional Engineer  
Ash Landfill, Springerville Generating Station  
Springerville, Arizona

Dear Mr. Thomas:

Enclosed please find the 2025 Annual Inspection Report for the Tucson Electric Power Company (TEP) Ash Landfill located at the Springerville Generating Station (SGS) in Springerville, Arizona.

Haley & Aldrich, Inc. completed a site visit for the inspection of the Ash Landfill on November 4, 2025. This work was performed on behalf of TEP in accordance with the United States Environmental Protection Agency's Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities, 40 Code of Federal Regulations Part 257, Subpart D, effective October 19, 2015, including subsequent revisions.

The scope of the work was to: i) complete a review of available information on the Ash Landfill; ii) perform a visual inspection of the Ash Landfill; and iii) prepare the enclosed report. Thank you for inviting us to complete this inspection and please feel free to contact us if you wish to discuss the contents of the report.

Sincerely yours,  
**HALEY & ALDRICH, INC.**

A handwritten signature in black ink, appearing to read "Steve Putrich".

Steven F. Putrich, P.E.  
Senior Associate – Principal Consultant

A handwritten signature in black ink, appearing to read "Lee Saunders".

Lee Saunders  
Project Manager

A handwritten signature in black ink, appearing to read "Jason Pokorny".

Jason Pokorny  
CCR Program Manager

cc: Mark Nicholls – Haley & Aldrich, TEP Account Manager  
Kip Anderson – TEP, Environmental Supervisor  
Greg Guimond – TEP, Manager, Corporate Environmental Compliance & Permits

Enclosures

**REPORT ON**  
**2025 ANNUAL INSPECTION BY A QUALIFIED PROFESSIONAL**  
**ENGINEER**  
**ASH LANDFILL**  
**SPRINGVILLE GENERATING STATION**  
**SPRINGVILLE, ARIZONA**

By  
Haley & Aldrich, Inc.  
Cleveland, OH

For  
Tucson Electric Power  
Springerville Generating Station  
Springerville, Arizona

File No. 0213269  
January 2026



# Table of Contents

	Page
<b>List of Figures</b>	<b>ii</b>
<b>List of Appendices</b>	<b>ii</b>
<b>1. Description of Project</b>	<b>1</b>
1.1 INTRODUCTION	1
1.1.1 Authority	1
1.1.2 Purpose of Work	1
1.2 DESCRIPTION OF THE LANDFILL	1
1.2.1 Location	1
1.2.2 Owner/Operator	2
1.2.3 Purpose of the Landfill	2
1.2.4 Description of the Landfill	2
1.2.5 Volume of CCR Contained in the Landfill	3
1.3 40 C.F.R. § 257.84(B)(1)(I) – REVIEW OF AVAILABLE INFORMATION	3
1.3.1 Design and Construction Records	3
1.3.2 Previous Inspections	3
1.3.3 Other Operating Records	4
<b>2. Inspection</b>	<b>5</b>
2.1 40 C.F.R. § 257.84(B)(1)(II) – VISUAL INSPECTION	5
2.1.1 General Findings	5
2.2 CARETAKER INTERVIEW	7
2.3 OPERATIONS AND MAINTENANCE PROCEDURES	7
2.4 OVERALL LANDFILL CONDITION	7
<b>3. Inspection Summary and Recommendations</b>	<b>8</b>
3.1 40 C.F.R. § 257.84(B)(2) – INSPECTION SUMMARY	8
3.2 RECOMMENDATIONS	8
<b>4. Certification</b>	<b>10</b>

## List of Figures

Figure No.	Title
1	Project Location Map
2	Site Map
3	Photo Locations Plan
4	Recommended Maintenance Areas

## List of Appendices

Appendix	Title
A	Photo Log
B	Inspection Forms

# 1. Description of Project

## 1.1 INTRODUCTION

### 1.1.1 Authority

Haley & Aldrich, Inc. (Haley & Aldrich) was contracted by Tucson Electric Power Company (TEP; the Owner) to perform an Annual Inspection of the Ash Landfill (landfill or Unit) located at the TEP Springerville Generating Station (SGS) in Springerville, Arizona. This work was completed in accordance with the United States (U.S.) Environmental Protection Agency's (EPA's) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, 40 Code of Federal Regulations (C.F.R.) Part 257, Subpart D (Rule), effective October 19, 2015, including subsequent revisions, specifically 40 C.F.R. § 257.84(b).

### 1.1.2 Purpose of Work

The purpose of this annual inspection was to observe and evaluate the current condition of the Ash Landfill and to assess that the design, construction, operation, and maintenance of the landfill is consistent with recognized and generally accepted good engineering practice and standards. The visual inspection is intended to identify signs of distress or malfunction of the landfill, should they exist. This report addresses any signs of potential structural weaknesses and conditions that are disrupting (or have the potential to disrupt) the operations and safety of the landfill – that is, any deficiencies in the context of the CCR Rule, specifically 40 C.F.R. § 257.84(b)(5) – if identified.

The inspection is divided into three parts: i) a review of available information on the Ash Landfill (provided by TEP); ii) a visual inspection of the Ash Landfill (performed by Haley & Aldrich); and iii) preparation of the enclosed Haley & Aldrich report presenting observations and recommendations for any repairs or corrective measures, as deemed necessary.

