Upper Lillooet Hydro Project

Weekly Environmental Monitoring Report #55

Reporting Period: March 29 - April 4, 2015

Upper Lillooet River Hydroelectric Facility (Water File No. 2002561, Water licence No. C130613), Boulder Creek Hydroelectric Facility (Water File No. 2003049, Water licence No. C129969) & Transmission Line

	Distribution List	
Name	Organization	Prepared By
Murray Manson	Fisheries and Oceans Canada	-0222
James Davies	MFLNRO – Water Allocation	E APPLIE
Danielle Cunningham	MFLNRO – Land and Resources	B. L. C.
Frank DeGagne	MFLNRO – Land and Resources	J. Alex
Nathan Braun	BC Environmental Assessment Office	Sairon / Off
George Steeves	True North Energy – Independent Engineer	1/1/10
Jennifer McCash	JEM Energy Ltd. – Independent Engineer	R.P. Blo
Thomas Hicks	Sartori Environmental Services	·
Peter Ramsden	Innergex Renewable Energy Inc.	CAD
Oliver Robson	Innergex Renewable Energy Inc.	J. Alex Sartori, RPBio
Grant Lindemulder	Innergex Renewable Energy Inc.	Independent Environmental Monitor (IEM)
Greg Davis	Innergex Renewable Energy Inc.	masperiative Environmental Meriter (IEM)
Julia Mancinelli	Innergex Renewable Energy Inc.	OF APPLIENCE
Liz Scroggins	Innergex Renewable Energy Inc.	G. C.
Bas Brusche	Innergex Renewable Energy Inc.	stephen .O
Matt Kennedy	Innergex Renewable Energy Inc.	30: / / 30%
Renaud DeBatz	Innergex Renewable Energy Inc.	AUTO
Richard Blanchet	Innergex Renewable Energy Inc.	R.P. Bio 2374
Dara McDermott	Innergex Renewable Energy Inc.	A
Yannick Tardif	CRT-ebc Construction Inc.	CAB CAB
Jonathan Drapeau	CRT-ebc Construction Inc.	J. Stephen Sims, RPBio
Éric Ayotte	CRT-ebc Construction Inc.	Delegated IEM
Jean Pelletier	CRT-ebc Construction Inc.	
Jordan Gagne	CRT-ebc Construction Inc.	
Ian McKeachie	CRT-ebc Construction Inc.	Date Prepared: April 17, 2015
D'Arcy Soutar	Westpark Electric Ltd.	Date Submitted: May 11, 2015
Pontus Lindgren	Westpark Electric Ltd.	
Harriet VanWart	Lil'wat Nation	



