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Date: May 16, 2021
Our File: 20-4980-01
[Via Email](#)

Drumheller Resiliency Flood Mitigation
224 Centre Street
Drumheller, Alberta
T0J 0Y4

Attention: Darwin Durnie
Chief Resiliency and Flood Mitigation Officer

Dear Mr. Durnie:

Re: Town of Drumheller Resiliency and Flood Mitigation Dike D – Schumacher Lift Station
Pre-construction Survey (Wildlife Sweep) Amendment Letter

1. INTRODUCTION

Rangeland Environmental Services Ltd. (Rangeland) was retained by Drumheller Resiliency and Flood Mitigation (DRFM) Office to conduct pre-construction surveys (wildlife sweep) of the project area in SW 12-29-20 W4M (the Project), located in the Town of Drumheller, Alberta. The project includes the Schumacher Lift Station area of Dike D with the purpose of protecting the landowners and Town of Drumheller from loss due to flooding along the Red Deer River. Approval to proceed with the survey was provided by Mr. Mitchell Wright from DRFM on April 30, 2021.

In accordance with the *Master Schedule of Standards and Conditions* (MSSC), Rangeland was commissioned by DRFM to conduct a pre-construction survey on freehold land. Although the proposed project is not located on Crown land and the MSSC does not apply, a pre-construction survey was completed as a best management practice and to fulfill regulatory requirements during the breeding bird window of April 15 – August 31.

The objective of the pre-construction survey was to determine wildlife presence, including species with special conservation status, and to identify important wildlife habitat features (e.g., mineral licks, raptor nests, den sites, leks, hibernacula, etc.) within the immediate area (i.e., project footprint plus 100 m) that may be impacted by project construction as per:

- MSSC approval standard 1600:
“The Disposition Holder must conduct a complete an immediate Wildlife Sweep of the Lands subject to the disposition prior to any activity, as per the “Wildlife Sweep Protocol”

This letter report summarizes the methods and results of the pre-construction survey and any mitigation recommendations based on the findings.

2. METHODS

The Energy Development Planning (EDP) report was reviewed to identify any sensitive features or sensitivity layers (AER 2021a) (Appendix A). A search of the Fish and Wildlife Management Information System (FWMIS) (AEP 2021b) (Appendix B) was also completed to identify any potential species with special conservation status that may occur in the area.

The pre-construction survey covered the Project's disturbance area and a 100 m buffer (project area) to account for raptor nests. The pre-construction survey was conducted on foot at a slow (<2 km/hr.), steady pace with "informed", "meandering" transects while watching and listening for bird activity suggesting nesting (e.g., nest building, territorial behavior). Incidental observations of wildlife (i.e., auditory/visual), evidence of wildlife use (e.g., tracks, scat/pellets, browse), and non-nest wildlife habitat features (e.g., mineral licks, dens, leks, hibernacula, etc.) were recorded during the nest sweep. The UTM coordinates of identified nests (active and inactive) and species with conservation or control status were recorded and photographs were taken when applicable.

3. RESULTS

The Project area include residential streets, the Red Deer River, and the river's riparian zone. Vegetation within the riparian area consisting of poplar trees (*Populus sp.*), Saskatoon bushes (*Amelanchier alnifolia*), non-native grasses including Kentucky bluegrass (*Poa pratensis*), smooth brome (*Bromus inermis*), and common dandelion (*Taraxacum officinale*). The Project area is in the Grassland Natural Region, Grassland Northern Fescue Natural Sub-Region, and the Sensitive Raptor, Burrowing Owl, and Sharp-tailed Grouse Wildlife Ranges.

A Rangeland Wildlife Specialist (Don Hodges, R.T. Biol.) conducted a pre-construction survey of the Project area on May 3, 2021 from 10:30h to 12:00h. During the pre-construction survey, the temperature was approximately 12°C with partly cloudy skies and wind speeds less than 10 km/hour. Due to the timing of the sweep (early in the breeding bird window), nineteen (19) species were identified including sixteen (16) birds: American crow - *Corvus brachyrhynchos*, American coot – *Fulica americana*, American robin – *Turdus migratorius*, black-billed magpie - *Pica hudsonia*, black-capped chickadee - *Poecile atricapillus*, blue-winged teal – *Anas discors*, Canada goose – *Branta canadensis*, house sparrow – *Passer domesticus*, merlin – *Falco columbarius*, blue jay – *Cyanocitta cristata*, downy woodpecker – *Picoides pubescens*, rock dove – *Columbia livia*, mallard – *Ana platyrhynchos*, northern flicker – *Colaptes auratus*, red-breasted nuthatch – *Sitta canadensis* and song sparrow – *Melospiza melodia* and one (1) mammal: eastern gray squirrel – *Sciurus carolinensis*. None of the species observed have special conservation status.

