

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [\[HELP\]](#)

1. Name of proposed project, if applicable:
China Creek Riparian Restoration and School Creek Wet Meadow Restoration @ Big Bend WLA.
2. Name of applicant:

Washington Department of Fish and Wildlife

3. Address and phone number of applicant and contact person:

Applicant: Sidra Blake, Wildlife Area Assistant Manager

Contact Person: Dan Peterson, Wildlife Area Manager

54 Moe Road

Brewster, WA 98812

(509) 686- 4305

4. Date checklist prepared: **12/19/2018**

5. Agency requesting checklist: **WDFW**

6. Proposed timing or schedule (including phasing, if applicable): **Project permitting will be finalized in 2019. Staging of native material at each site will occur first. Off site rock will be transported to worksites. On site materials will be harvested immediately prior to structure installation. Hand built construction of a few Zeedyk structures and a few Beaver Dam Analogs (BDAs) will occur as early as July 2019 over the course of 4 days. Additional structures will be created along the reaches as needed or in an adaptive approach over an estimated 10 year span.**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **Yes, maintaining the proposed ecological benefits to the project areas may require additional efforts unforeseen at this time. The planning effort to date provides knowledge about the likely range of environmental impacts related to the harvest, construction, and modifications of materials used for the Zeedyk structures and Beaver Dam Analogs.**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Section 6 Management Plan for Big Bend, 2018

Columbia Sharp-tailed grouse Recovery Plan

Greater Sage-Grouse Recovery Plan

Big Bend Management Plan

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **No.**

10. List any government approvals or permits that will be needed for your proposal, if known.
Cultural Resource consultation will be required.

WDFW HPA

Work within critical areas may require Douglas County permits.

A permit or exemption will be required from US Army Corp of Engineers Clean Water Act Section 404.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

We will construct up to approximately 60 simple, hand built structures made of native materials (rock, vegetation, wood cuttings) known as Zeedyk rock structures and beaver dam analogues (BDAs). Up to 30 structures will be placed at China Creek and 30 at School Creek.

At China Creek, along a 1.65 mile reach, up to 30 BDAs will be strategically placed to slow water capture sediment, create pool habitat, and induce flooding of low side channels and terraces at base flow. Structures will be low (<2'high), hand-crafted with native materials, and semi-porous (leaky). Posts, if used for additional reinforcement, would be untreated wooden posts. The expected outcome would be an expansion of the riparian zone as it reconnects with inset floodplain/terraces. We will plant native shrub and trees and may install fencing/cages to protect new plants from herbivory.

At the School Creek wet meadow (~20 acres) site along a 1.1 mile reach, Zeedyk structures will be strategically placed along 30 wet meadow sites to stop or slow headcut development, spread surface runoff, and promote aggradation of incised channels. Multiple structures and types of structures (i.e. Zuni bowl, One Rock Dam, Media Luna) are needed to act in concert to achieve the desired effect within the reach. To repair areas where soil disturbance has occurred (i.e. during rock transport) we will seed with native plants. If existing trailing by cattle continues to create water channelization and water loss, hindering restoration, we will modify the grazing rotation, grazing pressure, or install a temporary drift fence intended to alter cattle behavior.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The project sites are located in Douglas County. The projects will occur within the boundaries of the Washington State Big Bend Wildlife Area and on a Section 16 DNR parcel that is managed by Washington Department of Fish and Wildlife. China Creek: Township 30N, Range 29 E, Section 10, 11, and 14. School Creek TRS: T30 R30 Section 16 (DNR), 21, and 22

B. Environmental Elements [\[HELP\]](#)

1. Earth [\[help\]](#)

a. General description of the sites:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)? <10%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Existing native sod, mud, and stones will be used to construct hand built permeable structures.

