

**Appendix C: DANR Environmental Review and
Correspondence**

Larson, Graham

From: Minerich, Shannon
Sent: Tuesday, November 23, 2021 6:29 AM
To: Larson, Graham
Subject: shooting range project

Hi Graham – I reached out to our industrial permitting stormwater folks on the potential need for an Industrial Permit and subsequent possible detention ponds. Their response is that an Industrial permit is not required (but of course you can if you want to!) and that they never really specify that someone needs a retention pond. Therefore, like I mentioned in the meeting, SD DANR is not recommending GFP build retention ponds for the shooting range project – but to use BMPs to keep lead out of any water, and any of that water from getting to waters of the state. Hope this helps! Thanks.
Shannonp



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

November 15, 2021

Graham Larson
SD Game, Fish, and Parks
523 East Capitol Avenue
Pierre, SD 57501

Subject: Environmental Review- Rapid City Shooting Range

Dear Mr. Larson:

The South Dakota Department of Agriculture and Natural Resources (DANR) has reviewed the above-referenced project for potential impacts to natural resources. Based on the information submitted in your e-mail dated October 18, 2021, DANR has the following comments and permitting requirements.

Tanks and Spills

There have been numerous petroleum and other chemical releases throughout the state. However, a review of our records indicates no known releases have occurred within the project area. A review of our records for registered storage tanks also shows no known tanks within the project area. Please be aware that while we make efforts to provide and maintain accurate data, the location information provided to us is occasionally inaccurate or incomplete. Additional information about registered tanks and reported releases in South Dakota may be obtained at the following website <https://apps.sd.gov/NR42InteractiveMap#>

Since no registered tanks or known spills were found in the project area, it is unlikely that you will discover contaminated material. However, if contamination is discovered or occurs during construction, it must immediately be reported to DANR at 605-773-3296. Any contaminated soil should be segregated from clean soil and sampled to determine disposal requirements. Any material to be placed in a location where it will be in contact with contaminated soil or ground water should be evaluated to determine if it is compatible with the contaminant. If you have any questions, please contact Baylee Hoff at baylee.hoff@state.sd.us or (605) 773-3296.

Solid and Hazardous Waste

Some solid waste may be generated during this project. Any solid waste generated that will not be reused in some beneficial manner must be disposed or managed at a

permitted solid waste facility. Regional landfills able to accept all solid waste generated are listed on our website: <https://apps.sd.gov/NR60SolidWaste/main.html#>. Only Regional landfills are permitted to accept all wastes generated. If you have any questions, please contact Waste Management at 605-773-3153.

It is not expected that any hazardous wastes sites will be encountered within the vicinity of your project area. However, if road construction is planned for areas within a city or town, the contractor should contact this Department prior to construction. Should any hazardous waste be generated during the implementation of this project, the generator must abide by all applicable hazardous waste regulations. To determine whether your project may generate hazardous waste, visit: <https://www.epa.gov/hwgenerators/managing-your-hazardous-waste-guide-small-businesses> . If you have any questions please contact Anthony Wagner at 605-773-3153, or anthony.wagner@state.sd.us.

Demolition or renovation of a building structure may be subject to the South Dakota asbestos requirements. If demolition or renovation is part of this construction project, or if the scope of the project changes to include demolition or renovation, please contact Anthony Wagner at 605-773-3153, or anthony.wagner@state.sd.us.

Air Quality

Based on the information provided, it appears this project will have minor impacts to air quality in South Dakota. This impact would be through source and fugitive emissions. In many cases, an air quality permit is required to operate equipment with point source emissions. A permit application can be obtained from the Air Quality or Minerals and Mining Program. Fugitive emissions, although not covered under State air quality regulations, are a common source of public concern and may be subject to local or county ordinances. Please contact your local officials to discuss requirements regarding fugitive emissions.

For further air quality information, please contact Anthony Lueck, Air Quality Program, telephone number 605-773-3151.

Drinking Water

Based on the information provided, this project will not have adverse environmental effects to drinking water in this area. Should the parameters of your project change, please reach out to Mark Mayer at 605-773-6039 or Mark.Mayer@state.sd.us.

Surface Water

The Surface Water Quality Program (SWQ) has reviewed your request for comments letter. Based on the information provided, SWQ has the following comments:

1. At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site. Any construction activity that disturbs an area of one or more acres of land must have authorization under the General Permit for Storm Water

Discharges Associated with Construction Activities. Contact the Department of Agriculture and Natural Resources for additional information or guidance at 1-800-SDSTORM (1-800-737-8676) or

<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/default.aspx>.

Additionally, the shooting range facility should be designed with permanent measures to ensure that all storm water is contained and does not run off site or run to waters of the state.