A second pre-construction sweep was conducted on May 16, 2021 from 10:30h to 12:00h by a Rangeland Wildlife Specialist (Sarah Goodman Dipl. EP). During the second pre-construction survey, the temperature was approximately 20°C with clear skies and wind speeds less than 10 km/hour. Thirteen (13) birds were observed including: alder flycatcher - *Empidonax alnorum*, American crow - *Corvus brachyrhynchos*, American robin - *Turdus migratorius*, black-billed magpie - *Pica hudsonia*, black-capped chickadee - *Poecile atricapillus*, Canada goose – *Branta canadensis*, Chipping sparrow - *Spizella passerine*, Clay-coloured sparrow - *Spizella pallidahouse*, house sparrow – *Passer domesticus*, mallard – *Ana platyrhynchos*, northern flicker – *Colaptes auratus*, red-breasted nuthatch – *Sitta canadensis*, Ring-necked pheasant - *Phasianus colchicus*. Alder flycatcher are listed as sensitive and have a special conservation status.



Ungulate tracks were observed during the survey mostly along the Red Deer River bank. Little to no ungulate signs (tracks and scat) were observed within the actual Project footprint. An inactive song bird stick nest was observed within the Project area (12U 381921E, 5702611N). No bird activity was observed at the stick nest. An old, inactive beaver lodge was observed in the bank of the Red Deer River below the Schumacher Lift Station within the Project area. No beaver activity was observed at the lodge.

4. RECOMMENDATIONS

The pre-construction surveys provided the opportunity to review wildlife presence and habitat use in the project area. During the first sweep on May 3, 2021, no species with special conservation status or active wildlife habitat features were detected. Based on the results of the sweep, site-specific mitigation measures are not warranted for spring construction. During the second sweep on May 16, 2021, one species with special conservation status was observed and no active wildlife habitat features were detected. Based on the results of the second sweep, it is recommended the tree cutting in the area be completed as soon as possible. It is recommended crew members continue to do sweeps of the site before starting construction each day. It is also recommended that a wildlife specialist complete a pre-construction wildlife sweep before the start of each new construction activity during the breeding bird season (April 15 – August 31).

No active nests were identified during either of the pre-construction surveys. Construction activities fall within the breeding bird season for the majority of species (*i.e.*, April 15 – August 31). It is recommended that tree and shrub removal within the Project area commence within five (5) days, or sooner, of this pre-construction survey to ensure no new breeding bird activity establishes. This will ensure compliance with the *Migratory Birds Convention Act*, the *Species at Risk Act*, and the *Alberta Wildlife Act* (GOC 1994, GOC 2002, GOA 2015). As the Project area overlaps with the Sensitive Raptor, Burrowing Owl and Sharp-tailed grouse Wildlife Ranges, any observations of active raptor nests, burrows, and/or leks, should be reported to Rangeland immediately and construction activities stopped until further notice.

Many of the shrubs and trees are being left on site. This will create new habitat for nesting birds. It is recommended these downed trees and shrubs are not disturbed by construction. If they will be disturbed a wildlife sweep is recommended before doing so.

As a general recommendation, ensure all construction vehicles and equipment stay within the Project boundaries to minimize disturbance to surrounding wildlife habitat. Conduct construction activities efficiently to maintain a tight schedule and reduce the duration of activities that may potentially disrupt wildlife. Prohibit construction personnel from feeding/harassing wildlife.

Contact Rangeland or Alberta Environment and Parks in the event that any active nests, dens or species with special conservation status are observed during construction to determine if mitigation measures are warranted.

5. CLOSING

No active wildlife habitat features were identified during the pre-construction survey of the Project and 100 m buffer. Recommendations on regulatory compliance and best management practices are outlined in Section 4.

Please retain this report as proof that the pre-construction survey was conducted and forward it to Alberta Environment and Parks, if requested. If you have any questions or comments regarding this pre-construction survey, please contact Don Hodges by email at dhodges@rangeland.co or by telephone at 403-463-0509.



Sincerely,

RANGELAND ENVIRONMENTAL SERVICES LTD.

Prepared by,

Reviewed by,



Sarah Goodman Dipl, EP.
Senior Project Manager, Wildlife Technician



Marcie Legault, B.Sc., P.Biol.
Operations Manager, Senior Fisheries Biologist



6. REFERENCES

Alberta Energy Regulator. (2021). *Energy Development Planning Analysis*. Alberta Energy Regulator.

