



**REPORT**

# Annual Groundwater Monitoring Report – 2022

*Active Coal Combustion Residuals Landfill  
Escalante Generating Station  
Prewitt, New Mexico*

Submitted to:

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## Executive Summary

This report summarizes the groundwater monitoring activities and results for the 2022 detection monitoring program for the active coal combustion residuals (CCR) landfill at Escalante Generating Station, along with the comparative statistical analysis. The active CCR landfill, which is owned and operated by Tri-State Generation and Transmission Association, Inc., is currently in detection monitoring, and no program transitions occurred in 2022.

No verified statistically significant increases (SSIs) were identified from the 2022 detection monitoring. The total recoverable boron concentration in the sample collected from TRcpc-17 during the first semi-annual 2022 sampling event exceeded the non-parametric prediction limit and was therefore identified as a potential exceedance. Confirmatory resampling in September 2022 identified this as a false-positive SSI. The total recoverable calcium concentration in the sample collected from TRcpc-18 during the second semi-annual 2022 sampling event exceeded the non-parametric prediction limit and was therefore identified as a potential exceedance. A confirmatory resampling event is planned for the first quarter of 2023.

As described in the Groundwater Monitoring System Certification (Golder 2017) and the Groundwater Statistical Method Certification (Golder 2020), the groundwater monitoring and analytical procedures for the program meet the requirements of 40 CFR 257 Subpart D (the CCR Rule), and modifications to the monitoring network and sampling program are not recommended at this time.

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## 1.0 INTRODUCTION

WSP USA Inc. (WSP) has prepared this report to describe the 2022 groundwater monitoring activities and comparative statistical analysis for the active coal combustion residuals (CCR) landfill at Escalante Generating Station (the site), which is owned and operated by Tri-State Generation and Transmission Association, Inc. (Tri-State) and subject to regulation under 40 CFR 257 Subpart D (the CCR Rule). This report was written to meet the requirements of 40 CFR 257.90(e).

### 1.1 Facility Information

Escalante Generating Station is a 270-megawatt coal-fired electric generation facility located near Prewitt, New Mexico. The generating unit was retired in August 2020. The active CCR landfill at the site contains fly ash, bottom ash, and flue gas desulfurization solids (scrubber solids).

### 1.2 Purpose

The CCR Rule established specific requirements for reporting of groundwater monitoring activities and corrective action in 40 CFR 257.90. Per 40 CFR 257.90(e), no later than January 31, 2018, and annually thereafter, owners or operators of CCR units must prepare an annual groundwater monitoring and corrective action report.

## 2.0 GROUNDWATER MONITORING PROGRAM STATUS

The groundwater monitoring system for the active CCR landfill at Escalante Generating Station consists of six monitoring wells, as described in the Groundwater Monitoring System Certification (Golder 2017). The two upgradient monitoring wells are TRcpc-1 and TRcpc-2. The four downgradient monitoring wells are TRcpc-15, TRcpc-16, TRcpc-17, and TRcpc-18.

### 2.1 Completed Key Actions in 2022

The following key actions were completed in 2022:

- The 2021 Annual Groundwater Monitoring Report (Golder 2022) was finalized and placed within the operating record and on Tri-State's publicly accessible CCR website.
- The first semi-annual 2022 sampling event was performed in the second quarter, on May 24, May 25, June 1, and June 2.
- The second semi-annual 2022 sampling event was performed in the fourth quarter, on October 11 and 12.
- Confirmatory resampling was performed on September 28 for a potential exceedance identified during the first semi-annual 2022 sampling event.

### 2.2 Installation and Decommissioning of Monitoring Wells

No monitoring wells were installed or decommissioned for the active CCR landfill at Escalante Generating Station in 2022.

### 2.3 Problems and Resolutions

The laboratory report for the second semi-annual 2022 sampling event noted numerous laboratory quality assurance/quality control (QA/QC) issues pertaining to the fluoride analysis for samples collected from TRcpc-1, TRcpc-2, and TRcpc-15. Additionally, these well-constituent pairs were initially analyzed on diluted samples, resulting in concentrations reported as estimated values between the method detection limit and the practical

quantitation limit, as well as practical quantitation limits greater than statistical limits. Therefore, a reanalysis was conducted outside of hold time. The reanalyzed fluoride concentrations are consistent with historical results from these monitoring wells and have been reported for the second semi-annual 2022 sampling event. No other problems were identified from the 2022 sampling events.