2. A Surface Water Discharge permit may be required if any construction dewatering should occur as a result of this project. Please contact this office for more information.
3. Impacts to tributaries, creeks, wetlands, and lakes should be avoided by this project. These waterbodies are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that water quality standards are not violated.

The design of the shooting range facility should be such that shooting is not purposefully directed over or near any waters of the state. This includes shooting using non-toxic ammunition above or near ponds or drainages.

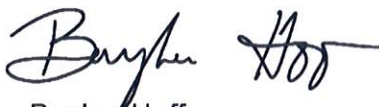
4. The discharge of pollutants from any source, including indiscriminate use of fill material, may not cause destruction or impairment except where authorized under Section 404 of the Federal Water Pollution Control Act. Please contact the United States Army Corps of Engineers for more information 605-224-8531.

Groundwater

Based on the information provided, this project is unlikely to have adverse effects on ground water quality provided recommended design criteria and best management practices are followed. Should the parameters of your project change, please reach out to Matt Hicks at 605-773-5337 or Matt.Hicks@state.sd.us.

Thank you for providing DANR the opportunity to comment on this project. If you have any questions regarding the information provided, please contact me at 605-773-3296.

Sincerely,



Baylee Hoff
Environmental Scientist
SD DANR- Environmental Assessment Contact
Phone: (605) 773-3296
Email: Baylee.Hoff@state.sd.us

Cc: Eric Pearson, Meade County EM, Sturgis, SD

**Appendix D: Consultation Letter South Dakota GFP on
Threatened and Endangered Species**



SOUTH DAKOTA DEPARTMENT OF GAME, FISH AND PARKS

523 EAST CAPITOL AVENUE | PIERRE, SD 57501

April 12, 2021

Graham Larson
South Dakota Game, Fish and Parks
523 East Capitol Ave
Pierre, SD 57501

RE: Rapid City Shooting Range
Construction of a New Shooting Range
Pennington County, South Dakota

Dear Graham,

The Department of Game, Fish and Parks has reviewed the above project involving the construction of a new shooting range north of Rapid City in Pennington County, South Dakota.

We have conducted a search of the SD Natural Heritage Database for the above referenced project. This database monitors species at risk, specifically those species that are legally designated as threatened, endangered or rare. We did not find any occurrences of endangered, rare or threatened species in the immediate project area.

Based on the information provided, there is no anticipated significant impact to fish and wildlife resources.

If you have any questions, please feel free to contact me at 605-773-6208.

Sincerely,

Hilary Morey
Environmental Review Senior Biologist
523 East Capitol Avenue
Pierre, SD 57501
hilary.morey@state.sd.us





Environmental Review Report

Project Information

Report Generation Date: 4/6/2021 09:22:56 AM
Project ID: 2021-04-06-067
Project Title: Rapid City Shooting Range
User Project Number(s):
Project Type: Parks and Recreation Areas, Recreation area development and maintenance
Project Activities: Rifle and archery ranges
County(s): Meade
Township/Range/Section(s): 003N008E3; 004N008E34
Watershed(s) HUC8: None
Latitude/Longitude: 44.262196 / -103.145715

Contact Information

Organization: South Dakota Department of Game, Fish and Parks
Contact Name: Graham Larson
Contact Phone: 605-773-4675
Contact Email: graham.larson@state.sd.us
Contact Address: 523 E Capitol Pierre SD 57501
Submitted On Behalf Of:

Project Description

We are looking to develop a rifle, pistol, and shotgun shooting range on this piece of property. It will have multiple bays for rifle and pistol shooting from 25 yards to 200 yards. We will also have an area for shooting up to 1,000 yards. This place will also be including multiple shooting bays for competition shooting and LE training. We do not have a final design as of yet but each bay will have approximately 10-20 foot dirt berms built to contain bullets. The 1,000 yard part of the range will use natural berms in the hill sides to contain bullets.



Introduction

The vision of South Dakota Department of Game, Fish and Parks (SDGFP) is to conserve our state's outdoor heritage to enhance the quality of life for current and future generations. SDGFP has a state-wide mission to manage wildlife and the habitats upon which they depend for their ecological values and enjoyment by the citizens of South Dakota and visiting publics. SDGFP strives to prevent or minimize unnecessary damage to species and their habitats by offering possible mitigation measures or alternative project actions.

Disclaimer

The information provided in this report can only be used as a site clearance letter if no conflicts with sensitive wildlife resources were detected. This information provides an indication of whether or not public or protected lands and sensitive resources are known or likely to be located near the proposed project's location. The information generated in this report does not replace Endangered Species Act consultation obligations with the U.S. Fish and Wildlife Service (USFWS) for federal listed species.