Alberta Environment and Parks (AEP). 2013. Sensitive Species Inventory Guidelines. Available at: <https://open.alberta.ca/publications/sensitive-species-inventory-guidelines>

Alberta Environment and Parks (AEP). 2021b. Fish and Wildlife Management Information System Internet Mapping Tool. <Viewed May 2021> http://xnet.env.gov.ab.ca/imf/imf.jsp?site=fw_mis_pub

Government of Alberta (GOA). 2015. Wildlife Act. R.S.A. (2000), C2-10, Schedule; AR 134/2002; AR 173/2003; AR 1888/2005; AR 71/2008

Government of Alberta (GOA). 2021. Master Schedule of Standards and Conditions. February 8, 2021.

Government of Canada (GOC). 2002. Species at Risk Act. S.C. 2002, C. 29

Government of Canada (GOC). 1994. Migratory Birds Convention Act. (1994), C. 22, M-7.01



Appendix A
EDP Report



Company Name/BA ID: Rangeland Conservation Service Ltd.

Project: 20-4980 Wildlife Sweep

Report #: 9762

Report Date: May 02, 2021

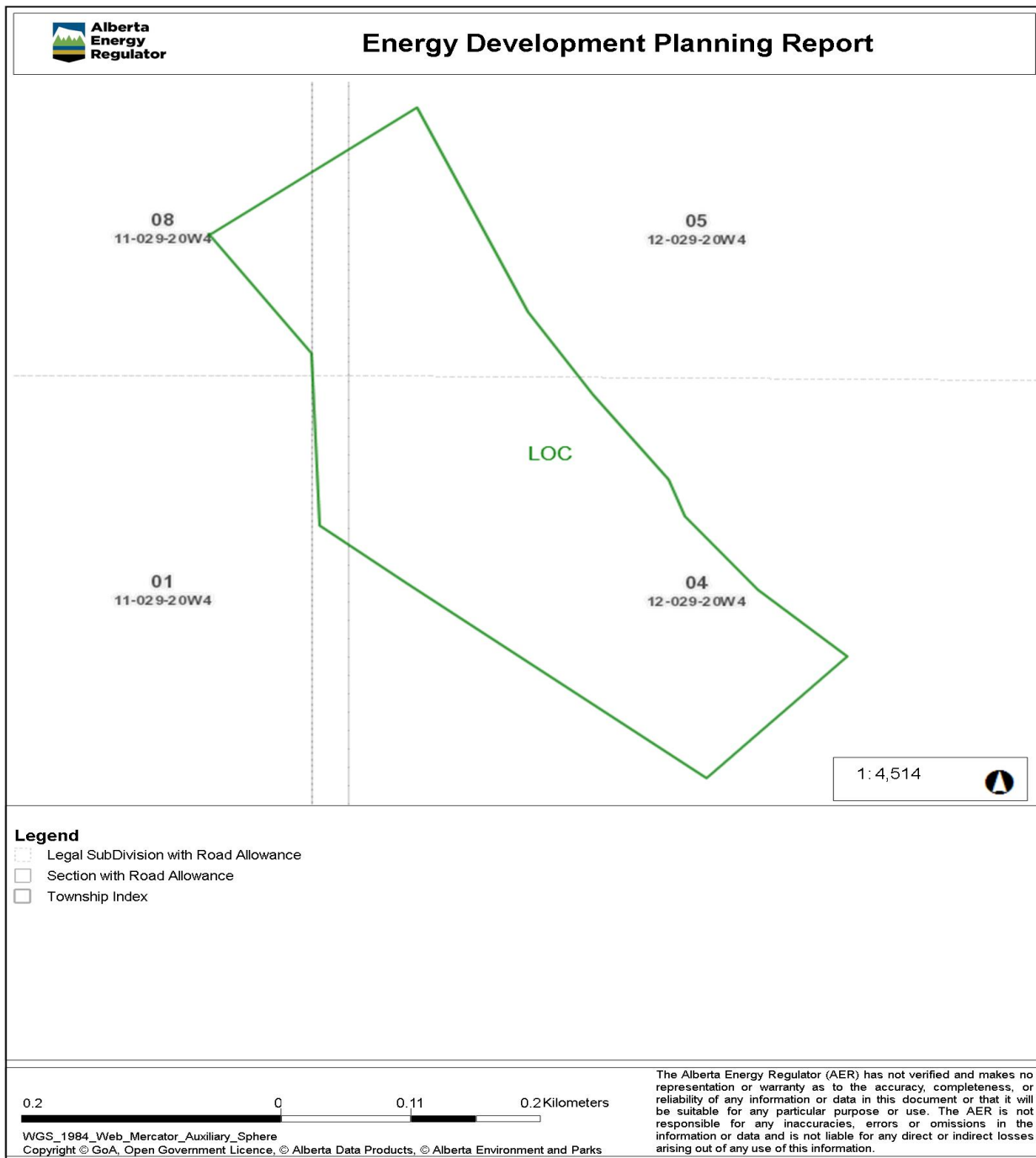
Responsibility of Applicants:

It is the applicant's responsibility to conduct a full review of the generated EDP Report, ensuring that you have a full understanding of the defined standards and conditions, and any limitations as may also be imposed by any other law or Order of the Province or the Government of Canada that may impact on the proposed use of the land.

