

APPENDIX

D SUPPORTING DOCUMENTS



Groundwater Well Records - GWDRILL Logs

Location: NE17-16-27W
 Well_PID: 195756
 Owner: PRAIRIEVIEW MUNICIPALITY
 Driller: Watkins & Argue Well Drilling
 Well Name: TH 17-Mar
 Well Use: TEST HOLE
 Water Use: PUBLIC/SEMI-PUBLIC
 UTMX: 346846
 UTMY: 5582269
 Accuracy XY: 1 EXACT [<5M] [GPS]
 UTMZ: 474
 Accuracy Z: 4 FAIR - Shuttle at
 Date Completed: 2017 Jun 14

WELL LOG

From (ft.)	To (ft.)	Log
0	1	TOPSOIL
1	3	BLACK CLAY - SOFT,
3	24	BROWN SILTY CLAY TILL,
		& COBBLES
24	30	GREY CLAY TILL WITH
30	50	CLAYEY SILT TILL -
		LAYERS
50	78	SAND AND GRAVEL
78	81	GREY CLAY TILL
81	143	SAND AND GRAVEL-
		FEET
143	147	CLAY TILL - GREY
147	160	DARK GREY SHALE

No construction data for this well.

Top of Casing:

PUMPING TEST

Date: 2017 Jun 14
 Rate: ?? Imp. gallons/minute
 Water level before pumping: 95 ft. below
 Pumping level at end of test: ??
 Test duration: ??? hours, ?? minutes
 Water temperature: ?? degreesF

REMARKS

BOX	70,	BIRTLE MB,	ROM	OCO.	NE
ROAD	75	METERS	OF	E-W	ROAD.

Location: SW21-16-27W

Well_PID: 195764

Owner: PRAIRIEVIEW MUNICIPALITY

Driller: Watkins & Argue Well Drilling

Well Name: TH 17-Aug

Well Use: TEST HOLE

Water Use: PUBLIC/SEMI-PUBLIC

UTMX: 346886

UTMY: 5582695

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ: 495

Accuracy Z: 4 FAIR - Shuttle at Centroid

Date Completed: 2017 Sep 21

WELL LOG

From (ft.)	To (ft.)	Log
0	20	BROWN TILL, WITH SAND AND
20	41	GREY TILL WITH SAND AND
41	71	SAND AND GRAVELMEDIUM
71	94	SAND AND GRAVEL, COARSE
94	100	GREY TILL
100	105	SHALE

No construction data for this well.

Top of Casing:

No pump test data for this well.

REMARKS

BOX 70, BIRTLE MB, ROM 0C0. ON PRIVATE
IN CLEARING.

Location: NW-23-16-27W

Well_PID: 20816

Owner: WADY T

Driller: E & M DRILLING CO. LTD.

Well Name:

Well Use: TEST WELL

Water Use:

UTMX: 350571.3

UTMY: 5583472

Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1973 May 8

WELL LOG

From (ft.)	To (ft.)	Log
0	22	YELLOW CLAY
22	117.9	BLUE CLAY
117.9	118.9	BEDROCK SHALE

No construction data for this well.

Top of Casing: 0 ft. below ground

No pump test data for this well.

Location: SE20-16-27W

Well_PID: 195758

Owner: PRAIRIEVIEW MUNICIPALITY

Driller: Watkins & Argue Well Drilling

Well Name: TH 17-Apr

Well Use: TEST HOLE

Water Use: PUBLIC/SEMI-PUBLIC

UTMX: 346863

UTMY: 5583174

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ: 487

Accuracy Z: 4 FAIR - Shuttle

Date Completed: 2017 Jun 14

WELL LOG

From (ft.)	To (ft.)	Log
0	1	TOPSOIL
1	55	BROWN CLAY TILL GRAVEL
55	80	DARK GREY -

No construction data for this well.

Top of Casing:

No pump test data for this

REMARKS

BOX 70, BIRTLE MB, ROM 0C0.

Location: NW34-16-27W

Well_PID: 151318

Owner: RM OF BIRTLE

Driller: UNKNOWN

Well Name:

Well Use: PRODUCTION

Water Use: Domestic

UTMX: 348630

UTMY: 5586756

Accuracy XY: 1 EXACT [<5M] [GPS]

UTMZ: 511

Accuracy Z: 4 FAIR - Shuttle at Centroid

Date Completed: 1900 Jan 1

No well log data for this well.

No construction data for this well.