## 2.4 Proposed Key Activities for 2023

The following key actions are expected to be completed in 2023:

- A confirmatory resampling event for a potential exceedance identified during the second semi-annual 2022 sampling event is planned to occur during the first quarter of 2023.
- Detection monitoring sampling events are planned to occur in the second and fourth quarters of 2023.

## 3.0 GROUNDWATER MONITORING RESULTS AND ANALYSIS

Results from the groundwater monitoring program in 2022 are described in this section.

### 3.1 Groundwater Flow

The groundwater elevation was measured in each monitoring well prior to purging during each sampling event. Groundwater elevations are presented in Table 1 through Table 6. Groundwater elevations from the first semi-annual 2022 sampling event and the second semi-annual 2022 sampling event are shown in Figure 1 and Figure 2, respectively.

Based on the groundwater elevations measured in 2022, the groundwater in the Correo Sandstone generally flows east with a localized northerly flow component under the active CCR landfill.

The groundwater flow rate was estimated with the equation  $V_s = k \times i/n_e$ , where:

- $V_s$  is the groundwater flow rate, in feet per day (ft/day);
- $k$  is the hydraulic conductivity, estimated to range from 0.00296 to 12.7 from site pumping test data, in ft/day;
- $i$  is the hydraulic gradient calculated based on the difference between groundwater elevations in TRcpc-1 and TRcpc-16 and the distance between these monitoring wells, in feet per foot (ft/ft); and
- $n_e$  is the effective porosity, estimated to be 0.33 based on historical testing results for samples of Correo Sandstone obtained on site.

Groundwater flow velocity estimates range from 0.00004 ft/day to 0.19 ft/day for the first and second semi-annual 2022 sampling events.

### 3.2 Monitoring Data (Analytical Results)

Analytical results from detection monitoring in 2022 are shown in Table 1 through Table 6.

### 3.3 Samples Collected

The detection monitoring sampling events were conducted in April and May 2022 (first semi-annual 2022 sampling event) and October 2022 (second semi-annual 2022 sampling event). Additionally, a sample was collected from TRcpc-17 in September 2022 for confirmatory resampling associated with the detection monitoring program.

## 3.4 Comparative Statistical Analysis

The comparative statistical analysis is summarized below, and the results are presented in Table 7 through Table 12. A full description of the steps taken for the comparative statistical analysis can be found in the Groundwater Statistical Method Certification (Golder 2020).

### 3.4.1 Definitions

The following definitions are used in discussion of the comparative statistical analysis:

- SSI – is a statistically significant increase and is defined as an analytical result that exceeds the parametric or non-parametric statistical limit established by the baseline statistical analysis.
- Potential exceedance – is defined as an initial analytical result that exceeds the parametric or non-parametric statistical limit established by the baseline statistical analysis. Confirmatory resampling is used to determine whether the potential exceedance is a false-positive SSI or a verified SSI.
- False-positive SSI – is defined as an analytical result that exceeds the statistical limit but can clearly be attributed to laboratory error or changes in analytical precision or is invalidated through confirmatory resampling.
- Confirmatory resampling – is designated as the resampling event that occurs within 90 days of identifying an SSI over the statistical limit for determination of a verified SSI<sup>1</sup>.
- Verified SSI – is interpreted as two consecutive SSIs (the original sample and the confirmatory resample for analytical results) for the same constituent at the same monitoring well.

### 3.4.2 Potential Exceedances

The total recoverable boron concentration in the first semi-annual 2022 sample collected from TRcpc-17 was greater than the non-parametric prediction limit and was therefore identified as a potential exceedance. Results of the confirmatory resampling conducted in September 2022 are discussed in Section 3.4.3.

The total recoverable calcium concentration in the second semi-annual 2022 sample collected from TRcpc-18 was greater than the non-parametric prediction limit and was therefore identified as a potential exceedance. A confirmatory resampling event is planned for the first quarter of 2023.

### 3.4.3 False-Positive Statistically Significant Increases

Confirmatory resampling for a potential exceedance associated with the first semi-annual 2022 sampling event (total recoverable boron at TRcpc-17) occurred in September 2022. The confirmatory resampling identified the total recoverable boron result from the first semi-annual 2022 sample at TRcpc-17 as a false-positive SSI. No further action is needed.

### 3.4.4 Verified Statistically Significant Increases

No verified SSIs were identified for the 2022 detection monitoring program.