A majority of the sensitive species records in the report originate from the South Dakota Natural Heritage Database (SDNHD). The SDNHD tracks species at risk and certain unique habitats. These species may be monitored because they are rare, indicative of a vulnerable habitat type, or are are legally designated as state or federal threatened or endangered species. Rare species are those that are declining and restricted to limited habitat, peripheral to a jurisdiction, isolated or disjunct due to geographic or climatic factors or classified as such due to lack of survey data. A list of monitored species can be found at <https://gfp.sd.gov/natural-heritage-program/>. Many places in South Dakota have not been surveyed for rare or protected species and habitats and the absence of a species from a proposed project area does not preclude its presence. **Accuracy of species lists, report information and project recommendations should be verified after 90 days.**

No environmental conflicts were detected by South Dakota Game, Fish and Parks for your proposed project. This report is considered final, and can serve as documentation for environmental clearance from South Dakota Game, Fish and Parks. This report does not replace coordination with the US Fish and Wildlife Service for Endangered Species Act compliance.



Project Type Recommendations

Revegetation

- Disturbance to native vegetation should be kept to a minimum.
- Any disturbed area should be revegetated using native seed sources.
 - The Natural Resources Conservation Service Plant Materials Center in Bismarck, ND may serve as a good source of information on native plantings (<http://plant-materials.nrcs.usda.gov/ndpmmc/>).
- Develop a long-term plan for preventing the introduction or establishment of non-native/invasive flora (plants) within the development and identify the financial means to do so for the duration of the project.

A bald eagle nest was located near the proposed project. South Dakota Game, Fish and Parks recommends a 0.5 mile buffer from active bald eagle nests during the nesting season (February - August).

Legal Obligations

South Dakota Endangered and Threatened Species Law

This state law (Chapter 34A-8) defines nongame, threatened and endangered species and wildlife and describes the relevant authorities of the Game, Fish and Parks Secretary and Commission. The SDGFP Commission may list, delist or change the status of state threatened or endangered species. The Secretary shall conduct investigations to address information needs on population, distribution, habitat needs, limiting factors and other data gaps to ensure these species are managed in perpetuity. Take of state threatened or endangered species is prohibited except for certain, authorized purposes or to protect life or property. This state law also prohibits the reintroduction of a species on the federal list of threatened or endangered species that is considered extirpated from the state, unless authorized by the South Dakota Legislature. More information about obtaining a state endangered take authorization is available here:

<https://gfp.sd.gov/forms/endangeredspecies/>

Aquatic Invasive Species

South Dakota Administrative Rule 41:10:04:02 forbids the possession and transport of aquatic invasive species (AIS). Any construction vehicles, vessels, or equipment that will come into contact with surface waters in South Dakota that have previously been used outside of the state or in and AIS positive water within South Dakota must be thoroughly power washed with hot water (>140°F) and completely dried for a minimum of 7 days prior to use. All attached dirt, mud debris and vegetation must be removed and all compartments and tanks capable of holding standing water shall be drained and dry. This applies, but is not limited to, all equipment, pumps, lines, hoses and holding tanks. The list of AIS positive waters is available



at <http://sdleastwanted.com/maps/default.aspx> or by calling 605-223-7706.

Federal Laws

The following federal laws contribute to the conservation and management of fish and wildlife resources in the United States: Endangered Species Act, Bald and Golden Eagle Protection Act, Migratory Bird Treaty Act, Clean Water Act, and the Fish and Wildlife Coordination Act. The National Environmental Policy Act (NEPA) requires compliance with these statutes and regulations.

Contact Information

U.S. Fish and Wildlife Service, Ecological Services Field Office 420 S. Garfield Ave, Suite 400
Pierre, South Dakota 57501 605-224-8693

U.S. Army Corp of Engineers, South Dakota Regulatory Office 28563 Powerhouse Road
Pierre, South Dakota 57501 605-224-8531

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (16 U.S.C. 668–668d) provides for the protection of the bald eagle (*Haliaeetus leucocephalus*) and golden eagle (*Aquila chrysaetos*). Under this federal act, “take of eagles, their parts, nests or eggs is prohibited unless a permit is issued for certain purposes and under certain circumstances as long as the authorized take is compatible with the preservation of eagles. Disturbance resulting in injury, decreased productivity, or nest abandonment by substantially interfering with normal breeding, feeding or sheltering behavior is also considered take. This report does not replace consultation with the USFWS regarding the protection of bald and golden eagles. Eagle nests are protected under this law, whether active or inactive.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (16 U.S. C. 703-712) provides international protection to migratory bird species included in treaties among the United States, Great Britain, Mexico and Japan. This federal act prohibits the taking, killing, possession and transportation (among other actions) of migratory birds, their eggs, parts, and nests, unless specifically permitted by regulations. This act has no provisions for allowing unauthorized take. Effective steps can be taken to avoid take of migratory birds. Work closely with the USFWS to identify protective measures to avoid migratory bird take. A list of migratory bird species protected under this act can be found at 50 CFR 10.13. Introduced bird species are not protected under this Act. This report does not replace consultation with the USFWS regarding the protection of migratory bird species.