Top of Casing:

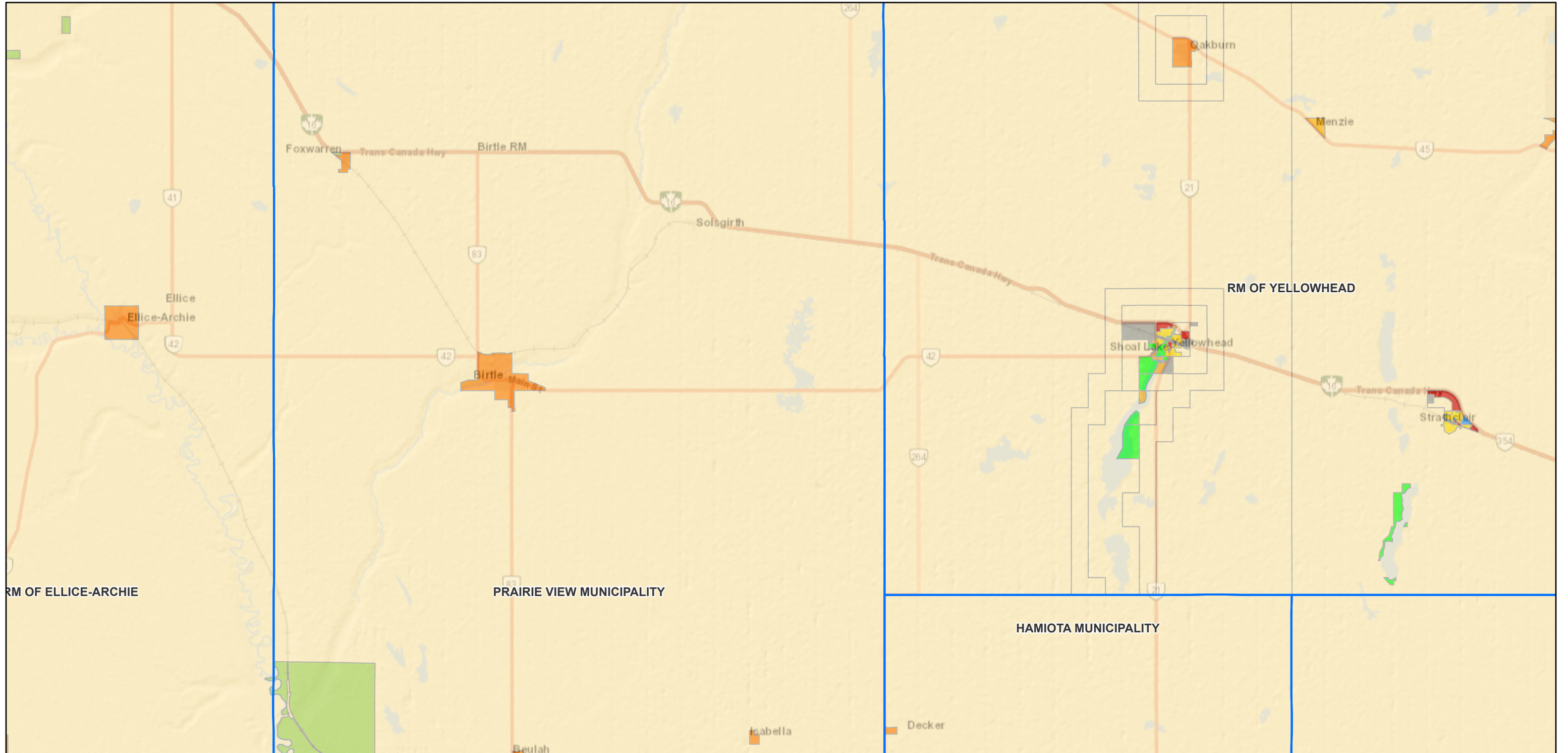
No pump test data for this well.

REMARKS

BOX 70 BIRTLE, WELL IS EAST OF ROAD. DRILL DATE IS INCORRECT.

Landuse, Inidigenous Lands, Mining Sites, Rail

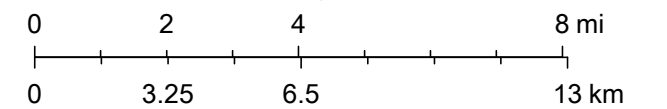
Land Use and Development Map



1/17/2023, 3:16:31 PM

- | | | |
|-------------------------------|-------------------|-----------------------------------|
| Municipal Boundaries | Rural Residential | Industrial |
| Manitoba Boundary | Residential | Institutional |
| Development Plan Designations | Settlement Centre | Parks, Recreation, and Open Space |
| Rural/Agricultural | Commercial | Reserve Lands |

