



25.36 FOX-3, DEWAR LAKES

25.36.1 LOCATION AND TOPOGRAPHY

Latitude: 68° 38' 39.21" N
Longitude: 71° 11' 16.59" W
Elevation: 518 m

Location: This Long Range Radar (LRR) site, including the summit and lower sites, occupies about 1,643 hectares of land. The airstrip in the valley is approximately 152 m above sea level. The host LSS for FOX-3 is LSS-F, Hall Beach. Flight time from the LSS is 3 hours 30 minutes by helicopter under normal conditions. An abandoned airstrip is located at this site, as well as a helipad. The airstrip requires minimal repair in order to be in suitable conditions for the annual C-130 airlift re-supply of fuel.

Terrain: The hill top (about 518 m above sea level) is in an area indicating general glacial scouring. Surface materials include bedrock, till, and fluvial materials with till being the most common. The area is strewn with boulders up to 1 m across. The airstrip area features fluvial deposits of gravels, sands, and silts. Vegetation is relatively scarce with some patches of wood rush, grass, and wildflowers. The wetter areas may consist of sedges and moss.

Topography: The most prominent topographical features include rolling hills, separated by broad intervening depressions, and an interconnecting lake system (the Dewar Lakes) running through a deep valley.

25.36.2 CLIMATE

No average temperature and precipitation information is available from Environment Canada for this site.

Precipitation:	Annual Average:	244 mm
	Snowfall:	145 cm
	Rainfall:	99 mm

25.36.3 SITE POPULATION

This LRR site was transitioned to “unattended” status on 29 August 1995.

25.36.4 LAND USE

The site is located in the Nunavut Settlement Area in the Qikiqtaaluk administrative region. DND has been transferred the management, charge, and direction of the property by DIAND for the life of the NWS. Auyuittuq National Park is about 200 km to the southeast.

Three archaeological sites have been documented at FOX-3. On the north end of Dewar Lakes, approximately 1.5 km south of the airstrip, tent rings, caches, and hearths have been reported. At least some of these features may be Thule in affiliation. Although the site is undisturbed, abandoned machinery was observed in the site area. Another site is located north of the airstrip. An inukshuk

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FOX-3, DEWAR LAKES (SUMMIT)



FOX-3, DEWAR LAKES (APRON)

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LOCID #	FACILITY NAME
DEW W20D	AVIATION/JET A-1 TANK
DEW W20E	AVIATION/JET A-1 TANK
DEW W21E	REFUELLER TANK
DEW W22A	PGS/JET-A1 TANK
DEW W22B	PGS/JET-A1 TANK
DEW W22C	PGS/JET-A1 TANK
DEW W22D	PGS/JET-A1 TANK
DEW W22E	PGS/JET-A1 TANK
DEW W22F	PGS/JET-A1 TANK
DEW W22G	PGS/JET-A1 TANK
DEW W22H	PGS/JET-A1 TANK
DEW W22I	PGS/JET-A1 TANK
DEW W22J	PGS/JET-A1 TANK
DEW W29A	FIRE PROTECTION SYSTEM
DEW W30A	SECURITY SYSTEM
DEW W31A	GENERAL GROUNDS
DEW W32A	OPEN STORAGE AREA - POL
DEW W32B	OPEN STORAGE AREA - DISPOSAL
DEW W32C	OPEN STORAGE AREA - MISC.
DEW W35A	CONTAINMENT DYKES
DEW W43A	SITE SIGNS AND FLAG POLES

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Sources Include:

1. Initial Environmental Evaluation of the North Warning System Project, Vols 1 & 2. Monenco-Eyrettechnics Group, 1987 (Vol. 1), 1989 (Vol.2).
2. Environmental Cleanup Study of 21 DEW Line Sites in Canada. UMA, June 1991.
3. NWS Environmental Study, Vol. 2: Site Analysis. Royal Roads Military College Environmental Sciences Group (Reimer), June 1991.
4. Nunavut Land Claims Agreement, 1993.
5. NWS Site Fuel Distribution & Storage Facility Current Conditions Report., June 2002.
6. NWS Site Record Drawings.
7. Nunavut Wildlife Resource and Habitat Values. Nunami Jacques Whitford Limited. October 2008.
8. NWS Site Fuel Storage Requirements Report. , October 2009.