## 1.2 DESCRIPTION OF THE LANDFILL

### 1.2.1 Location

The Ash Landfill is located at the SGS, approximately 15 miles northeast of Springerville, Arizona off U.S. Highway 191. As shown on **Figure 1**, the landfill is located approximately 3 miles southwest of the four-unit generating facility. A dedicated haul road, referred to as the Ash Haul Road, runs to the north of, and parallel with, County Road No. 4265 from the plant to the landfill. The plant and landfill have restricted access, with full-time security and barriers/fences. The general configuration of the landfill is shown in **Figure 2**.

### 1.2.2 Owner/Operator

The landfill is owned, operated, and maintained by TEP. (Note, Salt River Project is also a part owner of the landfill but does not operate or maintain it.) Additional details are provided below.

	Landfill Owner/Caretaker
Name	Tucson Electric Power Company Springerville Generating Station
Mailing Address	P.O. Box 2222
Town, State, Zip	Springerville, AZ 85938

### 1.2.3 Purpose of the Landfill

SGS is a four-unit, coal-fired power plant with a maximum generating capacity of approximately 1,600 megawatts. The plant began operations in 1985, and as part of plant operations, the Ash Landfill was opened for disposal of plant-generated CCR, primarily consisting of bottom ash and fly ash, as well as other approved plant wastes.

These lesser quantity plant wastes, placed in the eastern portion of the active footprint consist of, but are not limited to, construction debris, cooling tower sludge, cooling tower treated lumber, demineralizer resins, miscellaneous pond clean-outs, power plant outage refuse, retention pond solids, sewage pond and sump sludges, and soda ash and lime, as well as other non-hazardous materials.

### 1.2.4 Description of the Landfill

The Ash Landfill extends approximately 10,000 feet east to west and 2,000 feet north to south on average and has an approximate footprint of 440 acres, as generally contained within the perimeter access road (see **Figure 2**). The eastern portion of the landfill—now considered inactive—previously reached design capacity and has a 2-foot-thick soil cover. Landfill height in the inactive portion generally ranges from approximately 20 feet in the east to 125 feet at its western edge (in relation to the perimeter road elevation), with benched side slopes. The landfill was expanded in 2015 to its current footprint and actively receives CCR material to the western area daily. Current maximum fill height is approximately 50 feet tall in the active area (in relation to the perimeter road elevation).

The landfill was not constructed with a bottom liner system or leachate collection system. Instead, it is Haley & Aldrich’s understanding based on client knowledge that approximately 5 to 25 feet of existing grades were excavated to remove any unsuitable materials (e.g., loose rock, debris, topsoil, and organics) until the naturally occurring clay layer was encountered. Subgrades were then recompacted to establish a stable and firm clay subbase.

CCR material is hauled from the plant to the landfill along the Ash Haul Road that ranges from approximately 60 to 70 feet wide. Additional haul roads around the perimeter of the Ash Landfill are approximately 30 to 40 feet wide and are understood to consist of similar construction.

Run-on and run-off control systems, as described in the “Updated Run-on/Run-off Control System Plan” (dated October 2021), are designed, constructed, operated, and maintained to manage peak stormwater discharge resulting from a 24-hour, 100-year storm, using benches, berms, and perimeter channels routed to the Retention Structure No. 3, which is designed to be a non-discharging retention pond, located at the westernmost side of the landfill. It is Haley & Aldrich’s understanding that the

stormwater management system for the landfill is generally designed to retain stormwater and thereby facilitate evaporation.

A groundwater monitoring network was installed and certified between 2016 and 2017 in accordance with the CCR Rule and currently consists of two upgradient wells and three downgradient wells.

### **1.2.5 Volume of CCR Contained in the Landfill**

The previous annual inspection was conducted by Haley & Aldrich on November 19, 2024, with its report issued on January 16, 2025. The approximate in-place CCR volume reported for 2024 was approximately 34.9 million tons, or approximately 53.8 million cubic yards.

Based on truck haul logs and actual coal burned to ash content percentages provided by TEP for calendar year 2025, the landfill received approximately 330,000 tons of CCR in 2025. The approximate volume of CCR contained in the Unit at the end of the 2025 year is therefore estimated to be 35.2 million tons, or approximately 54.3 million cubic yards.

## **1.3 40 C.F.R. § 257.84(b)(1)(i) – REVIEW OF AVAILABLE INFORMATION**

### **1.3.1 Design and Construction Records**

It is Haley & Aldrich's understanding that the Ash Landfill began operation in 1985 and was referred to as the Ash Burial Area, consisting of the easternmost portions of the present-day waste boundary. Within the confines of this original boundary—in the south-central region of the inactive portion—a construction debris landfill was permitted, constructed, and operated until about 1995 for solid waste disposal from the construction and operation of the power plant. It had a footprint of approximately 13 acres, a design capacity of approximately 160,000 cubic yards, and was referred to as the SGS Landfill. It was intended to receive materials such as scrap conduit and polyvinyl chloride (PVC) pipe, dry-crushed containers, machine shop trash, scrap wood, construction plastic sheeting, fiberglass insulation scrap, concrete rubble, sacked garbage, and automotive shop wastes. It also contained a small area within the northwest corner for asbestos disposal.

