

CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name:	Weist Farms LLC-Hay Land to Agricultural Land Classification
Proposed Implementation Date:	Spring 2015
Proponent:	Weist Farms LLC, 370 25 th Road NW, Choteau, MT 59422
Location:	Lease #2130, S2, Section 36, T26N, R4W
County:	Teton
Trust:	Common Schools

I. TYPE AND PURPOSE OF ACTION

The lessee, Weist Farms LLC, has requested to break 33.00 acres of hay land and covert it to agricultural land for small grain production. The tract was last farmed in 1999. The remaining 287.00 acres of native rangeland will not be broke as it contains Muddy Creek. The lessee plans to spray the hay out during the spring 2015 and then direct seed it to a spring crop in the spring of 2015.

II. PROJECT DEVELOPMENT

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

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

DNRC-Surface Owner
Weist Farms LLC, Lessee, Lease #2130

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

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) – Deny Weist Farms LLC permission to break the hay land and return it to small grain production.

Alternative B (the Proposed action) – Grant Weist Farms LLC permission to break the hay land and return it to small grain production.

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.

This tract consists of gently rolling to rolling topography. The below table outlines the soil types that will be broke.

Slope	Class	T-Factor	WEG	Estimated WW Yield	Acres	Section
2-8%	3E	5	6	40 bu/acre	26.50	36
4-8%	3E	5	6	41 bu/acre	3.80	36
0-4%	6W	5	4	26 bu/acre	2.70	36
TOTAL	3E				30.30	
TOTAL	6W				2.70	
TOTAL	BREAK				33.00	

Class 3 soils have severe limitations that restrict the choice of plants and require special conservation practices. Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use to mainly pasture, rangeland, forestland, or wildlife habitat. The letter “e” shows that there is an erosion hazard unless close-growing plant cover is maintained. The letter “w” shows that water in or on the soil surface interferes with plant growth or cultivation. In some soils the wetness can be partly corrected by artificial drainage.

The class 3E soils have an expected yield of 40-41 bu/acre for winter wheat are susceptible to wind and water erosion. These erosion concerns will be mitigated due to the residue produced not being destroyed by the utilization of no-till farming practices. Clearly, the majority of the soils on this tract meet DNRC’s land break requirements.

The class 6W soils have an expected yield of 26 bu/acre due to water on the soil surface. There was no water on the soil surface at the time of the field evaluation. This soil should have relatively the same productivity as the 3E soils and is likely inaccurately mapped. The yield concerns for this soil type will be mitigated due to the residue produced not being destroyed by the utilization of no-till farming practices. The no-till farming practice aides in absorbing excess water and not allowing it to runoff onto this soil type. No-till farming will allow this soil type to become productive and have an equivalent yield to the adjacent soil.

Any erosion concerns for these soil types will be mitigated due to the residue produced not being destroyed by the utilization of no-till farming practices. Clearly, the majority of the soils on this tract meet DNRC’s land break requirements.

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.

There are numerous documented and/or recorded water rights associated with the tract. None of these water rights will be affected as the area claimed under these water rights will not be converted to agricultural production, so no cumulative effects to water is expected in either alternative. Other water quality and/or quantity issues will not be impacted by the proposed action.

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.

No cumulative effects to air quality are 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.

The existing hay land vegetation is native and introduced species consisting of primarily crested, intermediate, slender, and western wheatgrass. Also the tract contains scattered alfalfa plants. The tract was last farmed in 1999. The vegetative community will be altered by the reclassification. The conversion of hay land to small grain production will increase the overall productivity of the tract as the current grass stand has very low vigor.

A review of Natural Heritage data through the NRIS was conducted and there were no plant species of concern noted or potential species of concern noted on the NRIS survey.

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.

Any concerns will be somewhat mitigated as the proposed action will remove the permanent vegetative cover, but the residue produced in small grains production will still provide limited cover and food for the area wildlife.

Converting existing hay land acres to agricultural land will decrease wildlife thermal and hiding cover. This reduction of cover may adversely impact various wildlife species including songbirds, upland game birds, waterfowl, antelope, white tailed deer, and mule deer. Agricultural land may provide a limited food source for wildlife species including deer, antelope, upland game birds and migrating waterfowl.

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.

There are no threatened or endangered species, sensitive habitat types, or other species of special concern associated with the proposed project area.