1:288,895



Esri, HERE, Garmin, NGA, USGS, NPS, NRCan



Point



Query



Point



Distance



Edit



Export Drawings



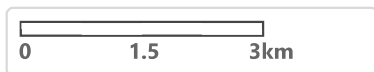
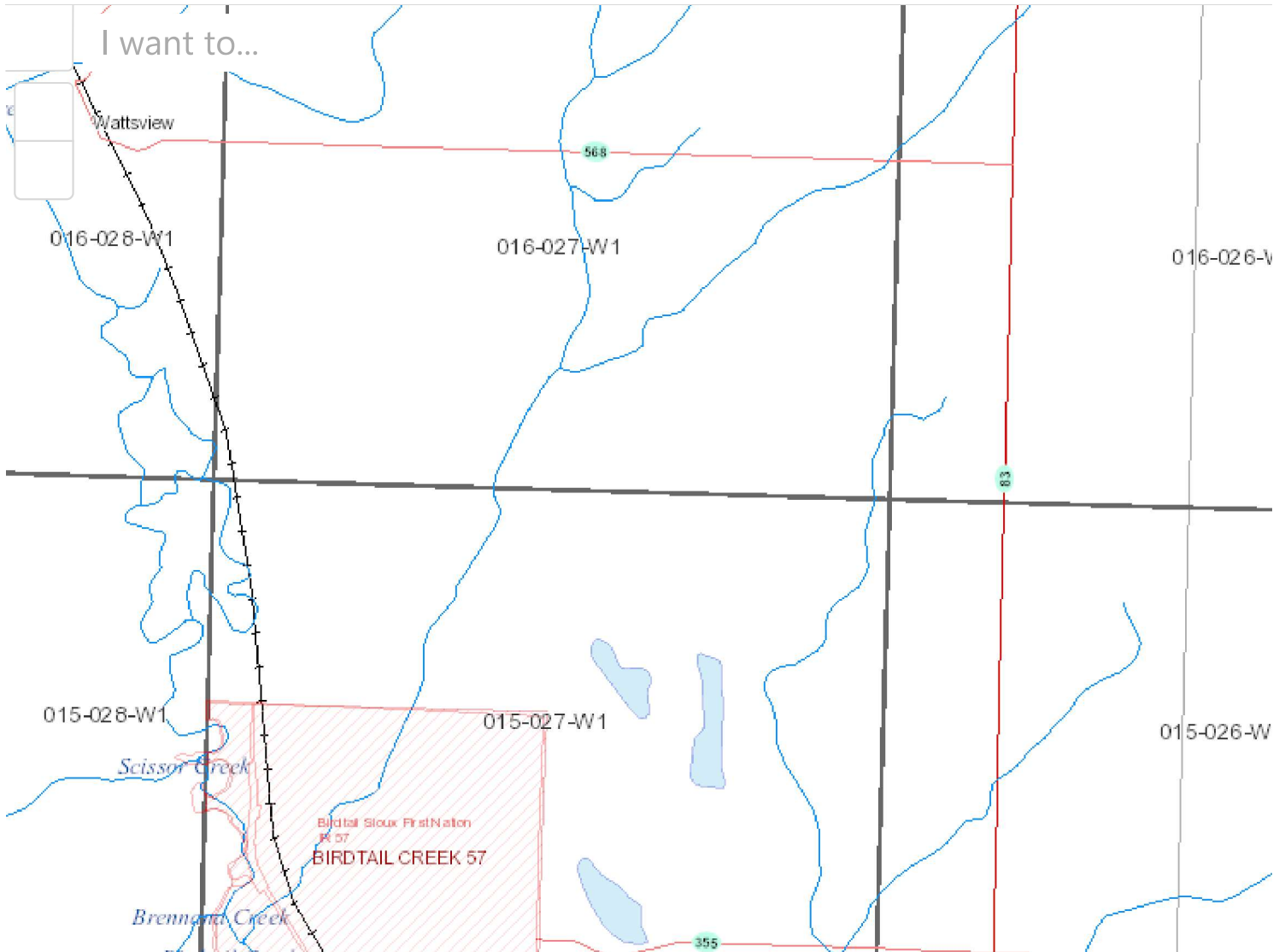
Plot Coordinates