Between 1995 and 1998, the ash burial area was expanded west to what was labeled “Phase 2/3” to approximately the western face of the inactive area through an Arizona Department of Environmental Quality (ADEQ) issued Aquifer Protection Program (APP) permit and included placement of ash over the construction debris landfill as part of its closure plan. Design drawings show the southern slope with benches that are 20 feet wide and 10 feet high, with side slopes of 1.45 horizontal to 1 vertical (1.45H:1V), with a 2-foot-thick soil cover.

Between 2011 and 2015, TEP expanded the Ash Landfill further west to what is referred to as “Phase 5/6” near Retention Structure No. 3. At the time, it was estimated to provide an additional 20 to 30 years of disposal capacity. Design drawings show exterior slopes with benches that are 10 feet wide, 5 feet high, with side slopes of 1.45H:1V and a 2-foot-thick soil cover.

### **1.3.2 Previous Inspections**

Seven-day inspection records performed by qualified TEP staff during 2025 and previous annual inspections by AMTECH and Haley & Aldrich were reviewed as part of this annual inspection. Landfill operations were also discussed with TEP personnel during the site inspection on November 4, 2025.

The 2024 Annual Inspection performed by Haley & Aldrich on November 19, 2024, listed several items that had the potential to create structural weakness and/or other landfill performance concerns in the future. The items included increased efforts to control fugitive dust and stormwater runoff, steep side slopes with localized sloughing, ponding on benches, erosion rills and deep gullies on side slopes, erosion of the south drainage channel, animal burrows and other small holes, and woody vegetation. The previous report also recommended to “re-evaluate landfill operations for potential improvements associated with the ongoing ash placement activities and long-term closure planning.”

### 1.3.3 Other Operating Records

The following documents were also reviewed regarding the status and condition of the CCR unit:

- Fugitive Dust Control Plan (October 2015) and Annual Fugitive Dust Control Reports;
- Updated Run-on and Run-off Control System Plan (October 2021);
- Closure Plan (October 2016);
- Post-Closure Plan (October 2016);
- Annual Groundwater Monitoring and Corrective Action Reports;
- Unstable Areas Demonstration (October 2018); and
- Any work orders generated as a result of the inspections.

Any comments and recommendations resulting from these reviews are provided in **Section 3**, below.



## 2. Inspection

### 2.1 40 C.F.R. § 257.84(b)(1)(ii) – VISUAL INSPECTION

On November 4, 2025, Haley & Aldrich completed a visual inspection of the Ash Landfill under the direction of a qualified professional engineer. Weather conditions were clear and windy, with temperatures ranging from the low 30s to low 40s (degrees Fahrenheit). The following sections describe the conditions observed during the inspection, with additional comments provided in the photographs and checklist forms included in **Appendix A** and **Appendix B**, respectively. An associated photo locations plan is shown in **Figure 3**.

#### 2.1.1 General Findings

##### 2.1.1.1 *Active Western CCR Fill Area*

The western portions of the Ash Landfill, encompassing what are referred to as Phases 3 through 5/6, are currently active. Phase 6 was receiving CCR materials during the time of the site visit. Haul trucks deposit material in approximately 8-foot-high stockpiles adjacent to one another. Stockpiles contained varying levels of moisture content based on operational conditions from the ash handling systems. After stockpiles are deposited, the CCR materials are spread and tracked in-place into uniform lifts (approximately 5 feet thick) with tracked dozers. At time of visit, placement was focused on the next vertical lift of western benching.

The western portion of the Ash Landfill is relatively flat and uniform, and it drains toward a northern perimeter berm which routes run-off west to Retention Structure No. 3. The surficial material observed within these active phases during the time of inspection appeared to be primarily bottom ash (used as intermediate cover). There was no significant erosion, settlement, or other signs of stress evident within these active phases.

Though significant fugitive dust was not observed during the inspection, high wind speeds have the potential to create fugitive dust during offloading and spreading activities. TEP has previously used operational controls including misting dispenser heads on the water truck nozzles, orange construction fencing and straw bales along the outer edges of ash placement areas, and placement of bottom ash as cover over finer-grained fly ash materials. When observed, TEP routinely clears areas of accumulated wind-blown material as part of general housekeeping and maintenance.

The locations of typical conditions and any recommended maintenance areas are shown on **Figure 4** and photographs are provided in **Appendix A**.

##### 2.1.1.2 *Inactive Eastern CCR Fill Area*

The eastern portion of the landfill is inactive and has a soil cover that is approximately 2 feet thick over the CCR material, consisting of native material from an on-site borrow source (original soil from landfill construction). According to TEP personnel, some areas established vegetation naturally following installation of the soil cover – i.e., vegetation was present within the topsoil placed – while others required supplemental hydroseeding. The soil cover along the side slopes and benches was placed with an excavator and compacted using a vibratory plate attachment.

The slopes at the western face of the inactive landfill portions were benched (generally ranging from 10 to 20 feet wide and 10 feet high) and consisted of exposed ash material with no soil cover. Only minor erosion was observed along these relatively flat benches.

As noted previously, it is Haley & Aldrich's understanding that the stormwater maintenance system is generally designed to slow/ minimize runoff from the landfill and enhance evaporation. No ponding was observed at the time of the inspection, and it appears previous enhancements and improvements noted in the 2024 inspection report have continued to adequately work to reduce erosion along the side slopes.