Owner Construction Permits and Approvals

```
Environmental Assessment Certificate No. E13-01 (Amendment 1, 2, 3, 4, 5 & 6)
              Fisheries Act Subsection 35(2)(b) Authorization No. 09-HPAC-PA2-000303 (Amendment 1, 2)
                         Letter of Advice for the Transmission Line No. 09-HPAC0-PA2-000303
                            Leave To Commence Construction (ULRHEF) File No. 2002561
                           Leave To Commence Construction (BDRHEF) File No. 2002453
                        Leave To Commence Construction (TX Line) File No. 2002561/2002453
                           Conditional Water Licence (ULRHEF C130613) File No. 2002561
                           Conditional Water Licence (BDRHEF C129969) File No. 2002453
                           Conditional Water Licence (BDRHEF C131153) File No. 2003601
                             Licence of Occupation (ULRHEF #232384) File No. 2409871
                             Licence of Occupation (BDRHEF #232386) File No. 2409998
                             Licence of Occupation (TX Line #2423386) File No. 2410654
                      Occupant Licence to Cut (ULRHEF Amendments 1, 2, 3, 4, 5, 6) No. L49717
                           Occupant Licence to Cut (BDRHEF - KM 38 laydown) No. L49698
                         Occupant Licence to Cut (BDRHEF Amendments 1, 2, 3) No. L49816
                    Occupant Licence to Cut (TX Line Amendment 1, 2, 3, 4, 5, 6, 7, 8) No. L49697
General Wildlife Measure Exemption Approval Letter (TX Line & BDRHEF) File No. 78700-35/06 UWR and 39585-20 WHA
                 Heritage Conservation Act – Alteration Permit (ULRHEF) File No. 11200-03/2014-0033
 Road Use Permit No. 6123-13-02 (Lillooet River FSR); 5673-13-01 (Rutherford Creek FSR); 7977-13-01 (Lillooet South
        FSR); 8015-13-01 (Ryan River); 8188-13-01 (Pemberton Creek FSR); and 9717-13-01 (Miller Bench FSR)
                    Junction Permit (ULRHEF & BDRHEF) File No. 11250-32/6123 (Amendment 1)
                 Aeronautical Obstruction Approval (Tx Line - Lillooet River Crossing) File No. 2013-004
                      Aeronautical Obstruction Approval (Tx Line - Ryan River) File No. 2013-005
                      Aeronautical Obstruction Approval (Tx Line - North Miller) File No. 2013-006
                      Aeronautical Obstruction Approval (Tx Line - South Miller) File No. 2013-007
                   Aeronautical Obstruction Approval (Tx Line - Pemberton Creek) File No. 2013-008
             Aeronautical Obstruction Approval (Tx Line - Lillooet River near Pemberton) File No. 2013-009
            Aeronautical Obstruction Approval (Tx Line - Lillooet River near Meager Creek) File No. 2013-010
                      Navigable Water Protection Act (ULRHEF) File No. 8200-2009-500434-001
                      Navigable Water Protection Act (BDRHEF) File No. 8200-2012-501-032-001
                Navigable Water Protection Act (Tx Line - North Creek) File No. 8200-2013-500103-001
                Navigable Water Protection Act (Tx Line - Lillooet River) File No. 8200-2013-500101-001
                Navigable Water Protection Act (Tx Line - Lillooet River) File No. 8200-2013-500102-01
                 Navigable Water Protection Act (Tx Line - Ryan River) File No. 8200-2013-500104-001
             Navigable Water Protection Act (Tx Line - South Miller River) File No. 8200-2013-500100-001
               Navigable Water Protection Act (Tx Line - Boulder Creek) File No. 8200-2013-500099-001
                  Navigable Water Protection Act – Extension Approval (ULRHEF, BDRHEF, Tx Line)
                   Navigable Water Protection Act (Bridge - Ryan River) File No. 8200-2013-500381
 Navigable Water Protection Act (Bridge - Upper Lillooet Side Channel; Extension Approval) File No. 8200-2013-500383
                          Section 57 Authorization (ULRHEF) File No. 16660-20/REC202717
                              SLRD Temporary Use Permit No. 34 - Boulder Creek HEF
                           SLRD Temporary Use Permit No. 35 - Upper Lillooet River HEF
                        SLRD Building Permit (10864) - Upper Lillooet River HEF Powerhouse
                           SLRD Building Permit (10865) - Boulder Creek HEF Powerhouse
                        Works Permit for Construction within FSR Right-of-Way No. 6123-14-01
             Section 52(1)(b) FRPA Authorization for Ryan River Wet Crossing File No. FOR-19400-01/2014
MOTI Permit to Construct, Use and Maintain Works Upon the Right-Of-Way of a Provincial Public Highway No. 2014-06099
```



Contractor Construction Permits and Approvals

Magazine Licence File No. UL76018

Section 8 Approval – Short Term Use of Water File (Lillooet River and Tributaries) No. A2006123 (Amendment 1)
Waste Discharge under the Code of Practice for the Concrete and Concrete Products Industry under the Environmental
Management Act (Authorization No. 107204) Tracking No. 326969

Wildlife Act Permits – Pacific Tailed Frog Salvage Permit # SU14-95304 & SU13-90538, Fish Salvage Permit #SU14-95329
Section 52 of the Fisheries (General) Regulations – Fish Salvage Licence # XR 139 2014
BC Safety Authority – Temporary Construction Electrical Service Permit EL-140698-2014
Municipal Wastewater Regulation - Authorization # 107032

