



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT  
4101 JEFFERSON PLAZA NE  
ALBUQUERQUE, NM 87109-3435

December 3, 2024

CESPA-RDS

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Approved Jurisdictional Determination in accordance with the "Revised Definition of 'Waters of the United States'"; (88 FR 3004 (January 18, 2023) as amended by the "Revised Definition of 'Waters of the United States'; Conforming" (8 September 2023),<sup>1</sup> SPA-2023-00511<sup>2</sup>.

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.<sup>3</sup> AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.<sup>4</sup>

On January 18, 2023, the Environmental Protection Agency (EPA) and the Department of the Army ("the agencies") published the "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule"). On September 8, 2023, the agencies published the "Revised Definition of 'Waters of the United States'; Conforming", which amended the 2023 Rule to conform to the 2023 Supreme Court decision in *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023) ("*Sackett*").

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. For the purposes of this AJD, we have relied on Section 10 of the Rivers and Harbors Act of 1899 (RHA),<sup>5</sup> the 2023 Rule as amended,

---

<sup>1</sup> While the Revised Definition of "Waters of the United States;" Conforming had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

<sup>2</sup> When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, the territorial seas, or interstate water that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

<sup>3</sup> 33 CFR 331.2.

<sup>4</sup> Regulatory Guidance Letter 05-02.

<sup>5</sup> USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

as well as other applicable guidance, relevant case law, and longstanding practice in evaluating jurisdiction.

1. SUMMARY OF CONCLUSIONS.

- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).
  - i. W-T01-001, is not a water of the United States
  - ii. W-T01-002, is not a water of the United States
  - iii. W-T01-003, is not a water of the United States
  - iv. W-T01-004, is not a water of the United States
  - v. W-T02-001, is not a water of the United States
  - vi. W-T02-002, is not a water of the United States
  - vii. W-T02-003, is not a water of the United States
  - viii. W-T02-004, is not a water of the United States
  - ix. W-T02-005, is not a water of the United States
  - x. W-T02-006, is not a water of the United States
  - xi. T-T01-001, is not a water of the United States
  - xii. T-T01-002, is not a water of the United States
  - xiii. T-T01-003, is not a water of the United States
  - xiv. T-T01-004, is not a water of the United States
  - xv. T-T01-005, is not a water of the United States
  - xvi. T-T01-006, is not a water of the United States
  - xvii. T-T01-007, is not a water of the United States
  - xviii. T-T02-001, is not a water of the United States
  - xix. T-T02-002, is not a water of the United States
  - xx. D-T01-001, is not a water of the United States
  - xxi. D-T01-002, is not a water of the United States
  - xxii. D-T01-003, is not a water of the United States
  - xxiii. D-T01-004, is not a water of the United States
  - xxiv. D-T01-006, is not a water of the United States
  - xxv. D-T01-007, is not a water of the United States
  - xxvi. D-T01-008, is not a water of the United States
  - xxvii. D-T02-001, is not a water of the United States
  - xxviii. D-T02-002, is not a water of the United States

2. REFERENCES.

- a. "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule")

CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

- b. "Revised Definition of 'Waters of the United States;' Conforming" 88 FR 61964 (September 8, 2023))
- c. *Sackett v. EPA*, 598 U.S. \_\_\_, 143 S. Ct. 1322 (2023)

3. REVIEW AREA. The total survey area for the Cheyenne Ridge II Wind Project is 1,530.60 acres in size. A total of 10 palustrine emergent wetlands, 9 ephemeral tributaries, 9 drainage ditches, and 2 waterbodies were delineated. The project is located in Cheyenne and Kit Carson counties, Colorado. The applicant has requested the review of 30 aquatic resources located within the review area (e.g., W-T01-001 (wetland), T-T01-001 (Tributary), D-T01-001 (Ditch)).

Wetland ID	Latitude	Longitude	Cowardin Class	Acreage within Survey Area
W-T01-001	38.9123953°	-102.5273519°	PEM	0.22
W-T01-002	38.88702192°	-102.5532429°	PEM	0.39
W-T01-003	38.93726655°	-102.5193292°	PEM	0.06
W-T01-004	38.97956612°	-102.6672926°	PEM	1.30
W-T02-001	39.00035983°	-102.5533852°	PEM	0.11
W-T02-002	39.00018413°	-102.5623063°	PEM	0.20
W-T02-003	39.00034411°	-102.5665408°	PEM	0.03
W-T02-004	39.03484981°	-102.523299°	PEM	0.03
W-T02-005	38.997328°	-102.61452°	PEM	< 0.01
W-T02-006	38.99923261°	-102.615862°	PEM	0.02

Tributary ID	Latitude	Longitude	Flow Regime	Linear Feet within Survey Area
T-T01-001	39.060623°	-102.626555°	Ephemeral	173.9
T-T01-002	39.047212°	-102.627213°	Ephemeral	119.8
T-T01-003	38.898876°	-102.529674°	Ephemeral	101.0
T-T01-004	38.934007°	-102.519970°	Ephemeral	452.2
T-T01-005	38.981776°	-102.546570°	Ephemeral	217.7
T-T01-006	38.981151°	-102.548466°	Ephemeral	203.7
T-T01-007	38.997416°	-102.581612°	Ephemeral	120.0
T-T02-001	39.018323°	-102.535765°	Ephemeral	119.1
T-T02-002	39.011393°	-102.654878°	Ephemeral	2,263.3

CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

Ditch ID	Latitude	Longitude	Linear Feet within Survey Area
D-T01-001	39.035126°	-102.652248°	195.1
D-T01-002	38.909131°	-102.524218°	136.5
D-T01-003	38.986732°	-102.632353°	107.7
D-T01-004	38.985516°	-102.624838°	265.9
D-T01-006	38.997778°	-102.552864°	74.7
D-T01-007	38.997969°	-102.544247°	101.0
D-T01-008	38.929874°	-102.524854°	148.7
D-T02-001	39.014266°	-102.600515°	125.9
D-T02-002	39.001924°	-102.620072°	173.5
Water Body ID	Latitude	Longitude	Acres
WB-T01-001	39.011393°	-102.654877°	0.32
WB-T01-002	38.996116°	-102.616483°	0.01
WB-T02-001	39.011439°	-102.652746°	0.01

4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), THE TERRITORIAL SEAS, OR INTERSTATE WATER TO WHICH THE AQUATIC RESOURCE IS CONNECTED. The wetlands within the review area do not have a continuous surface connection to any (a)(1) water. The nearest (a)(1) water is the Smoky Hill River, which is listed as a TNW from its confluence with the Kansas River upstream to and including Kanopolis Lake to elevation 1,466 feet Mean Sea Level (MSL), at approximate Latitude 38.66614931°, Longitude -98.16472781°, which is approximately 284 miles from the review area.
5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, THE TERRITORIAL SEAS, OR INTERSTATE WATER. The aquatic resources identified as wetlands onsite do not have a continuous surface connection to a TNW. The nearest TNW is the Smoky Hill River which is listed as a TNW by the Kansas City District, Corps of Engineers. Due to the flat topography and the arid nature of the review area, there is not a flow path from the subject aquatic resources to a TNW, territorial sea, or interstate water.
6. SECTION 10 JURISDICTIONAL WATERS<sup>6</sup>: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic

<sup>6</sup> 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as “navigable in law” even though it is not presently used for commerce or is presently incapable of such use because of changed conditions or the presence of obstructions.

CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.<sup>7</sup> N/A

7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the 2023 Rule as amended, consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the 2023 Rule as amended. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.