Disclaimer:

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Activity #: 1
Disposition: LOC
Purpose: Research, Monitoring and Education
Activity: Water Observation / Monitoring - Industrial Use



Legal Locations Intersected

Quarter	Section	Township	Range	Meridian
SE	11	29	20	4
SW	12	29	20	4

Section 1: Registered Applications and Interests

Note for Report: These are not comprehensive and only what is available geospatially at time of report. Please refer to a current Public Land Standing Report for a complete listing and to make application.

Reservations/Notations

Disposition Number	Holder	Status	Purpose	Restriction	Restriction Exceptions
		Unknown/Undetermined			

All Other Registered Applications and Interests

Disposition Number	Disposition Type	Holder	Status
NULL			

Section 2: Intersection Information

Category	Layer	Name/Description	Additional Information and Details
Cadastral and Land Ownership	Crown Ownership	Private Titled	Surface dispositions can only be applied for on Provincial Public Land managed by AER.
Cadastral and Land Ownership	Crown Ownership	Municipal THE CITY OF DRUMHELLER Titled	Surface dispositions can only be applied for on Provincial Public Land managed by AER.
Historical Resources	Historic Resource Value	5 a, p	
Land	Green White Areas	White Area	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions.
Regional or Higher Level Plan	Land-Use Framework Boundaries	Red Deer	Ensure activity aligns with approved Regional Plans.
Regional or Higher Level Plan	IRP Subregional	Red Deer River Corridor Integrated Management Plan	Ensure activity aligns with Higher Level Plans or Variance required
Vegetation	Natural Regions	Grassland	Specific approval standards and conditions of approval may apply as per the Master Schedule of Standards and Conditions. See Section 3 of Report.
Vegetation	Natural Sub-Regions	Grassland Northern Fescue	Specific approval standards and conditions of approval may apply as per the Master Schedule of Standards and Conditions. See Section 3 of Report.
Wildlife	Burrowing Owl Range	Burrowing Owl	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions. See Section 3 of Report.
Wildlife	Sensitive Raptor Range	Prairie Falcon	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions.
Wildlife	Sensitive Raptor Range	Ferruginous Hawk	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions.
Wildlife	Sensitive Raptor Range	Golden Eagle	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions.
Wildlife	Sharp-tailed Grouse Survey	Sharp-tailed Grouse	Specific approval standards and conditions of approval will apply as per the Master Schedule of Standards and Conditions. See Section 3 of Report.
Legal Locations Intersected	EDP Quarter Section		

Section 3: Operating Standards and Conditions

LAND

Land Management

- 1013-AS The Disposition Holder must not construct observation wellsite's to a total area greater than 0.56 hectares, inclusive of all incidental activities* required for the construction and operation of the wellsite.
- 1030-AS Where an Integrated Resource Plan or a Reservation/Protective Notation identifies a greater set back, the greater set back will prevail.
- 1031-AS Where a Higher Level Plan* exists, the Disposition Holder must follow any direction provided within that plan.
- 1033-AS With the exception of pipelines, for activities that fall within any Protective Notation (PNT) lands with a purpose code 400 Series encompassing a section of land (259 hectares) or less, located in the Provincial White Area, the Disposition Holder must construct all activities within lands previously disturbed or cleared. Where no previous disturbance exists, activities must occur within 100 metres of the PNT.
- 1040 The Disposition Holder must repair or replace any improvements immediately that were damaged as a result of the Activity on the Lands to pre-existing dispositions to the pre-existing condition. Damages to tame pastures must be repaired within one growing season.
- 1041 The Disposition Holder must maintain proper drainage of surface water.
- 1044-AS The Disposition Holder must not locate activities within 45 metres from the top of any coulees* with the exception of activities such as; access, pipelines and linear easements crossing those features.

- 1049 The Disposition Holder must remove all garbage and waste material from this site.
- 1053 The Disposition Holder must not enter the boundaries of any research or sample plot. Unless consent is received from the holder.
- 1061 Where FireSmart activities are considered, the Disposition Holder must follow Information Letter - "Authorization of FireSmart Activities on Public Land" as amended from time to time.