Table 25.36-8 FOX-3 LOCID Register

LOCID #	FACILITY NAME
DEW B01A	RADAR/COM- ATRAIN
DEW B02A	ACCOMMODATION BLDG ARMCO
DEW B03A	TECH SERV/POWER BLDG
DEW B06A	POL PUMPHOUSE - SUMMIT
DEW B06B	POL PUMPHOUSE - AIRFIELD
DEW B10A	GARAGE
DEW B13A	WAREHOUSE
DEW B14A	HANGAR (HELI) - COLD STORAGE
DEW B15A	STORAGE BUILDING POL
DEW B20A	MATERIAL STORAGE BUILDING
DEW B27A	HEATED VEHICLE STORAGE BLDG
DEW W01A	ROADS
DEW W02A	SANITARY SEWERS/SEWER LINES
DEW W02B	SEWAGE LAGOON
DEW W03B	WATER DISTRIBUTION
DEW W06A	POWER DIST./CABLE GROUND
DEW W07A	ILLUMINATED WINDCONE(s)
DEW W08A	POL DISTRIBUTION LINES
DEW W09A	SGT PLATFORM/FOUNDATION MAIN
DEW W09C	VARIOUS ANTENNA STRUCTURES
DEW W09D	SGT PLATFORM/FOUNDATION STANDBY
DEW W10A	HELIPAD(S)
DEW W13A	TVRO FOUNDATION/ANTENNA
DEW W14A	WEATHER EQUIPMENT
DEW W15A	RUNWAY AREA - APRON
DEW W16A	LIGHTING - AIRFIELD

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Table 25.36-7 FOX-3 Bulk Fuel Components

COMPONENT	USE	DESCRIPTION
Tanks DEW W22A & DEW W22B	PGS	Single walled, horizontal, steel 69,200L tanks at the summit contained in a single gravel dike with impermeable liner (1995). Dike volume meets the required code capacity with membrane under the tank. Used for both PGS and Aviation fuel (DEW Line Vintage)
Tanks DEW W22C & DEW W22D	PGS	Field-erected, vertical, single bottom, steel 246,000L Summit tanks (1956-1957) contained in a single gravel dike with impermeable liner (1995). The dike volume meets the required code capacity. The membrane in the dike attaches to the perimeter of the tank concrete foundation but does not pass under bottom of tank and does not meet CEPA requirements (see NWS Site Fuel Distribution & Storage Facility Current Conditions June 21, 2002).
Tank DEW W22E	PGS	Field-erected, vertical, single bottom, steel 246,000L Apron tank (1956-1957) contained in a gravel dike with impermeable liner (1995). This tank was permanently removed from service and was physically removed in 2012.
Tank DEW W21C	PGS	Double-walled, horizontal, steel 4,125 L tank at the summit (2006).
Tanks DEW W22F to DEW W22J	PGS	90,000 L double walled, horizontal, tanks at summit. Installed in 2012.
Tanks DEW W20D & DEW W20E		Single walled, horizontal, steel 69,200L tanks at the Apron (DEW Line vintage) contained in a single gravel dike with impermeable liner (1995). Dike volume meets the required code capacity with membrane under the tank.
Pipelines DEW W08A		<ul style="list-style-type: none"> a. 9,000 m of 50 mm aboveground piping from apron tanks to summit tanks (1956-57) b. 46.8 m of 50 mm underground piping from B-Train to Armco (1956-57) c. 50 mm aboveground piping from B-Train to Armco (1956-57) d. 140 m of 50 mm aboveground and underground piping from summit pumphouse to DEW W22A & DEW W22B e. 22 m of 50 mm aboveground piping from DEW W20E to abandoned Helipad f. 40 m of 50 mm underground piping from summit pumphouse to warehouse g. 75 m of 50 mm underground piping from summit pumphouse to garage h. 10 m of 50 mm aboveground piping from garage to vehicle refueller i. 10 m of 50 mm aboveground piping from DEW W22A & DEW W22B to TSB (mid-1990s) j. 40 m of 100 mm underground piping from refueling point to DEW W20D & DEW W20E k. 420 m of aboveground and underground piping from apron pumphouse to/from DEW W22E
Summit pumphouse DEW B06A		Roper 3600GHBRV no.2A rotary gear type positive displacement electric pump. Maximum allowed pressure from pressure relief valve setting is 55 p.s.i.
Apron pumphouse DEW B06A		Perkins Diesel Engine Model 4-236, Pump Roper 1-H 75, Type 15 Spec 5