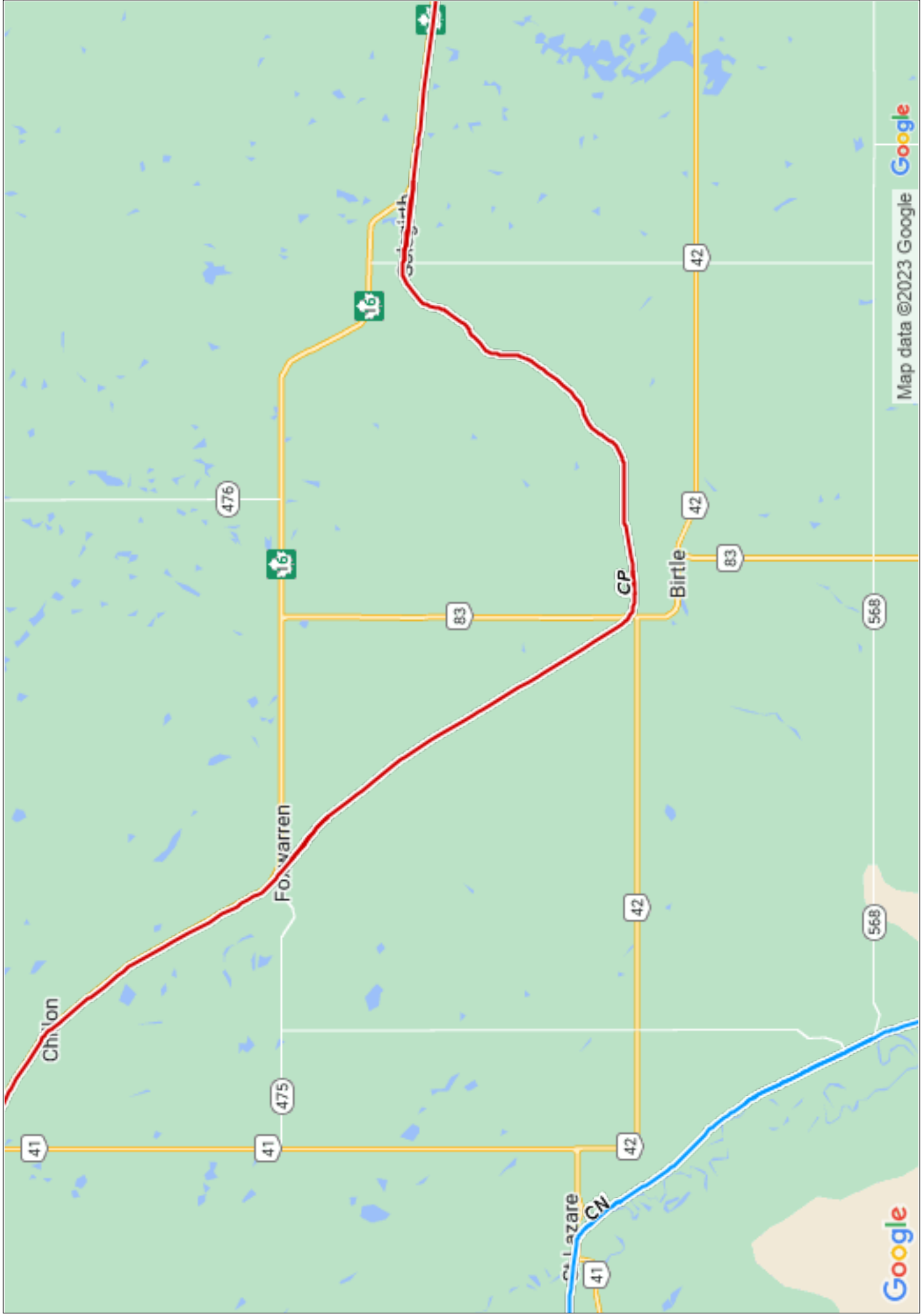
Find Data

Draw

Coordinates

I want to...