School Creek: 3 Soil types exist along the reach 1) Aquolls- Halaquepts complex 2) Cachebutte-Alecanyon-Haploxerolls complex 3) Dezellem-Brazlan complex

China Creek: 1 soil type along reach 1) Xerofluvents-Beverly association

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. **No.**
- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Fill would be associated with installing up to 30 BDA's at China Creek and 30 Zeedyk structures at School Creek.

The placement of BDAs at China Creek riparian site will require digging out about 1/3 the depth of the larges key pieces of wood or rock. Mud, sediment from bed material and turf sourced from backwater area combined with woody vegetation will be stacked strategically. Materials will be collected in a manner to minimize disturbance impacts. We anticipate up to 2 CY of 'fill' will be needed for all 30 structures. These structures are designed to have a short lifespan and kickstart the desired processes. If high flow stream power is determined a problem we may add untreated wooden posits to reinforce the BA. Post will be driven, using a pneumatic hammer, through entire structure up to 1/3 the length of finish posts into underlying bed.

The placement of Zeedyk structures at School Creek wet meadow will require creating shallow trenches for each structure. Each structure serves a different purpose ranging from grade control, headcut control, and water spreading. This site will likely require all these types of structures acting in concert. Up to 120 CY of off site rock will be used for all the structures along the reach. Gaps in the rock work will be filled with locally available gravel, mud, sod, and stones. Biodegradable geotextile fabric will be used to line the face of the headcuts prior to laying down rock. Adjacent mud, sod, and stones will be molded into rock structures improving durability of the structure.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. **Erosion in the uplands and wet meadow could occur due to soil disturbance during the transport of rock material to the wet meadow worksites. Erosion is a natural part of the creek process; every restoration project expects some level of fine sediment input. We intend to use Best Management Practices (BMPs) to minimize erosive fine sediment during construction and methods (i.e. plant native grasses and woody species) to eliminate unwanted erosion in the future.**
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? **0%**
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: **Zeedyk structures and beaver dam analogs are hand built structures fully intended to stop or hinder ongoing erosion. Other measures we will employ as needed to control**

soil erosion includes better regulating placement of mineral supplements, native seeding areas where soil becomes disturbed, herbivory exclosures, drift fences to alter cattle trailing, or the agency would consider altering grazing period if cattle continue to heavily contribute to erosion.

2. Air [\[help\]](#)

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. **Emissions may include large construction equipment and assorted vehicles to transport materials and people to site.**
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No.**
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: **None**

3. Water [\[help\]](#)

a. Surface Water: [\[help\]](#)

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. **Both creeks are intermittent and potentially dry by July. China Creek is fed by a spring above the proposed worksite. The middle of the School Creek worksite is a wet meadow with multiple headcuts spread as far as 0.5 mile below indicating channelization of the water and wet meadow loss. Both creeks drain into the Columbia River.**
- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. **Natural dam structures will be placed along the creeks footprint, which will likely contain a small amount of surface water. Plantings and seedings of native plants will occur adjacent to both creeks.**
- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.
NA.
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. **No.**
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. **No.**

b. Ground Water: [\[help\]](#)

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. **No.**

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **No.**

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. **Not Applicable.**

2) Could waste materials enter ground or surface waters? If so, generally describe. **Not Applicable.**

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? **If so, describe. Yes, installation of media lunas at the headwater of the School Creek wet meadow should diffuse the water energy flow, increase the wet meadow footprint, and mitigate ongoing channel degradation.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site:

- _X_ deciduous tree: alder, maple, aspen, other
- _X_ evergreen tree: fir, cedar, pine, other
- _X_ shrubs
- _X_ grass
- __ pasture
- __ crop or grain
- __ Orchards, vineyards or other permanent crops.
- _X_ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- __ water plants: water lily, eelgrass, milfoil, other
- __ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

For the China Creek project, we plan to use on site woody material from adjacent upland habitat which will be clipped and placed in the 30 BDAs proposed. This project is expected to alter the community from uplands to riparian/mesic with a goal to at least double the existing riparian footprint in the recovery reach. Quantification of initial riparian footprint will be completed prior to the project.

