

REPORT

Coal Combustion Residuals Landfill 2024 Annual Inspection

Nucla Station Ash Disposal Facility

Submitted to:

Tri-State Generation and Transmission Association, Inc.

1100 W 116th Avenue, Westminster, Colorado, USA 80234

Submitted by:

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1.0 INTRODUCTION

1.1 Background

WSP USA Inc. (WSP) has prepared this inspection report for Tri-State Generation and Transmission Association, Inc. (Tri-State) to summarize our review of available information and visual observation of the Nucla Station Ash Disposal Facility (the facility). The facility served as the location for final deposition of coal combustion residuals (CCRs) generated at Tri-State's Nucla Station beginning in 1987. Nucla Station was retired in 2019.

The facility classifies as an existing CCR landfill under 40 CFR 257. The facility was closed in 2022, and a notification of closure completion was placed in the facility's operating record on June 22, 2022.

The annual inspections described in 40 CFR 257.84(b) are listed under the operating criteria for CCR landfills and are interpreted to be required only for operating (not closed) CCR landfills; inspection of closed CCR landfills is to be conducted in accordance with the post-closure plan that is being implemented under 40 CFR 257.104. Notwithstanding this interpretation, WSP's review of available information and visual observation was completed in a manner consistent with 40 CFR 257.84(b)(1) for the purpose of verifying that the design, construction, and maintenance of the facility are aligned with recognized and generally accepted good engineering practice. The visual observation by WSP's representative, Brendan Purcell, PE, took place on November 5, 2024.

This report presents a description of the facility (Section 1.0), a summary of WSP's review of available information about the facility (Section 2.0), the findings from WSP's visual observation of the facility (Section 3.0), and WSP's conclusions and recommendations (Section 4.0).

1.2 Facility Description

The facility is located in Montrose County, approximately 5.5 miles southeast of Nucla, Colorado. Tri-State historically disposed fly ash, bottom ash, and other permitted non-hazardous utility-related wastes¹ at the facility. The Colorado Department of Public Health and Environment (CDPHE) and the Montrose County Board of Commissioners originally approved construction of the facility on a 40-acre parcel (the North 40) in October 1987. Pursuant to a March 2002 application submittal, Tri-State expanded the facility laterally onto an adjacent 40-acre parcel (the South 40) under a Certificate of Designation granted by Montrose County in April 2004 and a Special Use Permit via Notice of Decision dated July 2005. Filling began in the expansion area in 2006. The final disposal footprint encompasses approximately 61 acres. The facility is regulated by CDPHE under 6 CCR 1007-2 Part 1, "Regulations Pertaining to Solid Waste Sites and Facilities."

Disposal of ash at the facility initially occurred behind starter dikes that encompassed the deposition area. Over time, the height of the facility was increased gradually as needed to contain the ash being generated. The height was increased with containment berms that were periodically constructed around the perimeter of the facility. Each individual containment berm was constructed atop and slightly inside of the previous containment berm to form the embankment slopes. At approximate 20-foot vertical intervals, the containment berms were inwardly offset an additional 10 feet to establish benches with terrace channels for stormwater management. The resulting composite slope is approximately 3 horizontal to 1 vertical, with the slope between benches approximately 2.5 horizontal to 1 vertical. The containment berms were constructed with a sufficient thickness of suitable soil and appropriately vegetated so that they also serve as the final cover system on the embankment slopes.

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¹ For simplicity, the term "ash," where used in this document, encompasses all permitted wastes.

The facility received the known final receipt of waste by December 31, 2021. In 2022, a final cover system meeting the requirements of the closure plan (Golder 2022a) was constructed over the 18 acres of the facility that had yet to be closed as of that date.

