



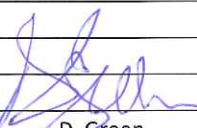

# Lower Churchill Management Corporation



## 2018 Wildlife Sightings Report for the Lower Churchill Project

Nalcor Doc. No. LCP-PT-MD-0000-EV-RP-0035-01

Comments:	Total # of Pages: (Including Cover): 45
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B1	29-Mar-19	Issued for Use	 M. Cypher	 J. Wells	 D. Green	 S. O'Brien
Status / Revision	Date	Reason for Issue	Prepared by	Functional Manager Approval	Quality Assurance Approval	Project Manager Approval <sup>1</sup>

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Note: 1. "LCP" coded documents require all Project Managers' approval.

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## **1 PURPOSE**

The purpose of this Wildlife Sightings Report is to provide a summary of wildlife sightings and interactions with the Lower Churchill Hydroelectric Generation Project (including Muskrat Falls Generation and Labrador Transmission Asset [LTA]) and the Labrador-Island Transmission Link (L-ITL) for 2018. This is to comply with commitments made in various Protection and Environmental Effects Monitoring Plans (PEEMPs) for both the Generation and Transmission projects. These PEEMPs include:

- L-ITL Furbearers and Small Mammals Protection and Environmental Effects Monitoring Plan
- L-ITL Caribou Protection and Environmental Effects Monitoring Plan
- Lower Churchill Project (LCP) Black Bear Protection and Environmental Effects Monitoring Plan
- LCP Caribou Protection and Environmental Effects Monitoring Plan
- LCP Furbearers Protection and Environmental Effects Monitoring Plan
- LCP Moose Protection and Environmental Effects Monitoring Plan

## **2 SCOPE**

As stated in the above listed PEEMPs, the On-Site Environmental Monitor (OSEM) is responsible for tracking wildlife sightings and encounters. Sightings, interactions and consequences that relate to furbearers, caribou, black bear and moose encounters during construction, have been recorded and are presented in a tabular format with the following information (as available):

- Date
- Time
- Location (UTM or lats/longs or other description)
- Interaction type – brief description of the type of interaction: sighting, human/animal conflict, vehicle/animal conflict
- Furbearer species details – sex, age, behavior at the time of the interaction
- Interaction details – explanation of the nature of the interaction
- Issue resolution – explanation of the action(s) undertaken to resolve the interaction

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- Interaction consequence – description of the outcome (animal was scared away; animal was killed)
- Additional actions undertaken – details of actions undertaken (e.g., no additional actions required; report sent to Wildlife Division) and notes on regulatory compliance

### 3 ABBREVIATIONS & ACRONYMS

<b>EIS</b>	Environmental Impact Statement
<b>EMP</b>	Environmental Management Plan
<b>EPP</b>	Environmental Protection Plan
<b>DNR</b>	Department of Natural Resources
<b>LCP</b>	Lower Churchill Project
<b>L-ITL</b>	Labrador-Island Transmission Link
<b>LTA</b>	Labrador Transmission Asset
<b>NE</b>	Nalcor Energy
<b>NL</b>	Newfoundland and Labrador
<b>NLDMAE</b>	Newfoundland and Labrador Department of Municipal Affairs and Environment
<b>OSEM</b>	On-Site Environmental Monitor
<b>PEEMP</b>	Protection and Environmental Effects Monitoring Plan
<b>ROW</b>	Right of Way

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### 4 REFERENCE DOCUMENTS

ILK-PT-MD-0000-EV-PL-0005-01	L-ITL Furbearers and Small Mammals Protection and Environmental Effects Monitoring Plan
ILK-PT-MD-0000-EV-PL-0004-01	L-ITL Caribou Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0006-01	LCP Black Bear Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0005-01	LCP Caribou Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0016-01	LCP Furbearers Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0012-01	LCP Moose Protection and Environmental Effects Monitoring Plan
LCP-PT-ED-0000-EA-SY-0001-01	Environmental Impact Statement and Supporting Documentation for the Lower Churchill Hydroelectric Generation Project
LCP-PT-ED-0000-EA-SY-0002-01	Environmental Impact Statement and Supporting Documentation for the Labrador-Island Transmission Link

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## **5 PROJECT DESCRIPTION**

### **5.1 MUSKRAT FALLS GENERATION**

The Muskrat Falls Generation Project (see Figure 5-1) will include:

- 22 km of access roads, including upgrading and new construction, and temporary bridges;
- A 1,500 person accommodations complex (for the construction period);
- A north roller compacted concrete overflow dam;
- A south rock fill dam;
- River diversion during construction via the spillway;
- Five (5) vertical gate spillway;
- Reservoir preparation and reservoir clearing;
- Replacement fish and of terrestrial habitat;
- North spur stabilization works;
- A close coupled intake and powerhouse, including:
- Four (4) intakes with gates and trash racks;
- Four (4) turbine/generator units at approximately 206 MW each with associated ancillary electrical/mechanical and protection/control equipment;
- Five (5) power transformers (includes 1 spare), located on the draft tube deck of the powerhouse;  
and
- Two (2) overhead cranes each rated at 450 Tonnes