Vegetation

- 1300 The disposition holder must manage all regulated weeds to the satisfaction of the regulatory body.
- 1302 The Disposition Holder must remove all deciduous or coniferous merchantable timber from the Activity as per the following utilization standards;
- Deciduous Timber: 15 centimetres Base/10 centimetres Top
- Coniferous Timber: 15 centimetres Base/11 centimetres Top
and haul said timber to the location of end use.
- 1304 For fire control purposes on forested lands, the Disposition Holder must dispose of excess coarse woody debris* not utilized for rollback* or stockpiled for reclamation*.

Soil

- 1356 The Disposition Holder must not conduct the Activity during adverse ground conditions*.
- 1357 The Disposition Holder must prevent erosion* and sedimentation on to adjacent* Lands or Water bodies * that results from the activity.
- 1359-AS The Disposition Holder must not remove from the lands topsoil* or subsoil* unless approved in writing by the Regulatory Body.
- 1360 Where activities have occurred on the Lands that do not involve minimal disturbance* construction, the Disposition Holder must salvage topsoil* for land reclamation as follows:
a. salvage all topsoil* from:
i. mineral soils;
ii. shallow organic soils* and;
iii. reclaimed soils.
b. where the depth of the topsoil* is less than 15 centimetres, the topsoil* and part of the subsoil* to a total depth of 15 centimetres must be salvaged, unless the upper subsoil* is considered chemically unsuitable*.
- 1363 All reclamation material* must be considered suitable as defined in the May 2001 Salt Contamination Assessment Guidelines and meet the February 2016 Alberta Tier 1 Soil and Groundwater Remediation Guidelines, as amended or replaced from time to time.
- 1365 The Disposition Holder must store reclamation material* in accordance with all of the following:
a. reclamation material* must not be placed beneath the ground surface or buried in any way;
b. coarse woody debris* stored for reclamation purposes for greater than 12 months must be mixed with topsoil*; and
c. topsoil* and subsoil* must be stored separately.
- 1366 For progressive reclamation* the Disposition Holder must retain reclamation material* to be replaced at the active operational area at the time of final reclamation*.
- 1367 The Disposition Holder must not mix wood chips with any reclamation material*.
- 1368 The Disposition Holder must not apply wood chips to the lands at a depth greater than five (5) centimetres.
- 1369 The Disposition Holder must manage wood chips in accordance with the directive ID 2009-01 Management of Wood Chips on Public Land as amended from time to time.
- 1370 The Disposition Holder must not store piles or windrows of reclamation material* within standing timber.
- 1371 The Disposition Holder must not use soil sterilant on the Lands.

WATER

Watercourse/Waterbody

- 1402-AS The Disposition Holder must not conduct the Activity within the following watercourse* setbacks from the top of the breaks:
- intermittent watercourses* including springs must have a setback of at least 45 metres;
 - small permanent watercourses* must have a setback of at least 45 metres and;
 - large permanent watercourses* must have a setback of at least 100 metres.
- 1403-AS For all site activities, paralleling linear activities or pipeline bore sites, the Disposition Holder must not conduct the Activity within the following water body* setbacks from the disposition edge:
- non-permanent seasonal wetlands* must have a setback of 45 metres of undisturbed vegetation from the bed and shore and;
 - semi-permanent and permanent ponds, wetlands*, shallow open water ponds, and lakes must have a setback of 100 metres from the bed and shore*.
 - intermittent watercourses* including springs must have a setback of at least 45 metres.
 - small Permanent watercourses* must have a setback of at least 45 metres.
 - large Permanent watercourses* must have a setback of at least 100 metres.
- 1412 The Disposition Holder must acquire an authorization for access (off-disposition) for water withdrawal activities.
- 1419 For use of equipment within the bed of a water body*, the Disposition Holder must prior to operations follow the "Decontamination Protocol for Work in or Near Water", as amended from time to time.
- 1420 The Disposition Holder must provide a completed Record of Decontamination form as proof of decontamination to the Regulatory Body upon request.