2.0 REVIEW OF AVAILABLE INFORMATION

2.1 Information Reviewed

The inspection included a review of information pertaining to the status and condition of the facility, including files that are available in the operating record. WSP has reviewed information provided by Tri-State to verify that the design, construction, and maintenance of the facility are consistent with recognized and generally accepted good engineering practice. The information WSP has reviewed includes the following:

- the engineering design and operations report for ash disposal on the initial 40-acre parcel (Colorado-Ute Electric Association, Inc. 1987)
- the hydrogeologic investigation report for ash disposal on the initial 40-acre parcel (Western Colorado Testing, Inc. and J.F.T. Agapito & Associates, Inc. 1987)
- the design and operations report for ash disposal on the 40-acre lateral expansion parcel (Geo-Trans Inc. 2002) and addenda thereto (Golder 2017b)
- the fugitive dust control plan for the facility (Golder 2015)
- previous annual inspection reports for the facility (Golder 2016a, 2017a, 2018a, 2018b, 2019, 2020, 2021a, and 2022c and WSP 2023)
- the run-on and run-off control system plan for the facility (Golder 2021b)
- the closure plan for the facility (Golder 2022a)
- the notification of intent to close the facility (Tri-State 2022a)
- the notification of final cover completion for the facility (Tri-State 2022b) and accompanying closure certification (Golder 2022b)
- the notification of recording of notice of obligation for the facility (Tri-State 2022c)
- the post-closure plan for the facility (Golder 2016b)
- monthly inspection forms documenting inspections conducted by qualified persons employed by Tri-State between December 13, 2023, and October 9, 2024

The monthly inspection forms provided valuable information regarding the status and condition of the facility since the previous annual inspection, as well as the repair and maintenance activities that were completed. The thoroughness of the monthly inspection documentation was found to be exceptional.

2.2 Changes in Facility Geometry

After the previous annual inspection, the following improvements were completed at the facility:

Riprap within the east perimeter channel at Outfall 07 was repaired, and larger riprap was installed within the perimeter channel and at the outfall to provide additional erosion resistance against future storm events.

■ A diversion berm was constructed along the top surface of the landfill, on the southern portion of the North 40, to convey water to an existing downchute channel and reduce the likelihood of erosion on the slope between the North 40 and South 40.

No additional changes in facility geometry have occurred since the previous annual inspection. However, the south embankment slopes and a small area on the top surface south of the newly installed diversion berm were revegetated.

2.3 Ash Volume Contained in the Facility

The volume of ash contained in the facility at closure was estimated as 4,750,000 cubic yards (Golder 2022c).

2.4 Changes Affecting Stability or Maintenance

Our review of the monthly inspection forms completed between December 13, 2023, and October 9, 2024, indicates that changes affecting the stability or maintenance of the facility have not been identified during the monthly inspections. The inspection forms indicate that minor issues, such as erosion rills, are being addressed proactively. Indications of changes that affect stability or maintenance of the facility were not identified during WSP's visual observation on November 5, 2024 (refer to Section 3.0).

3.0 VISUAL OBSERVATION

3.1 Overview

The inspection included a visual observation of the facility that was intended to identify signs of distress or malfunction, appearances of structural weakness, or existing conditions that are disrupting or have the potential to disrupt the maintenance and safety of the facility, if present. The findings of the visual observation are described in this section.

3.2 Visual Observation Terminology

Terms used in this section are defined as follows:

Condition of Facility Component

Good: A condition that is generally better than the minimum expected condition based on the

design criteria and maintenance performed at the facility.

Fair: A condition that is generally consistent with the minimum expected condition based on

the design criteria and maintenance performed at the facility.

Poor: A condition that is generally worse than the minimum expected condition based on the

design criteria and maintenance performed at the facility.

Severity of Deficiency

Minor: An observed deficiency where the current condition is worse than the minimum

expected condition but does not currently pose a threat to structural stability.

Significant: An observed deficiency where the current condition is worse than the minimum

expected condition and could pose a threat to structural stability if it is not addressed.

Excessive: An observed deficiency where the current condition is worse than the minimum expected

condition and either hinders the ability of an inspector to evaluate the facility component

or poses a threat to structural stability.

3.3 Findings

WSP conducted a visual observation of the facility on November 5, 2024. WSP observed the condition of the top surface, embankment slopes, embankment crest, embankment toe, and stormwater control features. The inspection form is included in Appendix A. The locations and orientations of photographs presented in this section are shown on the inspection form.