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**Figure 5-1 Muskrat Falls Generating Facility**

### 5.2 LABRADOR TRANSMISSION ASSET (LTA)

The LTA consists of the ac transmission line system from Churchill Falls to Muskrat Falls (see Figure 5-2), specifically:

- Churchill Falls switchyard extension;
- Muskrat Falls switchyard;
- Transmission lines from Muskrat Falls to Churchill Falls: double-circuit 315 kV ac, 3 phase lines, double bundle conductor, Single circuit galvanized lattice steel guyed suspension and rigid angle towers; 247 km long; and
- 735 kV Transmission Line at Churchill Falls interconnecting the existing and the new Churchill Falls switchyards

With the completion of the LTA and the asset operational, there has been a reduction in wildlife sightings Project personelle. In order to maintain compliance with the commitments that Nalcor and the Project

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made in the PEEMPs, Operations will generate a *standard operating procedure* for employees to report wildlife sightings when in the area of this asset.



**Figure 5-2 Labrador Transmission Asset**

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### 5.3 LABRADOR-ISLAND TRANSMISSION LINK (LITL)

The Labrador –Island Transmission Link consists of a  $\pm$  350 kilovolt (kV) High Voltage direct current (HVdc) electricity transmission system from Central Labrador to the Avalon Peninsula on the Island of Newfoundland (the Island) (Figure 5-3).

The transmission system will include the following key components:

- An alternating current (ac) to direct current (dc) converter station at Muskrat Falls;
- Approximately 400 km overhead HVdc transmission line from Muskrat Falls to Forteau Point;
- A 60 m wide Right Of Way (ROW);
- Three, approximately 35 km long, submarine cables across the Strait of Belle Isle (SOBI) (i.e., between Forteau Point and Shoal Cove), with associated onshore infrastructure (transition compounds and land cables at both cable landings);
- Approximately 700 km of overhead HVdc transmission line from Shoal Cove to the Avalon Peninsula;
- A dc to ac converter station at Soldiers Pond;
- Shoreline electrodes at L’Anse au Diable and Dowden’s Point,
- An overhead, wood pole electrode line
  - Near Forteau Point and L’Anse au Diable; and
  - Between Soldiers Pond and Dowden’s Point.

LITL met substantial completion in 2017 and the asset was in commissioning phases through 2018; due to these factors there has been a reduction in wildlife sightings made by project personelle. In order to maintain compliance with the commitments that Nalcor and the Project made in the PEEMPs, Operations will generate a *standard operating procedure* for employees to report wildlife sightings when in the area of this asset.

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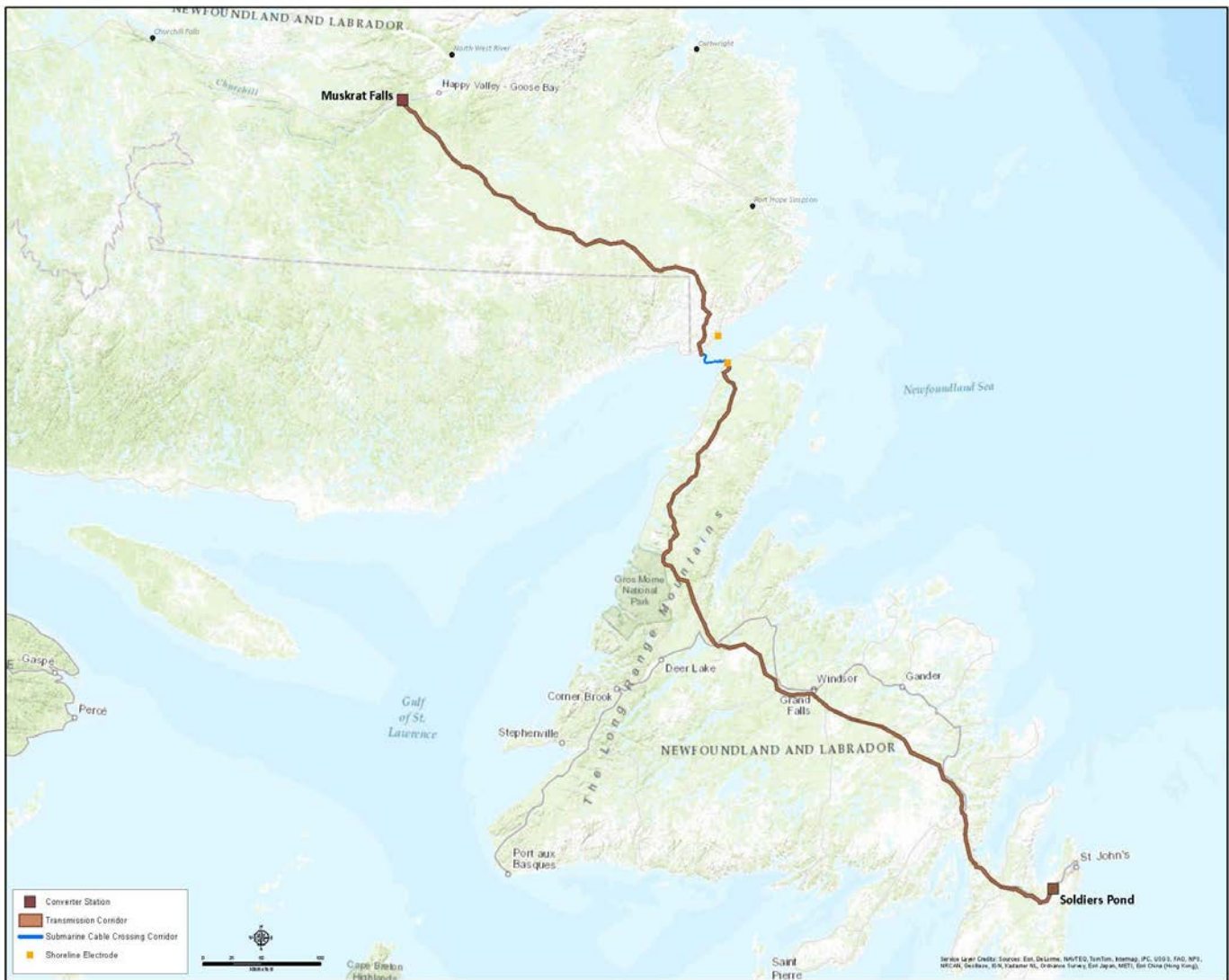


