

CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name:	Anderson Stockwater & Fence
Proposed Implementation Date:	Summer 2018
Proponent:	Gary Anderson & RSA Conservation
Location:	31N 26E 16
County:	Blaine
Trust:	Common

I. TYPE AND PURPOSE OF ACTION

This project on State land is a part of a larger project looking to create more reliable water and more manageable pastures to allow a rest rotation grazing system. This project will allow for greater management abilities on State land.

II. PROJECT DEVELOPMENT

1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED:

Provide a brief chronology of the scoping and ongoing involvement for this project.

Department of Natural Resources and Conservation (DNRC)
Northeastern Land Office (NELO)
RSA Conservation
Gary Anderson (Lessee)

2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:

The DNRC, and NELO have jurisdiction over this proposed project.

DNRC is not aware of any other agencies with jurisdiction or other permits needed to complete this project

3. ALTERNATIVES CONSIDERED:

Alternative A (No Action) – Under this alternative, the Department does not grant permission to install the stockwater pipeline, water tank and boundary fence.

Alternative B (the Proposed Action) – Under this alternative, the Department does grant to install the stockwater pipeline, water tank and boundary fence.

III. IMPACTS ON THE PHYSICAL ENVIRONMENT

- RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.
- Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.
- Enter "NONE" if no impacts are identified or the resource is not present.

4. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE:

Consider the presence of fragile, compactable or unstable soils. Identify unusual geologic features. Specify any special reclamation considerations. Identify any cumulative impacts to soils.

28	Cabbart-Yamac-Rock outcrop complex, 15 to 70 percent slopes	Poorly suited	Cabbart (40%) Delpoint (4%) Riedel (3%)	Slope (0.00) Depth to restriction (0.04) Salinity (0.97) Shrink-swell (0.00) Slope (0.22) Slope (0.08) Depth to restriction (0.10)	157.3	5.9%
47	Glendive fine sandy loam	Well suited	Glendive (90%) Havre (5%) Hanly (5%)		83.8	3.1%
51	Harlem silty clay loam, saline	Poorly suited	Harlem (90%) Lardell (3%)	Content of sand (0.94) Shrink-swell (0.00) Salinity (0.00) Content of clay (0.00) Salinity (0.00) Shrink-swell (0.00) Potential frost action (0.50)	5.7	0.2%
55	Havre loam	Well suited	Havre (90%) Glendive (5%)		72.6	2.7%
56	Havre loam, saline	Well suited	Havre (90%) Havre (4%)	Salinity (0.00) Salinity (0.00) Shrink-swell (0.88)	9.8	0.4%
72	Kevin clay loam, 2 to 8 percent slopes	Poorly suited	Glendive (4%) Kevin (85%) Elloam (4%) Scobey (4%)	Content of clay (0.00) Shrink-swell (0.05) Content of clay (0.00) Shrink-swell (0.05) Salinity (0.88) Content of clay (0.00) Shrink-swell (0.50)	224.2	8.4%

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- There are two soils (28 & 72) that are poorly suited for both fencing and trenching. Mitigating factors such as mulching and straw waddles may be needed to keep erosion at an acceptable level. These soils are rated as poor mostly due to slope.

5. WATER QUALITY, QUANTITY AND DISTRIBUTION:

Identify important surface or groundwater resources. Consider the potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality. Identify cumulative effects to water resources.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

6. AIR QUALITY:

What pollutants or particulate would be produced? Identify air quality regulations or zones (e.g. Class I air shed) the project would influence. Identify cumulative effects to air quality.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

7. VEGETATION COVER, QUANTITY AND QUALITY:

What changes would the action cause to vegetative communities? Consider rare plants or cover types that would be affected. Identify cumulative effects to vegetation.

Current plant community is native short grass associated with silty and shallow Eco sites in the western glaciated plains MLRA.

The will be some ground disturbance and bare ground created associated with the stockwater installation. These areas will be prone to noxious weed infestations. Frequent scouting should occur until revegetation has occurred to suppress noxious weed establishment.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- Bare ground associated with the installation of a stockwater pipeline will revegetate with grass & shrubs in a few years. The Area of Potential Effect (APE) will remain visible for many years.

8. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS:

Consider substantial habitat values and use of the area by wildlife, birds or fish. Identify cumulative effects to fish and wildlife.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

9. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES:

Consider any federally listed threatened or endangered species or habitat identified in the project area. Determine effects to wetlands. Consider Sensitive Species or Species of special concern. Identify cumulative effects to these species and their habitat.

A search of the Montana Natural Heritage Program for Species of Concern is shown below.