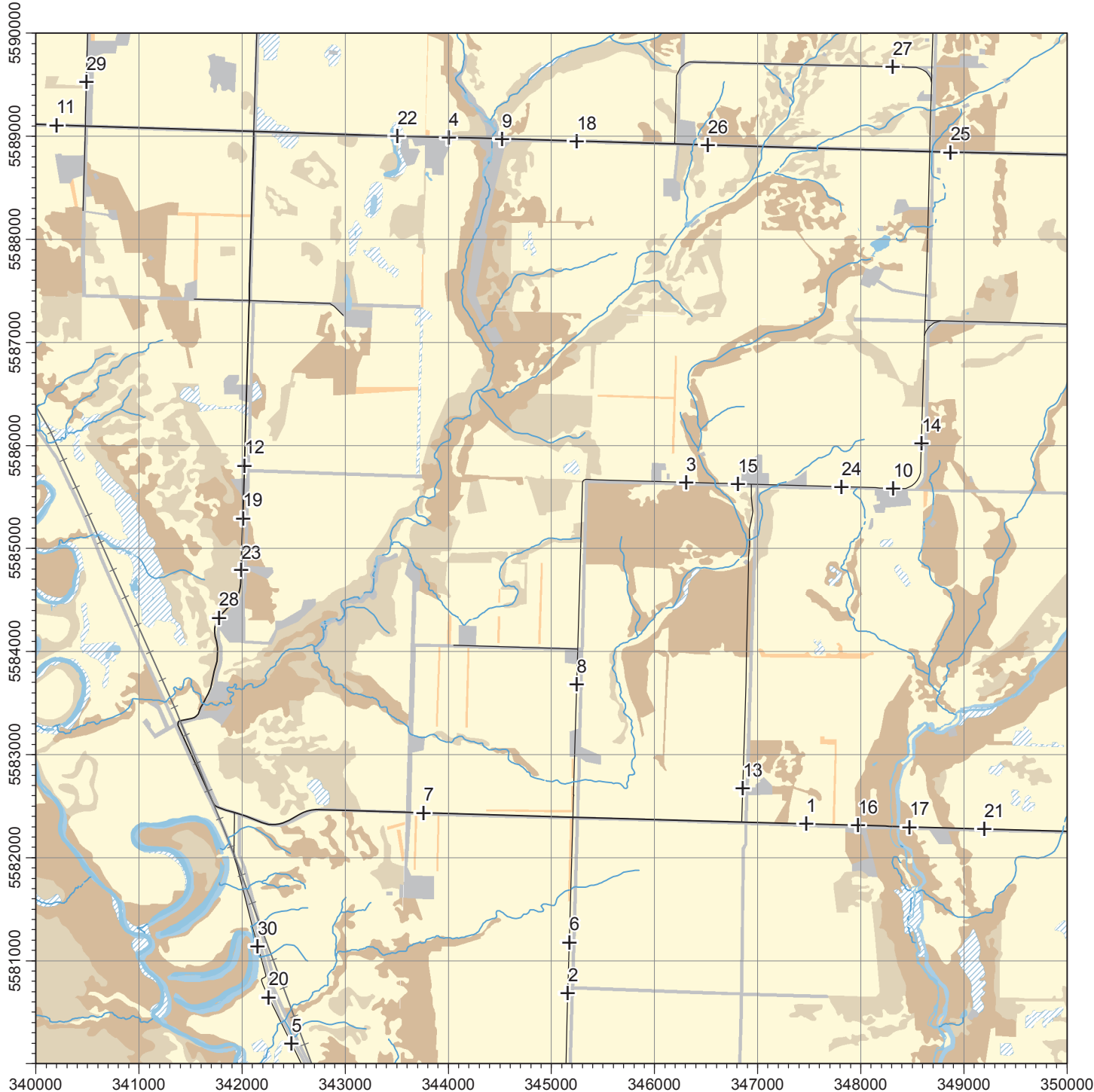


19/01/2023

1:216671

0 5 10 15 km

Breeding Birds - Manitoba Breeding Bird Atlas



Predefined point count coordinates
Coordonnées des points d'écoute prédéterminés

POINT	EASTING UTM Est	NORTHING UTM Nord
1	347473	5582329
2	345160	5580683
3	346307	5585643
4	344007	5588989
5	342480	5580199
6	345175	5581183
7	343761	5582436
8	345245	5583683
9	344522	5588975
10	348315	5585585
11	340199	5589111
12	342024	5585808
13	346858	5582671
14	348590	5586025
15	346809	5585628
16	347973	5582316
17	348475	5582300
18	345247	5588954
19	342008	5585294
20	342260	5580649
21	349200	5582280
22	343507	5589002
23	341992	5584792
24	347814	5585600
25	348870	5588848
26	346518	5588917
27	348309	5589674
28	341775	5584330
29	340489	5589528
30	342152	5581143

Legend	Légende
Expressway or highway	Autoroute ou route nationale (asphaltée)
Regional or local road	Route régionale ou locale (asphaltée ou non)
Rail line	Chemin de fer
Utility corridor	Ligne de transport d'énergie
Watercourse	Rivière ou ruisseau
Mature broadleaf forest	Forêt de feuillus (mature)
Young broadleaf forest	Forêt de feuillus (jeune)
Mature coniferous forest	Forêt de conifères (mature)
Young coniferous forest	Forêt de conifères (jeune)
Mature mixed forest	Forêt mixte (mature)
Young mixed forest	Forêt mixte (jeune)
Shrubland / other	Milieu arbustif / autre
Open wetland	Milieu humide (marais)
Agriculture / open country	Milieu agricole
Urban / unclassified	Milieu urbanisé / non classifié
Water	Eau

Topographic data: Données topographiques :
 © Government of Manitoba © Gouvernement du Manitoba
 © Natural Resources Canada © Ressources naturelles Canada

Cartographic production by Bird Studies Canada
 Production cartographique par Études d'oiseaux Canada

Note: This map is only for use by atlas participants in the context of the project. The project partners are in no way responsible for any inaccuracies, mistakes or omissions in the information that appears on this map.

6° Universal Transverse Mercator (UTM) Projection; Zone 14, Central Meridian -99°; North American Datum 1983 (NAD 83)
 Projection universelle transverse de Mercator (UTM) 6° Zone 14, méridien central -99°;
 Système de référence géodésique nord-américain 1983 (NAD 83)

Avis : cette carte ne doit être utilisée que par les participants au projet de l'Atlas des oiseaux nicheurs du Manitoba, et uniquement dans le cadre du projet. Les responsables du projet d'atlas ne peuvent être tenus responsables de toute inexactitude, erreur ou omission concernant les informations apparaissant sur cette carte.