Water Supply System Construction Permits – VCH-14-613 for Main Camp Water Supply System Permit to Operate Issued July 30th, 2014 for Main Camp

Section 6(3) and Schedule 3 Wildfire Regulations Fire Exemption for Ryan River Bridge File No. 14350-07 SLRD Building Inspection Report dated August 13, 2014 - Construction Camp Building Permit No. 10830 Lillooet River FSR Temporary Road Closures Approval File No. 11250-32/6123 (Amendment 1, 2) Lillooet South FSR Temporary Road Closures Approval File No. 11250-32/7977 SLRD Building Permits for Mechanic Shop (10862) and Carpentry Shop (10836) dated March 18, 2015

ACRONYMS:

AMBNS	Active Migratory Bird Nesting Survey	ISW	Instream Works
ASMP	Archaeological Sites Management Plan	ITM	Environmental Issue Tracking Matrix
ARD M/L	Acid Rock Drainage and Metal Leaching	JEM	JEM Energy Ltd. (Delegate Independent
BCEAO	British Columbia Environmental		Engineer)
	Assessment Office	LTC	Leave to Construct
BCWQG	British Columbia Water Quality Guidelines	MFLNRO	Ministry of Forests, Lands and Natural
BDRHEF	Boulder Creek Hydroelectric Facility		Resource Operations
BG	Background	MOE	Ministry of Environment
BKL	BKL Consultants Ltd.	MOTI	Ministry of Transportation and Infrastructure
CE	CRT-ebc Construction Inc.	NCD	Non Classified Drainage
DFO	Fisheries and Oceans Canada	OLTC	Occupational License to Cut
DS	Downstream	PAG	Potentially Acid Generating
EAC	Environmental Assessment Certificate	ROW	Right of Way
EAO	Environmental Assessment Office	RVMA	Riparian Vegetation Management Area
Ecofish	Ecofish Research Ltd.	SES	Sartori Environmental Services
Ecologic	Ecologic Consulting	Stringer	Temporary Backfeed Transmission Line
EIR	Environmental Incident Report	Line	, ,
ESC	Erosion and Sediment Control	TX Line	Transmission Line
FAM	Field Advice Memorandum	ULRHEF	Upper Lillooet Hydroelectric Facility
FSR	Forest Service Road	UWR	Ungulate Winter Range
GWR	Mountain Goat Winter Range	VC	Valued Component
Hedberg	Hedberg and Associates Ltd.	WEL	Westpark Electric Ltd.
IE	Independent Engineer (True North Energy)	WEMR	Weekly Environmental Monitoring Report
IEM	Independent Environmental Monitor	WHA	Wildlife Habitat Area
INX	Innergex Renewable Energy Inc.	WQ	Water Quality



1.0 Summary of Site Inspections for Reporting Period

The table presented below summarizes the IEM team site presence, weather and monitoring locations by component:

Dates	IEM Team Personnel	Weather Conditions	Key Monitoring Locations & Activities
March 29 – April 4	TH, BA	Variable conditions with no major precipitation events	 ■ Routine equipment maintenance and repairs completed at the 38km laydown shop location ■ Maintaining electric fence, gates, and electrified mats ■ Backfill works began at ULRHEF powerhouse ■ Formworks began at BDRHEF powerhouse ■ A hydraulic jacking test was conducted at the BDRHEF powerhouse ■ Road maintenance on Lillooet River FSR from 18 – 37km ■ The IEM conducted a site inspection on April 1 TX Line ■ Segments 8 and 9 ▶ Road works on road 197.2 continued with ballasting and pullback above Black's Bridge ▶ Hand digging (including blasting) from structures 199 -201 ▶ Machine digging (including blasting) from structures 188-190 and 197 ▶ Pole setting from structure 188 - 201 ■ Segment 9 ▶ Helicopter access clearing continued ■ Segment 12 ▶ Miller Bench FSR road upgrades continued - The IEM was onsite to monitor a culvert installation at MB27 on March 30 ■ Segment 13 ▶ A kick-off meeting was held to discuss the Clearing work plan on March 31