Animal burrows and small holes were observed along the outer edges of the southern benches. In a few areas, larger burrows were identified, but upon closer review the burrow did not reach the underlying CCR. Relatively shallow erosion rills were observed along outer slopes, while areas with deeper erosion rills noted in previous reports were observed to have been repaired. Several erosion rills were noted as being repaired by TEP prior to our on-site inspection.

Overall, little to no erosion rills were observed along the eastern and northern slopes of the landfill, which were noted to consist of shorter and more uniform slopes with denser vegetation. No signs of major slope instability or stress (e.g., misalignments, depressions, or bulging) were observed along any portion of the top deck or side slopes of the landfill. One location along an upper bench of the southern face appeared to have potential signs of minor cracking in the 2024 inspection. That same area was observed as part of the 2025 inspection, noting no identifiable change in conditions having occurred over the course of 2025. It is recommended that this location continue to be monitored for any change of condition in the future.

The locations of recommended maintenance areas are shown on **Figure 4** and photographs are provided in **Appendix A**.

#### **2.1.1.3**     *Roads*

Haul roads and temporary access roads are utilized to transport material to the active western portion of the landfill. At the time of the inspection, the Ash Haul Road appeared to be in good condition, as well as the perimeter and top deck access roads. Water trucks were spraying water and fugitive dust along the roads was not observed to be an issue. Water bars along a section of the northwest perimeter road – installed to redirect stormwater runoff from the raised surface of the perimeter road down to the flat, active ash fill area – were observed to be in good condition. Typical conditions are documented in photographs provided in **Appendix A**.

#### **2.1.1.4**     *Groundwater Monitoring Wells*

Existing groundwater monitoring wells were observed to be easily accessible, clearly labeled, protected from inadvertent damage with jersey barriers, and in overall good condition.

#### **2.1.1.5**     *Stormwater Controls*

During the site inspection, northern drainage channels were observed also focusing on inspection observations from the 2024 annual inspection. Haley & Aldrich observed the regrading of the channels and installation of rock check dams to control any sediment. These structures were intact and appeared to be functioning as intended.

Overall, channels and diversion berms appeared to be in good condition. The locations of recommended maintenance areas are shown on **Figure 4** and photographs are provided in **Appendix A**.

## 2.2 CARETAKER INTERVIEW

Haley & Aldrich spoke with TEP personnel during the site visit on November 4, 2025, regarding the background, operations, and maintenance of the Ash Landfill. Information provided by TEP personnel has been incorporated into this report.

## 2.3 OPERATIONS AND MAINTENANCE PROCEDURES

The landfill is operated and maintained by TEP personnel. Operations and maintenance activities include ash hauling and placement, soil cover placement and repairs, cleanout and regrading of drainage channels as needed, fugitive dust control (with water trucks and other methods described herein and in the Fugitive Dust Control Plan), and weekly inspections.

TEP personnel monitor and inspect the landfill at least once every seven days and maintain inspection results in the operating record as required by the CCR Rule. These weekly inspections include a visual inspection and review of:

- Run-on and run-off controls (including ditches and erosion and sediment controls);
- Water retention structures (e.g., Retention Structure No. 3);
- Fugitive dust concerns along haul roads and within the landfill footprint;
- Structural stability of the ash landfill; and
- Any work orders generated as a result of the inspections.

Haley & Aldrich reviewed weekly inspection records for 2025 as part of the annual inspection, which noted all items as meeting expectations (i.e., no need for improvement). Work orders generated by the weekly inspections included removal of woody vegetation completed in August 2025. TEP monitored dirt benches, minor erosions, check dams, and crack on benches and addressed any issues as needed.

## 2.4 OVERALL LANDFILL CONDITION

Overall, the landfill was observed to be stable and broadly consistent with recognized and generally accepted good engineering standards. No sinkholes or evidence of settlement were observed. We recommend continued observation of the identified isolated area of potential cracking along the south face upper bench of the inactive portion. Areas of minor erosion were observed at locations along the south and southwestern benches of the landfill, as noted in **Section 2.1.1.2** and shown in **Figure 4**.

No changes in overall landfill geometry were noted since the previous annual inspection, except through normal and planned disposal operations (i.e., CCR placement in the western active fill area including bench development, as previously discussed). No other changes were observed that may have affected the stability or operation of the Ash Landfill as designed and constructed.

Visual inspection of the existing conditions of the landfill did not indicate any actual or potential structural weakness of the landfill, or any actual or potential disruptions to normal operations and safety of the Ash Landfill.

### 3. Inspection Summary and Recommendations

#### 3.1 40 C.F.R. § 257.84(b)(2) – INSPECTION SUMMARY

At the time of the inspection, no evidence of deficiencies, as referenced in 40 C.F.R. § 257.84(b)(5), or evidence of immediate or impending threats to landfill integrity were observed. In accordance with 40 C.F.R. § 257.84(b)(2), this Annual Inspection Report addresses the following requirements:

- (i) As described in **Section 2.4**, no changes in overall landfill geometry were noted since the previous annual inspection, except through normal and planned disposal operations.
- (ii) The approximate volume of CCR contained in the Unit at the time of the inspection is provided in **Section 1.2.5**.
- (iii) No appearances of an actual or potential structural weakness of the CCR unit were noted at the time of the inspection. Based on our visual observations, the following items have the potential to create structural weakness and/or other landfill performance concerns (e.g., potential to disrupt the operation and safety of the CCR unit) in the future, if left unaddressed:
  - Large active fill area requiring increased efforts to control fugitive dust and stormwater runoff;
  - One area of minor cracking along an upper bench that could be a sign of instability if observed to increase in length, width, or depth over time;
  - Erosion rills down the landfill side slopes of the inactive eastern fill area; and
  - Animal burrows and other small holes along southern benches and side slopes that could lead to increased erosion and washouts.
- (iv) As described in **Section 2.4**, no other changes were observed that may have affected the stability or operation of the Ash Landfill since the previous annual inspection.