Endangered Species Act

The Endangered Species Act (16 U.S.C. 1531–1544) provides protections for native plant and



animal species that are in danger of becoming extinct. Under Section 9, it is unlawful for the “take” of a listed species. This is defined as “... to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct”. However, a permit may be issued for take that is the result of an otherwise legal activity. Please contact the USFWS to determine if a permit is needed.

The USFWS is in charge of the protection of listed species and their critical habitat. Similarly, other federal agencies are also directed to conserve listed species and ensure their actions do not jeopardize a listed species existence or destroy or adversely modify critical habitat. As such, under Section 7, federal agencies should consult with the USFWS to ensure compliance with this Act. This report does not replace consultation with the USFWS regarding listed species.

Clean Water Act

The intent of the Clean Water Act (33 U.S.C. 1251 et seq.) is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters”. SDGFP has concerns for any impacts to wetlands, streams and riparian habitats from development. We recommend that proper planning take place to first and foremost avoid impacts to wetlands, streams, and associated riparian corridors. If dredge or fill materials will be placed into waterways or wetlands, the U.S. Army Corps of Engineers Regulatory Office should be contacted to determine if a 404 permit is needed.

Fish and Wildlife Coordination Act

The Fish and Wildlife Coordination Act (15 U.S.C. 661-667e) provides habitat protection by requiring a federal agency to consult with the USFWS and SDGFP (i.e. the state fish and wildlife agency) whenever an agency is proposing to control or modify a stream or other body of water. The intent of this consultation is to conserve wildlife resources by preventing habitat loss or damage. If control or modification of a water body is proposed, please begin consultation with the USFWS and SDGFP.

Table 1. Special Status Species Documented within 800 Meters of Project Vicinity

Scientific Name	Common Name	Taxonomic Group	Federal Status	State Status	Global Rank	State Rank	SGCN	Last Obs Date
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Fundulus sciadicus	Plains Topminnow	Fish			G4	S3		
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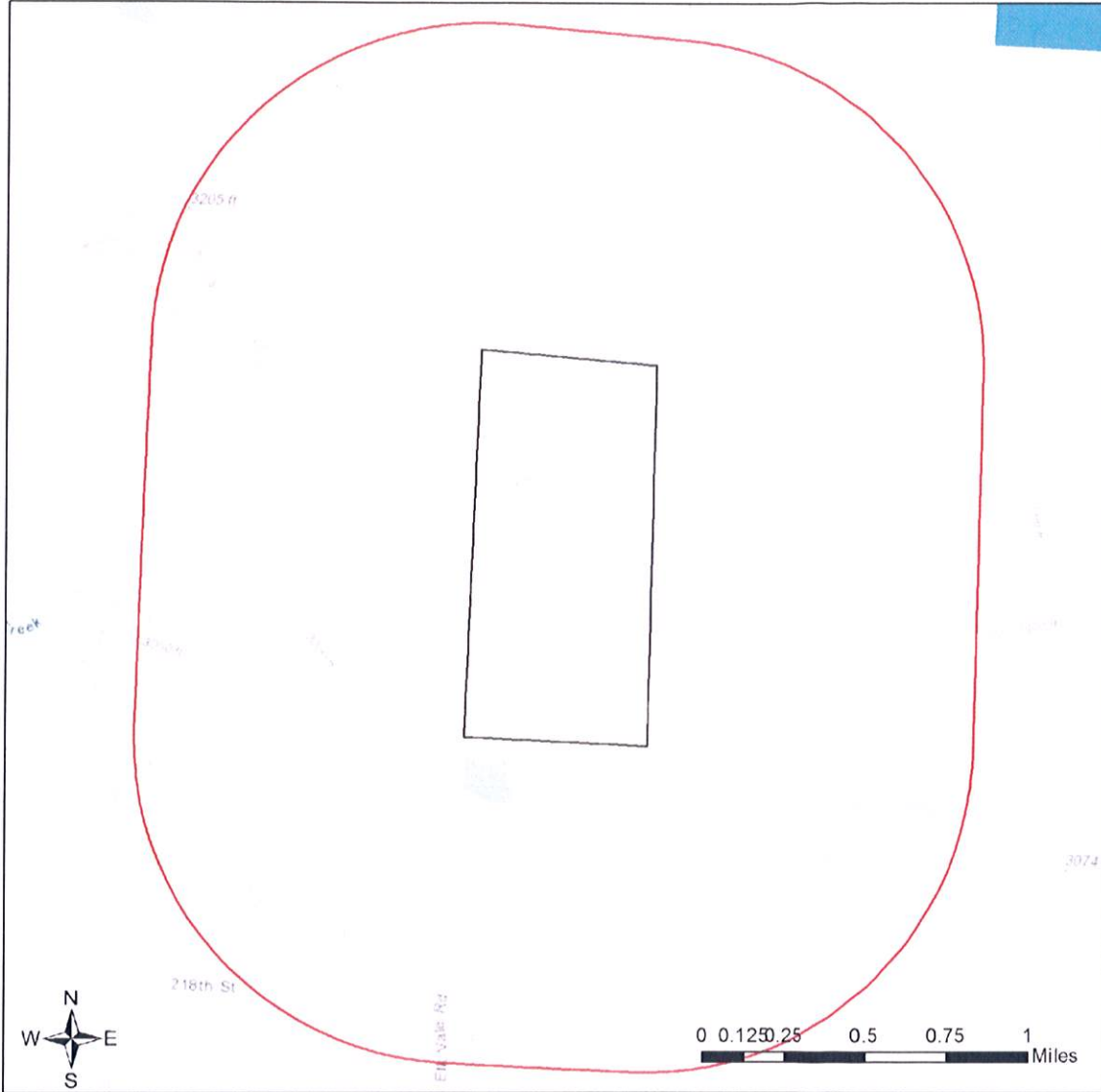
To update this text, see Admin - Report Texts - Static - project-report-footnote-table-1