RECLAMATION

Reclamation

- 1451 For progressive reclamation* on forested lands*, the Disposition Holder must replace all reclamation materials* that have been salvaged in accordance with all of the following:
- all salvaged subsoil* must be replaced, then all salvaged topsoil*; and
 - reclamation materials* must be replaced over the entire progressive reclamation area*; unless otherwise approved in writing by the Regulatory Body.
- 1453 The Disposition Holder must complete temporary reclamation* on the Lands within 1 growing season of construction phase* for all topsoil* and subsoil* stockpiles required for final reclamation*.
- 1454 The Disposition Holder must prior to seeding herbaceous seed in forested* or peatlands* submit a Request for Seeding in writing to the Regulatory Body that contains all of the following:
- rationale for conducting seeding of herbaceous species*;
 - a description of the proposed site for seeding including information with respect to the following:
 - whether the Lands are subject to high erosion* and;
 - whether the Lands are prone to invasion from agronomic or weed species.
 - a proposed seed mix composition for re-vegetation of the Lands in accordance with the Native Plant Revegetation Guidelines for Alberta, 2001 as amended or replaced from time to time or a rationale for alternate species;
 - provide a seed certificate in accordance with the Seed Act for the seed mix to be used for re-vegetation* and;
 - any other information requested by the Regulatory Body.
- 1455 The Disposition Holder must only conduct seeding in accordance with the written authorization of the Regulatory Body.

- 1456 The Disposition Holder must when seeding cultivated lands*:
a. use agronomic or forage seed that meets or exceeds Certified #1 as outlined in the Seeds Act and Seeds Regulations;
b. use seed mixes that are free of species listed in the Weed Control Act and;
c. provide a seed certificate to the Regulatory Body within 30 days of request.
- 1459 The Disposition Holder must not have slash and rollback* accumulations within five (5) metres of the perimeter of the disposition boundary, greater than the percent ground cover on the surrounding undisturbed forest floor.
- 1463 For final reclamation*, the Disposition Holder must complete all of the following:
a. contour the disturbed land to the pre-disturbance landform or to the landform approved by the Regulatory body;
b. replace all stockpiled subsoil*, then replace all stockpiled topsoil*;
c. spread all coarse woody debris* on forested lands* and;
d. reclamation materials* must be replaced over the entire area from which they were removed unless otherwise approved in writing by the Regulatory Body.
- 1464 The Disposition Holder must reclaim the Lands to the pre-disturbance land use type* unless otherwise authorized in writing by the Regulatory Body.

SPECIES AT RISK

Wildlife

- 1600 The Disposition Holder must conduct a complete and immediate Wildlife Sweep* of the Lands subject to the disposition prior to any activity, as per the "Wildlife Sweep Protocol".
- 1601 The Disposition Holder must submit observations from a Wildlife Sweep* to the Fisheries and Wildlife Management Information System (FWMIS) and notify the issuing Regulatory Body in writing upon request that the Wildlife Sweep* was completed.
- 1602-AS The Disposition Holder must incorporate a buffer* zone of a minimum width of 100m undisturbed vegetation, where an established buffer* does not already exist for any and all key habitat features including, but not limited to leks*, nests, dens and houses identified in the Wildlife Sweep*.
- 1603 When Wildlife Surveys* are required, the Disposition Holder must submit results as defined by the sensitive species inventory guidelines from Wildlife Survey* to the Fisheries and Wildlife Management Information System (FWMIS).
- 1608 The Disposition Holder must incorporate buffers*, setbacks and activity timing restrictions for any and all key habitat features including, but not limited to leks*, nests, dens and houses identified in the wildlife survey*.
- 1611-AS The Disposition Holder must conduct appropriate pre-construction wildlife* surveys as per the direction of the Sensitive Species Inventory Guidelines as amended from time to time where you intersect any of the following sensitive species;
- Sensitive Raptor Range
- Burrowing Owl Range
- Sensitive Snake Hibernacula Range
- Sharp-tailed Grouse Survey
- Swift Fox Range
- Ords Kangaroo Rat Range
- Piping Plover Waterbodies
- Endangered and Threatened Plant Ranges
- Grassland and Parkland Natural Regions (Grassland Bird Surveys)

Sensitive Raptor

- 1651-AS The Disposition Holder must not construct any activities within 1000 metres of a sensitive raptor active nest* with the following exception:
• When construction and operational activities occurs between July 16th and March 14th, the Disposition Holder must not conduct the activity within 100 metres from a sensitive raptor active nest*.

Burrowing Owl

- 1703-AS Between August 16 and March 31, the Disposition Holder must not conduct any activities* within 50 metres of an active burrowing owl den* or nest*.
- 1704 Between April 1 and August 15, the Disposition Holder must not conduct any operational maintenance* within 500 metres of an identified burrowing owl nest* .