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25.36.12 BULK FUEL STORAGE AND DISTRIBUTION

Fuel is delivered to the site annually via C-130 Hercules airlift from FOX-M. The fuel is transferred directly into the apron tanks and then transferred to the summit tanks, via the 50 mm fuel transfer line. After each transfer, the majority of the fuel is drained from the line and all the valves are locked.

Table 25.36-6 FOX-3 Bulk Fuel Storage

LOCID	Location	Fuel Usage	Tank Size (L)	Max Fill Volume (L)	Usable Volume (L)
Environment Canada ID # & System Name: EC-00004272, FOX-3 Apron to Summit					
DEWW22A	Summit	PGS	69,200	65,084	63,427
DEWW22B	Summit	PGS	69,200	65,084	63,427
DEWW22C	Summit	PGS	246,000	231,211	213,882
DEWW22D	Summit	PGS	246,000	231,211	213,882
DEWW22F	Airstrip	PGS	90,000	84,528	82,857
DEWW22G	Airstrip	PGS	90,000	84,528	82,857
DEWW22H	Airstrip	PGS	90,000	84,528	82,857
DEWW22I	Airstrip	PGS	90,000	84,528	82,857
DEWW22J	Airstrip	PGS	90,000	84,528	82,857
DEWW21E	Summit	Vehicle Refueller	4,125	3,878	3,770
DEWW20D	Summit	PGS	69,200	65,084	63,427
DEWW20E	Summit	PGS	69,200	65,084	63,427
DEWDAYT1	PGS	A-train	1,135	1,067	1,067
DEWDAYT2	PGS	Garage	1,135	1,067	1,067
DEWDAYT3	PGS	Garage	1,135	1,067	1,067
DEWDAYT4	PGS	HVS	1,135	1,067	1,067
DEWDAYT5	PGS	HVS	1,135	1,067	1,067
DEWDAYT6	PGS	Warehouse	1,135	1,067	1,067
DEWDAYT7	PGS	Warehouse	1,135	1,067	1,067
Summit Totals:			778,600	731,971	690,577
Airstrip Totals:			452,270	424,774	416,419
Site Totals:			1,230,870	1,156,745	1,106,996

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Table 25.36-4 FOX-3 Chemical Spill Kit

CAT I.D.	QTY.	ITEM	PART NUMBER
1067552	C/W	CHEMICAL SPILL KIT	CL007
1023947	4 PR	COVERALLS, W/ HOOD & BOOT COVERS	SEA PA5228
1012151	4 PR	GLOVES, CHEMICAL RESISTANT	111E220
1063898	1 BX	RAGS, COTTON, 50 LB.	31-25
1062334	4	SIGN, HAZARDOUS CHEMICAL	70852
1022625	4	RESPIRATOR, HALF-FACE	655X013
1022622	12	CARTRIDGE FILTERS, VAPOUR	655F155