For the School Creek project, some basal vegetation will be altered during transfer of the off site rock material to the project at School Creek. We plan for that to be minimal but necessary in order to get the off-site rock and equipment transported in. All soil disturbed areas will be seeded with native grasses and forbs. Currently, headcuts are incised and show retraction of wetland species (*Juncus* spp.) to incised elevation and drying of former meadow surfaces. This project is expected to stop or hinder this process that is showing signs of wetland/mesic habitat loss and reduced resilience to drought.

c. List threatened and endangered species known to be on or near the site. **Unknown.**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: **All disturbed areas will be planted with a native grass/forb mix as a transition from upland vegetation to riparian/mesic vegetation (FACU to FACW) is anticipated over time. At China Creek, the expected outcome would be an expansion of the riparian zone in reconnected inset floodplain/terraces. The lower reach may be planted with native shrubs and trees mix to facilitate more rapid recovery. The woody vegetation composition upriver is decent (primarily birch, rose, some willow) but currently indicating limited water holding capacity.**

At the School Creek wet meadow, with the consultation of CCT we hope to incorporate culturally important plants within our seeding efforts.

e. List all noxious weeds and invasive species known to be on or near the site. **Japanese bromes, cheatgrass, Dalmatian toadflax, bull thistle.**

5. **Animals** [\[help\]](#)

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: **hawk**, heron, **eagle**, **songbirds**, other:

mammals: **deer**, **bear**, **elk**, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other _____

The Big Bend WLA supports Columbian sharp-tailed gourse and a host of shrub-steppe obligates and dependent wildlife species. The management goal for the WLA is to maintain and enhance its habitat characteristics for the benefit of these species.

- b. List any threatened and endangered species known to be on or near the site.
Sharp-tailed grouse, Sandhill crane, wolves.

- c. Is the site part of a migration route? If so, explain.

Yes, this area is among the Pacific Flyway lesser sandhill crane migration route. Sandhills have been viewed flying overhead and along nearby playa wetlands.

- d. Proposed measures to preserve or enhance wildlife, if any:

The projects will be beneficial to wildlife. Riparian and mesic habitat is utilized by most animal species at one phase or another.

- e. List any invasive animal species known to be on or near the site. **None.**

6. **Energy and Natural Resources** [\[help\]](#)

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. **NA.**

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. **NA**

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: **NA**

7. **Environmental Health** [\[help\]](#)

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe. **No.**

1) Describe any known or possible contamination at the site from present or past uses.

None.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. **None.**

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. **Fueling areas are off-site. Equipment related fluids will be managed appropriately off-site.**

4) Describe special emergency services that might be required. **NA**

5) Proposed measures to reduce or control environmental health hazards, if any: **BMP will be applied to any heavy equipment used for the projects. Equipment will be checked for leaks, fueling will occur off site.**

b. *Noise*

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? **NA**

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. **The noise generated at the project site will be short lived and consist of normal construction noise. Work would be restricted to daylight hours only.**

3) Proposed measures to reduce or control noise impacts, if any: **None.**

8. *Land and Shoreline Use* [\[help\]](#)

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Current land use is a state wildlife area that provides recreational opportunities such as hunting, wildlife watching, hiking, and horseback riding. The wildlife area has an active grazing permit that prescribes rest/rotation management over a portion of the property. The proposed projects will improve riparian habitat and stop channel degradation in wet meadows. These results are advantageous to all above parties involved. It is possible, in order to achieve success, we may need to alter ongoing grazing management by reducing stocking rates, altering rotation, or installing drift

fences. Fortunately, the lessees of the grazing permit will be a participant in learning how to identify and employ these restoration efforts.