Figure 5-3 Labrador-Island Transmission Link

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## 6 WILDLIFE SIGHTINGS AND INTERACTIONS

### 6.1 MOOSE

#### 6.1.1 Lower Churchill Hydroelectric Generation Project

There were 21 moose sightings for the Lower Churchill Hydroelectric Generation Project in 2018.

**Table 6-1 Moose Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2018**

Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
14-Apr-18	Generation Site	KM 1, SSAR	n/a	n/a	n/a	No additional actions required	n/a
13-May-18	Generation Site	KM 20+200, SSAR	n/a	n/a	n/a	No additional actions required	n/a
18-May-18	Generation Site	KM 20+200, SSAR	n/a	n/a	n/a	No additional actions required	2 Observed
22-May-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
31-May-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
31-May-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a

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Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
02-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
03-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
04-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
7-Jun-18	Generation Site	KM 18+500, SSAR	n/a	n/a	n/a	No additional actions required	2 Observed
8-Jun-18	Generation Site	Wooded area west of Laydown B-1	n/a	n/a	n/a	No additional actions required	Moose & 2 calves
9-Jun-18	Generation Site	McKenzie River, west side in alders	n/a	n/a	n/a	No additional actions required	Moose & 2 calves
11-Jun-18	Generation Site	McKenzie River, west side in alders	n/a	n/a	n/a	No additional actions required	2 Observed
12-Jun-18	Generation Site	Treeline north of LCP office laydown area	n/a	n/a	n/a	No additional actions required	2 Observed
15-Jun-18	Generation Site	Laydown LD-10	n/a	n/a	n/a	No additional actions required	Moose & 2 calves
16-Jun-18	Generation Site	KM 18+500, SSAR	n/a	n/a	n/a	No additional actions required	2 Observed
22-Jun-18	Generation Site	GD-11, access road	n/a	n/a	n/a	No additional actions required	n/a

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Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
24-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	2 Observed
27-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
1-Jul-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
21-Jul-18	Generation Site	C1 Laydown	n/a	n/a	n/a	No additional actions required	n/a

### 6.1.2 Labrador – Island Transmission Link

There was 1 moose sightings reported for the Labrador-Island Transmission Link in 2018.

**Table 6-2 Moose Sightings and Interactions for the Labrador-Island Transmission Link in 2018**

Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
16-Oct-18	Soldiers Pond Terminal Station	Back 40 Laydown	n/a	n/a	n/a	No additional actions required	2 (Bull and Cow)

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## 6.2 BLACK BEAR

### 6.2.1 Lower Churchill Hydroelectric Generation Project

There were 70 black bear sightings for the Lower Churchill Hydroelectric Generation Project in 2018.