Sharp-Tailed Grouse

- 1743-AS The Disposition Holder must ensure that noise resulting from the activity does not exceed 49 decibels within 500 metres of a sharp-tailed grouse lek when the level of noise is measured 10 meters from the source of the noise.
- 1744-AS The Disposition Holder must not construct any activities* within 500 metres from the perimeter of an active or known sharp-tailed grouse lek from March 15 to June 15 of any given year.
- 1745-AS The Disposition Holder must not construct any activities* within 100 metres from the perimeter of an active or known sharp-tailed grouse lek from June 16 to March 14 of any given year.
- 1746-AS Between March 15 and June 15, the Disposition Holder must only conduct operational* work or maintenance between 10:00 a.m. and 4:00 p.m for sites located 100 metres to 500 metres from a sharp-tailed grouse lek.

Other Sensitive and Endangered Species

- 1880-AS Between April 15 and August 15, the Disposition Holder must not conduct any activities* within 100 metres of an active nest site for Federally listed species.

NATURAL REGIONS

Grassland and Parkland Natural Region

- 2054 On native grasslands*, the Disposition Holder must not crimp straw subject to the following exceptions:
- a. the straw used for crimping must be sourced from a native species from the same ecological range site as the Lands and;
 - b. the weed analysis for the straw used for crimping must comply with the Weed Control Act, as amended or replaced from time to time.
- 2061 For activities that fall within native grasslands* as identified by the Northern Fescue Subregion that requires Assisted Natural Recovery*, the Disposition Holder must submit a request for Assisted Natural Recovery in writing to the Regulatory Body that contains all of the following:
1. Rationale for conducting Assisted Natural Recovery*;
 2. A description of the proposed site for Assisted Natural Recovery* including information with respect to the following:
 - a. whether the Lands are subject to high erosion;
 - b. whether the soil on the Lands has been disturbed to an area greater than 50m²;
 - c. whether the Lands are prone to invasion from agronomic or weed species;
 3. A proposed seed mix composition for re-vegetation of the Lands:
 - a. that is consistent with native plant communities that are adjacent to and in the immediate vicinity of the Lands as determined by the Range Plant Communities and Range Health Assessment Guideline for the Northern Fescue Grass Natural Subregion of Alberta, as amended or replaced from time to time; or
 - b. that is consistent with the seed mix composition for the ecological range site of the Lands as provided in The Recovery Strategies for Industrial Development in Native Prairie, Northern Fescue Subregion of Alberta, as amended or replaced from time to time;
 4. Provide a seed certificate in accordance with the Seed Act for the seed mix to be used for Assisted Natural Recovery* and;
 5. Any other information requested by the Regulatory Body.

- 2068 The Disposition Holder must not construct activities on native grassland within the Grassland and Parkland Natural Region between April 15th and August 15th, unless grassland bird surveys are completed as per the Sensitive Species Inventory Guidelines Protocol as amended.
- 2069 The Disposition Holder must not conduct any activities within 100 metres of an active nest site between April 15th and August 15th for the following species:
- a. short-eared owl;
 - b. mountain plover;
 - c. long-billed curlew;
 - d. upland sandpiper;
 - e. sprague's pipit;
 - f. chestnut-collared longspur;
 - g. loggerhead shrike or;
 - h. bank swallow.
- 2070-AS On native grasslands* identified in the Central Parkland and Northern Fescue layer, the Disposition Holder must conduct a conservation assessment as outlined in Conservation Assessments in Native Grassland Strategic Siting and Pre-disturbance Site Assessment Methodology for Industrial Disturbances as amended or replaced from time to time.
- Upon request by the Regulatory Body, the Disposition Holder must submit the conservation assessment report in writing to the Regulatory Body within 30 days of the request.
- 2071-AS The Disposition Holder must not conduct activities on loamy soils* in the Central Parkland and Northern Fescue layer as confirmed by the Disposition Holder through the required pre-disturbance Conservation Assessment, subject to the following exceptions:
- a. using existing disturbances for activities and;
 - b. locating activities adjacent to existing occupied dispositions and non-native vegetation areas.

Appendix B
FWIMIS Species Summary Report



Fish and Wildlife Internet Mapping Tool (FWIMT)

(source database: Fish and Wildlife Management Information System (FWMIS))

Species Summary Report

Report Date: 04-May-2021 08:48

Species present within the current extent

Fish Inventory

BURBOT
 EMERALD SHINER
 FLATHEAD CHUB
 GOLDEYE
 LAKE CHUB
 LAKE STURGEON
 LONGNOSE DACE
 LONGNOSE SUCKER
 MINNOW FAMILY
 MOONEYE
 NORTHERN PIKE
 PRUSSIAN CARP
 QUILLBACK
 RIVER SHINER
 SAUGER
 SHORthead REDHORSE
 SILVER REDHORSE
 SUCKER FAMILY
 TROUT-PERCH
 WALLEYE
 WHITE SUCKER