3.3.1 Top Surface

The top surface was observed to be in good condition. Signs of ground movement, such as sloughing or sliding, cracking, subsidence, or bulging, were not observed across the top surface. The top surface was appropriately graded so that stormwater will be routed away from the facility to the designated locations. A minor animal burrow was observed in one location on the top surface where indicated in Appendix A. The animal burrow does not currently pose a threat to structural stability and did not hinder WSP's ability to inspect the facility.

An earthen diversion berm, approximately 1.5 feet in height, was installed on the southern portion of the North 40 to divert runoff to an existing downchute channel on the west side of the facility. Tri-State personnel indicated that erosion rills previously observed on the top surface between the North 40 and South 40 were repaired following the 2023 inspection. This area was revegetated following repair of the erosion rills and construction of the diversion berm.

Vegetation has been established across the top surface following completion of closure activities in 2022, and a small area south of the diversion berm was revegetated in 2024 following repair of erosion rills. Vegetation was generally observed to be in fair condition across the top surface of the facility. Halogeton was observed on the top surface and is generally considered to be an undesirable plant species. The typical condition of the top surface is depicted in Photograph 1.



Photograph 1: Typical Condition of the Top Surface

3.3.2 Embankment Crest

The embankment crest was observed to be in good condition. Cracking that would be indicative of ground movement was not observed along the embankment crest. Low areas that would be indicative of differential settlement were not observed along the embankment crest. The typical condition of the embankment crest is depicted in Photograph 2.



Photograph 2: Typical Condition of the Embankment Crest

3.3.3 Embankment Slopes

The embankment slopes were observed to be in fair to good condition. Signs of ground movement, such as sloughing or sliding, cracking, subsidence, or bulging, were not observed on the embankment slopes. Evidence of excessive erosion or slope deterioration was not observed on the embankment slopes. Fair to good native vegetation has been established on the embankment slopes, with the exception of the south embankment slopes, which had sparse vegetative cover. The south embankment slopes were roughened in 2023 to create an undulating surface and had recently been reseeded at the time of the visual observation. Vegetation was observed within the undulations across the south embankment slopes. The west, north, and east embankment slopes generally had adequate vegetative coverage at the time of the visual observation. Unusually poor or thriving vegetative growth was not observed on these embankment slopes.

The typical condition of the south embankment slopes is depicted in Photograph 3. The typical condition of the west, north, and east embankment slopes is depicted in Photograph 4.



Photograph 3: Typical Condition of the South Embankment Slopes



Photograph 4: Typical Condition of the West, North, and East Embankment Slopes

3.3.4 Embankment Toe

The embankment toe was observed to be in good condition. Signs of seepage, such as springs or boggy areas, were not observed along the embankment toe. The typical condition of the embankment toe is depicted in Photograph 5.



Photograph 5: Typical Condition of the Embankment Toe

3.3.5 Stormwater Control Features

The stormwater control features at the facility were observed to be in good condition. Downchute channels and energy dissipation basins at the facility are constructed with riprap. The typical condition of the downchute channels is depicted in Photograph 6. Terrace channels at the facility are provided at approximate 20-foot vertical intervals. Erosion control wattles have been installed to control erosion and capture sediment in the terrace channels at appropriate intervals. A few animal burrows were observed within the terrace channels where indicated in Appendix A. The animal burrows did not appear to be active, do not currently pose a threat to structural stability, and did not hinder WSP's ability to inspect the facility. The typical condition of the terrace channels is depicted in Photograph 7. Perimeter channels are in place around the facility where they are needed to control stormwater. Perimeter channels at the facility are generally constructed with soil and rock. Erosion control wattles have been installed at appropriate intervals in the perimeter channels to control erosion and capture sediment. The typical condition of the perimeter channels is depicted in Photograph 8.

Tri-State repaired the riprap-lined channel at Outfall 07 following the 2023 inspection. In 2022, the riprap layer within the channel and at the outfall was damaged during a large storm event. To repair this area, Tri-State lined the channel with larger riprap, estimated to have an approximate average diameter of six inches, and installed

multiple boulders within the channel and at the outfall. Three larger boulders were placed within the channel to dissipate energy of stormwater runoff upstream of the outfall. Approximately four large boulders were placed at the downstream end of the channel, where the flow direction is diverted 90 degrees from the south-flowing channel to the east-flowing outfall, in an effort to provide additional protection against erosion. The repaired riprap-lined channel at Outfall 07 is shown in Photograph 9 and Photograph 10.