- a. Traditional Navigable Waters (TNWs) (a)(1)(i): N/A
- b. The Territorial Seas (a)(1)(ii): N/A
- c. Interstate Waters (a)(1)(iii): N/A
- d. Impoundments (a)(2): N/A
- e. Tributaries (a)(3): N/A
- f. Adjacent Wetlands (a)(4): N/A
- g. Additional Waters (a)(5): N/A

8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES

- a. Describe aquatic resources and other features within the review area identified in the 2023 Rule as amended as not "waters of the United States" even where they otherwise meet the terms of paragraphs (a)(2) through (5). Include the type of excluded aquatic resource or feature, the size of the aquatic resource or feature

---

<sup>7</sup> This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

within the review area and describe how it was determined to meet one of the exclusions listed in 33 CFR 328.3(b).<sup>8</sup>

- I. T-T01-002 – Based on site photography, this is an (b)(8) excluded feature which is an erosional swale and does not contain an ordinary highwater mark. This feature does not meet the definition of an (a)(3) tributary.
- II. T-T01-004 – Based on site photography, this is an (b)(8) excluded feature which is an erosional swale and does not contain an ordinary highwater mark. This feature does not meet the definition of an (a)(3) tributary.
- III. T-T02-001 – Based on site photography, this is an (b)(8) excluded feature the noncontinuous ordinary high water mark this feature is feature is an erosional swale because of the shallow nature and no defined bed and bank. This feature does not meet the definition of an (a)(3) tributary.
- IV. D-T01-001 – This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or does not have a defined bed and bank and is therefore not considered a tributary.
- V. D-T01-002 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- VI. D-T01-003 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- VII. D-T01-004 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- VIII. D-T01-006 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- IX. D-T01-007 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- X. D-T01-008 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or do not have a defined bed and bank and is therefore not considered a tributary.
- XI. D-T02-001 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or does not have a defined bed and bank and is therefore not considered a tributary.
- XII. D-T02-002 - This feature is an (b)(3) excluded feature specifically a Ditch, which does not exhibit ordinary highwater marks and/or does not have a defined bed and bank and is therefore not considered a tributary.

---

<sup>8</sup> 88 FR 3004 (January 18, 2023)



CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

- XIII. WB-T01-001 – This feature is an (b)(5) excluded feature specifically a pond constructed wholly in the uplands and is excluded under paragraph (b)(5) of the 2023 Rule, as amended.
  - XIV. WB-T02-001 – This feature is an (b)(5) excluded feature specifically a pond constructed wholly in the uplands and is excluded under paragraph (b)(5) of the 2023 Rule, as amended.
  - XV. W-T02-004 – This feature is an (b)(5) excluded feature specifically a pond constructed completely in the uplands with no continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
- b. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the 2023 Rule as amended (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).
- I. W-T01-001 – According to the aquatic resource delineation report this area is a ponded area within an agricultural area which displays palustrine emergent wetland characteristics. According to the USGS topographic map and aerial photos, this pond does not have an outlet. Therefore, this feature does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended.
  - II. W-T01-002 – This feature is a mosaic wetland located within a drainage that lacks an ordinary highwater mark and terminates within a pond. According to the USGS topographic map and aerial photos, this pond does not have an outlet. Therefore, this feature does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended.
  - III. W-T01-003 - This palustrine emergent wetland does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
  - IV. W-T01-004 – This wetland is within a depressional feature. Aerial imagery shows that excess water from this location may flow south for over 6 miles through swales and potential sheet flow areas before reaching a larger depressional area. Therefore, this feature does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
  - V. W-T02-001 - This palustrine emergent wetland is part of a swale that terminates in an agricultural field approximately 2.4 stream miles northeast. Therefore, this feature does not have a continuous surface connection to a water identified in

paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.

- VI. W-T02-002 - Based on aerial imagery and the topography of the location, surface flows from this palustrine emergent wetland flow north for 1.9 stream miles, through several swales and low-lying depressional areas broken up by upland pastureland, before terminating in an agricultural field. Therefore W-T02-002 does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
- VII. W-T02-003 – Based on aerial imagery and the topography of the location, surface flows from this this palustrine emergent wetland flow north for 1.4 stream miles, through several low-lying depressional areas broken up by upland pastureland, before terminating in an agricultural field. Therefore W-T02-003 does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
- VIII. W-T02-005 - Based on aerial imagery and the topography of the location, surface flows from this this palustrine emergent wetland flow north-northwest for 2,800 feet, through several low-lying depressional areas, before entering into an ephemeral channel. This channel flows northeast for approximately 2.5 stream miles before losing discernable channel characteristics in many locations. This swale appears to transition to uplands approximately 2.3 stream miles northeast, after being interrupted by a road crossing. Therefore, W-T02-005 does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
- IX. W-T02-006 - This palustrine emergent wetland is approximately 780 feet northwest of W-T02-005 and follows the same flow path. Therefore, like W-T02-005, this feature does not have a continuous surface connection to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.
- X. T-T01-001 – This drainage feature is located within a Strahler Stream Order 3 reach, which is approximately 7,400 feet in length and extends from latitude 39.0652°, longitude -102.6734° to latitude 39.0397°, longitude -102.5875°. According to the Stream Duration Assessment Method (SDAM) assessment provided by the project proponent, this feature has a non-relatively permanent flow duration and does not meet the definition of an (a)(3) tributary. As such, this water is not subject to CWA jurisdiction.
- XI. T-T01-003 – This drainage feature is located within a Strahler Stream Order 1 reach, which is approximately 0.85 stream mile in length and extends from latitude 39.0473°, longitude -102.6273°. Based on an SDAM assessment completed by the project proponent, this feature does not have relatively



CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

permanent flow and does not meet the definition of an (a)(3) tributary.

Additionally, this feature does not have direct or indirect flow to a water identified in paragraph (a)(1) or (a)(3) of the 2023 Rule, as amended. As such, this water is not subject to CWA jurisdiction.

- XII. T-T01-005 – This drainage feature is located within a Strahler Stream Order 1 reach, which is approximately 2,600 feet in length and extends from latitude 38.9798°, longitude -102.5457° to latitude 38.9852°, longitude -102.5476°. According to a SDAM assessment completed by the project proponent, this feature does not have relatively permanent flow and does not meet the definition of an (a)(3) tributary. As such, this water is not subject to CWA jurisdiction.
- XIII. T-T01-006 – This drainage feature is located within a Strahler Stream Order 1 reach, which is approximately 1,600 feet in length and extends from latitude 38.9817°, longitude -102.5485° to latitude 38.9852°, longitude -102.5476°. According to a SDAM assessment completed by the project proponent, this feature does not have relatively permanent flow and does not meet the definition of an (a)(3) tributary. As such, this water is not subject to CWA jurisdiction.
- XIV. T-T01-007 – According to the National Hydrography Dataset (NHD), this drainage feature is located within a Strahler Stream Order 3 reach which is approximately 1,400 feet in length and extends from latitude 38.9946°, longitude -102.5813° to latitude 38.9977°, longitude -102.5813°. This drainage feature exhibits an ordinary high-water mark which becomes indiscernible downstream of this location within an agricultural field. Furthermore, the applicant submitted an SDAM assessment for this feature and based on our review of that, the Corps agrees this feature has a non-relatively permanent flow duration and does not meet the definition of an (a)(3) tributary. As such, this water is not subject to CWA jurisdiction.
- XV. T-T02-002 – According to the National Hydrography Dataset (NHD), this feature is located within the North Fork Smoky Hill River, within a Strahler Stream Order 3 reach. The NHD shows this reach starting at latitude 39.0139°, longitude -102.6549°. Immediately downstream of T-T02-002 (latitude 39.011393°, longitude -102.654878°) the ordinary high-water mark of the channel is no longer discernable. A road and agricultural fields interrupt the flow path. Furthermore, the applicant submitted an SDAM assessment for this feature and based on our review of that, the Corps agrees this feature has a non-relatively permanent flow duration and does not meet the definition of an (a)(3) tributary. As such, this water is not subject to CWA jurisdiction.

- 9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.