Wildlife Inventory

BALD EAGLE
 BURROWING OWL
 LONG-TAILED WEASEL
 NORTHERN LEOPARD FROG
 PRAIRIE RATTLESNAKE
 SHORT-EARED OWL
 SWIFT FOX
 WESTERN SMALL-FOOTED BAT

Stocked Inventory

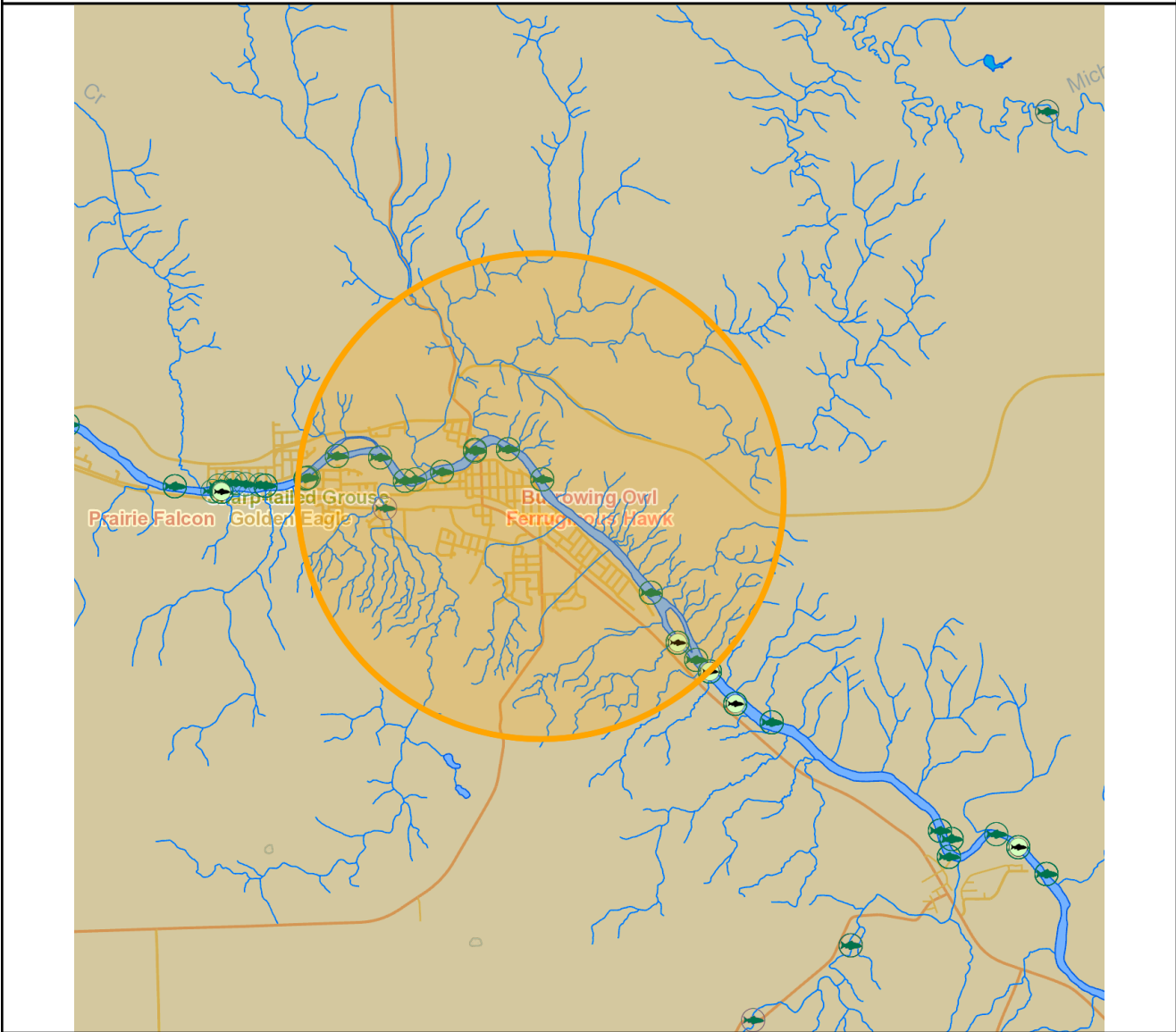
No Species Found in Search Extent

Buffer Extent

Centroid (X,Y)	Projection	Centroid (Qtr Sec Twp Rng Mer)	Radius or Dimensions
659687, 5701509	10-TM AEP Forest	SW 12 29 20 4	3 kilometers

Contact Information

For contact information, please visit:
<https://www.alberta.ca/fisheries-and-wildlife-management-contacts.aspx>



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