Culverts near the site entrance were inspected. The culverts were generally observed to be in good condition. The southernmost culverts at the site entrance were observed to have sediment buildup on the downstream ends, as depicted in Photograph 11. The culverts should be periodically cleaned out if sediment is observed within the culverts. Straw wattles in the channels upstream of the culverts were observed to be in good condition.



Photograph 6: Typical Condition of Downchute Channels



Photograph 7: Typical Condition of Terrace Channels



Photograph 8: Typical Condition of Perimeter Channels



Photograph 9: Stormwater Outfall 07 (looking south)



Photograph 10: Stormwater Outfall 07 (looking east)



Photograph 11: Sediment Buildup at Downstream End of Culverts

4.0 CONCLUSIONS AND RECOMMENDATIONS

WSP completed an inspection of the Nucla Station Ash Disposal Facility, including a visual observation conducted on November 5, 2024. The facility was observed to be in good condition overall. Signs of distress or malfunction of the facility were not observed, appearances of actual or potential structural weakness of the facility were not identified, and existing conditions that are disrupting or have the potential to disrupt the maintenance and safety of the facility were not observed. Current facility maintenance practices such as control of burrowing animals, monitoring and maintenance of embankment slopes, establishment of suitable vegetation on embankment slopes, and use of appropriate erosion control measures should continue, with repairs or improvements made as the need is indicated by periodic inspections. The need to address or control the growth of Halogeton on the top surface should also be evaluated.

Signature Page

WSP USA Inc.

Brendan Purcell, PE

Sweet

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Jason Obermeyer, PE Vice President, Geotechnical Engineer

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 $https://wsponlinenam.sharepoint.com/:w:/r/Sites/US-TirStateGroundwater/Shared\%20Documents/Project\%20Files/Nucla\%20CCR/2024-31403149.3795/6_Deliverables/001-RPT-2024_Annual_Inspection_Report/Rev0/31403149.3795-001-RPT-0-2024_Annual_Inspection_Report_13DEC24.docx$

5.0 REFERENCES

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- Golder. 2016a. Coal Combustion Residuals Landfill Annual Inspection Report, Nucla Station Ash Disposal Site. Report prepared for Tri-State Generation and Transmission Association, Inc. January 18.
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- Golder. 2017a. Coal Combustion Residuals Landfill Annual Inspection Report, Nucla Station Ash Disposal Site. Report prepared for Tri-State Generation and Transmission Association, Inc. January 16.
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- Golder. 2019. Coal Combustion Residuals Landfill Annual Inspection, Nucla Station Ash Disposal Facility. Report prepared for Tri-State Generation and Transmission Association, Inc. December 20.
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- Golder. 2021b. Run-On and Runoff Control System Plan, Nucla Station Ash Disposal Facility. Plan prepared for Tri-State Generation and Transmission Association, Inc. October 15.
- Golder. 2022a. Closure Plan, Nucla Station Ash Disposal Facility. Plan prepared for Tri-State Generation and Transmission Association, Inc. February 23.
- Golder. 2022b. Closure Certification, Nucla Station Ash Disposal Facility. Report prepared for Tri-State Generation and Transmission Association, Inc. June 20.
- Golder. 2022c. Coal Combustion Residuals Landfill Annual Inspection, Nucla Station Ash Disposal Facility. Report prepared for Tri-State Generation and Transmission Association, Inc. December 16.

Tri-State (Tri-State Generation and Transmission Association, Inc.). 2022a. Notification of Intent to Close CCR Unit, Nucla Station Ash Disposal Facility. January 28.