Table 25.36-5 FOX-3 Asbestos Response Kit

CAT I.D.	QTY.	ITEM	PART NUMBER
1067551	C/W	ASBESTOS RESPONSE KIT	CL008
1023947	8 PR	COVERALLS, W/ HOOD & BOOT COVERS	SEA PA5228
1063146	2 BG	GLOVEBAG. HORIZONTAL, ZIP-LOCK	10HZ
1050629	1 PG	GLOVEBAG. TEE, ZIP-LOCK	10TZ
1049979	1 PG	GLOVEBAG. HORIZ. W/VALVE ZIP-LOCK	10VLZ
1060069	1 PG	GLOVEBAG. VERTICAL, ZIP-LOCK	10VZ
1063031	1 BG	ADHESIVE, BAKELITE	120-18
1063032	1	CANVAS SHEET 5 FT. X 6 FT.	00
1022622	12	CARTRIDGE FILTERS, VAPOUR	655F155
1060534	2	CAUTION LABELS (BRADY)	85383
1011756	14 RL	DUCT TAPE	290
1057731	2	EXPANSION STRIP 6" X 54 "	0654EX
1012151	10 PR	GLOVES, CHEMICAL RESISTANT	111E220
1013228	1 BX	GLOVES, SURGICAL 100/BOX	431104
1011596	3	PLASTIC PAIL	L-P-65
1008712	2 RL	SHEET, PLASTIC 144" W X 1200" LG.	VISQUEENCLEAR
1066387	1	PRESSURE SPRAYER, 1 GAL	60071
1063898	1	RAG, COTTON	31-25
1022625	4	RESPIRATOR, HALF-FACE	655X013
1009663	1	SHEARS, METAL TIN SNIPS	270-10
1063027	1 SE	SHOULDER STRAP, 30" LG	30SS
1063040	1 SE	SHOULDER STRAP, 60" LG	60SS
1063637	1	DISINFECTANT, 1 GAL	EMP425-1
1019931	3	UTILITY KNIFE	U-3-C
1061205	4	WARNING SIGN (BRADY)	92288
1061986	1	WIRE, FLEXSAW	20FS
1018252	1 PL	WETTING AGENT, SURFACTANT 5 GAL.	CP-225
1062413	6 EA	BAG, PLASTIC. YELLOW	ASBA003
1064301	4	BRUSH, PAINT 4 IN. WIDE	310-100

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If the system is activated by either the release of a fusible link in the canopy which will flood the grills and canopy with agent, or by a manual pull station located on the canopy, the main FACP will:

- will be signaled;
- will set off the alarm bells and horns; and
- send a signal to notify the NWSCC.

25.36.11 KITS**Table 25.36-2 FOX-3 Kits and Locations**

KIT	LOCATION
Fire Fighting Equipment	Garage, Mod 11, Mod 19
Safety Boards	Garage, Mod 01, Mod 05 & Heated Vehicle Storage
Search and Rescue	Mod 12, Receiving Room
POL Spill	Warehouse B13A/Storage Building B27A
Chemical/Asbestos Spill	Warehouse B13A
First Aid Supplies	Strategic locations throughout site

Table 25.36-3 FOX-3 Fuel Spill Kit

CAT ID.	QTY.	ITEM	PART NUMBER
1067553	C/W	POL SPILL CLEANUP KIT No. 1	CL006
1021477	20 BG	ABSORBENT, MATERIAL 50 QT. BAG	48210
1021572	10 RL	ABSORBENT, MATERIAL 3/8" X 36" X 144 FT	OB150
1044124	150 BG	ABSORBENT, MATERIAL 50 QT. BAG	48230
1021664	1 CS	ABSORBENT, SHEET 200 SH/CS 17"X19"X3/8"THK	OB100
1059485	8 EA	BOOM, OIL 40 FT. TOTAL LG.	48225
1062419	2 EA	PITCHFORK	R41645
1018094	1 BX	PLASTIC BAG 100 BAGS/BOX	35-50-3B
1008712	4 RL	PLASTIC POLY 6 MIL, 1000 SQ.METERS	VISQUEENCLEAR
1021141	3 EA	HALF MASK, DISPOSABLE TYPE	GT-9999-3005-7
1009276	1 RL	ROPE, POLYPROPYLENE 600 FT.	MIL-R-24049
1013919	20 PR	RUBBER GLOVES, LINED	GL4513 (M)
1061292	2 PR	SAFETY GOGGLES	6367
1062475	2 EA	SHOVEL, ROUND MOUTH	GGG-S-326
1022135	1 EA	SLIPTANK, PORTABLE 100 GAL.	TANK100
1003058	2 EA	SALVAGE DRUMS 85 GAL.	PS-26368

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If the FACP fire alarm is activated, the system will:

- a. activate the fire doors in the activated zone;
- b. set off the alarm bells and horns throughout the site;
- c. activate the station siren to notify personnel outside; and
- d. send a signal to notify the NWSCC.

The Pyrene CO2 system is located in the C&E and the Power Plant area.