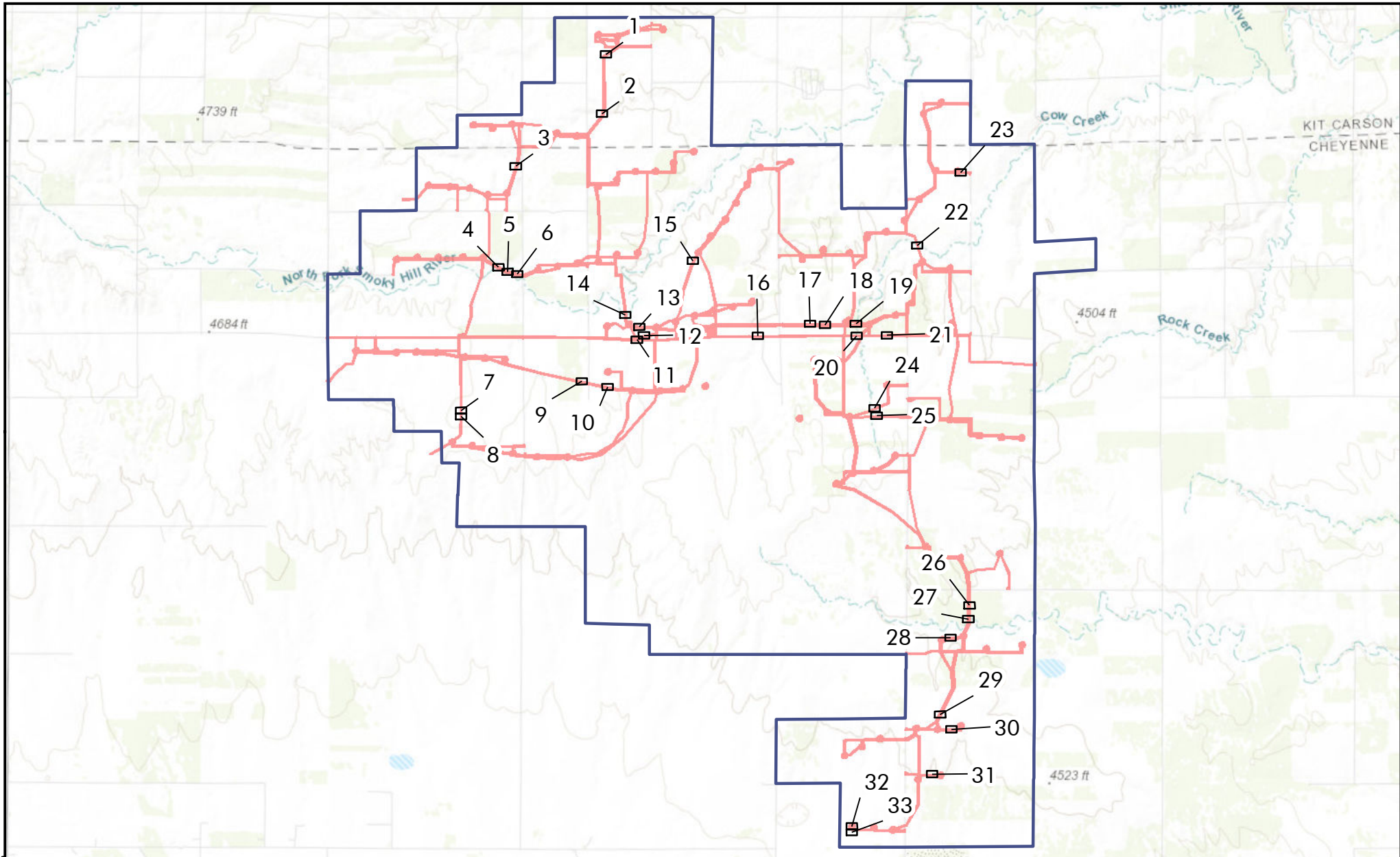
- a. National Wetlands Inventory Mapper




CESPA-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), SPA-2023-00511

- b. USGS StreamStats Report (Accessed 4/16/2024)
- c. USGS Topo Map Landsman Hill, CO 2022
- d. USGS Topo Map Alpine Ranch SW, CO 2022
- e. USGS Topo Map Eureka Creek North, CO 2022
- f. National Hydrography Dataset (NHD) Plus HR
- g. Aquatic Resources Delineation Report for the Cheyenne Ridge II Wind Project submitted by the applicant dated August 2023.
- h. Response to Request for Additional Information (SPA-2023-005511) submitted by the applicant in May 2024. This included the SDAM reports.

#### 10. OTHER SUPPORTING INFORMATION.



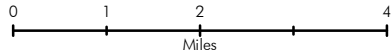
-  Map Frame
-  Survey Corridor
-  Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023; WSP 2023

Appendix A  
Map Series Index  
Cheyenne Ridge II Wind Project

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

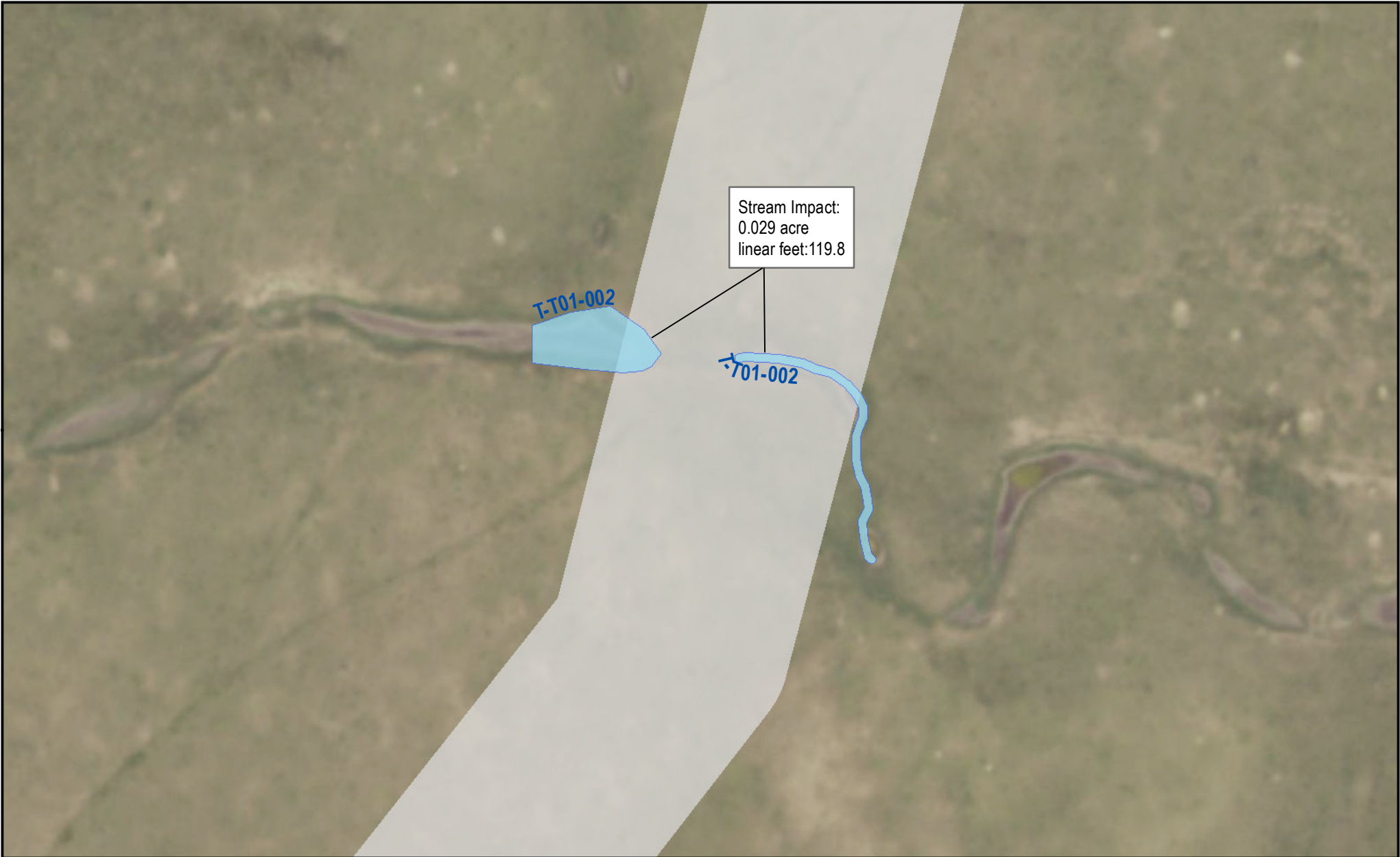
Appendix A-1  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 1 of 33

Cheyenne & Kit Carson Counties, Colorado

0 50 100 200  
Feet







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-2  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 2 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