Species of Concern												
7 Species												
Filtered by the following criteria:												
MT Status = Species of Concern												
Threatened = 0/2/1/2/3/4 (Based on missing Species Occurrences)												
SCIENTIFIC NAME	FAMILY (SUBFAMILY)	GLOBAL RANK	STATE RANK	STATUS	REASON	RISK	REASON	NO. OF GLOBAL SPECIES	NO. OF GLOBAL SPECIES	NO. OF STATE SPECIES	HABITAT	
SYNONYM	SYNONYM	01	01	01	01	01	01	01	01	01	01	
Thomomys talpiformis	Squirrels	01	01	01	01	01	01	01	01	01	Grasslands	
Black-tailed Prairie Dog	Squirrels	01	01	01	01	01	01	01	01	01	Grasslands	
Species Occurrences verified in these Counties: Big Horn, Blaine, Cascade, Carbon, Cascade, Chouteau, Golden, Glacier, Petroleum, San Fernando, Stillwater, Teton, Yellowstone, Judith Basin, Liberty, Musselshell, Park, Prairie, Richland, Rosebud, Stillwater, Yellowstone.												
Thomomys talpiformis	Squirrels	01	01	01	01	01	01	01	01	01	Grasslands	
Black-tailed Prairie Dog	Squirrels	01	01	01	01	01	01	01	01	01	Grasslands	
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Black-tailed Prairie Dog	Squirrels	01	01	01	01	01	01	01	01	01	Grasslands	
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Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- Currently there are no Black-tailed Prairie Dogs located in the area of potential effect. Temporary displacement may occur during installation of the Stockwater and fence for the Chestnut-collared Longspur. No population effect is anticipated for the Chestnut-collared Longspur.

10. HISTORICAL AND ARCHAEOLOGICAL SITES:

Identify and determine effects to historical, archaeological or paleontological resources.

A Class I (literature review) level review was conducted by the DNRC staff archaeologist for the area of potential effect (APE). This entailed inspection of project maps, DNRC's sites/site leads database, land use records, General Land Office Survey Plats, and control cards. The Class I search revealed that *Antiquities* have not been identified in the APE. No additional archaeological investigative work will be conducted in response to this proposed development. However, if previously unknown cultural or paleontological materials are identified during project related activities, all work will cease until a professional assessment of such resources can be made.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

11. AESTHETICS:

Determine if the project is located on a prominent topographic feature, or may be visible from populated or scenic areas. What level of noise, light or visual change would be produced? Identify cumulative effects to aesthetics.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

12. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY:

Determine the amount of limited resources the project would require. Identify other activities nearby that the project would affect. Identify cumulative effects to environmental resources.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA:

List other studies, plans or projects on this tract. Determine cumulative impacts likely to occur as a result of current private, state or federal actions in the analysis area, and from future proposed state actions in the analysis area that are under MEPA review (scoped) or permitting review by any state agency.

Alternative A (No Action)-No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

IV. IMPACTS ON THE HUMAN POPULATION

- *RESOURCES* potentially impacted are listed on the form, followed by common issues that would be considered.
- Explain *POTENTIAL IMPACTS AND MITIGATIONS* following each resource heading.
- Enter "NONE" if no impacts are identified or the resource is not present.

14. HUMAN HEALTH AND SAFETY:

Identify any health and safety risks posed by the project.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

15. INDUSTRIAL, COMMERCIAL AND AGRICULTURE ACTIVITIES AND PRODUCTION:

Identify how the project would add to or alter these activities.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT:

Estimate the number of jobs the project would create, move or eliminate. Identify cumulative effects to the employment market.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

17. LOCAL AND STATE TAX BASE AND TAX REVENUES:

Estimate tax revenue the project would create or eliminate. Identify cumulative effects to taxes and revenue.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

18. DEMAND FOR GOVERNMENT SERVICES:

Estimate increases in traffic and changes to traffic patterns. What changes would be needed to fire protection, police, schools, etc.? Identify cumulative effects of this and other projects on government services

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS:

List State, County, City, USFS, BLM, Tribal, and other zoning or management plans, and identify how they would affect this project.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

20. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES:

Identify any wilderness or recreational areas nearby or access routes through this tract. Determine the effects of the project on recreational potential within the tract. Identify cumulative effects to recreational and wilderness activities.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING:

Estimate population changes and additional housing the project would require. Identify cumulative effects to population and housing

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

22. SOCIAL STRUCTURES AND MORES:

Identify potential disruption of native or traditional lifestyles or communities.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

23. CULTURAL UNIQUENESS AND DIVERSITY:

How would the action affect any unique quality of the area?

Alternative A (No Action)- No effect anticipated.


Alternative B (the Proposed Action)- No effect anticipated.

24. OTHER APPROPRIATE SOCIAL AND ECONOMIC CIRCUMSTANCES:

Estimate the return to the trust. Include appropriate economic analysis. Identify potential future uses for the analysis area other than existing management. Identify cumulative economic and social effects likely to occur as a result of the proposed action.

Alternative A (No Action)- No effect anticipated.

Alternative B (the Proposed Action)- No effect anticipated.