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<sup>1</sup> Resampling may not occur within 90 days of the sampling event that resulted in the potential exceedance because of the additional time required for activities that must occur before a potential exceedance can be identified. These include sample delivery, analytical testing, review of results, and comparative statistical analysis.

## 4.0 PROGRAM TRANSITIONS

In the third quarter of 2017, the groundwater monitoring program for the active CCR landfill at Escalante Generating Station transitioned from the baseline period to detection monitoring. The facility remains in detection monitoring, and no program transitions occurred in 2022.

### 4.1 Detection Monitoring

Samples for the detection monitoring program are collected on a semi-annual basis, beginning with the sample collected in August 2017. Tri-State plans to collect semi-annual samples for the detection monitoring program in the second and fourth quarters of 2023.

### 4.2 Assessment Monitoring

The groundwater monitoring program for the active CCR landfill at Escalante Generating Station is not in assessment monitoring. Assessment monitoring has not been triggered as described in 40 CFR 257.95. As such, no alternative source demonstrations have been made under an assessment monitoring program and no actions are required.

### 4.3 Corrective Measures and Assessment

The groundwater monitoring program for the active CCR landfill at Escalante Generating Station does not indicate the need for corrective measures. An assessment of corrective measures, as described in 40 CFR 257.96, is not required.

## 5.0 RECOMMENDATIONS AND CLOSING

This report presents the groundwater monitoring activities and results for the 2022 detection monitoring program for the active CCR landfill at Escalante Generating Station, along with the comparative statistical analysis. The significant findings from the 2022 monitoring activities and comparative statistical analysis are as follows:

- A potential exceedance for total recoverable boron in TRcpc-17 was identified from the first semi-annual 2022 sampling event. Confirmatory resampling conducted in September 2022 indicated that the first semi-annual 2022 result was a false-positive SSI.
- A potential exceedance for total recoverable calcium in TRcpc-18 was identified from the second semi-annual 2022 sampling event. Confirmatory resampling is scheduled for the first quarter of 2023.
- No other potential exceedances or false-positive SSIs were identified from the 2022 detection monitoring program.
- No verified SSIs were identified from the 2022 detection monitoring program.

As described in the Groundwater Monitoring System Certification (Golder 2017) and the Groundwater Statistical Method Certification (Golder 2020), the groundwater monitoring and analytical procedures meet the requirements of the CCR Rule, and modifications to the monitoring network and sampling program are not recommended at this time.




## Signature Page

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## 6.0 REFERENCES

Golder (Golder Associates Inc.). 2017. Active Coal Combustion Residuals Landfill Groundwater Monitoring System Certification, Escalante Generating Station. Report prepared for Tri-State Generation and Transmission Association, Inc. October 13.

Golder. 2020. Active Coal Combustion Residuals Landfill Groundwater Statistical Method Certification, Escalante Generating Station. Report prepared for Tri-State Generation and Transmission Association, Inc. June 29.

Golder. 2022. Annual Groundwater Monitoring Report – 2021, Active Coal Combustion Residuals Landfill, Escalante Generating Station. Report prepared for Tri-State Generation and Transmission Association, Inc. January 28, 2022.

## Tables

**Tri-State Generation and Transmission Association, Inc.  
Escalante Generating Station**

**Table 1. Sample Results Summary Table – TRcpc-1**

Analytes	Units	Compliance Point (5/24/2022)	Compliance Point (10/11/2022)
Static Water Elevation	ft amsl	6860.2	6860.9
<b>Appendix III</b>			
Boron, Total Recoverable	mg/L	1.7	1.6
Calcium, Total Recoverable	mg/L	13 B	13 B
Chloride	mg/L	640	600
Fluoride	mg/L	1.4	1.7 H
pH, Field-Measured	pH units	8.3	8.2
Sulfate	mg/L	870	780
Total Dissolved Solids	mg/L	2600	2400

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

**Tri-State Generation and Transmission Association, Inc.  
Escalante Generating Station**

**Table 2. Sample Results Summary Table – TRcpc-2**

Analytes	Units	Compliance Point (6/1/2022)	Compliance Point (10/11/2022)
Static Water Elevation	ft amsl	6850.9	6851.5
<b>Appendix III</b>			
Boron, Total Recoverable	mg/L	1.6	1.6
Calcium, Total Recoverable	mg/L	15 B	15 B
Chloride	mg/L	1100	1100
Fluoride	mg/L	1.6	1.9 H F1
pH, Field-Measured	pH units	8.0	8.1
Sulfate	mg/L	550	470
Total Dissolved Solids	mg/L	2700	2700