IEM Team Personnel: TH - Tom Hicks, BA - Blake Aleksich

2.0 Administrative Summary

Key communications and meetings the IEM team had with the licensees, contractors and/or environmental authorities:

Date	Communication Type	Participants	Issues Discussed	ITM ID No.
March 31, 2015	Email, phone calls	INX, WEL, CE, SES	INX was asked by BCEAO to provide documentation showing compliance with the CEMP pertaining to the Human-Bear Conflict Management Plan and the firearms ban at the ULHP site. SES has continued to audit these conditions on a regular basis and has observed no evidence of firearm possession or use onsite by Project personnel to date.	
March 31, 2015	Pre-work meeting	INX, SES, WEL, Mumleqs, Hedberg	Reviewed the Segment 13 clearing work plan Discussions focused on working around the Miller Creek Hydro Project buried penstock, the potential for an early onset to the migratory song bird nest window, and procedures for decking timber	-



Date	Communication Type	Participants	Issues Discussed	ITM ID No.
			involving tower installation or heli-yarding in some instances.	
April 2, 2015	Email	INX, SES, CE	The IEM was provided with the SLRD building permits for the carpentry shop and the mechanic shop.	-

3.0 Current Work Restrictions and Timing Windows

The table presented below outlines work restrictions applicable during the reporting period for each active Project component location:

Component	Location	Wildlife/Archeology Concern	Construction/Timing Restrictions & Mitigations						
								Within 150m of wetlands or 100m of Coastal Tailed Frog Streams	IEM presence is required when clearing within 150m of wetlands or 100m of CTF Streams, to ensure clearing area is minimized.
		Riparian Vegetation Management Areas (RVMA)	IEM monitoring is required during clearing within RVMAs.						
		Surface Water Quality	IEM monitoring is required during culvert installation activities in non-fish bearing waters to document adherence to the Surface Water Quality Protection Plan objectives.						
	Segments 6 – 12	Suitable Raptor Nesting Habitat	IEM presence is required when clearing within suitable Northern Goshawk (NOGO) and SPOW (Spotted Owl) nesting habitat during the breeding period.						
TX Line		Suitable Class 1 & 2 Grizzly Bear forage habitat	IEM monitoring is required when clearing within identified Class 1 & 2 Grizzly Bear forage habitat, to ensure clearing area is minimized.						
		Wildlife Habitat Area (WHA) 2-399	Construction of the transmission line within the Grizzly Bear WHA 2-399 must be construction outside of April 1 to June 1 and October 15 to December 31 to minimize disturbance to Grizzly Bears expected to use the WHA during spring and fall.						
		Ryan River Drainage	Construction of the TX Line into and across the Ryan River drainage will occur during the less critical Grizzly Bear summer foraging period (June 1 – September 1)						
		Moose, Deer, & Mountain Goat UWRs	Helicopter flight paths will avoid UWRs and landing locations will be located further than 500m away from the UWRs during the sensitive late winter period (March 1 – May 15).						



Component	Location	Wildlife/Archeology Concern	Construction/Timing Restrictions & Mitigations
Lillooet River FSR & ULRHEF	Access roads above the lower limit of the 200m buffer Truckwash Creek	Mountain Goat UWR	Snow depths measured on March 25, 2015 resulted in the implementation of the 2 week spring shutdown as detailed in the Mountain Goat Management Plan. The spring shutdown will be lifted on April 8, 2015. Additional information is provided in Section 8.0.
	Migration Corridor to the ULRHEF intake		If a goat is observed within 500 m of construction operations, construction must cease for at least 48 hours. The IEM must record and submit all goat observations to FLNR within 48 hours.
III DUEE 9	ULRHEF work areas above the powerhouse (beyond 41.5km of the Lillooet River FSR) & BDRHEF intake	Wolverine den emergence	Construction will not occur beyond 41.5km of the Lillooet River FSR or above the BDRHEF intake access road gate from March 1 – April 30 during the critical den emergence period.
ULRHEF & BDRHEF	BDRHEF intake	Mountain Goat UWR habitat (u-2-002 UL 12)	During winter construction and operations, access to Boulder Creek HEF intake must be gated at least 500 m from the original UWR u-2-002 UL 12 to restrict motorized use within the UWR, unless otherwise directed by FLNR.