- Tri-State. 2022b. Notification of Final Cover Completion, Nucla Station Ash Disposal Facility. June 22.
- Tri-State. 2022c. Notification of Recording of Notice of Obligation in Lieu of CCR Deed Notation, Nucla Station Ash Disposal Facility. June 22.
- Western Colorado Testing, Inc., and J.F.T. Agapito & Associates, Inc. 1987. Geological and Geohydrological Evaluation of Dry Storage Site, Nucla CFB Demonstration Project. Report prepared on behalf of Colorado-Ute Electric Association, Inc., for the Colorado Department of Health. July 8.
- WSP (WSP USA Inc.). 2023. Coal Combustion Residuals Landfill Annual Inspection, Nucla Station Ash Disposal Facility. Report prepared for Tri-State Generation and Transmission Association, Inc. December 15.

APPENDIX A

Inspection Form

Inspection Date: November 5, 2024 Inspector(s): Brendan Purcell, PE

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION NUCLA STATION ASH DISPOSAL FACILITY

INSPECTION FORM

•••	Inspection Date: November 5, 2024	Inspection Time: 9:30am-11:30am				Legend:		Yes		
	Inspector(s): Brendan Purcell, PE	Title(s	s): Senio	or Consu	ıltant				N NI NA	No Not inspected Not applicable
	Reviewer: Jason Obermeyer, PE	Title:	Vice Pr	esident					RA	Requires action
Instructions: Complete each	part of the inspection form. Indicate areas of concern on the plan	n view o	n page	3. Elabo	orate on	deficie	ncies in S	Section J.		
A. Previous Open Items										
1. List open items from the p	previous inspection form (Section I.) and indicate whether or not the	open it	ems hav	e been a	addresse	d:				
a. Erosion repairs at the stormwater outfall on the southern half of the east perimeter				NI	NA	RA	If N and/or RA, please elaborate.			
b. Reseeding of the south embankment slopes				NI	NA	RA	If N and/or RA, please elaborate.			
c.				NI	NA	RA	If N and/or RA, please elaborate.			
B. Atmospheric Conditio	ns									
1. Briefly describe precipitat	ion conditions (rainy, dry, snowy) or notable precipitation events ov	ver the l	ast five	days: No	one					
2. Briefly describe wind (cal	m, breezy, windy, gusty) and weather (cold, warm, cloudy, sunny) of	conditio	ns durin	g the in	spection	: Calm,	cool, ove	ercast		
C. Facility Access										
1. Are facility access roads in	n good condition?	Y	N	NI	NA	RA	If N an	d/or RA, p	lease e	laborate.
2. Are facility access controls (signage, fencing, gates) in good condition? Y N NI NA RA If N and/or RA, please elaboration.					laborate.					
3. Do you observe signs of unauthorized access or disposal?			N	NI	NA	RA	If Y and/or RA, please elaborate.			
D. Top Surface										
1. Do you observe signs of g	round movement on the top surface?	Y	N	NI	NA	RA	If Y an	d/or RA, p	lease e	laborate.
If Y, circle those that appl	y: Slough or Slide Cracking Subsidence Bulging									
2. Do you observe ponding of	on the top surface?	Y	N	NI	NA	RA	If Y and	d/or RA, p	lease e	laborate.
3. Do you observe signs of e	xcessive erosion on the top surface?	Y	N	NI	NA	RA	If Y and	d/or RA, p	lease e	laborate.
4. Do you observe inadequat	e, unwanted, or unusual (thriving or poor) vegetative growth?	Y	N	NI	NA	RA	If Y and	d/or RA, p	lease e	laborate.
5. Do you observe animal burrows on the top surface?			N	NI	NA	RA	If Y and	d/or RA, p	lease e	laborate.
E. Embankment Crests										
1. Do you observe cracks alo	ong the embankment crest?	Y	N	NI	NA	RA	If Y and	d/or RA, p	lease e	laborate.

N

NA

NI

If Y and/or RA, please elaborate.