**Table 6-3 Black Bear Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2018**

Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
17-Apr-18	Generation Site	KM 13, SSAR	n/a	n/a	n/a	No additional actions required	n/a
26-May-18	Generation Site	KM 16+500, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
30-May-18	Generation Site	KM 18, SSAR	n/a	n/a	n/a	No additional actions required	n/a
31-May-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
2-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
3-Jun-18	Generation Site	KM 14, SSAR	n/a	n/a	n/a	No additional actions required	n/a



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<b>Date</b>	<b>Project Component</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
4-Jun-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
8-Jun-18	Generation Site	KM 18, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
10-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
14-Jun-18	Generation Site	Main Camp, access road near gen sets	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
15-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
16-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
20-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
21-Jun-18	Generation Site	KM 16, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
22-Jun-18	Generation Site	Main Camp, access road	n/a	n/a	n/a	No additional actions required	n/a

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<b>Date</b>	<b>Project Component</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
24-Jun-18	Generation Site	KM 18, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
25-Jun-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
27-Jun-18	Generation Site	KM 16, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
28-Jun-18	Generation Site	Wastewater Treatment Plant	n/a	n/a	n/a	No additional actions required	n/a
29-Jun-18	Generation Site	Laydown LD-12, access road	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
30-Jun-18	Generation Site	Laydown LD-12, access road	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
1-Jul-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
4-Jul-18	Generation Site	LCP Office Laydown	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
6-Jul-18	Generation Site	Main Camp, north of kitchen outside fence	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)

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7-Jul-18	Generation Site	KM 16, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
8-Jul-18	Generation Site	KM 16, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
10-Jul-18	Generation Site	Main Camp, Security Office	n/a	n/a	n/a	No additional actions required	n/a
12-Jul-18	Generation Site	Main Camp, east side	n/a	n/a	n/a	No additional actions required	n/a
13-Jul-18	Generation Site	Main Camp, near old KDR	n/a	n/a	n/a	No additional actions required	n/a
15-Jul-18	Generation Site	KM 14, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
30-Jul-18	Generation Site	Main Camp	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
31-Jul-18	Generation Site	KM 17, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
6-Aug-18	Generation Site	KM 17, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)

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9-Aug-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
10-Aug-18	Generation Site	McKenzie River, east side on road	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
20-Aug-18	Generation Site	North Dam	n/a	n/a	n/a	No additional actions required	n/a
22-Aug-18	Generation Site	KM 17, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
22-Aug-18	Generation Site	KM 17+300, SSAR	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
26-Aug-18	Generation Site	Astaldi Office Complex	n/a	n/a	n/a	No additional actions required	n/a
28-Aug-18	Generation Site	Astaldi Office Complex	n/a	n/a	n/a	No additional actions required	n/a
29-Aug-18	Generation Site	Ditch across SSAR from LCP Admin Building	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
30-Aug-18	Generation Site	Laydown LD-12	n/a	n/a	n/a	No additional actions required	n/a

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2-Sep-18	Generation Site	Wastewater Treatment Plant	n/a	n/a	n/a	No additional actions required	n/a
2-Sep-18	Generation Site	Astaldi Office Complex	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
3-Sep-18	Generation Site	Laydown LD-12	n/a	n/a	n/a	No additional actions required	n/a
3-Sep-18	Generation Site	McKenzie River	n/a	n/a	n/a	No additional actions required	Black Bear (juvenile)
7-Sep-18	Generation Site	KM 16, SSAR	n/a	n/a	n/a	No additional actions required	Black Bears (2)
8-Sep-18	Generation Site	Ditch across SSAR from LCP Admin Building	n/a	n/a	n/a	No additional actions required	n/a
8-Sep-18	Generation Site	Andritz Office Complex	n/a	n/a	n/a	No additional actions required	Black Bears (3) Sow & 2 cubs
8-Sep-18	Generation Site	KM 17, SSAR	n/a	n/a	n/a	No additional actions required	Black Bears (3) Sow & 2 cubs
9-Sep-18	Generation Site	McKenzie River	n/a	n/a	n/a	No additional actions required	n/a

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<b>Date</b>	<b>Project Component</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
10-Sep-18	Generation Site	McKenzie River	n/a	n/a	n/a	No additional actions required	n/a
13-Sep-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
14-Sep-18	Generation Site	KM 21, SSAR	n/a	n/a	n/a	No additional actions required	n/a
15-Sep-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
16-Sep-18	Generation Site	LCP Office Laydown	n/a	n/a	n/a	No additional actions required	n/a
17-Sep-18	Generation Site	KM 21, SSAR	n/a	n/a	n/a	No additional actions required	Black Bears (3) Sow & 2 cubs
19-Sep-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
19-Sep-18	Generation Site	McKenzie River, west side on SSAR	n/a	n/a	n/a	No additional actions required	n/a
21-Sep-18	Generation Site	LCP Office Laydown, south treeline	n/a	n/a	n/a	No additional actions required	n/a

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23-Sep-18	Generation Site	KM 18, SSAR	n/a	n/a	n/a	No additional actions required	n/a
25-Sep-18	Generation Site	KM 19, SSAR	n/a	n/a	n/a	No additional actions required	n/a
26-Sep-18	Generation Site	McKenzie River	n/a	n/a	n/a	No additional actions required	n/a
3-Oct-18	Generation Site	Astaldi Maintenance Yard, west side	n/a	n/a	n/a	No additional actions required	n/a
4-Oct-18	Generation Site	Andritz Office Complex	n/a	n/a	n/a	No additional actions required	n/a
6-Oct-18	Generation Site	LCP Office Laydown	n/a	n/a	n/a	No additional actions required	n/a
8-Oct-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
9-Oct-18	Generation Site	KM 20, SSAR	n/a	n/a	n/a	No additional actions required	n/a
11-Oct-18	Generation Site	Astaldi Office Complex	n/a	n/a	n/a	Live Trapped	DNR transported bear from site.