#### 3.2 RECOMMENDATIONS

Although no deficiencies were identified, we recommend the following measures be undertaken to address the items listed in **Section 3.1** in support of on-going maintenance and operational activities:

- Re-evaluate landfill operations for potential improvements associated with the ongoing CCR placement activities and long-term closure planning, with considerations such as, but not limited to:
  - reduced active footprint with exposed CCR materials,
  - modified side slopes and benching configuration for increased stability of interim and future final cover systems, and
  - reduced potential for stormwater ponding within the landfill waste boundary.
- Monitor surface cracking (e.g., along southern upper bench of the Inactive Fill Area) for any changes in size, shape, or extent. If cracking significantly changes or worsens, consult qualified geotechnical engineer for further assessment of landfill structural stability and conditions.
- Continue to monitor erosion of the southern slopes and implement repairs of rills and gullies that exceed 12 inches in depth.

- Monitor animal burrows and backfill, as needed, to prevent development of future erosion and/or stability issues.
- Monitor for growth of tall, woody, and invasive vegetation and remove by hand-cutting and/or use of light equipment.


## 4. Certification

The assessment of the general condition of the Ash Landfill is based upon available data and visual observation as described herein. Detailed investigation and analyses involving topographic mapping, subsurface investigations, testing, and detailed computational evaluations are beyond the scope of this report.

In reviewing this report, it should be recognized that the described condition of the landfill is based on visual observations of field conditions at the time of inspection, along with other data made available by TEP to the inspection team. It is important to note that the condition of a landfill depends on numerous and constantly changing internal and external conditions and is evolutionary in nature. It would be incorrect to assume that the present condition of the landfill will continue to represent the condition of the landfill at some point in the future.

In my professional opinion and based on the information presented in this report, the physical condition and ongoing operations and maintenance of the Ash Landfill at the TEP SGS is consistent with recognized and generally accepted good engineering standards and practice.

Signed:



Qualified Professional Engineer

Print Name: Steven F. Putrich

Arizona License No.: 60715

Title: Principal Consultant

Company: Haley & Aldrich, Inc.

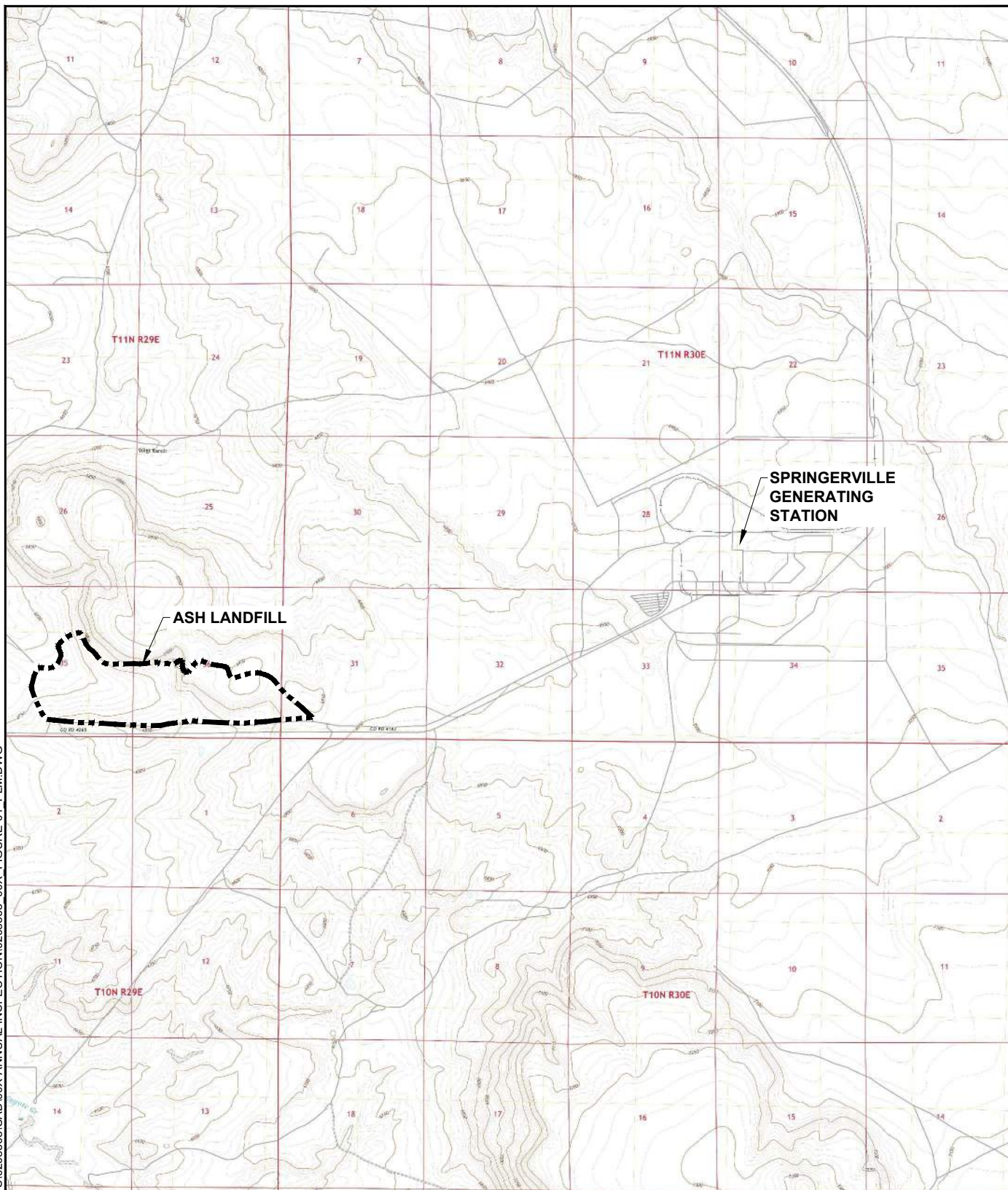
Professional Engineer's Seal and date:



Expires: 12/31/2027

## FIGURES





MAPSOURCE:  
USGS VOIGT RANCH QUADRANGLE  
ARIZONA - APACHE COUNTY  
7.5-MINUTE SERIES, 2021



**HALEY  
ALDRICH**

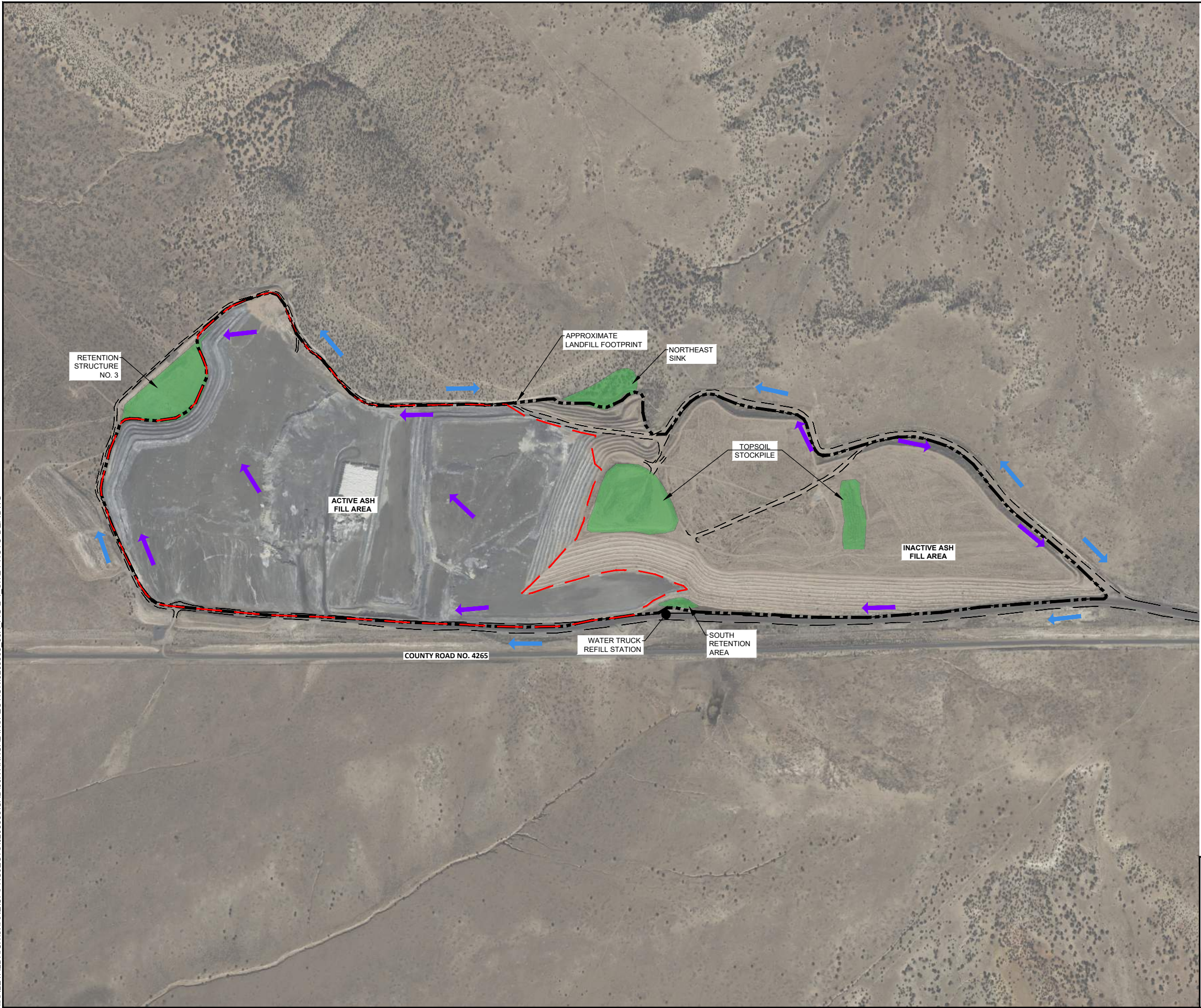
2025 ANNUAL INSPECTION - ASH LANDFILL  
TUCSON ELECTRIC POWER  
SPRINGVILLE GENERATING STATION  
SPRINGVILLE, ARIZONA