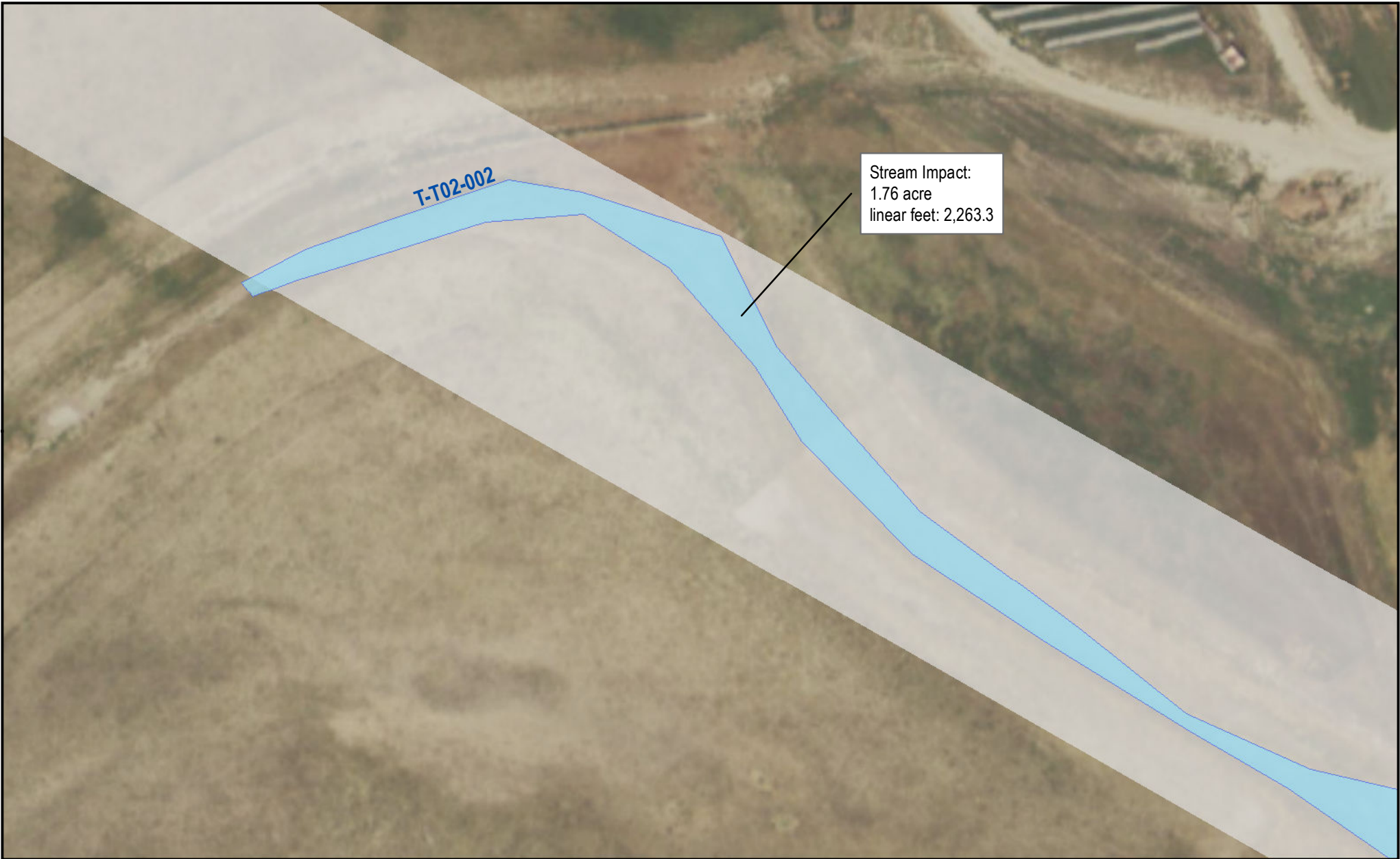
Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-3  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 3 of 33

Cheyenne & Kit Carson Counties, Colorado







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

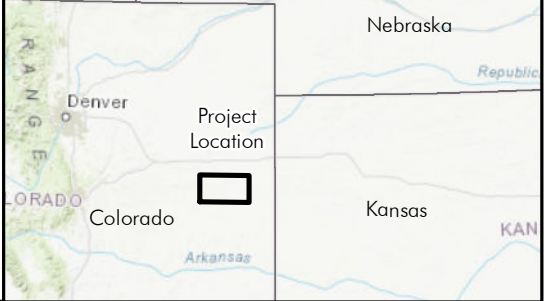
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary

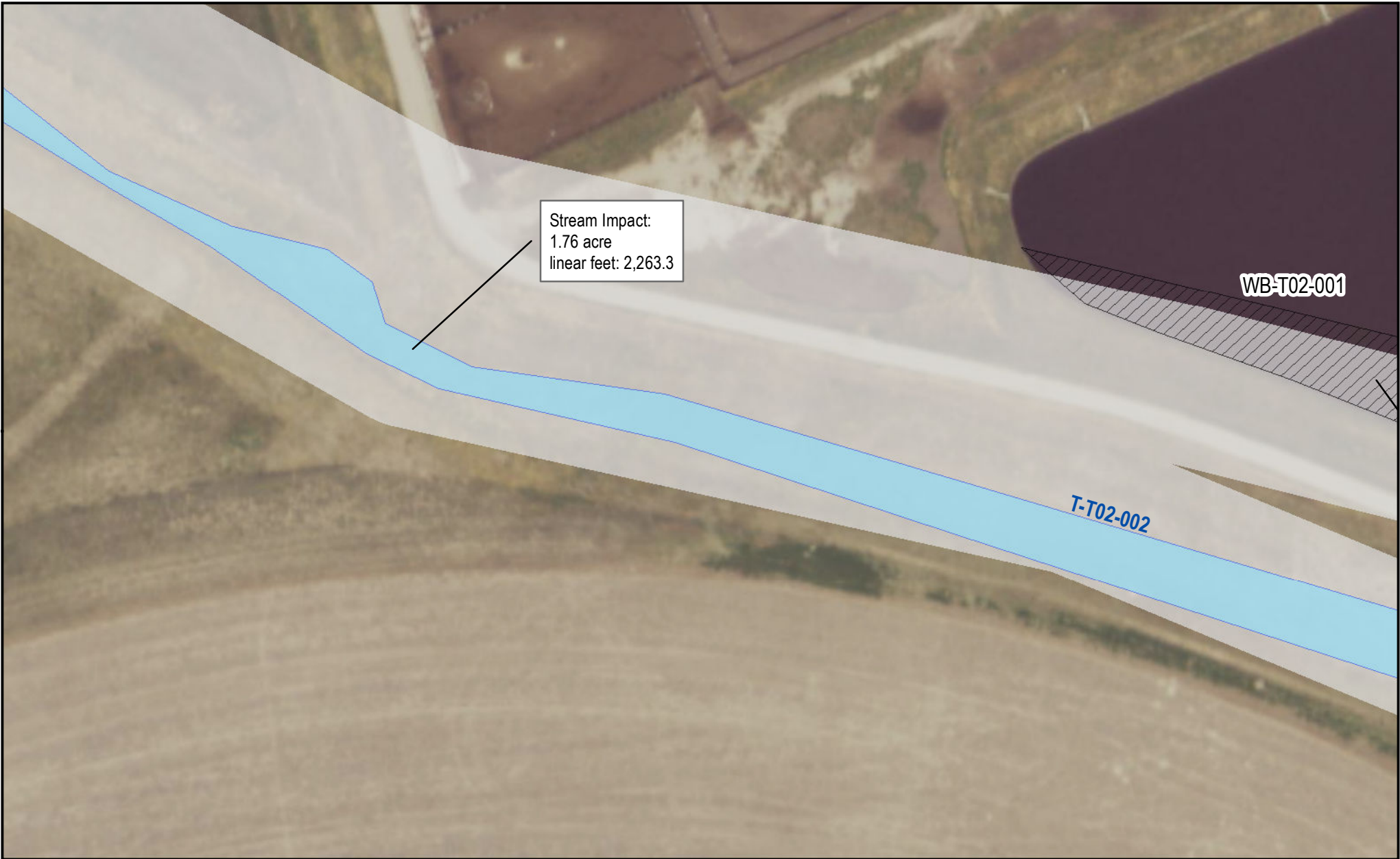


Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-4  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 4 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

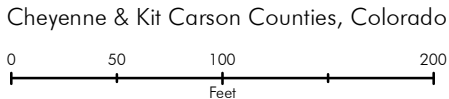
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