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Date	Project Component	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
11-Oct-18	Generation Site	KM 17, SSAR	n/a	n/a	n/a	No additional actions required	n/a

## 6.2.2 Labrador – Island Transmission Link

There were 0 black bear sightings reported for the Labrador-Island Transmission Link in 2018.

## 6.3 FURBEARERS

### 6.3.1 Lower Churchill Hydroelectric Generation Project

There were 103 furbearer sightings for the Lower Churchill Hydroelectric Generation Project in 2018.

**Table 6-4 Furbearer Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2018**

Date	Project Component	Wildlife Observed	Location	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
Jan-2018	HVac Switchyard at Churchill Falls	Red Fox	Behind Washcars	n/a	n/a	No additional actions required	There were sightings throughout the month; however, not all were recorded.
2-Jan-18	Generation Site	Wolf	KM 13, SSAR	n/a	n/a	No additional actions required	n/a



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12-Jan-18	Generation Site	Pine Marten	Laydown LD-2	n/a	n/a	No additional actions required	n/a
16-Jan-18	Generation Site	Red Fox	Laydown LD-9	n/a	n/a	No additional actions required	n/a
18-Jan-18	Generation Site	Red Fox	KM 1+500, SSAR	n/a	n/a	No additional actions required	n/a
20-Jan-18	Generation Site	Red Fox	Laydown E	n/a	n/a	No additional actions required	n/a
20-Jan-18	Generation Site	Red Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a
20-Jan-18	Generation Site	Silver Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a
21-Jan-18	Generation Site	Red Fox	South Dam, east side	n/a	n/a	No additional actions required	n/a

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Feb-2018	HVac Switchyard at Churchill Falls	Red Fox	Behind Washcars	n/a	n/a	No additional actions required	There were sightings throughout the month; however, not all were recorded.
3-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
7-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
9-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
12-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
13-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
14-Feb-18	Generation Site	Red Fox	Laydown J	Fox becoming habituated	n/a	Live trap deployed by DNR	n/a

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18-Feb-18	Switchyard at Muskrat Falls	Red Fox	Behind Trailers	n/a	n/a	No additional actions required	n/a
22-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
22-Feb-18	Generation Site	Wolf	SSAR, near gate	n/a	n/a	No additional actions required	n/a
25-Feb-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
26-Feb-18	Generation Site	Silver Fox	LD-12	n/a	n/a	No additional actions required	n/a
Mar-2018	HVac Switchyard at Churchill Falls	Red Fox	Behind Washcars	n/a	n/a	No additional actions required	There were sightings throughout the month; however, not all were recorded.
Apr-2018	HVac Switchyard at Churchill Falls	Red Fox	Behind Washcars	n/a	n/a	No additional actions required	There were sightings throughout the month; however, not all were recorded.

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15-Apr-18	Generation Site	Silver Fox	KM 21, SSAR	n/a	n/a	No additional actions required	n/a
15-Apr-18	Generation Site	Wolf	KM 1, SSAR	n/a	n/a	No additional actions required	n/a
17-Apr-18	Generation Site	Red Fox	KM 17+500, SSAR	n/a	n/a	No additional actions required	n/a
5-May-18	Generation Site	Fox	KM 2, SSAR	n/a	n/a	No additional actions required	n/a
24-May-18	Generation Site	Muskrat	North Dam, Flip Bucket form	Animal stuck inbetween form work	n/a	Live trap deployed by DNR and relocated	n/a
10-Jun-18	Generation Site	Fox	KM 14, SSAR	n/a	n/a	No additional actions required	n/a
10-Jun-18	Generation Site	Fox (juvenile)	Laydown LD-12, access road	n/a	n/a	No additional actions required	n/a

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12-Jun-18	Generation Site	Fox (juvenile)	Laydown LD-12, access road	Fox was struck by truck	n/a	Transported to gate for pick up by DNR	n/a
14-Jun-18	Generation Site	Fox	KM 13, SSAR	n/a	n/a	No additional actions required	n/a
15-Jun-18	Generation Site	Fox	KM 2, SSAR	n/a	n/a	No additional actions required	n/a
17-Jun-18	Generation Site	Fox	KM 19+500, SSAR	n/a	n/a	No additional actions required	n/a
28-Jun-18	Generation Site	Red Fox	KM 3, SSAR	n/a	n/a	No additional actions required	n/a
30-Jun-18	Generation Site	Fox (mom & pup)	Laydown LD-12, access road	n/a	n/a	No additional actions required	n/a
2-Jul-18	Generation Site	Fox	Laydown B-1, Batch Plant	n/a	n/a	No additional actions required	n/a