## PROJECT LOCATION MAP

APPROXIMATE SCALE: 1" = 5000'  
DECEMBER 2025

FIGURE 1





**LEGEND**

- LANDFILL BOUNDARY
- - - EXTENTS OF ACTIVE ASH FILL AREA
- ==== LANDFILL / PERIMETER ROADS
- = = = ASH HAUL ROAD
- MISCELLANEOUS SITE FEATURE
- RUN-ON STORMWATER FLOW DIRECTION
- RUN-OFF STORMWATER FLOW DIRECTION

**NOTES**

1. AERIAL PHOTOGRAPHY FROM MICROSOFT BING MAPS DATED 2023.
2. FIELD INSPECTION PERFORMED BY HALEY & ALDRICH PERSONNEL ON NOVEMBER 4, 2025.
3. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.



0 1000 2000  
SCALE IN FEET



2025 ANNUAL INSPECTION - ASH LANDFILL  
TUCSON ELECTRIC POWER  
SPRINGVILLE GENERATING STATION  
SPRINGVILLE, ARIZONA

**SITE MAP**

SCALE: AS SHOWN  
DECEMBER 2025

**FIGURE 2**



KAUR, RAVLEEN Printed: 12/4/2025 7:22 AM Layout: FIGURE 3 \\HALEY\ALDRICH\SHARE\CF-PROJECTS\0208568\CAD\00X-ANNUAL INSPECTION\0208568 00X FIG-2-4 SITE-PHOTO-DEF.DWG



#### LEGEND

- LANDFILL BOUNDARY
- - - EXTENTS OF ACTIVE ASH FILL AREA
- NO PHOTO LOCATION/DIRECTION
- ==== LANDFILL / PERIMETER ROADS
- == == ASH HAUL ROAD

#### NOTES

1. AERIAL PHOTOGRAPHY FROM MICROSOFT BING MAPS DATED 2023.
2. FIELD INSPECTION PERFORMED BY HALEY & ALDRICH PERSONNEL ON NOVEMBER 4, 2025.
3. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.



2025 ANNUAL INSPECTION - ASH LANDFILL  
TUCSON ELECTRIC POWER  
SPRINGVILLE GENERATING STATION  
SPRINGVILLE, ARIZONA

#### PHOTO LOCATION MAP

SCALE: AS SHOWN  
DECEMBER 2025

FIGURE 3





**LEGEND**

- LANDFILL BOUNDARY
- - - EXTENTS OF ACTIVE ASH FILL AREA
- AREAS OF EROSION ON ASH AND IN INTERIM COVER
- AREAS OF EXPOSED ASH
- POTENTIAL SLOUGH AND CRACKING
- ANIMAL BURROWS PRESENT
- ==== LANDFILL / PERIMETER ROADS
- == == ASH HAUL ROAD

**NOTES**

1. AERIAL PHOTOGRAPHY FROM MICROSOFT BING MAPS DATED 2023.
2. FIELD INSPECTION PERFORMED BY HALEY & ALDRICH PERSONNEL ON NOVEMBER 4, 2025.
3. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
4. MINOR EROSION RILLS ARE PRESENT ON MAJORITY OF SOUTHERN SIDE SLOPES OF INACTIVE FILL AREA; ONLY DEEPER EVIDENCES HIGHLIGHTED.



0 1000 2000  
SCALE IN FEET



2025 ANNUAL INSPECTION - ASH LANDFILL  
TUCSON ELECTRIC POWER  
SPRINGVILLE GENERATING STATION  
SPRINGVILLE, ARIZONA

**RECOMMENDED MAINTENANCE  
AREAS**

SCALE: AS SHOWN  
DECEMBER 2025

**FIGURE 4**



## **APPENDIX A**

### **Photo Log**

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 1***

***West face of the Active Ash Fill Area on the west side of the landfill; facing southeast***



***Photo 2***

***Typical Conditions in Retention Structure No. 3 area and along Active Ash Fill Area benches on the northwest side of the landfill; facing northeast***

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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**Photo 3**  
***Rock check dam in the north perimeter drainage ditch; facing southwest***



**Photo 4**  
***Typical condition of Active Ash Fill Area and erosion and sediment controls (e.g., orange construction fence); facing west***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 5***  
***Typical conditions of Active Ash Fill Area; facing southeast***



***Photo 6***  
***Water bars along perimeter haul road, directing stormwater onto Active Fill Area; facing east***

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 7***  
***Repaired erosion gully on north side of Inactive Fill Area; facing south***



***Photo 8***  
***Typical condition of Inactive Fill Area benches; facing southwest***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 9***  
***Topsoil stockpile in western end of Inactive Fill Area; facing south***



***Photo 10***  
***View of the Active Fill Area from the top bench of the landfill; facing west***

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 11***

***Typical condition of benches and side slopes of Inactive Fill Area; facing west***



***Photo 12***

***Cracks on the second bench from top; facing east***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 13***  
***Animal burrows on the slopes; facing east***



***Photo 14***  
***Typical conditions on top deck of landfill; facing south***

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 15***  
***Typical condition of access road on top of the landfill; facing northeast***