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

F1: Laboratory quality control matrix spike and/or matrix spike duplicate sample recovered outside control limits

**Table 3. Sample Results Summary Table – TRcpc-15**

Analytes	Units	Compliance Point (5/25/2022)	Compliance Point (10/11/2022)
Static Water Elevation	ft amsl	6828.7	6828.8
<b>Appendix III</b>			
Boron, Total Recoverable	mg/L	1.5	1.4
Calcium, Total Recoverable	mg/L	6.1 B	6.2 B
Chloride	mg/L	570	530
Fluoride	mg/L	2.4	2.9 H
pH, Field-Measured	pH units	8.1	8.1
Sulfate	mg/L	230	190
Total Dissolved Solids	mg/L	1600	1600

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

**Tri-State Generation and Transmission Association, Inc.  
Escalante Generating Station**

**Table 4. Sample Results Summary Table – TRcpc-16**

Analytes	Units	Compliance Point (5/25/2022)	Compliance Point (10/12/2022)
Static Water Elevation	ft amsl	6827.8	6827.9
<b>Appendix III</b>			
Boron, Total Recoverable	mg/L	1.6	1.5
Calcium, Total Recoverable	mg/L	4.8 B	4.6 B
Chloride	mg/L	450	490
Fluoride	mg/L	3.2	3.0
pH, Field-Measured	pH units	8.3	8.3
Sulfate	mg/L	230	240
Total Dissolved Solids	mg/L	1400	1400

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

**Table 5. Sample Results Summary Table – TRcpc-17**

Analytes	Units	Compliance Point (6/2/2022)	Confirmatory Resample Point (9/28/2022)	Compliance Point (10/12/2022)
Static Water Elevation	ft amsl	6830.0	6830.1	6830.1
<b>Appendix III</b>				
Boron, Total Recoverable	mg/L	1.5	1.4	1.4
Calcium, Total Recoverable	mg/L	16 B	--	15 B
Chloride	mg/L	1500	--	1600
Fluoride	mg/L	2.2	--	2.1
pH, Field-Measured	pH units	8.0	7.8	8.1
Sulfate	mg/L	310	--	310
Total Dissolved Solids	mg/L	2900	--	2800

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample



**Tri-State Generation and Transmission Association, Inc.  
Escalante Generating Station**

**Table 6. Sample Results Summary Table – TRcpc-18**

Analytes	Units	Compliance Point (6/1/2022)	Compliance Point (10/12/2022)
Static Water Elevation	ft amsl	6840.8	6841.6
<b>Appendix III</b>			
Boron, Total Recoverable	mg/L	0.85	0.72
Calcium, Total Recoverable	mg/L	4.5 B	5.6 B
Chloride	mg/L	340	380
Fluoride	mg/L	1.3	1.2
pH, Field-Measured	pH units	9.8	9.6
Sulfate	mg/L	200	180 B
Total Dissolved Solids	mg/L	1100	1000

**NOTES:**

ft amsl: feet above mean sea level

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

Table 7. Statistics Summary Table – TRcpc-1

Analytes	Units	Selected Statistical Method	Statistical Limit	May 2022		October 2022	
				Compliance Point (5/24/2022)	SSI Determination	Compliance Point (10/11/2022)	SSI Determination
<b>Appendix III</b>							
Boron, Total Recoverable	mg/L	NP-PL	1.7	1.7	No	1.6	No
Calcium, Total Recoverable	mg/L	NP-PL	13	13 B	No	13 B	No
Chloride	mg/L	P-PL	692	640	No	600	No
Fluoride	mg/L	NP-PL	1.8	1.4	No	1.7 H	No
pH, Field-Measured	pH units	P-PL	7.2, 9.7	8.3	No	8.2	No
Sulfate	mg/L	P-PL	922	870	No	780	No
Total Dissolved Solids	mg/L	NP-PL	3200	2600	No	2400	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