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3-Jul-18	Generation Site	Red Fox	KM 5+500, SSAR	n/a	n/a	No additional actions required	n/a
6-Jul-18	Generation Site	Red Fox	KM 3, SSAR	n/a	n/a	No additional actions required	n/a
7-Jul-18	Generation Site	Red Fox	Laydown LD-10, along south treeline	n/a	n/a	No additional actions required	n/a
7-Jul-18	Generation Site	Wolf	KM 13, SSAR	n/a	n/a	No additional actions required	n/a
8-Jul-18	Generation Site	Red Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a
24-Jul-18	Generation Site	Red Fox	Laydown J	n/a	n/a	No additional actions required	n/a
31-Jul-18	Generation Site	Wolf	KM 11+400, SSAR	n/a	n/a	No additional actions required	n/a

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3-Aug-18	Generation Site	Red Fox	Laydown LD-12, access road	n/a	n/a	No additional actions required	n/a
3-Aug-18	Generation Site	Wolves (6)	KM 5+500, SSAR	n/a	n/a	No additional actions required	n/a
5-Aug-18	Generation Site	Wolves (7)	KM 2, SSAR	n/a	n/a	No additional actions required	n/a
10-Aug-18	Generation Site	Wolves (4)	Marshalling Yard	n/a	n/a	No additional actions required	n/a
14-Aug-18	Generation Site	Wolves (5)	Marshalling Yard	n/a	n/a	No additional actions required	n/a
14-Aug-18	Generation Site	Wolves (5)	KM 11+400, SSAR	n/a	n/a	No additional actions required	n/a
15-Aug-18	Generation Site	Wolf	Main Gate	n/a	n/a	No additional actions required	n/a

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15-Aug-18	Generation Site	Wolves (5)	Marshalling Yard	n/a	n/a	No additional actions required	DNR was contacted as frequent sightings are occurring and one is a suspected rabies case
17-Aug-18	Generation Site	Wolves (1 Mother & 3 Pups)	KM 0+000 Main Gate	n/a	n/a	No additional actions required	n/a
18-Aug-18	Generation Site	Wolves (1 Mother & 3 Pups)	KM 2 - 4+500, SSAR	n/a	n/a	No additional actions required	DNR was contacted
19-Aug-18	Generation Site	Wolves (1 Mother & 3 Pups)	KM 4, SSAR	n/a	n/a	No additional actions required	n/a
22-Aug-18	Generation Site	Wolf (1 pup)	KM 3, SSAR	n/a	n/a	No additional actions required	n/a
25-Aug-18	Generation Site	Silver Fox	C1 Laydown	n/a	n/a	No additional actions required	n/a
26-Aug-18	Generation Site	Silver Fox	C1 Laydown	n/a	n/a	No additional actions required	n/a



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29-Aug-18	Generation Site	Wolf	Camp Access Road, entrance	n/a	n/a	No additional actions required	n/a
30-Aug-18	Generation Site	Wolf	Between KM5 and KM6 (close of the Caroline Brook Bridge)	n/a	n/a	No additional actions required	n/a
15-Sep-18	Generation Site	Fox	LCP Office Laydown	n/a	n/a	No additional actions required	n/a
27-Sep-18	Generation Site	Wolf	KM 8+500, SSAR	n/a	n/a	No additional actions required	n/a
11-Oct-18	Generation Site	Red Fox	KM 10, SSAR	n/a	n/a	No additional actions required	n/a
14-Oct-18	Generation Site	Lynx	KM 21, SSAR	n/a	n/a	No additional actions required	n/a
14-Oct-18	Generation Site	Red Fox	KM 21, SSAR	Fox was struck by truck	n/a	No additional actions required	DNR was contacted

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14-Oct-18	Generation Site	Wolves (5)	Marshalling Yard	n/a	n/a	No additional actions required	n/a
15-Oct-18	Generation Site	Red Fox	KM 9+500, SSAR	n/a	n/a	No additional actions required	n/a
15-Oct-18	Generation Site	Wolves (4)	Marshalling Yard	n/a	n/a	No additional actions required	DNR was contacted to keep informed on activity.
16-Oct-18	Generation Site	Wolves (3)	Marshalling Yard	n/a	n/a	No additional actions required	n/a
17-Oct-18	Generation Site	Wolves (4)	Marshalling Yard	n/a	n/a	DNR was contacted	DNR was contacted for an update on activity
23-Oct-18	Generation Site	Red Fox	LCP Office Laydown	n/a	n/a	No additional actions required	n/a
26-Oct-18	Generation Site	Wolf	Marshalling Yard	n/a	n/a	No additional actions required	n/a