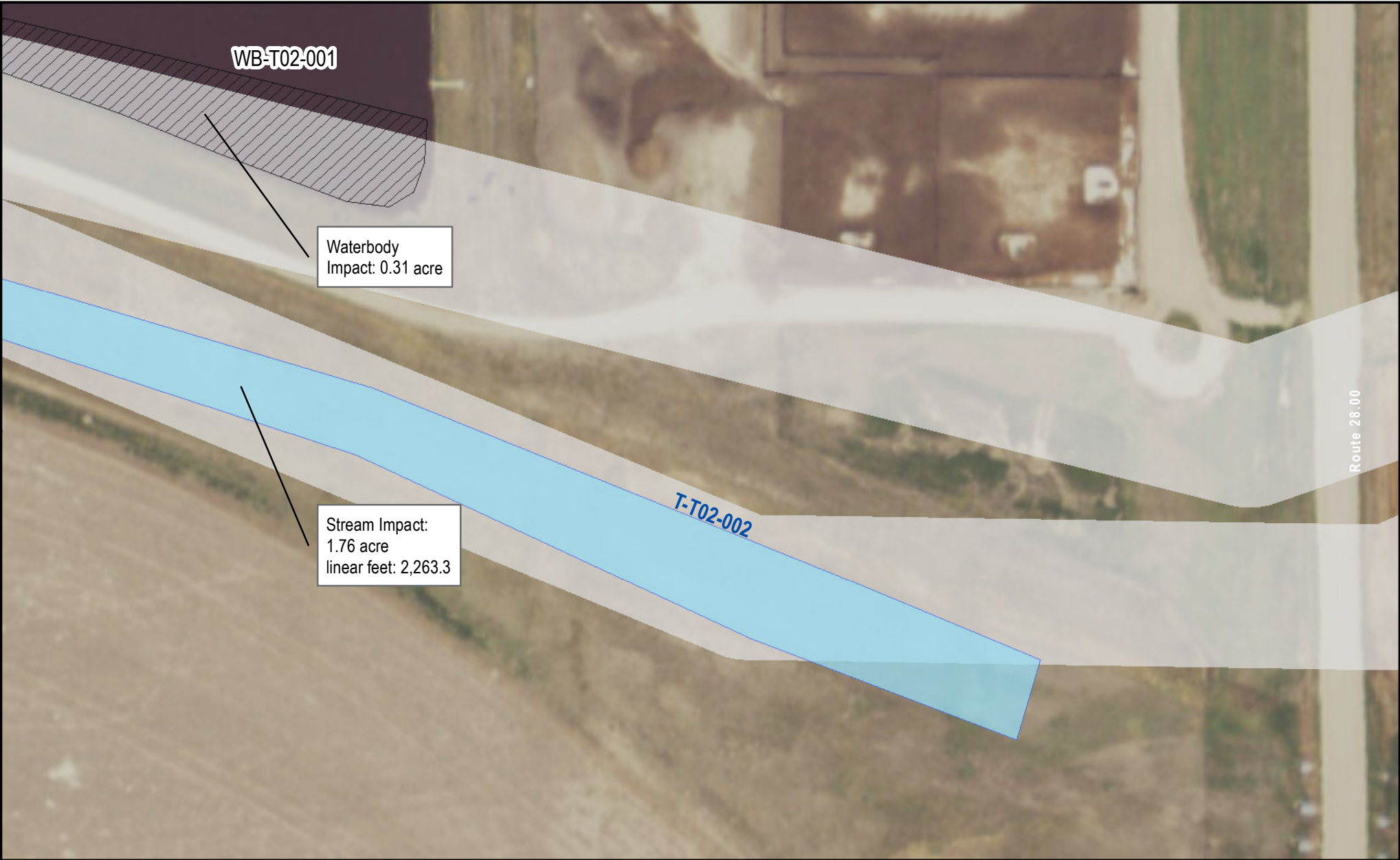
Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-5  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 5 of 33





Document Path: L:\PROJECTS\TradewindsEnergy\CowCreek\Maps\WMD\Report\Wetland\2023\CYRI\Appendix A - DelineatedFeatures.mxd 7/27/2023



Field Delineated Features

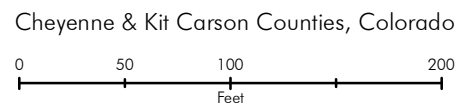
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-6  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 6 of 33





Field Delineated Features

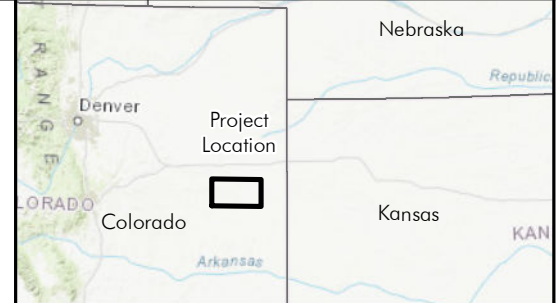
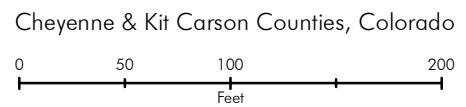
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-7  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 7 of 33





Field Delineated Features

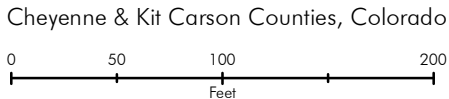
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-8  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 8 of 33







Field Delineated Features

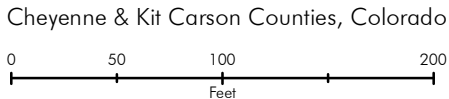
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-9  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 9 of 33







Field Delineated Features

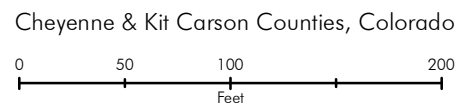
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-10  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 10 of 33





Field Delineated Features

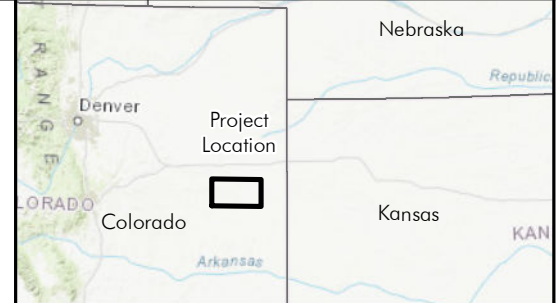
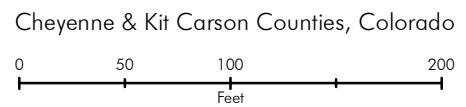
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-11  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 11 of 33





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-12  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 12 of 33

Cheyenne & Kit Carson Counties, Colorado







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

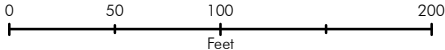
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-13  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 13 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-14  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 14 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

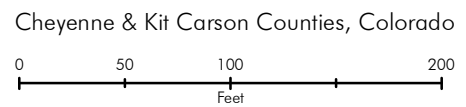
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-15  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 15 of 33







Field Delineated Features

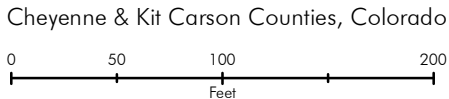
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