Table 8. Statistics Summary Table – TRcpc-2

Analytes	Units	Selected Statistical Method	Statistical Limit	June 2022		October 2022	
				Compliance Point (6/1/2022)	SSI Determination	Compliance Point (10/11/2022)	SSI Determination
<b>Appendix III</b>							
Boron, Total Recoverable	mg/L	NP-PL	1.6	1.6	No	1.6	No
Calcium, Total Recoverable	mg/L	NP-PL	15	15 B	No	15 B	No
Chloride	mg/L	NP-PL	1200	1100	No	1100	No
Fluoride	mg/L	P-PL	2.4	1.6	No	1.9 H F1	No
pH, Field-Measured	pH units	NP-PL	7.8, 9.4	8.0	No	8.1	No
Sulfate	mg/L	P-PL	624	550	No	470	No
Total Dissolved Solids	mg/L	NP-PL	2900	2700	No	2700	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

F1: Laboratory quality control matrix spike and/or matrix spike duplicate sample recovered outside acceptable limits

**Table 9. Statistics Summary Table – TRcpc-15**

Analytes	Units	Selected Statistical Method	Statistical Limit	May 2022		October 2022	
				Compliance Point (5/25/2022)	SSI Determination	Compliance Point (10/11/2022)	SSI Determination
<b>Appendix III</b>							
Boron, Total Recoverable	mg/L	NP-PL	1.5	1.5	No	1.4	No
Calcium, Total Recoverable	mg/L	P-PL	8.4	6.1 B	No	6.2 B	No
Chloride	mg/L	P-PL	620	570	No	530	No
Fluoride	mg/L	NP-PL	3.0	2.4	No	2.9 H	No <sup>(1)</sup>
pH, Field-Measured	pH units	NP-PL	7.8, 8.8	8.1	No	8.1	No
Sulfate	mg/L	P-PL	278	230	No	190	No
Total Dissolved Solids	mg/L	NP-PL	2200	1600	No	1600	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

H: Analyte was analyzed outside of hold time due to laboratory reanalysis

1) In the original version of this report, the second semi-annual fluoride result at TRcpc-15 was incorrectly reported as an SSI in Table 9. Table 9 was corrected on February 7, 2023.

**Table 10. Statistics Summary Table – TRcpc-16**

Analytes	Units	Selected Statistical Method	Statistical Limit	May 2022		October 2022	
				Compliance Point (5/25/2022)	SSI Determination	Compliance Point (10/12/2022)	SSI Determination
<b>Appendix III</b>							
Boron, Total Recoverable	mg/L	NP-PL	1.6	1.6	No	1.5	No
Calcium, Total Recoverable	mg/L	P-PL	6.4	4.8 B	No	4.6 B	No
Chloride	mg/L	NP-PL	540	450	No	490	No
Fluoride	mg/L	P-PL	4.0	3.2	No	3.0	No
pH, Field-Measured	pH units	P-PL	8.0, 9.0	8.3	No	8.3	No
Sulfate	mg/L	P-PL	313	230	No	240	No
Total Dissolved Solids	mg/L	NP-PL	2200	1400	No	1400	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

Table 11. Statistics Summary Table – TRcpc-17

Analytes	Units	Selected Statistical Method	Statistical Limit	May 2022		September 2022		October 2022	
				Compliance Point (6/2/2022)	SSI Determination	Confirmatory Resample (9/28/2022)	SSI Determination	Compliance Point (10/12/2022)	SSI Determination
<b>Appendix III</b>									
Boron, Total Recoverable	mg/L	NP-PL	1.4	1.5	False-positive SSI	1.4	No	1.4	No
Calcium, Total Recoverable	mg/L	P-PL	22	16 B	No	--	--	15 B	No
Chloride	mg/L	NP-PL	1700	1500	No	--	--	1600	No
Fluoride	mg/L	NP-PL	2.7	2.2	No	--	--	2.1	No
pH, Field-Measured	pH units	P-PL	7.6, 9.2	8.0	No	7.8	-- <sup>(1)</sup>	8.1	No
Sulfate	mg/L	P-PL	398	310	No	--	--	310	No
Total Dissolved Solids	mg/L	NP-PL	3600	2900	No	--	--	2800	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

1) Field-measured pH is reported for informational purposes. SSI determination for the confirmatory resampling event only applies to parameters identified as potential exceedances from the preceding sampling event.