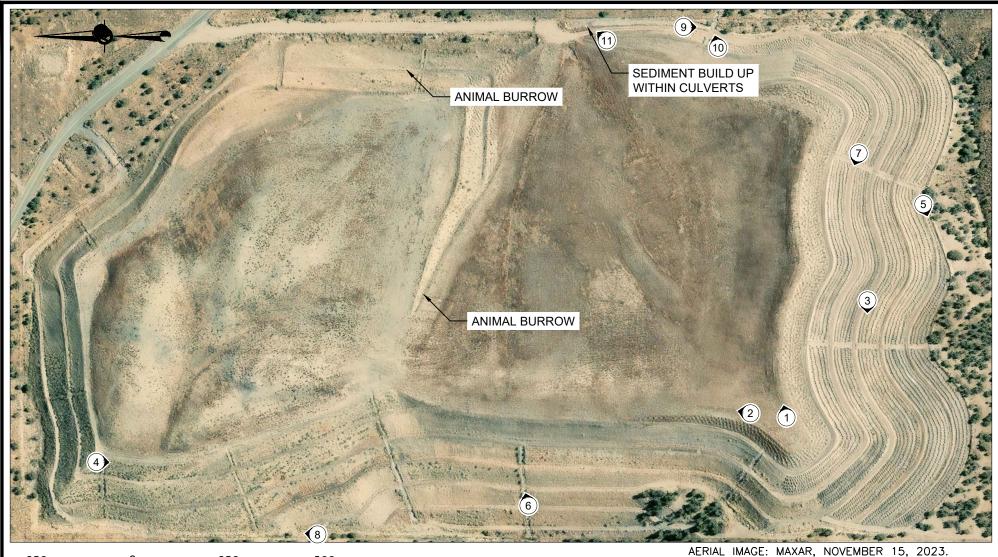
2. Do you observe differential settlement (low areas) along the embankment crest?

F. Embankment Slopes								
1. Briefly describe ground conditions (wet, dry, soft, firm). North: Dry, firm Ea	ıst: Dry, firr	Dry, firm		uth: Dry	, loose	West: Dry, firm		
2. Do you observe signs of movement or instability on the embankment slopes?		N	NI	NA	RA	If Y and/or RA, please elaborate.		
If Y, circle those that apply: Slough or Slide Cracking Subsidence Bulging								
3. Do you observe signs of excessive erosion or slope deterioration?	Y	N	NI	NA	RA	If Y and/or RA, please elaborate.		
4. Do you observe inadequate, unwanted, or unusual (thriving or poor) vegetative growth?	Y	N	NI	NA	RA	If Y and/or RA, please elaborate.		
5. Do you observe animal burrows on the embankment slopes?		N	NI	NA	RA	If Y and/or RA, please elaborate.		
G. Embankment Toes								
1. Do you observe signs of seepage (springs or boggy areas) at the embankment toe?		N	NI	NA	RA	If Y and/or RA, please elaborate.		
H. Stormwater Control Features								
1. Are rundowns (downchute channels) and energy dissipation features in good condition?	Y	N	NI	NA	RA	If N and/or RA, please elaborate.		
2. Are terrace channels in good condition and providing positive drainage toward rundowns?	? Y	N	NI	NA	RA	If N and/or RA, please elaborate.		
3. Are culverts (including inlet and outlet areas) in good condition?			NI	NA	RA	If N and/or RA, please elaborate.		
4. Are perimeter channels and stormwater outfalls in good condition?			NI	NA	RA	If N and/or RA, please elaborate.		
I. Open Items								
1. List unresolved items from the previous inspection (RA in Section A.) and new items identified during the current inspection (RA in Sections B. through H.):								
a.								
b.								
c.								
d.								
e.								
I Elaboration								

J. Elaboration

Identify the specific item number (for instance, F.2.) and elaborate on each deficiency or issue identified during the inspection. Attach documentation (photographs or sketches) if practical.

- D.4. Halogeton was identified in some areas on the top surface.
- D.5. Small animal burrows were observed in one location on the top surface and one location within a terrace channel (see page 3). The burrows did not appear to be active.
- H.3. Sediment buildup was observed at the culvert outlets near the site entrance.



250 0 250 500 SCALE FEET

1) PHOTOGRAPH LOCATION AND DIRECTION

ANNUAL INSPECTION FORM TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION NUCLA STATION ASH DISPOSAL FACILITY



3 of 3

Inspection Date: NOVEMBER 5, 2024