4.0 Upper Lillooet River Hydroelectric Facility & Boulder Creek Hydroelectric Facility – Monitoring Results

4.1 Construction Camp, 38 km Laydown & Lillooet River FSR

Operations:

- The electric fence was fully operational and clear of snow throughout the reporting period as identified in CE weekly reports provided to the IEM.
- Routine maintenance of construction equipment within the mechanic shop and fuel management continued at the 38 km laydown (Photo 1).
- Spring road maintenance continued on the Lillooet River FSR from 18 37km by the primary Road Use Permit holder (i.e. Squamish Mills)(Photo 2).

Environmental Summary:

 CE continues to perform daily inspections of the electric fence and fuel storage areas and record results in daily inspection logs.



Photos:



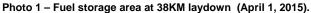




Photo 2 – Road maintenance on Lillooet River FSR near 19km (April 1, 2015).

4.2 Upper Lillooet River HEF Powerhouse

Construction Activities:

- Preparation for formworks and rebar installation (Photo 3).
- Backfill works (Photo 4).
- Dewatering to settling ponds (Photo 5 and Photo 6).

Environmental Summary:

• On April 1, the IEM was onsite to monitor backfill works at the powerhouse. Seepage and rainwater entering the excavation of a trench for a French drain resulted in sediment laden water being discharged to the settling ponds (Photo 4 and Photo 5). The IEM conducted water quality at the settling pond discharge location on the Lillooet River. Water quality remained within guidelines in accordance with the Surface Water Quality Protection Plan. The mixing zone was measured to be 6NTU over background during peak turbidity. Water quality in the settling ponds immediately improved following the completion of the French drain excavation (Photo 6). See Section 4.4 Water Quality Results.



Photos:



Photo 3 – Looking northeast at ULRHEF powerhouse (April 1, 2015).



Photo 4 – Backfill works at ULRHEF powerhouse with geotextile fabric placed for French drain (April 1, 2015).



Photo 5 – ULRHEF powerhouse settling ponds during French drain excavation for backfill works (April 1, 2015).



Photo 6 – ULRHEF powerhouse discharge to settling ponds following French drain excavation (April 1, 2015).

4.3 Boulder Creek HEF Powerhouse

Construction Activities:

- Formwork and rebar installation (Photo 7).
- Hydraulic jack testing was conducted in BDRHEF tunnel (Photo 9).

Environmental Summary:

 All dewatering of the powerhouse excavation and tunnel was directed to the reconstructed settling ponds (Photo 8 and Photo 10). All water introduced to the settling ponds was observed to be infiltrating to ground in the first cell of the ponds during this reporting period.



Tunnel discharge during a hydraulic jack test posed no risk to surface water quality as no water was being discharged offsite.

Photos:



Photo 7 – Current conditions at BDRHEF powerhouse (April 1, 2015).



Photo 8 – BDRHEF powerhouse dewatering directed to settling ponds (April 1, 2015).

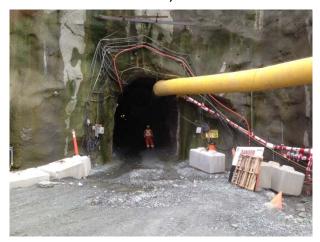


Photo 9 – Preparation for hydraulic jacking at the BDRHEF downstream tunnel portal (April 1, 2015).



Photo 10 – BDRHEF powerhouse settling ponds; water infiltrating to ground in first cell (April 1, 2015).

4.4 Water Quality Results

Weekly water quality monitoring at the ULRHEF and BDRHEF intakes will resume the week of May 1, 2015 once access to the sites reopens. Water quality will continue to be monitored at the ULRHEF and BDRHEF powerhouse sites to ensure site discharge meets surface water quality objectives.