**Table 12. Statistics Summary Table – TRcpc-18**

Analytes	Units	Selected Statistical Method	Statistical Limit	June 2022		October 2022	
				Compliance Point (6/1/2022)	SSI Determination	Compliance Point (10/12/2022)	SSI Determination
<b>Appendix III</b>							
Boron, Total Recoverable	mg/L	P-PL	0.95	0.85	No	0.72	No
Calcium, Total Recoverable	mg/L	P-PL	5.3	4.5 B	No	5.6 B	Potential Exceedance
Chloride	mg/L	NP-PL	380	340	No	380	No
Fluoride	mg/L	P-PL	2.3	1.3	No	1.2	No
pH, Field-Measured	pH units	P-PL	8.1, 12.3	9.8	No	9.6	No
Sulfate	mg/L	NP-PL	250	200	No	180 B	No
Total Dissolved Solids	mg/L	NP-PL	1400	1100	No	1000	No

**NOTES:**

P-PL: Parametric Prediction Limit

NP-PL: Non-parametric Prediction Limit

mg/L: milligrams per liter

B: Analyte was detected in the laboratory quality control blank and the sample

## Figures



Path: \\net01\geospatial\projects\escalante\escalante\transmission\TRSTA\ESCALANTE09\_PROJECTS\1453425\_000 | File Name: 21453425\_000\_CCS Well\_Elev\_SemiAnnual Sampling Event.dwg



**LEGEND**

	TRcpc-1	UPGRADIENT MONITORING WELL
	TRcpc-18	DOWNGRADIENT MONITORING WELL
6860.2		GROUNDWATER ELEVATION (FIRST SEMI-ANNUAL 2022 SAMPLING EVENT, NOTE 1)

**NOTE(S)**

- GROUNDWATER ELEVATIONS AT TRcpc-15 AND TRcpc-16 WERE MEASURED ON MAY 25, 2022. GROUNDWATER ELEVATION AT TRcpc-1 WAS MEASURED ON MAY 24, 2022. GROUNDWATER ELEVATIONS AT TRcpc-2 AND TRcpc-18 WERE MEASURED ON JUNE 1, 2022. GROUNDWATER ELEVATION AT TRcpc-17 WAS MEASURED ON JUNE 2, 2022.



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TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION 1100 WEST 116TH AVENUE WESTMINSTER, COLORADO 80234	
<b>CONSULTANT</b>	
YYYY-MM-DD	2023-01-27
DESIGNED	BJP
PREPARED	CGS
REVIEWED	SAH
APPROVED	JEO



<b>PROJECT</b>	
ESCALANTE GENERATING STATION ACTIVE COAL COMBUSTION RESIDUALS LANDFILL ANNUAL GROUNDWATER MONITORING REPORT	
<b>TITLE</b>	
MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATIONS (FIRST SEMI-ANNUAL 2022 SAMPLING EVENT)	
PROJECT NO.	21453425.002
REV.	B
FIGURE	1

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A150D



Path: \\gdr\gdr\_gis\complexe\data\offices\downstream\TRSTATE GENERATION AND TRANSMISSION\TRSTATE ESCALANTE\ESG\_PROJECTS\1453425\_000\_CCR Wells\_Second SemiAnnual Sampling Event.dwg

**LEGEND**

- TRcpc-1 UPGRADIENT MONITORING WELL
- TRcpc-18 DOWNGRADIENT MONITORING WELL
- 6860.9 GROUNDWATER ELEVATION (SECOND SEMI-ANNUAL 2022 SAMPLING EVENT, NOTE 1)

**NOTE(S)**

1. GROUNDWATER ELEVATIONS AT TRcpc-1, TRcpc-2, AND TRcpc-15 WERE MEASURED ON OCTOBER 11, 2022. GROUNDWATER ELEVATIONS AT TRcpc-16, TRcpc-17, AND TRcpc-18 WERE MEASURED ON OCTOBER 12, 2022.



CLIENT  
**TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION**  
 1100 WEST 116TH AVENUE  
 WESTMINSTER, COLORADO 80234

CONSULTANT	YYYY-MM-DD	2023-01-27
	DESIGNED	BJP
	PREPARED	CGS
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	APPROVED	JEO

PROJECT  
**ESCALANTE GENERATING STATION**  
 ACTIVE COAL COMBUSTION RESIDUALS LANDFILL  
 ANNUAL GROUNDWATER MONITORING REPORT

TITLE  
**MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATIONS (SECOND SEMI-ANNUAL 2022 SAMPLING EVENT)**

PROJECT NO.  
 21453425.002

REV.  
 B

FIGURE  
 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A4S D



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