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28-Oct-18	Generation Site	Wolves (2)	Main Gate	n/a	n/a	No additional actions required	n/a
30-Oct-18	Generation Site	Wolf	KM 13, SSAR	n/a	n/a	No additional actions required	n/a
31-Oct-18	Generation Site	Red Fox	KM 2, SSAR	n/a	n/a	No additional actions required	n/a
1-Nov-18	Generation Site	Red Fox	LCP Office Laydown	n/a	n/a	No additional actions required	n/a
2-Nov-18	Generation Site	Red Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a
3-Nov-18	Generation Site	Red Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a
5-Nov-18	Generation Site	Red Fox & Silver Fox	Laydown LD-12	n/a	n/a	No additional actions required	n/a

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6-Nov-18	Generation Site	Red Fox	Laydown LD-9	n/a	n/a	No additional actions required	n/a
9-Nov-18	Generation Site	Red Fox & Silver Fox	Laydown LD-12	animals getting comfortable around human activity	n/a	No additional actions required	DNR was contacted
9-Nov-18	Generation Site	Red Fox & Silver Fox	Tailrace, trailer area	animals getting comfortable around human activity	n/a	No additional actions required	DNR was contacted
10-Nov-18	Generation Site	Silver Fox	Tailrace & Intake	n/a	n/a	No additional actions required	n/a
12-Nov-18	Generation Site	Silver Fox	KM 22, SSAR	n/a	n/a	No additional actions required	n/a
12-Nov-18	Generation Site	Silver Fox	Upstream Bridge	Animal is interfering with work activities	n/a	Live trap requested	n/a

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13-Nov-18	Generation Site	Red Fox & Silver Fox	Laydown B-1, Crusher	n/a	n/a	Two live traps set by DNR	n/a
15-Nov-18	Generation Site	Silver Fox	South Dam	n/a	n/a	No additional actions required	n/a
17-Nov-18	Generation Site	Red Fox	Laydown E	n/a	n/a	No additional actions required	n/a
19-Nov-18	Generation Site	Silver Fox	Laydown B-1, Crusher	Fox was habituated	n/a	Live traps remain set	n/a
24-Nov-18	Generation Site	Silver Fox	Laydown H	n/a	n/a	No additional actions required	n/a
25-Nov-18	Generation Site	Red Fox & Silver Fox	Laydown B	n/a	n/a	No additional actions required	n/a
26-Nov-18	Generation Site	Red Fox	Laydown D-2	n/a	n/a	DNR on Site to assess behavior	n/a

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27-Nov-18	Generation Site	Arctic Fox	Laydown J	n/a	n/a	No additional actions required	n/a
27-Nov-18	Generation Site	Silver Fox	Stockpile A, entrance	Fox was habituated	Dispatched	Dispatched by DNR officials	n/a
27-Nov-18	Generation Site	Silver Fox	C2 area	Fox was habituated	Dispatched	Dispatched by DNR officials	n/a
28-Nov-18	Generation Site	Red Fox	Intake	n/a	n/a	No additional actions required	n/a
29-Nov-18	Generation Site	Red Fox	KM 11, SSAR	n/a	n/a	No additional actions required	n/a
4-Dec-18	Generation Site	Arctic Fox	south service bay	n/a	n/a	No additional actions required	n/a
6-Dec-18	Generation Site	Arctic Fox	Laydown F	n/a	n/a	No additional actions required	n/a
7-Dec-18	Generation Site	Red Fox	C1 Bypass Road	n/a	n/a	No additional actions required	n/a

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10-Dec-18	Generation Site	Arctic fox	Intake deck	n/a	n/a	Live trap requested for following day	n/a
11-Dec-18	Generation Site	Arctic fox	intake deck	Live trap set	n/a	Captured and relocated 11pm at night by DNR	n/a
17-Dec-18	Generation Site	red fox	km 5 SSAR	n/a	n/a	No additional actions required	n/a

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### 6.3.2 Labrador – Island Transmission Link

There were no furbearer sightings reported for the Labrador-Island Transmission Link in 2018.

## 6.4 CARIBOU

### 6.4.1 Lower Churchill Hydroelectric Generation Project

There were no caribou sightings for the Lower Churchill Hydroelectric Generation Project in 2018.

### 6.4.2 Labrador – Island Transmission Link

There were no caribou sightings for the Lower Churchill Hydroelectric Generation Project in 2018.

## 6.5 BIRDS

### 6.5.1 Lower Churchill Hydroelectric Generation Project

There were 12 bird sightings reported for the Lower Churchill Hydroelectric Generation Project in 2018.