No Protected Lands were detected within the project vicinity.

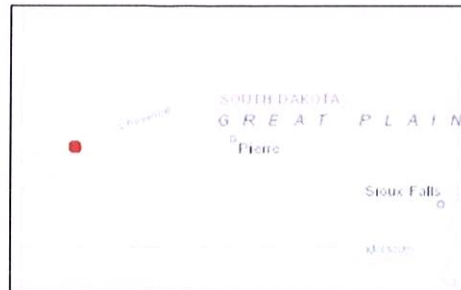


Rapid City Shooting Range

Topo Basemap with Land Ownership, Tribal Lands, and Locator Map



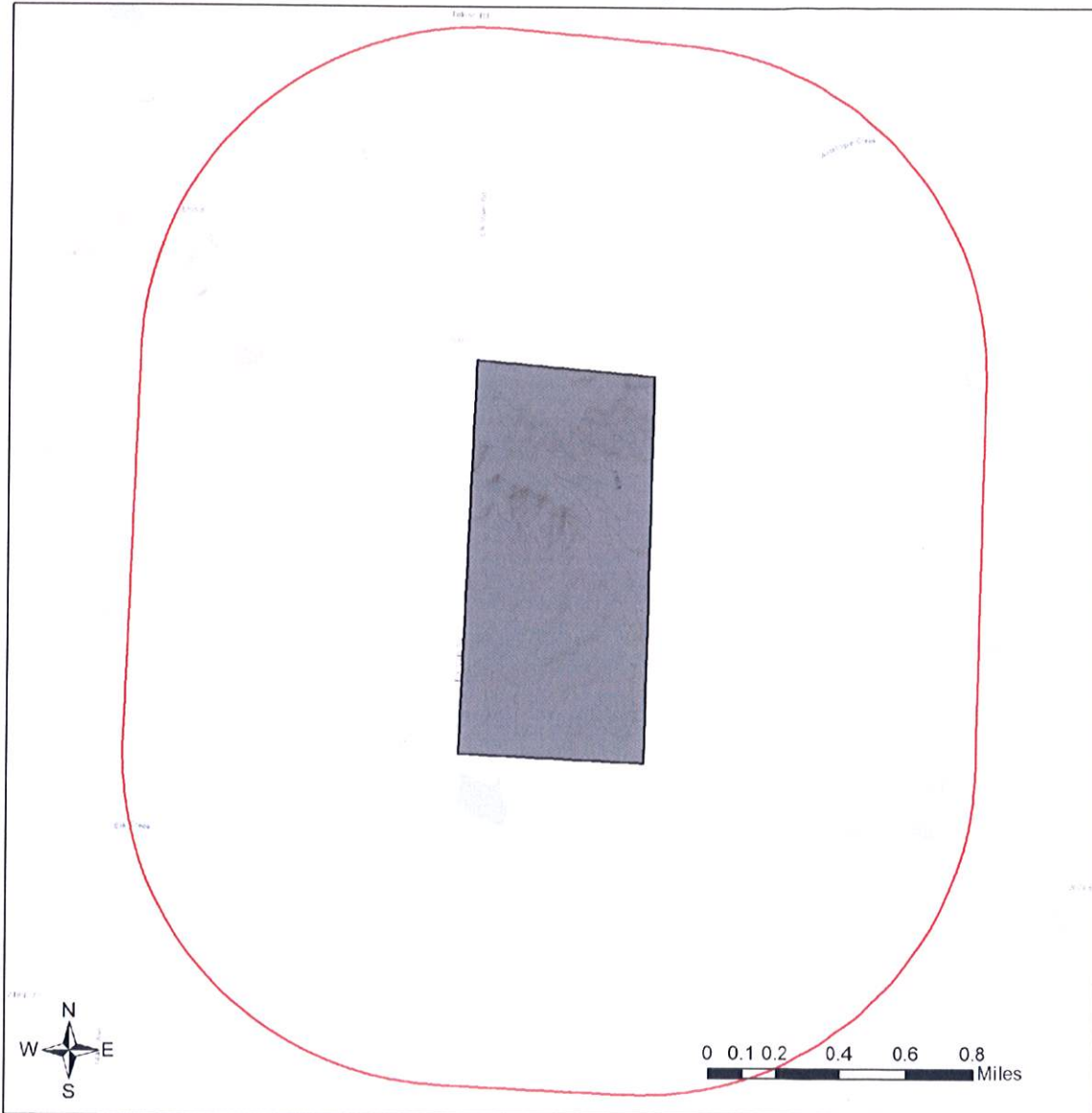
- | | |
|------------------------------|---------------------------|
| Project Boundary | National Grassland |
| Buffered Project Boundary | Bureau of Land Management |
| Game Production Areas | Bureau of Reclamation |
| SD Parks and Rec Areas | Corps of Engineers |
| School and Public Lands | National Park Service |
| The Nature Conservancy Lands | USFWS Wildlife Refuge |
| Federal Lands | Waterfowl Production Area |
| National Forest | |