A review of Natural Heritage data through the NRIS was conducted. There were one animal species of concern and five potential species of concern noted on the NRIS survey: Mammals-Hayden's Shrew. Birds-Great Blue Heron. Fish-Brook Stickleback. Invertebrates-Emma's Dancer, Plains Clubtail, and Pronghorn Clubtail. This particular tract of hay land does not contain many, if any of this species. If any are present, they may be dispersed into surrounding permanent cover.

With the use of the USDA-NRCS Conservation Plan, minimum cumulative effects are anticipated.

10. HISTORICAL AND ARCHAEOLOGICAL SITES:

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

Patrick Rennie, DNRC archaeologist, was contacted and he stated that due to the hay land being previously farmed, no historical, archaeological, or paleontological resources would be present.

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.

Since the field is currently in hay and the surrounding tracts are all either CRP, grazing, or farmed, reclassification as agricultural land will not affect the aesthetics of the area.

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.

The demand on environmental resources such as land, water, air, or energy will not be affected by the proposed action. The proposed action will not consume resources that are limited in the area. There are no other projects in the area that will affect the proposed project.

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.

There are no other projects or plans being considered on the tract listed on this EA.

IV. IMPACTS ON THE HUMAN POPULATION
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| <ul style="list-style-type: none">• <i>RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.</i>• <i>Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.</i>• <i>Enter "NONE" if no impacts are identified or the resource is not present.</i> |
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14. HUMAN HEALTH AND SAFETY:

Identify any health and safety risks posed by the project.

The proposed project will not change human safety in the area.

15. INDUSTRIAL, COMMERCIAL AND AGRICULTURE ACTIVITIES AND PRODUCTION:

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

The reclassification to agricultural land will increase the vegetative productivity of this tract. The estimated WW yield is 26-41 bu/acre. In a 50-50 crop fallow system economic returns will vary between \$20.00/acre to \$30.00/acre.

The current hay land is under a cash lease for \$15.00/acre, but will not be sustained due to the cash lease expiring. Converting these acres to cropland, the Common Schools trust would see an increase in revenue.

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.

The proposed action will not significantly affect long-term employment in the surrounding communities.

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.

The proposed action will increase the tax revenue due to the increased revenue generated in small grain production.

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

There will be no increases in traffic, no changes in traffic patterns, and no need for additional fire protection, or police services.

There will be no direct or cumulative effects on government services.

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.

The proposed action is in compliance with State and County laws. No other management plans are in effect for the area.

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.

This tract of state land is rural and generally has low recreational value. The tract is legally accessible and the proposed action is not expected to impact general recreational and wilderness activities on this state tract.

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

The proposal does not include any changes to housing or developments.

No direct or cumulative effects to population or housing are anticipated.

22. SOCIAL STRUCTURES AND MORES:

Identify potential disruption of native or traditional lifestyles or communities.

There are no native, unique, or traditional lifestyles or communities in the vicinity that would be impacted by the proposal.

23. CULTURAL UNIQUENESS AND DIVERSITY:

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

The proposed action will not impact the cultural uniqueness or diversity of the area.

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.

The proposed conversion of hay land to agricultural land will greatly improve the productivity on the tract and increase the return to the trust. The current grass stands have lost their vigor and have very low productivity. Therefore, converting this acreage to small grain production will provide the Common Schools trust with an estimated return of between \$20 - \$30/acre, depending on grain prices. No other unique circumstances exist.

EA Checklist Prepared By:	Name: Tony Nickol	Date: March 18, 2015
	Title: Land Use Specialist, Conrad Unit, Central Land Office	

V. FINDING

25. ALTERNATIVE SELECTED:

Alternative B (the Proposed action) – Grant Weist Farms LLC permission to break the hay land and place it into small grain production.

26. SIGNIFICANCE OF POTENTIAL IMPACTS:

This tract of state land is adjacent to productive farm land. All acres meet current Departmental breaking policy, which indicate that soils are suitable for small grain production under no till farming practices. The lessees must work with FSA and NRCS and obtain a Conservation Plan and comply with all sod busting regulations. Breaking these acres will help meet TLMD objectives by increasing revenue to the school trust. An average of 25-40 bu/acre winter wheat or \$20.00 to \$30.00 per acre annual return is expected for this acreage. Significant negative impacts are not expected with this break.

27. NEED FOR FURTHER ENVIRONMENTAL ANALYSIS:

EIS More Detailed EA No Further Analysis

EA Checklist Approved By:	Name: Erik Eneboe
	Title: Conrad Unit Manager, CLO, DNRC
Signature: 	Date: March 18, 2015