***Photo 16***  
***Deep erosion gullies on the slope; facing north***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 17***  
***Animal burrows in the Inactive Fill Area; looking down***



***Photo 18***  
***Typical conditions of bench and south slope of Inactive Fill Area; facing west***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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**Photo 19**  
***Typical conditions of bench and slopes along the Ash Haul Road; facing south***



**Photo 20**  
***Typical conditions along outer edge of the top bench of the landfill; facing west***

**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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**Photo 21**  
***Typical condition of Ash Haul Road; facing west***



**Photo 22**  
***Typical condition of the Active Fill Area; facing north***



**APPENDIX A – PHOTO LOG**  
**Springerville Generating Station – Ash Landfill Annual Inspection**  
**Springerville, Arizona**  
**File No. 213269**  
**Date Photographs Taken: 11/04/25**

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***Photo 23***  
***Outer edge of the Active Ash Fill Area; facing north***



***Photo 24***  
***Typical condition of Active Ash Fill Area on the southwest portion of the landfill; facing north***



## **APPENDIX B**

### **Inspection Forms**

## Annual CCR Landfill Inspection Checklist

Facility Name: Springerville Generating Station

Inspection Date: November 4, 2025

Owner/Operator: Tucson Electric Power Company

<b><u>Persons Present During Inspection</u></b>		
<b>Name</b>	<b>Title/Position</b>	<b>Representing</b>
<u>Steve Putrich</u>	<u>Principal</u>	<u>Haley &amp; Aldrich</u>
<u>Jason Pokorny</u>	<u>Engineer</u>	<u>Haley &amp; Aldrich</u>
<b><u>Person Responsible for Inspection</u></b>		
<u>Steven F. Putrich, P.E.</u>	<u>Engineer</u>	<u>Haley &amp; Aldrich</u>

<b><u>Operations Record Review</u></b>				
<b>Item</b>	<b>Comments/Observations</b>	<b>NO ACTION</b>	<b>MONITOR</b>	<b>REPAIR</b>
Are weekly inspections being performed and records kept in the facility record?	Yes. 7-day inspections are performed by TEP. Inspection records are kept in the landfill operating record.	X		
Has facility record been reviewed as part of this inspection?	Yes. Copies of 7-day inspection records were reviewed.	X		
<b><u>Landfill Inspection - Facility Operations</u></b>				
<b>Item</b>	<b>Comments/Observations</b>	<b>NO ACTION</b>	<b>MONITOR</b>	<b>REPAIR</b>
Is facility access restricted by fences, gates, etc. to control access?	Yes. Access is restricted by way of guard shack at front entrance and perimeter fencing.	X		
Is CCR placement consistent with design plans?	Yes. In general, CCR is placed in a manner that is consistent with design, as we understand it.	X		
Is CCR being placed in lifts and compactive effort applied?	Yes. Stockpiles are graded into lifts and nominally compacted by tracked dozers.	X		
Is CCR being placed in a manner to promote positive drainage?	Within the Active Fill Area, CCR is placed to direct run-off stormwater to retention structure. Inactive Fill Areas have benches which limit erosion, but positive drainage could be improved; monitor for instabilities.		X	
Is there evidence of water ponding in the active fill area?	None were visually observed at time of inspection.	X		
Are haul roads properly maintained and generally in good condition?	Haul road base course material generally appeared in good condition.	X		

<b><u>Landfill Inspection - Structural Stability</u></b>				
<b>Item</b>	<b>Comments/Observations</b>	<b>NO ACTION</b>	<b>MONITOR</b>	<b>REPAIR</b>
Is there evidence of discharges to Waters of the U.S.?	No. Stormwater from Ash Landfill is effectively controlled by outer and inner drainage channels and retention areas around the property.	X		
Is there evidence of erosion on fill slopes or inactive landfill areas?	Only minor erosion rills observed in Inactive Fill Area.		X	
Is there evidence of surface cracking at top of ash fill or along any slope benches?	Evidence of localized, minor surface cracking exists at upper bench along south face of Inactive Ash Fill Area. Monitor and repair if changes observed.		X	
Is there evidence of sinkholes or animal burrows?	Evidence of small animal burrows at crests of benches along soil cover of southern slopes. Monitor and repair, as needed.		X	
Are fill slopes in accordance with design plans?	Fill slopes appear to be approximately 1.45(V):1(H) in accordance with the design plans.	X		
Is there evidence of slides, sloughs, or scarps?	None observed.	X		
Is there any evidence of water seepage through fill slopes or at toe of fill slopes?	None observed at the time of the inspection.	X		
Is there evidence of movement, erosion, or instability in any soil embankments retaining CCR at the landfill?	There are no known soil embankments retaining CCR at this landfill.	X		
Is vegetation present in inactive/closed landfill areas? Comment on density, height, and type.	Yes. Native vegetation is present on areas with soil cover. It appears to be denser on the eastern and northern fill slopes whereas it is sparser on the south fill slope. Vegetation height is 6" and above.		X	

**Additional Comments:**

*See photos/figures in inspection report which identify animal burrows, surface cracking, and erosion rills. Items noted for repair are not considered deficient or as substantively affecting operation and safety of the landfill at the time of inspection, and are instead recommended to be monitored and addressed as part of ongoing maintenance activities.*