If a single detector from the Pyrene System is activated, the system will:

- a. set off the alarm bells and horns in that area;
- b. send a signal to the main FACP, which activates the main fire alarm panel and will set off the alarm bells and horns throughout the site; and
- c. send a signal to notify the NWSCC.

If a second device in the C&E area is activated, the following will occur:

- a. the FACP will initiate shutdown of the exhaust fans and radar;
- b. the FACP will initiate the discharge of CO2 into the zone where alarm initiated from;
- c. the FACP will activate the discharge strobes above the entrance way to the fire zone;
- d. the discharge pressure switch will activate; and
- e. send a signal to notify the NWSCC.

If a second device in the Power Plant on the site is activated, the following will occur:

- a. the FACP will initiate the shutdown of the exhaust fan & power;
- b. the FACP will initiate the generator shut down;
- c. the FACP will initiate CO2 discharge into the power plant;
- d. the FACP will initiate the discharge strobes above the entrance way to the fire zone;
- e. the discharge pressure switch will activate; and
- f. send a signal to notify the NWSCC.

The FM-200 Suppression System is located in the Communications Room (Comms Room), and is made up of two 60 lbs cylinders with 48 lbs of agent. The system is supervised by the GE Quick Start Fire Alarm Panel.

If a single device in the Comms Room is activated, the following will occur:

- a. the FACP will initiate evacuation bell within the Comms Room;
- b. the FACP will send a signal to the GE Quick Start FACP which will activate the sites Fire Alarm System; and
- c. the FACP will send a signal to notify the NWSCC.

If a second device in the Comms room is activated, the following will occur:

- a. the FACP will initiate the discharge sequence; and
- b. the discharge strobes will activate above the entrance way to the Comms Rooms.

The Kitchen Range Guard System is located in the dining area, and is made up of one cylinder containing 11.3 L (2.5 Gal) of agent. The system is supervised by the GE Quick Start Fire Alarm Panel.

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Species Common Name	Species Binomial Nomenclature	Time frame of Occurrence	SARA Status ¹	SARA Schedule ²	COSEWIC Designation ³
Snow Bunting	<i>Plectrophenax nivalis</i>	Summer	---	---	---
Snow Goose	<i>Chen caerulescens</i>	Summer	---	---	---
Snowy Owl	<i>Bubo scandiacus</i>	Summer	---	---	Not at Risk
Thayer's Gull	<i>Larus thayeri</i>	Summer	---	---	---
White Rumped Sandpiper	<i>Calidris fuscicollis</i>	Summer	---	---	---
Willow Ptarmigan	<i>Lagopus lagopus</i>	Annual	---	---	---
Yellow-Billed Loon	<i>Gavia adamsii</i>	Summer	---	---	---

Notes:
1 = SARA Status. The federal Species At Risk Act (SARA) classifies species as extinct, extirpated, endangered, threatened, or special concern.
2 = SARA Schedule. The federal Species at Risk Act (SARA) assigns species to Schedule 1, 2 or 3. Schedule 1 is the official List of Wildlife Species at Risk. Schedule 1 species and their residences and critical habitats are protected. Species in Schedule 2 or 3 are not protected under SARA, but they are monitored and their designation is subject to re-assessment.
3 = The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) is a committee of experts that assesses and designates which wildlife species are in some danger of disappearing from Canada. COSEWIC designations are based on status reports. These status reports are comprehensive technical reports that compile and analyze the best available information on a wildlife species' status in Canada and indicates the threats to that wildlife species. COSEWIC classifies species as extinct, extirpated, endangered, threatened, or special concern.
4= Under Nunavut's Wildlife Act, a List of Species at Risk can be established. No species have been listed yet.
5 = --- means there is no classification.

25.36.6 WATER SUPPLY

Water is trucked from a nearby freshwater lake during the summer.

25.36.7 SEWAGE DISPOSAL

Sewage is piped from the holding tank system to the sewage outfall area.

25.36.8 WASTE DISPOSAL

Domestic waste is accumulated on site, then transported to LSS-F for disposal in the Hamlet of Hall Beach's landfill.

25.36.9 ELECTRICAL POWER

Power is generated at this site through three generators, which have the capacity to be synchronized together. Total capacity can vary depending on the site load and the number of DEGs online. This range can vary from 175 kW to 525 kW.