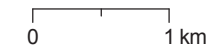




Table 1. MANITOBA BREEDING BIRD ATLAS – BIRD SPECIES WITHIN SQUARE SUMMARY 14LA48

SPECIES	SCIENTIFIC NAME	CATEGORY	SPECIES RANK ¹	SARA ²	COSEWIC ³
Alder Flycatcher	<i>Empidonax alnorum</i>	POSS	S5B	-	-
American Avocet	<i>Recurvirostra americana</i>	POSS	S4B	-	-
American Bittern	<i>Botaurus lentiginosus</i>	POSS	S5B	-	-
American Coot	<i>Fulica americana</i>	POSS	S5B	-	Not at Risk
American Crow	<i>Corvus brachyrhynchos</i>	CONF	S5B,S2S3N	-	-
American Goldfinch	<i>Spinus tristis</i>	POSS	S5B	-	-
American Kestrel	<i>Falco sparverius</i>	POSS	S3S4B	-	-
American Redstart	<i>Setophaga ruticilla</i>	POSS	S5B	-	-
American Robin	<i>Turdus migratorius</i>	CONF	S5B	-	-
American Wigeon	<i>Mareca americana</i>	PROB	S4B	-	-
Bald Eagle	<i>Haliaeetus leucocephalus</i>	POSS	S5B,S3N	-	Not at Risk
Baltimore Oriole	<i>Icterus galbula</i>	PROB	S3S4B	-	-
Bank Swallow	<i>Riparia riparia</i>	CONF	S4B	Threatened	Threatened
Barn Swallow	<i>Hirundo rustica</i>	CONF	S4B	Threatened	Special Concern
Belted Kingfisher	<i>Megaceryle alcyon</i>	POSS	S4B	-	-
Black Tern	<i>Chlidonias niger</i>	POSS	S4B	-	Not at Risk
Black-and-white Warbler	<i>Mniotilta varia</i>	POSS	S5B	-	-
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	POSS	S4S5B	-	-
Black-billed Magpie	<i>Pica hudsonia</i>	POSS	S4	-	-
Blue Jay	<i>Cyanocitta cristata</i>	POSS	S5	-	-
Blue-winged Teal	<i>Spatula discors</i>	CONF	S5B	-	-



Bobolink	<i>Dolichonyx oryzivorus</i>	POSS	S3S4B	Threatened	Special Concern
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	CONF	S4B	-	-
Brown Thrasher	<i>Toxostoma rufum</i>	POSS	S4B	-	-
Brown-headed Cowbird	<i>Molothrus ater</i>	PROB	S5B	-	-
Bufflehead	<i>Bucephala albeola</i>	CONF	S4B	-	-
Canada Goose	<i>Branta canadensis</i>	CONF	S5B	-	-
Canvasback	<i>Aythya valisineria</i>	CONF	S4B	-	-
Cedar Waxwing	<i>Bombycilla cedrorum</i>	POSS	S5B,S1N	-	-
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	POSS	S5B	-	-
Chipping Sparrow	<i>Spizella passerina</i>	POSS	S5B	-	-
Clay-colored Sparrow	<i>Spizella pallida</i>	POSS	S5B	-	-
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	POSS	S4B	-	-
Common Grackle	<i>Quiscalus quiscula</i>	POSS	S5B	-	-
Common Raven	<i>Corvus corax</i>	CONF	S5	-	-
Common Yellowthroat	<i>Geothlypis trichas</i>	POSS	S5B	-	-
Downy Woodpecker	<i>Dryobates pubescens</i>	POSS	S5	-	-
Eastern Bluebird	<i>Sialia sialis</i>	CONF	S4S5B	-	Not at Risk
Eastern Kingbird	<i>Tyrannus tyrannus</i>	CONF	S4B	-	-
Eastern Phoebe	<i>Sayornis phoebe</i>	CONF	S5B	-	-
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	POSS	S3S4B	-	-
Eastern Wood-Pewee	<i>Contopus virens</i>	POSS	S3B	Special Concern	Special Concern
European Starling	<i>Sturnus vulgaris</i>	POSS	SNA	-	-
Gadwall	<i>Mareca strepera</i>	CONF	S5B	-	-
Gray Catbird	<i>Dumetella carolinensis</i>	CONF	S5B	-	-
Great Blue Heron	<i>Ardea herodias</i>	POSS	S5B	-	-



Great Crested Flycatcher	<i>Myiarchus crinitus</i>	POSS	S4B	-	-
Green-winged Teal	<i>Anas crecca</i>	PROB	S5B	-	-
Hairy Woodpecker	<i>Dryobates villosus</i>	POSS	S5	-	-
Horned Lark	<i>Eremophila alpestris</i>	CONF	S3B	-	-
House Sparrow	<i>Passer domesticus</i>	POSS	SNA	-	-
House Wren	<i>Troglodytes aedon</i>	POSS	S5B	-	-
Killdeer	<i>Charadrius vociferus</i>	CONF	S5B	-	-
Lark Sparrow	<i>Chondestes grammacus</i>	POSS	S4S5B	-	-
Least Flycatcher	<i>Empidonax minimus</i>	POSS	S5B	-	-
LeConte's Sparrow	<i>Ammospiza leconteii</i>	POSS	S5B	-	-
Lesser Scaup	<i>Aythya affinis</i>	POSS	S5B	-	-
Mallard	<i>Anas platyrhynchos</i>	CONF	S5B	-	-
Marsh Wren	<i>Cistothorus palustris</i>	POSS	S5B	-	-
Merlin	<i>Falco columbarius</i>	POSS	S5B,S2N	-	-
Mountain Bluebird	<i>Sialia currucoides</i>	POSS	S2B	-	-
Mourning Dove	<i>Zenaida macroura</i>	PROB	S4B	-	-
Northern Flicker	<i>Colaptes auratus</i>	POSS	S4B	-	-
Northern Harrier	<i>Circus hudsonius</i>	POSS	S4B	-	Not at Risk
Northern Pintail	<i>Anas acuta</i>	POSS	S5B	-	-
Northern Shoveler	<i>Spatula clypeata</i>	CONF	S5B	-	-
Northern Waterthrush	<i>Parkesia noveboracensis</i>	POSS	S5B	-	-
Orange-crowned Warbler	<i>Leiothlypis celata</i>	POSS	S5B	-	-
Ovenbird	<i>Seiurus aurocapilla</i>	POSS	S5B	-	-