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Historically, it has been used for grazing and just recently became a State Wildlife Area through the phase 2 and 3 purchases occurring in 2015 and 2018, respectively.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how: **No**
- c. Describe any structures on the site. **None.**
- d. Will any structures be demolished? If so, what? **NA**
- e. What is the current zoning classification of the site? **RR-20 Rural Resource District and Recreational**
- f. What is the current comprehensive plan designation of the site? **RR-20 Rural Resource District and Recreational**
- g. If applicable, what is the current shoreline master program designation of the site? **NA**
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. **Yes, wetlands and fish and wildlife habitat conservation areas are classified as critical areas.**
- i. Approximately how many people would reside or work in the completed project? **<30**
- j. Approximately how many people would the completed project displace? **0**

- k. Proposed measures to avoid or reduce displacement impacts, if any: **NA**
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: **None**
- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: **NA**

9. Housing [\[help\]](#)

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. **NA**
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. **NA**
- c. Proposed measures to reduce or control housing impacts, if any: **NA**

10. Aesthetics [\[help\]](#)

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? **NA**
- b. What views in the immediate vicinity would be altered or obstructed? **NA**
- e. Proposed measures to reduce or control aesthetic impacts, if any: **NA**

11. Light and Glare [\[help\]](#)

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? **None.**
- b. Could light or glare from the finished project be a safety hazard or interfere with views? **No.**
- c. What existing off-site sources of light or glare may affect your proposal? **None.**

- d. Proposed measures to reduce or control light and glare impacts, if any: **None.**

12. Recreation [\[help\]](#)

- a. What designated and informal recreational opportunities are in the immediate vicinity?

The project is located on a State Wildlife Area where hunting, wildlife viewing, horseback riding, and hiking can occur.

- c. Would the proposed project displace any existing recreational uses? If so, describe.
No. The projects will enhance existing recreational uses.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **None.**

13. Historic and cultural preservation [\[help\]](#)

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

There is evidence of a stone structured foundation located and a stone lined path near the China Creek Site. There is no evidence existing at the School Creek wet meadow project site. A full cultural resource consultation is currently underway.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

Native people used the area for subsistence purposes, but no burial sites have been identified at the project sites. Cultural resource consultation is currently underway.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Consultation will be completed for any projects that occur. CCT has ceded bordering lands at the Columbia River that abuts Big Bend WLA. We plan to partner with CCT during the restoration efforts.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

After coordination and consultation, all efforts will be made to maintain cultural resources and avoid disturbances.

14. Transportation [\[help\]](#)

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.
China Creek road is a county road adjacent to the China Creek riparian restoration site. The closest road to School Creek wet meadow site is a service road managed by WDFW. The roads will be impacted by short-term traffic to import materials and construction equipment.
- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? **No.**
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? **Not applicable.**
- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). **No.**
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. **No.**
- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates? **The project will generate up to 10 trips per day during construction. Peak volumes will occur during a summer 4 day work window in July 2019.**
- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. **No.**
- h. Proposed measures to reduce or control transportation impacts, if any: **None.**

15. Public Services [\[help\]](#)

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. **No.**

b. Proposed measures to reduce or control direct impacts on public services, if any. **None.**

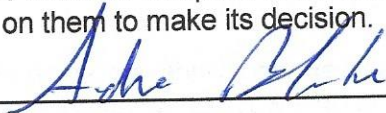
16. Utilities [\[help\]](#)

- a. Circle utilities currently available at the site: **None**
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other _____
- f. Describe the utilities that are proposed for the project, the utility providing the service,
and the general construction activities on the site or in the immediate vicinity which might
be needed. **A portable toilet will be rented and transported by trailer along the main
roads near the worksites.**

C. Signature [\[HELP\]](#)

The above answers are true and complete to the best of my knowledge. I understand that the
lead agency is relying on them to make its decision.

Signature: _____



Name of signee: Sidra Blake

Position and Agency/Organization: Assistant Manager, Douglas County Wildlife Area Complex,
WDFW

Date Submitted: 1/10/2019