EA Checklist Prepared By:	Name: Brandon Sandau Title: Land Use Specialist
Signature: 	Date: March 29, 2018

V. FINDING

25. ALTERNATIVE SELECTED:

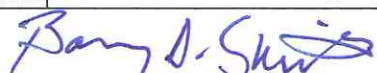
Alternative B (the Proposed Action) – Under this alternative, the Department does grant to install the stockwater pipeline, water tank and boundary fence.

26. SIGNIFICANCE OF POTENTIAL IMPACTS:

No significant impacts anticipated.

27. NEED FOR FURTHER ENVIRONMENTAL ANALYSIS:

EIS
 More Detailed EA
 XXX No Further Analysis

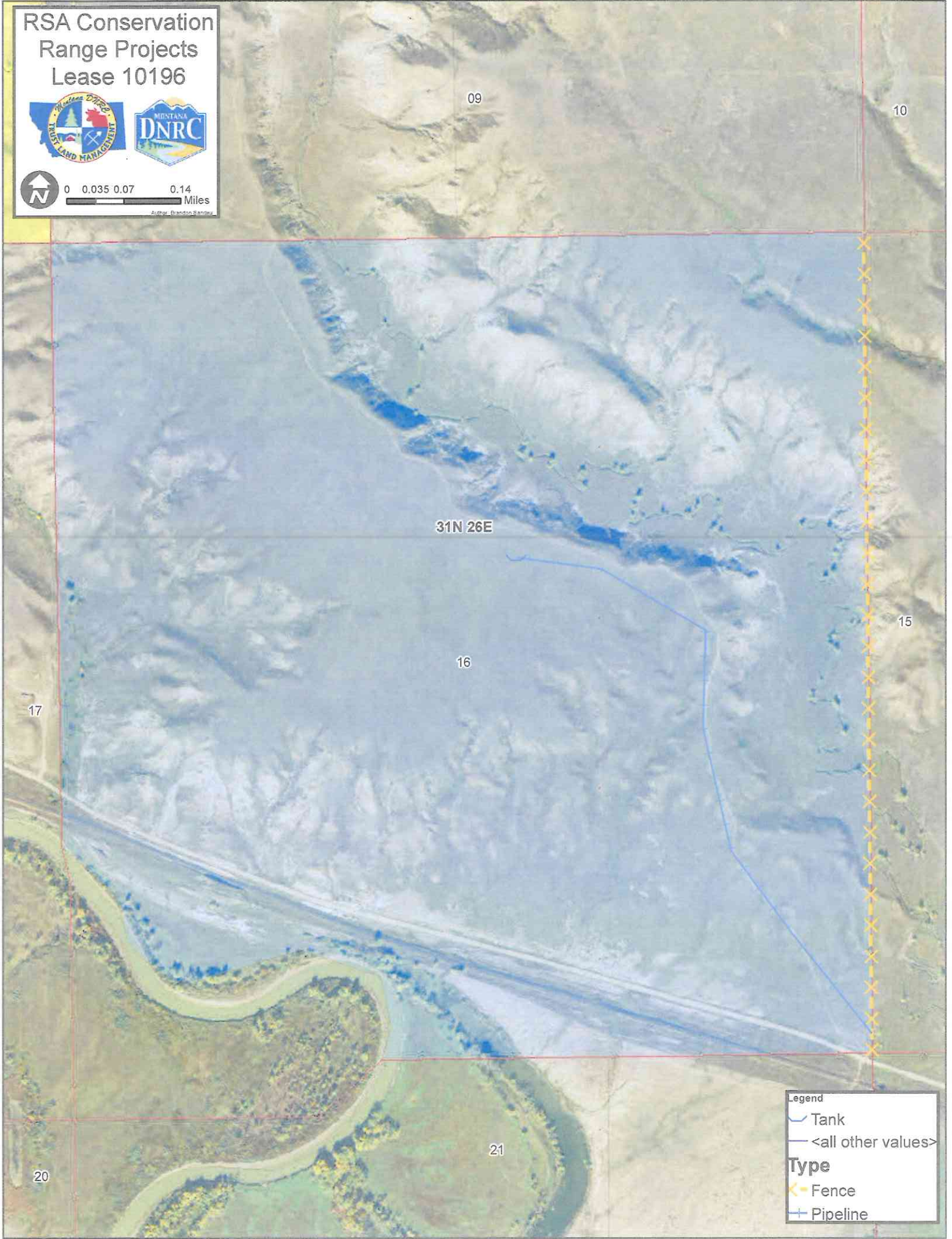
EA Checklist Approved By:	Name: Barny D. Smith Title: Unit Manager, Northeastern Land Office
Signature: 	Date: March 29, 2018

RSA Conservation
Range Projects
Lease 10196



0 0.035 0.07 0.14
Miles

Author: Brandon Sandow



Legend

- Tank
- <all other values>

Type

- Fence
- Pipeline