Pied-billed Grebe	<i>Podilymbus podiceps</i>	POSS	S5B	-	-
Red-eyed Vireo	<i>Vireo olivaceus</i>	POSS	S5B	-	-
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	POSS	S3B	Endangered	Endangered
Red-necked Grebe	<i>Podiceps grisegena</i>	PROB	S5B	-	Not at Risk
Red-tailed Hawk	<i>Buteo jamaicensis</i>	POSS	S5B	-	Not at Risk
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	CONF	S5B	-	-
Ring-necked Duck	<i>Aythya collaris</i>	PROB	S5B	-	-
Rock Pigeon	<i>Columba livia</i>	PROB	SNA	-	-
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	POSS	S5B	-	-
Ruffed Grouse	<i>Bonasa umbellus</i>	POSS	S4S5	-	-
Savannah Sparrow	<i>Passerculus sandwichensis</i>	POSS	S5B	-	-
Sedge Wren	<i>Cistothorus stellaris</i>	POSS	S5B	-	Not at Risk
Sharp-shinned Hawk	<i>Accipiter striatus</i>	POSS	S4S5B		Not at Risk
Sharp-tailed Grouse	<i>Tympanuchus phasianellus</i>	POSS	S5	-	-
Song Sparrow	<i>Melospiza melodia</i>	CONF	S5B	-	-
Sora	<i>Porzana carolina</i>	POSS	S5B	-	-
Spotted Sandpiper	<i>Actitis macularius</i>	POSS	S5B	-	-
Sprague's Pipit	<i>Anthus spragueii</i>	POSS	S2B	Threatened	Threatened
Swainson's Hawk	<i>Buteo swainsoni</i>	POSS	S3S4B	-	-
Swamp Sparrow	<i>Melospiza georgiana</i>	POSS	S5B	-	-
Tree Swallow	<i>Tachycineta bicolor</i>	CONF	S5B	-	-
Turkey Vulture	<i>Cathartes aura</i>	POSS	S4B	-	-
Veery	<i>Catharus fuscescens</i>	POSS	S4B	-	-
Vesper Sparrow	<i>Pooecetes gramineus</i>	CONF	S5B	-	-

Warbling Vireo	<i>Vireo gilvus</i>	POSS	S5B	-	-
Western Kingbird	<i>Tyrannus verticalis</i>	POSS	S3S4B	-	-
Western Meadowlark	<i>Sturnella neglecta</i>	POSS	S3S4B	-	-
White-breasted Nuthatch	<i>Sitta carolinensis</i>	POSS	S5	-	-
Wild Turkey	<i>Meleagris gallopavo</i>	POSS	SNA	-	-
Willet	<i>Tringa semipalmata</i>	POSS	S3S4B	-	-
Wilson's Snipe	<i>Gallinago delicata</i>	POSS	S5B	-	-
Wood Duck	<i>Aix sponsa</i>	POSS	S5B	-	-
Yellow Warbler	<i>Setophaga petechia</i>	POSS	S5B	-	-
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	POSS	S5B	-	-
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	PROB	S4S5B	-	-

¹NatureServe (2022)

- NA = Not Applicable
- S2 = Imperiled
- S3 = Vulnerable
- S4 = Apparently Secure
- S5 = Secure