25.36.10 FIRE PROTECTION

Components: The fire protection system consists of:

- Fire Alarm & Detection System;
- CO₂ Fire Suppression Systems;
- FM-200 Fire Suppression System; and
- Portable Fire Extinguisher.

Description: The Fire Alarm Control Panel (FACP) for the main detection system (GE quick start) is located in the dining area.

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and a cache were reported at this location. No disturbance was observed at this site. The remaining recorded site is to the west of the runway and adjacent to the fuel line. There is a grave with an associated cache recorded at this site.

25.36.5 WILDLIFE

Caribou from the Baffin Island herd migrate through the Dewar Lakes area. Arctic foxes and wolves are also seen at FOX-3.

Waterfowl that nest in small shallow ponds in the area include the red-throated loon, tundra swan, greater snow goose, king eider, and oldsquaw. To the south and west of the station are colonies of Sabine's gulls.

Arctic char and lake trout occupy the Dewar Lakes.

Table 25.36-1 shows the wildlife that can be found on or within the vicinity of FOX-3.

Table 25.36-1 Wildlife Species Encountered at or within range of FOX-3 and their classification under SARA, COSEWIC, and Territorial Regulations

Species Common Name	Species Binomial Nomenclature	Time frame of Occurrence	SARA Status ¹	SARA Schedule ²	COSEWIC Designation ³
TERRESTRIAL MAMMALS					
Arctic Fox	<i>Vulpes lagopus</i>	Annual	---	---	---
Arctic Hare	<i>Lepus arcticus</i>	Annual	---	---	---
Caribou, Barren Ground subspecies	<i>Rangifer tarandus groenlandicus</i>	Annual	---	---	---
Grey Wolf	<i>Canis lupus</i>	Annual	---	---	---
Red Fox	<i>Vulpes vulpes</i>	Annual	---	---	---
Wolverine	<i>Gulo gulo</i>	Annual	---	---	Special Concern
BIRDS					
American Golden Plover	<i>Pluvialis dominica</i>	Summer	---	---	---
American Pipit	<i>Anthus rubescens</i>	Summer	---	---	---
Arctic Tern	<i>Sterna paradisaea</i>	Summer	---	---	---
Baird's Sandpiper	<i>Calidris bairdii</i>	Summer	---	---	---
Black-Bellied Plover	<i>Pluvialis squatarola</i>	Summer	---	---	---
Brant	<i>Branta bernicla</i>	Summer	---	---	---
Common Eider	<i>Somateria mollissima</i>	Summer	---	---	---
Common Raven	<i>Corvus corax</i>	Annual	---	---	---
Common Redpoll	<i>Acanthis flammea</i>	Summer	---	---	---
Glaucous Gull	<i>Larus hyperboreus</i>	Summer	---	---	---
Gyr Falcon	<i>Falco rusticolus</i>	Annual	---	---	Not at Risk
Hoary Redpoll	<i>Acanthis hornemanni</i>	Annual	---	---	---
Horned Lark	<i>Eremophila alpestris</i>	Summer	---	---	---
King Eider	<i>Somateria spectabilis</i>	Summer	---	---	---
Lapland Longspur	<i>Calcarius lapponicus</i>	Summer	---	---	---
Long-Tailed Duck	<i>Clangula hyemalis</i>	Summer	---	---	---
Long-Tailed Jaeger	<i>Stercorarius longicaudus</i>	Summer	---	---	---
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	Summer	---	---	---
Peregrine Falcon, Tundrius subspecies	<i>Falco peregrinus tundrius</i>	Annual	Special Concern	3	Non-Active
Purple Sandpiper	<i>Calidris maritima</i>	Summer	---	---	---
Red-Necked Phalarope	<i>Phalaropus lobatus</i>	Summer	---	---	---
Red-Throated Loon	<i>Gavia stellata</i>	Summer	---	---	---
Rock Ptarmigan	<i>Lagopus muta</i>	Winter	---	---	---
Rough-Legged Hawk	<i>Buteo lagopus</i>	Summer	---	---	Not at Risk
Sandhill Crane	<i>Grus canadensis</i>	Summer	---	---	---
Semipalmated Plover	<i>Charadrius semipalmatus</i>	Summer	---	---	---

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