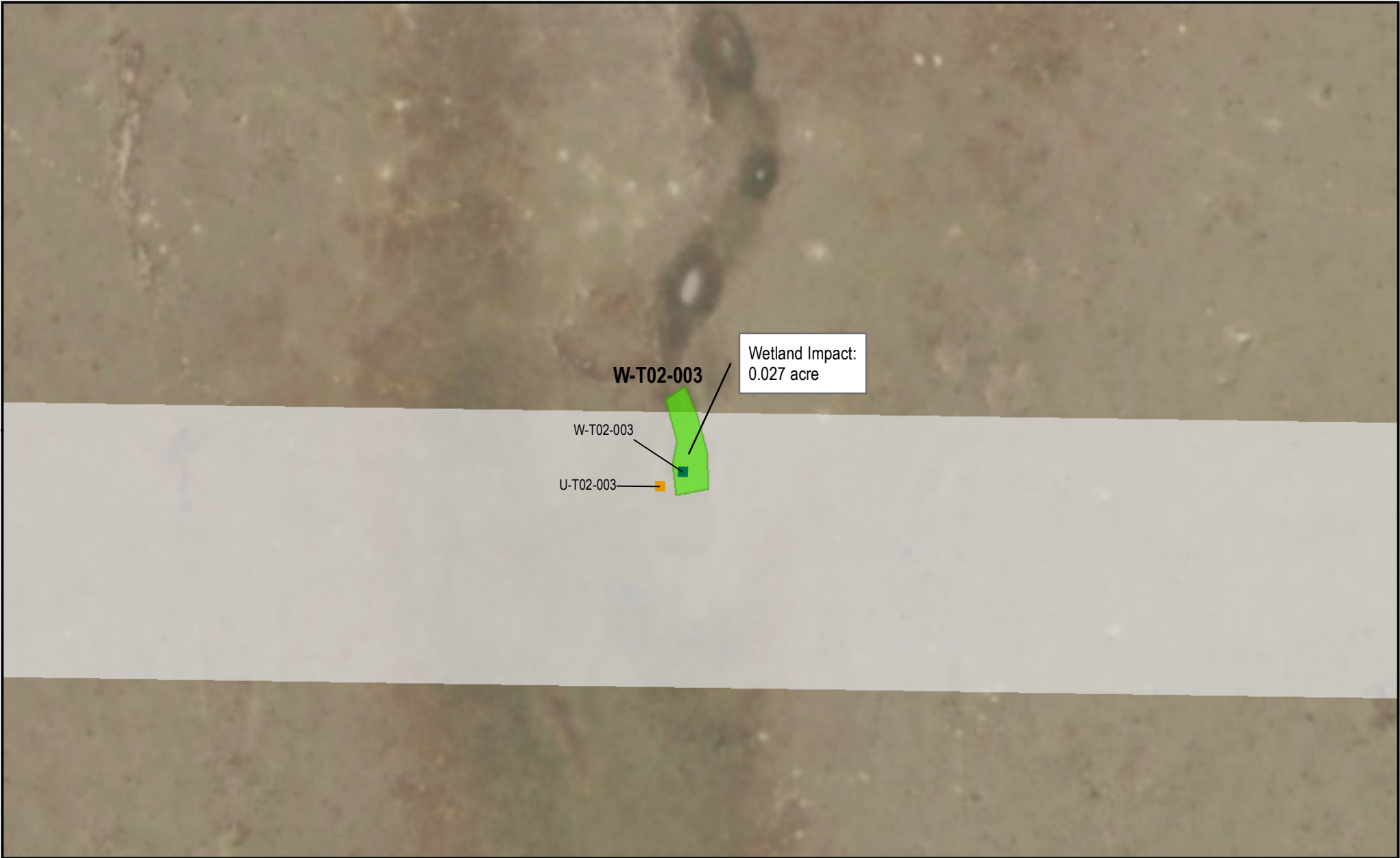
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-16  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 16 of 33





Field Delineated Features

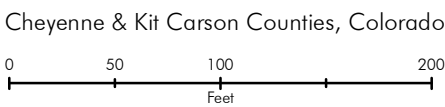
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-17  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 17 of 33





Field Delineated Features

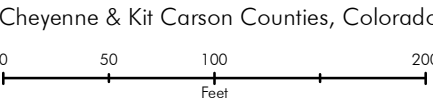
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-18  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 18 of 33







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

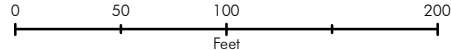
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-19  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 19 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

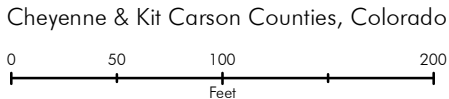
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-20  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 20 of 33







Field Delineated Features

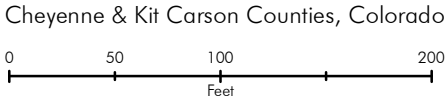
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-21  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 21 of 33







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

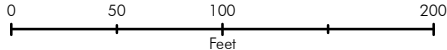
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary

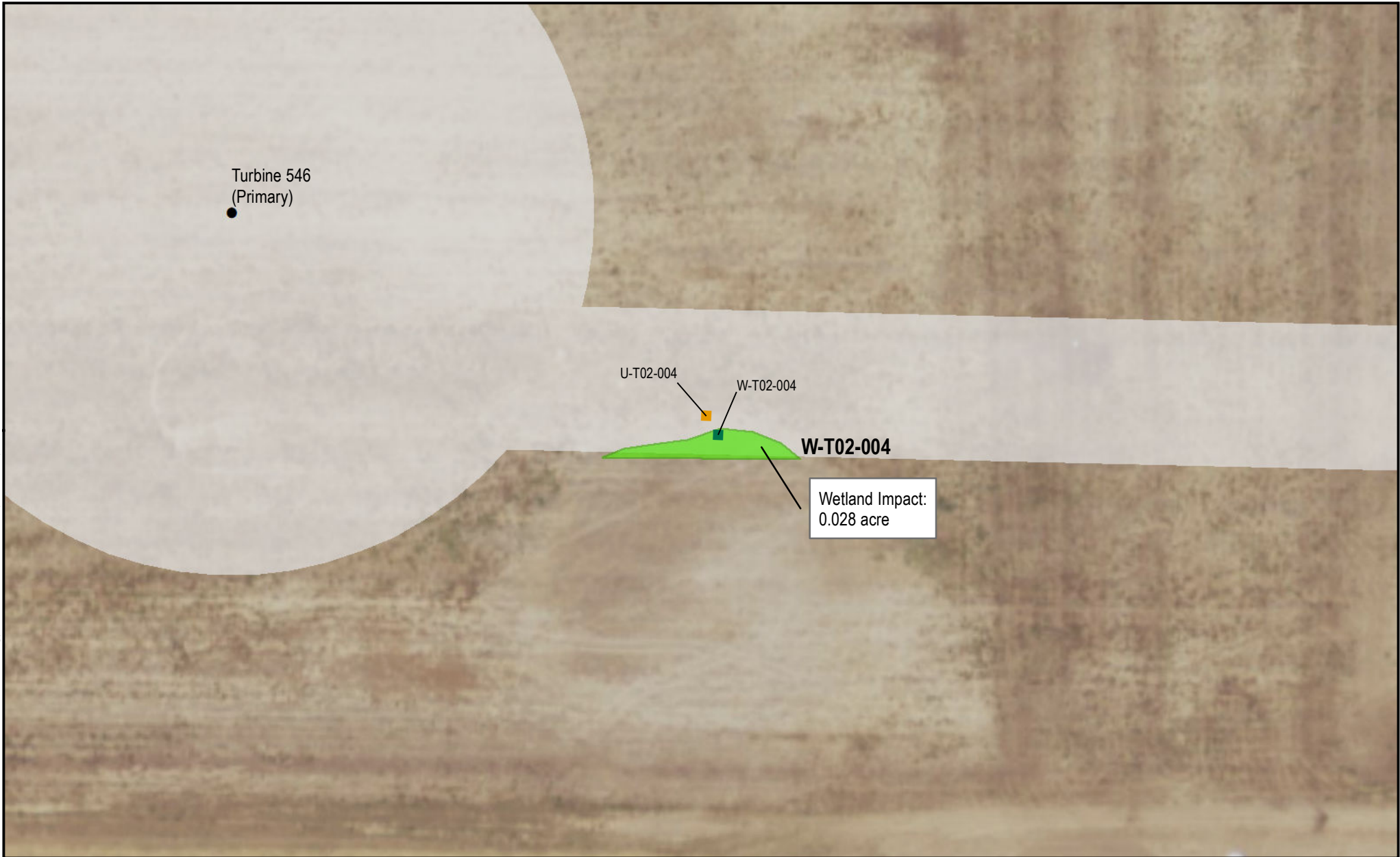


Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-22  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 22 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

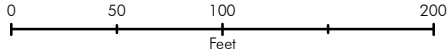
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary

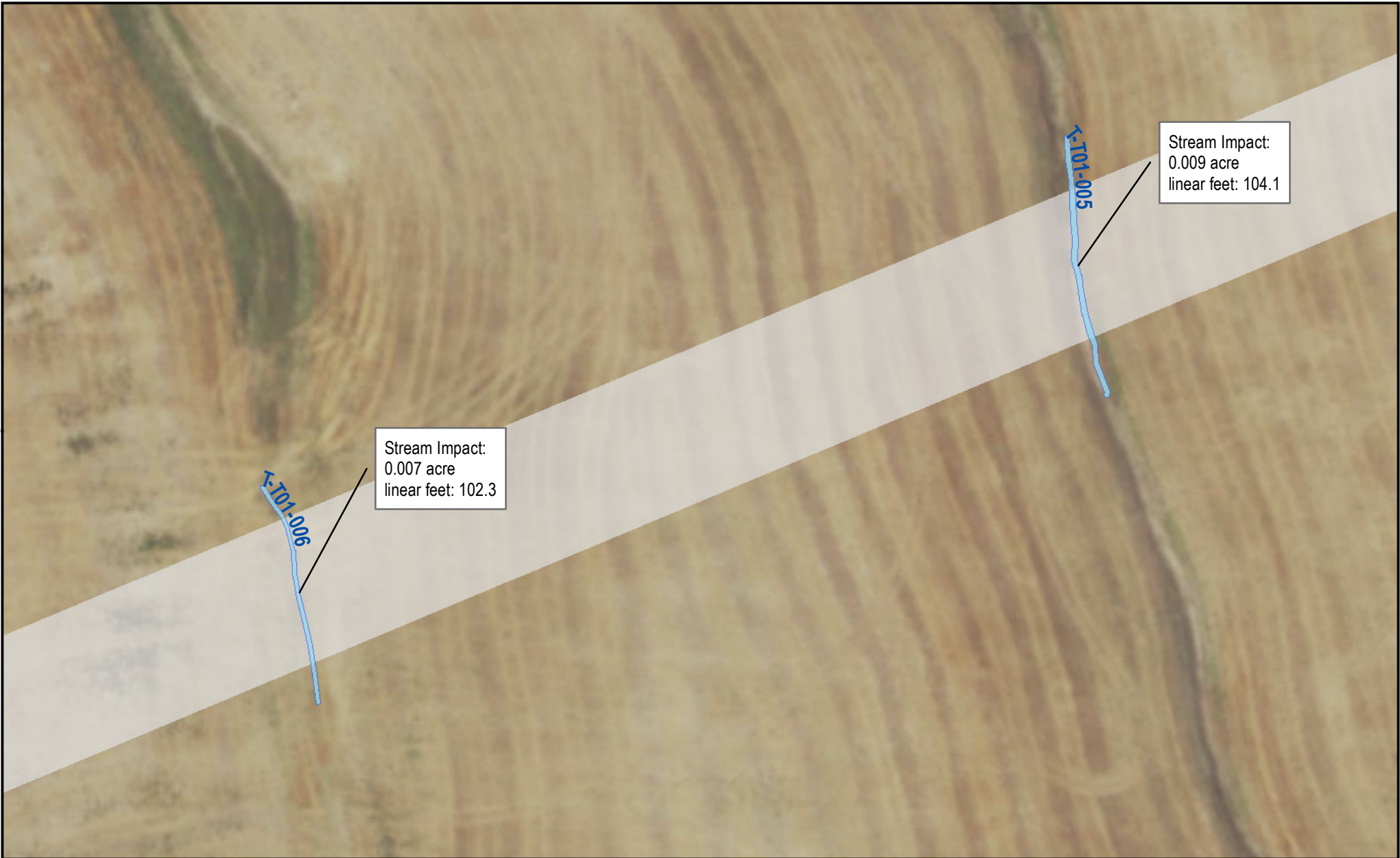


Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-23  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 23 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

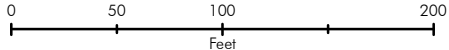
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



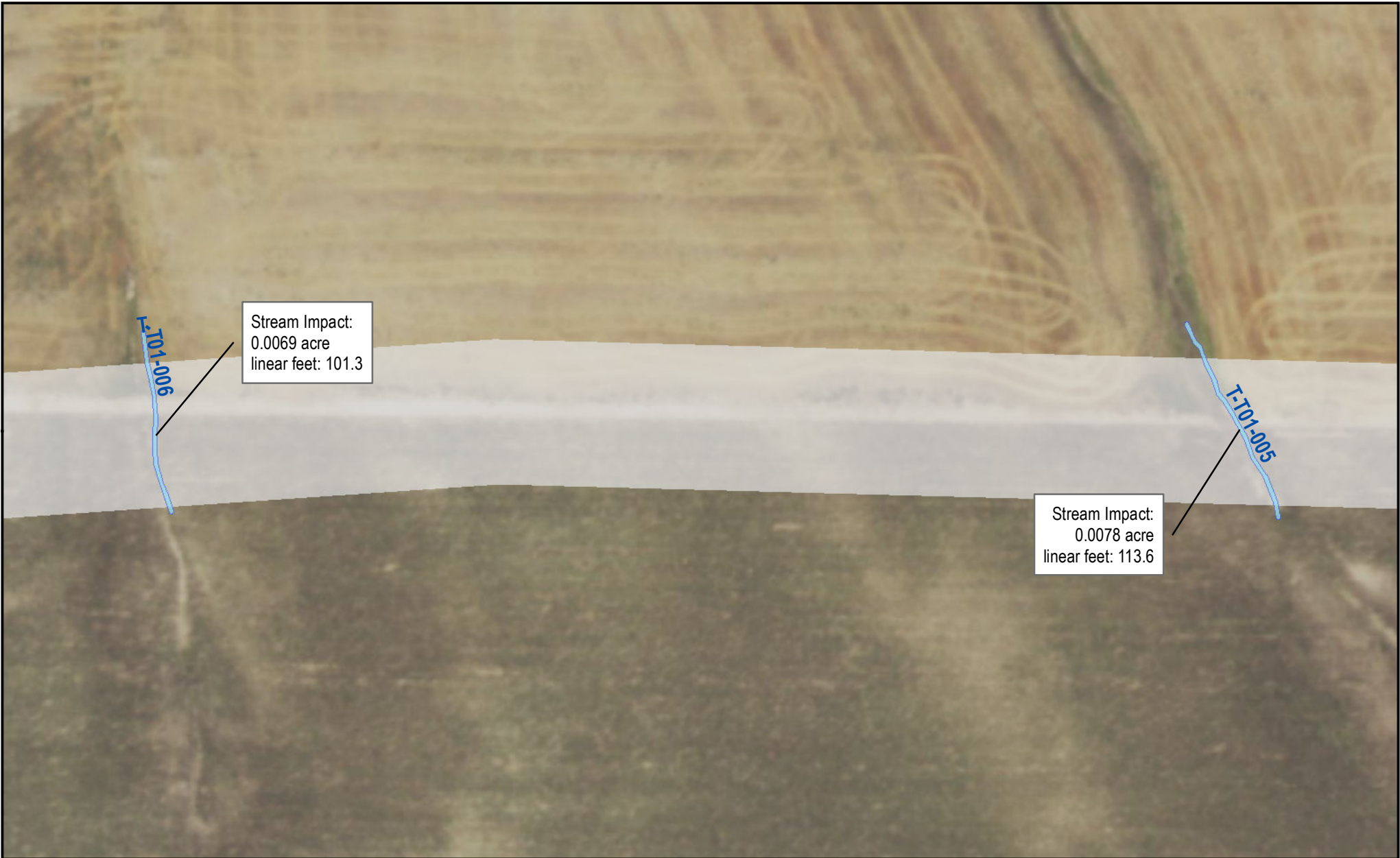
Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-24  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 24 of 33

Cheyenne & Kit Carson Counties, Colorado







Field Delineated Features

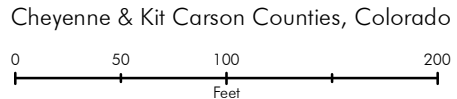
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-25  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 25 of 33





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

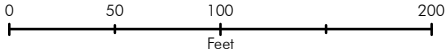
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary

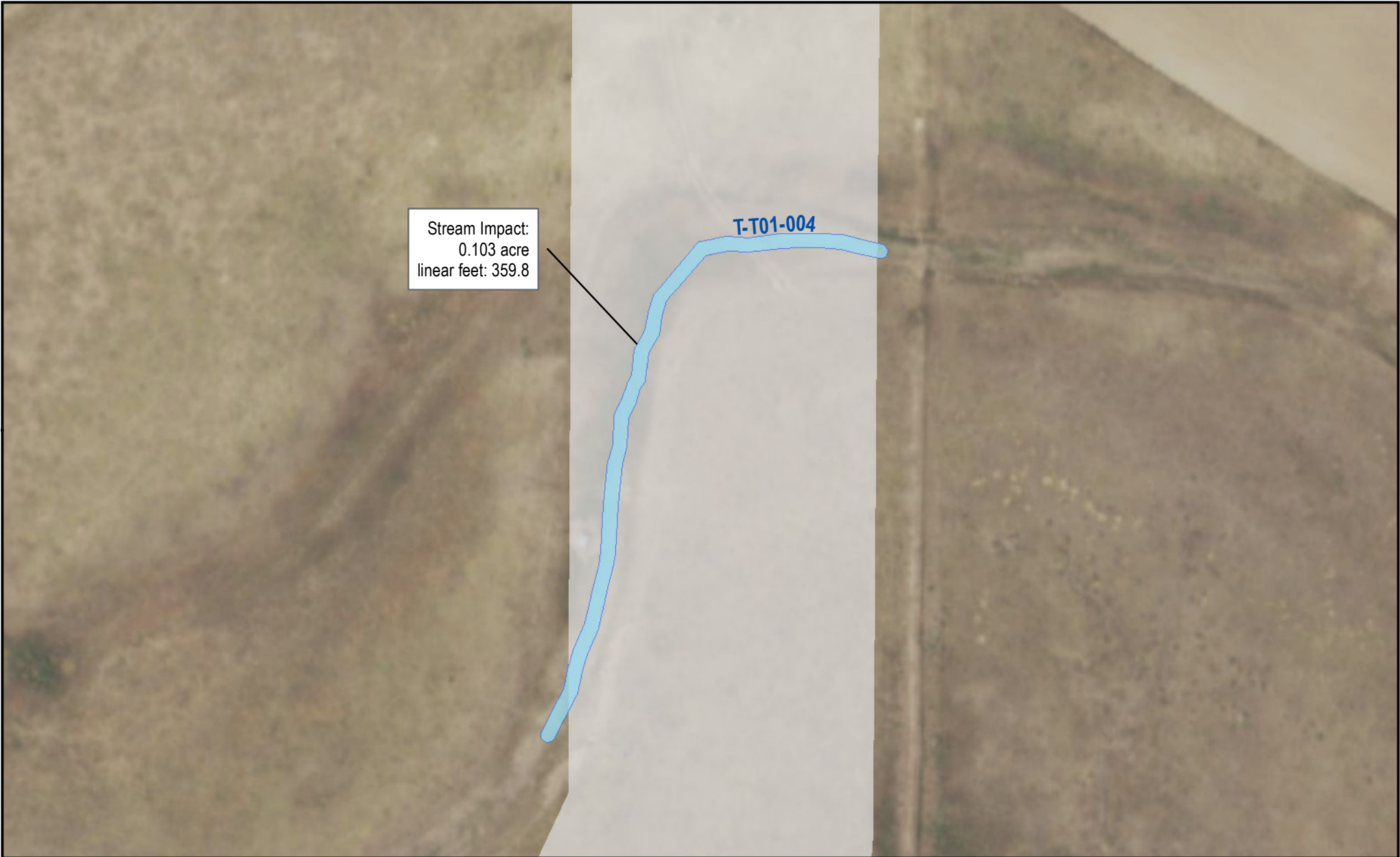


Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-26  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 26 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

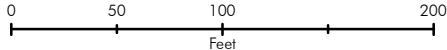
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-27  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 27 of 33

Cheyenne & Kit Carson Counties, Colorado







Field Delineated Features

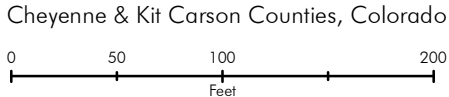
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-28  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 28 of 33





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

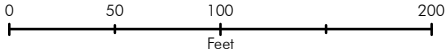
- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-29  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 29 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

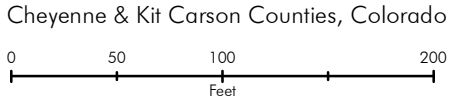
- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-30  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 30 of 33







Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-31  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 31 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary

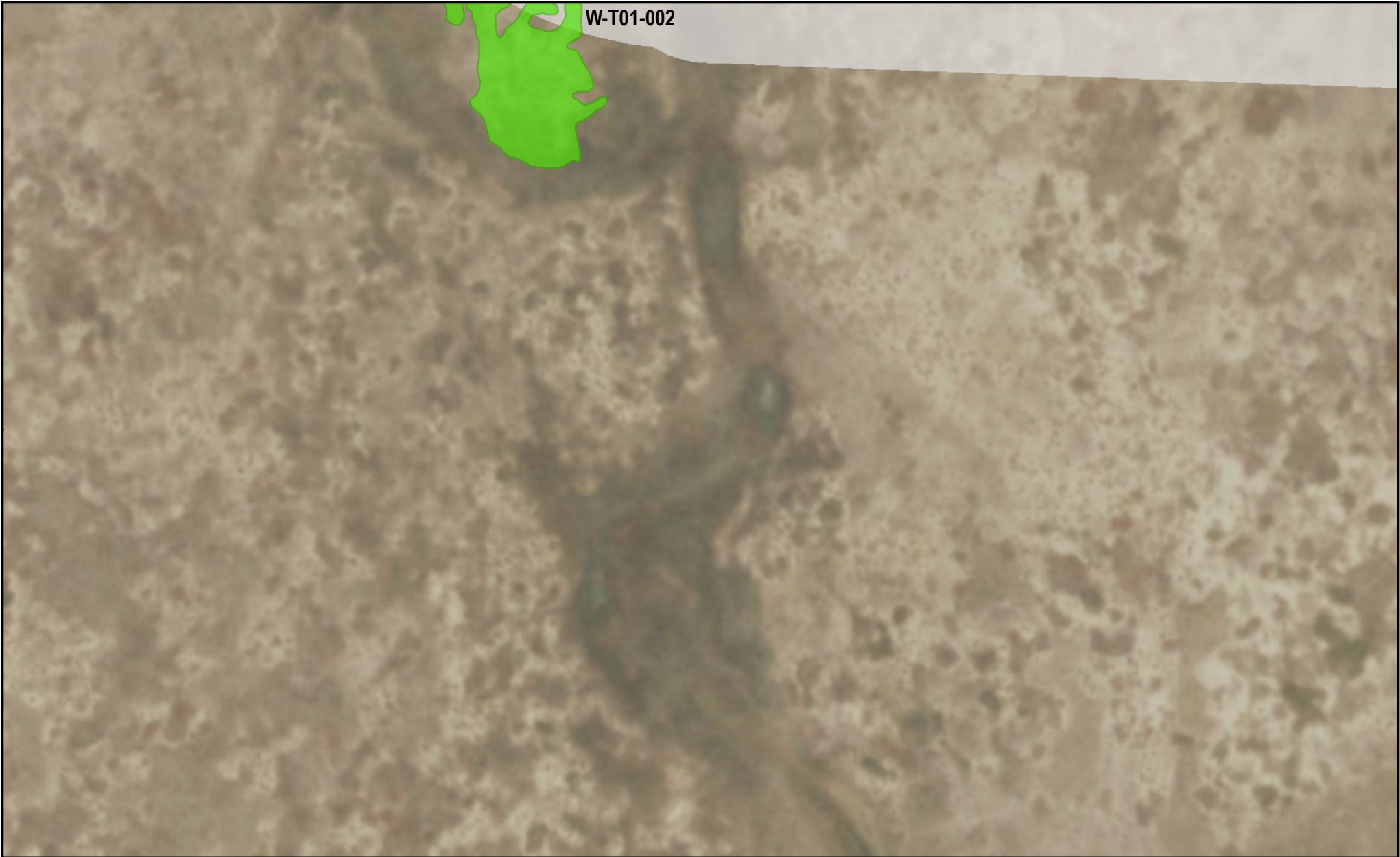


Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-32  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 32 of 33

Cheyenne & Kit Carson Counties, Colorado





Field Delineated Features

- Wetland Data Point
- Upland Data Point
- Drain
- Stream
- Waterbody
- PEM Wetland

- Proposed Turbine (2022-11-09)
- Survey Corridor
- Cheyenne Ridge II Wind Project Boundary



Data Sources:  
ESRI 2021; ENEL 2023  
WSP 2023; USDA NAIP 2023

Appendix A-33  
Field Delineated Features  
Cheyenne Ridge II Wind Project  
Frame 33 of 33