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Rapid City Shooting Range
Web Map As Submitted By User



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

**Appendix E – Army Corps of Engineers Jurisdictional
Determination**



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
SOUTH DAKOTA REGULATORY OFFICE
28563 POWERHOUSE ROAD, ROOM 118
PIERRE, SOUTH DAKOTA 57501-6174

January 26, 2022

South Dakota Regulatory Office
28563 Powerhouse Road, Room 118
Pierre, South Dakota 57501

South Dakota Game, Fish & Parks
Attn: John Kanta
4130 Adventure Trail
Rapid City, South Dakota 57702

Dear Mr. Kanta:

Reference is made to the information received January 13, 2022, concerning Section 404 of the Clean Water Act permit requirements. The review area is located in the west half of Section 34, Township 4 North, Range 8 East, Meade County, South Dakota.

Based on the information provided and a site visit conducted, we have determined that there are no waters of the United States (i.e. jurisdictional waters) located within the review area. Therefore, activities within the review area are not subject to Department of the Army regulatory authorities and no permit pursuant to Section 404 of the Clean Water Act is required from the Corps of Engineers.

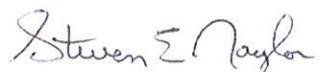
An approved jurisdictional determination (JD) has been completed for your project. This JD is valid for 5 years from the date of this letter. The JD is enclosed and also may be viewed at our website. The link to the website is shown below. The JD will be available on the website within 30 days. If you are not in agreement with the JD, you may request an administrative appeal under Corps of Engineers regulations found at 33 C.F.R. 331. Enclosed you will find a Notification of Administrative Appeal Options and Process and Request for Appeal form (RFA). Should you decide to submit an RFA form, it must be received by the Corps of Engineers Northwestern Division Office within 60 days from the date of this correspondence (by March 27, 2022). It is not necessary to submit a RFA if you do not object to the JD.

You can obtain additional information about the Regulatory Program from our website:

<http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/SouthDakota.aspx>

If you have any questions, please feel free to contact this office at the above Regulatory Office address, or telephone Jeff Breckenridge at (605) 222-5098 and reference action ID NWO-2022-00097-PIE.

Sincerely,

A handwritten signature in black ink that reads "Steven E. Naylor". The signature is written in a cursive style with a large, stylized 'S' and 'N'.

Steven E. Naylor
Regulatory Program Manager,
South Dakota

Enclosures

cc:
FMG Engineering (Hines)

**Appendix F – FEMA National Flood Hazard Layer
FIRMette**

National Flood Hazard Layer FIRMette



103°9'13"W, 44°15'39"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

0.2% Annual Chance Flood Hazard. Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone 2)

Future Conditions 1% Annual Chance Flood Hazard (Zone X)

Area with Reduced Flood Risk due to Levee. See Notes, Zone X

Area with Flood Risk due to Levee (Zone D)

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN Area of Minimal Flood Hazard (Zone X)
- Effective LOMRS
- Area of Undetermined Flood Hazard (Zone D)