**Table 6-5 Bird Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2018**

Date	Project Component	Wildlife Observed	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
7-May-18	Generation Site	Bald Eagle	Edward's Island	n/a	n/a	n/a	No additional actions required	n/a
10-May-18	Generation Site	Osprey	KM 20+200, SSAR	n/a	n/a	n/a	No additional actions required	n/a



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11-May-18	Generation Site	Osprey	Log Boom	n/a	n/a	n/a	No additional actions required	n/a
15-May-18	Generation Site	Osprey	KM 20+200, SSAR	n/a	n/a	n/a	No additional actions required	n/a
18-May-18	Generation Site	Red-Tailed Hawk	C1 Bypass Road	n/a	n/a	n/a	No additional actions required	n/a
25-May-18	Generation Site	Eider Ducks	KM 19+900, SSAR	n/a	n/a	n/a	No additional actions required	n/a
26-May-18	Generation Site	Eider Ducks	KM 19+900, SSAR	n/a	n/a	n/a	No additional actions required	n/a
21-Jun-18	Generation Site	Red-Tailed Hawk	KM 2, SSAR	n/a	n/a	n/a	No additional actions required	n/a
19-Jul-18	Generation Site	Dark-Eyed Junco	C2 Laydown	n/a	n/a	n/a	Buffer in place as nest was identified	n/a
6-Aug-18	Generation Site	Red-Tailed Hawk	KM 0+650, SSAR	n/a	n/a	n/a	No additional actions required	n/a
30-Aug-18	Generation Site	Ducks (5)	McKenzie River	n/a	n/a	n/a	No additional actions required	n/a
18-Sep-18	Generation Site	Bird	Powerhouse, Unit 3 Liner	n/a	Birds trapped in runner pit	n/a	Birds were live trapped and released outside	DNR was involved with the process

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## 6.5.2 Labrador – Island Transmission Link

There were 13 bird sightings reported along the LITL in 2018.

**Table 6-6 Bird Sightings and Interactions for the Labrador-Island Transmission Link in 2018**

Date	Project Component	Wildlife Observed	Location	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
15-May-18	CD0534 Soldiers Pond	Raven	Behind LCP CMT Trailer	n/a	n/a	n/a	No additional actions required	Deceased
17-May-18	CD0534 Soldiers Pond	Starling	Security Access Road	n/a	n/a	n/a	No additional actions required	Deceased
27-Sep-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	One individuals – deceased DNR was notified as per CWS- 2040
04-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	Two individuals – deceased DNR was notified as per CWS- 2040
04-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	2 individuals – released DNR was notified as per CWS- 2040
8-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	15 individuals – deceased DNR was notified as per CWS- 2040

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<b>Date</b>	<b>Project Component</b>	<b>Wildlife Observed</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
8-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	4 individuals – released DNR was notified as per CWS-2040
9-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	4 individuals – deceased DNR was notified as per CWS-2040
9-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	6 individuals – released DNR was notified as per CWS-2040
11-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	163 individuals – deceased DNR was notified as per CWS-2040
11-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	75 individuals – released DNR was notified as per CWS-2040
12-Oct-18	CD0534 Soldiers Pond	Leach's Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	43 individuals – deceased DNR was notified as per CWS-2040

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<b>Date</b>	<b>Project Component</b>	<b>Wildlife Observed</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
12-Oct-18	CD0534 Soldiers Pond	Leach’s Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	30 individuals – released DNR was notified as per CWS-2040
13-Oct-18	CD0534 Soldiers Pond	Leach’s Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	1 individuals – deceased DNR was notified as per CWS-2040
13-Oct-18	CD0534 Soldiers Pond	Leach’s Storm Petrel	Terminal Station	n/a	Stored in cardboard box, LCP retrieved – release in Witless Bay after dusk	n/a	No additional actions required	6 individuals – released DNR was notified as per CWS-2040
15-Oct-18	CD0534 Soldiers Pond	Leach’s Storm Petrel	Terminal Station	n/a	n/a	n/a	No additional actions required	6 individuals – deceased DNR was notified as per CWS-2040

**6.6 FISH AND AMPHIBIANS**

**6.6.1 Lower Churchill Hydroelectric Generation Project**

There was 1 sighting for the Lower Churchill Hydroelectric Generation Project in 2018.

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**Table 6-7 Fish Sightings and Interactions for the Labrador-Island Transmission Link in 2018**

<b>Date</b>	<b>Project Component</b>	<b>Wildlife Observed</b>	<b>Location</b>	<b>Species Details</b>	<b>Interaction Details</b>	<b>Interaction Consequence</b>	<b>Additional actions undertaken</b>	<b>Notes</b>
19-Jun-18	Switchyard at Muskrat Falls	Blue-Spotted Salamander	Laydown Area	n/a	n/a	n/a	No additional actions required	DNR was contacted for identification purposes.

### **6.6.2 Labrador – Island Transmission Link**

There no sightings along the LITL in 2018.