²SARA = Species at Risk Act

³COSEWIC = Committee on the Status of Endangered Wildlife in Canada

Species of Conservation Concern - MB CDC Database Records

SEARCH CRITERIA	SITE	SCINAME	COMNAME	S_RANK	ESEA	SARA	COSEWIC	FIRSTOBS	LASTOBS	EO_RANK	REPACC	NOTES
Within 2km radius of	Birtle water pipeline	Dolichonyx oryzivorus	Bobolink	S354B			Threatened	2014-07-02		2020-06-26	E - Verified extant (via	Medium
Within 2km radius of	Birtle water pipeline	Hirundo rustica	Barn Swallow	S4B			Threatened	2013-07-10		2017-06-30	E - Verified extant (via	Medium
Within 2km radius of	Birtle water pipeline	Anthus spragueii	Sprague's Pipit	S2B	Threatened		Threatened	2013-07-10		2013-07-10	E - Verified extant (via	Medium
Within 2km radius of	Birtle water pipeline	Ammodramus savannarum	Grasshopper Sparrow	S253B				1988-05-31		2021-07-08	E - Good estimated via	Medium
Within 2km radius of	Birtle water pipeline	Strophius undulatus	Creepers	S5				1938?		2013-08-06	E - Verified extant (via	Medium
Within 2km radius of	Birtle water pipeline	Festuca hallii	Plains Rough Fescue	S3				1950-07-01		1950-07-01	H - Historical	Low
Within 2km radius of	Birtle water pipeline	Centronyx bairdii	Baird's Sparrow	S1B	Endangerec	Special Conc	Special Concern	1985-07-02		2013-06-11	H - Historical	High
Records in general area of	Birtle water pipeline	Ambystoma mavortium	Western Tiger Salamander	S455			Special Conc	2017-08-01		2017-08-01	E - Verified extant (via	Very High
Records in general area of	Birtle water pipeline	Ammodramus savannarum	Grasshopper Sparrow	S253B				1988-05-31		2021-07-08	E - Good estimated via	Medium
Records in general area of	Birtle water pipeline	Anthus spragueii	Sprague's Pipit	S2B	Threatened	Threatened	Threatened	1988-05-31		1988-05-31	H - Historical	High
Records in general area of	Birtle water pipeline	Bombus terricola	Yellow-banded Bumble Bee	S355			Special Conc	1923-05-30		1923-05-30	H - Historical	Low
Records in general area of	Birtle water pipeline	Bromus porteri	Porter's Chens	S233			Special Conc	1995-07-04		1995-07-04	B? - Possibly good est	Low
Records in general area of	Birtle water pipeline	Calcarius ornatus	Chestnut-collared Longspur	S152B	Endangerec	Threatened	Endangerec	1990-04-25		2020-06-26	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Centronyx bairdii	Baird's Sparrow	S1B	Endangerec	Special Conc	Special Concern	1985-07-02		2013-06-11	H - Historical	High
Records in general area of	Birtle water pipeline	Dolichonyx oryzivorus	Bobolink	S354B			Threatened	2014-07-02		2020-06-26	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Eremophila alpestris	Horned Lark	S3B				2020-06-25		2020-06-25	CD - Fair or poor estim	High
Records in general area of	Birtle water pipeline	Euphorbia geyeri	Geyer's Spurge	S2				1951-07-07		2011-08-24	H - Historical	Low
Records in general area of	Birtle water pipeline	Festuca hallii	Plains Rough Fescue	S3				1950-07-01		1950-07-01	H - Historical	Low
Records in general area of	Birtle water pipeline	Hirundo rustica	Barn Swallow	S4B			Threatened	2013-06-04		2013-06-25	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Lanius ludovicianus excu	Prairie Loggerhead Shrike	S1B	Endangerec	Threatened	Threatened	1987-07-22		1987-07-22	H - Historical	Medium
Records in general area of	Birtle water pipeline	Lasignona complanata	White Heelplitter	S3				2021-08-12		2021-08-12	E - Verified extant (via	High
Records in general area of	Birtle water pipeline	Melanerpes erythroceph	Red-headed Woodpecker	S1B	Threatened	Endangerec	Endangerec	2020-06-26		2020-06-26	EC - Good or fair estim	High
Records in general area of	Birtle water pipeline	Odocoileus hemionus	Mule or Black-tailed Deer	S3			Threatened	1978-11-01		2022-01-12	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Podiceps auritus	Horned Grebe	S1B			Special Conc	2013-05-17		2013-06-04	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Riparia riparia	Bank Swallow	S4B			Threatened	2012-07-17		2012-07-17	E - Verified extant (via	Medium
Records in general area of	Birtle water pipeline	Strophius undulatus	Creepers	S5				1938?		2013-08-06	E - Verified extant (via	Medium

Table Definition List of species from the Biotics database determined by search criteria and site location to fulfill a data request
File Type Microsoft Excel
Table Note None

Attribute	Definition	Additional Information
SEARCH CRITERIA	Criteria used to conduct a species search applied to the site or area of interest.	
SITE	Location or area of interest provided in a data request used to conduct a species search by applying various criteria.	
SCINAME	Scientific name.	
COMNAME	Common name.	
S_RANK	Subnational (provincial) conservation status ranks. Ranks the species's rarity on a scale of 1 (rare) to 5 (common).	S Rank
ESEA	Provincial Endangered Species and Ecosystems Act listing.	MB ESEA
SARA	Federal Species at Risk Act listing.	Species at Risk Act (justice.gc.ca)
COSEWIC	Committee on the Status of Endangered Wildlife in Canada recommendation.	Cosewic / Cosepac - Home
FIRSTOBS	Date species first observed for the element occurrence (YYYY-MM-DD).	
LASTOBS	Date species last observed for the element occurrence (YYYY-MM-DD).	
EO_RANK	The Element Occurrence Rank Specifications are an assessment of the viability of species occurrences, or the ecological integrity of community occurrences.	
REPACC	Value that indicates the average level of accuracy of the Source Features for an EORep. Accuracy varies on the basis of the area observed to be occupied by the Element (Field Observation) relative to the area contained within the footprint of the Source Feature.	
NOTES	Notes or comments related to the listed species	

[MB Species and Ecosystem at Risk](#)
[Species at risk public registry - Canada.ca](#)