OTHER AREAS

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

GENERAL STRUCTURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

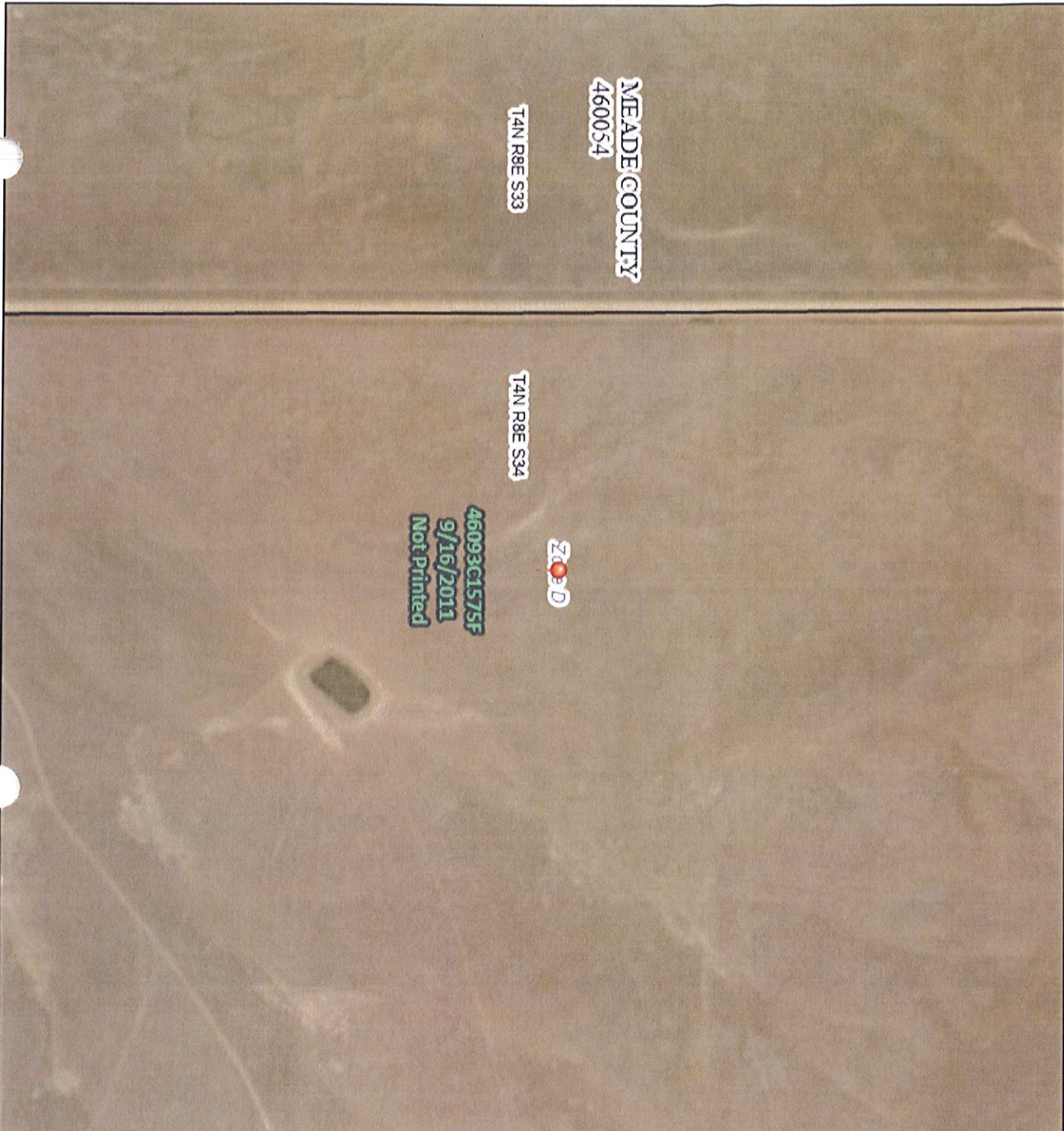
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/7/2022 at 3:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, firm panel number, and firm effect date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette

103°9'15"W 44°15'53"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, AE, S
- With BFE or Depth Zone AE, AO, AH, VE, AP
- Regulatory Floodway

0.2% Annual Chance Flood Hazard. Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile. Zone 2

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRS

Area of Undetermined Flood Hazard Zone

OTHER AREAS GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance

17.5 Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/7/2022 at 3:38 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette



Legend

103°9'11"W, 44°16'11"N

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

0.2% Annual Chance Flood Hazard. Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *(Zone 1)*

Future Conditions 1% Annual Chance Flood Hazard *(Zone X)*

Area with Reduced Flood Risk due to Levee. See Notes. *(Zone X)*

Area with Flood Risk due to Levee *(Zone D)*

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN
- Area of Minimal Flood Hazard *(Zone X)*
- Effective LOMRS

OTHER AREAS

- Area of Undetermined Flood Hazard *(Zone X)*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

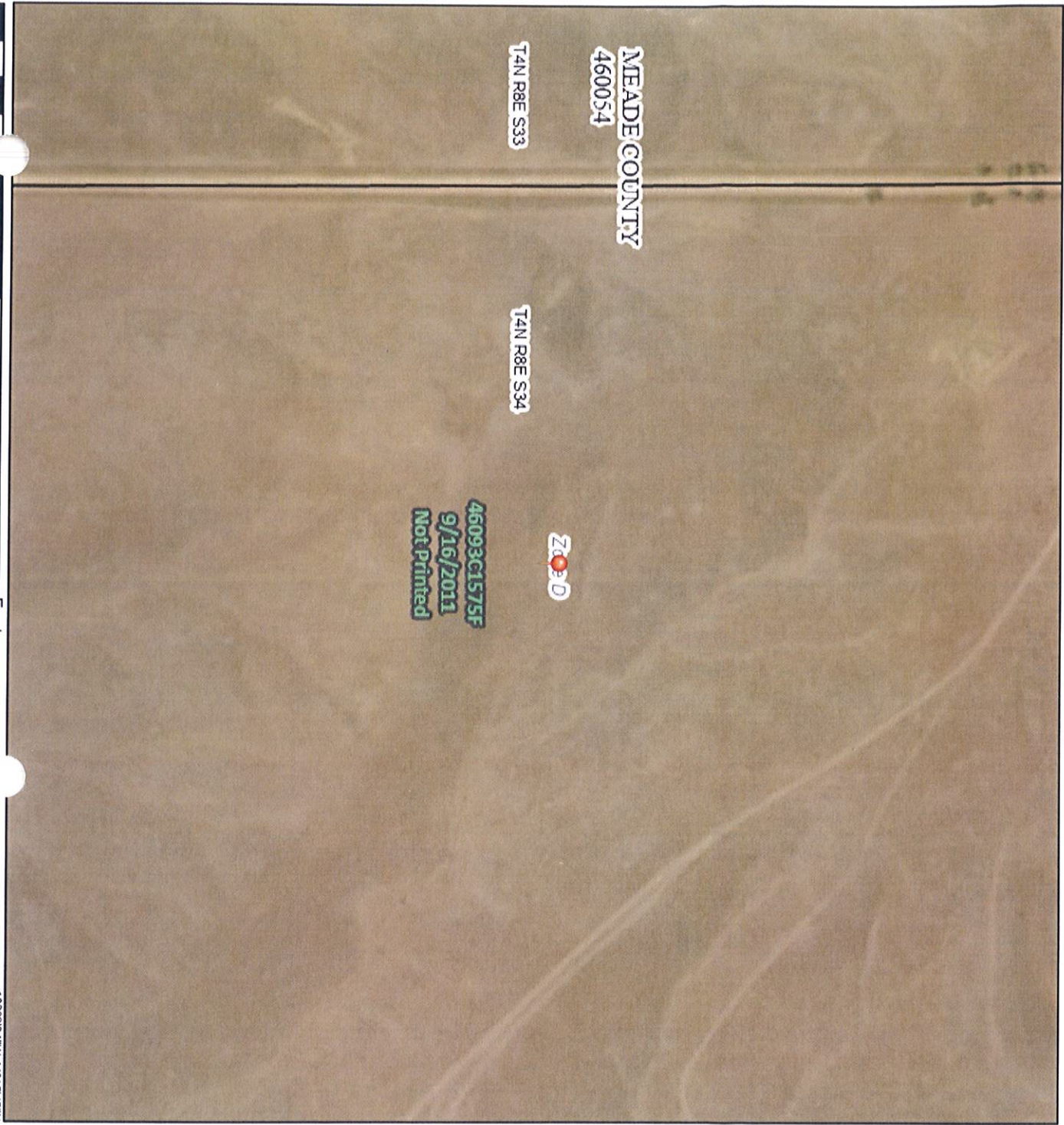
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/7/2022 at 3:39 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effect. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



103°8'34"W, 44°15'45"N



46093C1575F
9/16/2011
Not Printed



National Flood Hazard Layer FIRMette

103°9'16"W, 44°16'30"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone 2*

Future Conditions 1% Annual Chance Flood Hazard *Zone X*

Area with Reduced Flood Risk due to Levee, See Notes, *Zone X*

Area with Flood Risk due to Levee *Zone D*

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN
- Area of Minimal Flood Hazard *Zone X*
- Effective LOMRS
- Area of Undetermined Flood Hazard *Zone X*

OTHER AREAS GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance Water Surface Elevation

17.5 Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline Profile Baseline

Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/7/2022 at 3:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effect. Map images for unmapped and unmoderized areas cannot be used for regulatory purposes.



0 250 500 1,000 1,500 2,000 Feet 1:6,000



103°8'38"W, 44°16'4"N