Date	Time	Sample Location Description	рН	Turbidity (NTU)	Cond (uS)	Temp (°C)
		ULRHEF Powerhouse French Drain Exca	vation Wo	orks		
April 1	10:05	Background in Upper Lillooet River	-	10.91		-
April 1, 2015	10:08	Mixing zone in Upper Lillooet River with settling pond discharge	-	16.90	-	-



Date	Time	Sample Location Description		Turbidity (NTU)	Cond (uS)	Temp (°C)
	10:10	10m downstream of settling pond discharge in Upper Lillooet River	-	14.20	1	-

4.5 Recommendations

IEM recommendations for the hydroelectric facilities are as follows:

- The IEM recommends that the BDRHEF and ULRHEF sediment ponds continue to be utilized and are closely monitored to ensure that they are effectively promoting infiltration/ and treating water quality prior to discharging water offsite.
- Once the ULRHEF and BDRHEF intake sites can be accessed the IEM recommends that the effectiveness of installed winterization and ESC measures be assessed to ensure that regular maintenance is performed as needed.

4.6 Upcoming Works

Rebar and formworks, and concrete pours at the ULRHEF and BDRHEF powerhouses are scheduled to occur in the upcoming reporting period.

5.0 Transmission Line - Monitoring Results

5.1 Transmission Line Construction Activities

Clearing, Existing Road Upgrades and Access Road Construction:

- Road upgrades (including culvert installations) continued in Segment 12 on Miller Bench FSR (Photo 11, Photo 12, Photo 13 and Photo 14).
- Road upgrades continued in Segment 8 on road 197.2 with ballasting and pullback near Black's Bridge (Photo 15).
- RVMA clearing was completed by hand falling crews accessing the sites by helicopter in Segment 9.

Transmission Line Pole Installation, Line Stringing and Clipping:

 Ground works for pole foundations (including hand digging, machine digging and blasting) and pole setting were completed in Segment 8 and 9 from structure 188 – 201 (Photo 16).

Environmental Summary:

On March 30, the IEM was present for a non-fish bearing culvert installation at MB27 on the
Miller Bench FSR. The culvert installation was at an identified Coastal Tailed Frog stream.
An Ecofish crew conducted a CTF salvage prior to works and during dewatering (Photo 11).
Pumping for worksite isolation was attempted but crews were not able to divert all of the
flows (Photo 12). To complete worksite isolation, a portion of the water was redirected down
the adjacent ditch where it discharged through a culvert to vegetation (Photo 13). The IEM
observed that downstream (DS) flows in the CTF stream were maintained during works and



that the worksite remained isolated from water (Photo 14). The IEM conducted water quality sampling during the culvert installation. See Section 5.2 Water Quality Results.

- On March 25, WEL requested IEM approval to operate equipment within the 15m RVMA buffer to complete pole foundation installation at structure 193 in Segment 8. The IEM reviewed the request and provided a list of additional mitigation measures and monitoring requirements to allow the works to proceed. The following mitigations will be in place during these works, which have been postponed to the next reporting period:
 - > Site conditions will be reviewed with the IEM to ensure the ground conditions are suitable to allow the operation of machinery within the RVMA. If the ground is saturated and operating equipment is likely to result in heavy rutting, measures to protect against rutting (e.g., operating machinery on swamp mats) will be required.
 - > The IEM will be onsite to document placing of the puncheon (on stream banks outside of the wetted channel) and crossing of stream 192B with a machine equipped with synthetic biodegradable or vegetable oil based hydraulic fluid.
 - > The area must be fully stabilized from an ESC perspective once the ground works are complete to prevent impacts to nearby streams and allow the riparian area to recover as quickly as possible. This may require the use of silt fence (or alternative perimeter control, mulch, seeding, etc.), therefore adequate materials must be on hand.
 - > Spill kits and materials will be onsite and readily available to respond in the event of a spill to prevent any introduction to nearby watercourses.

Photos:



Photo 11 – EcoFish crew conducting a Coastal Tailed Frog salvage prior to works at MB27 (March 30, 2015).



Photo 12 – Three pumps used to dewater worksite for MB27 culvert installation (March 30, 2015).





Photo 13 – Excess water not handled by the pumps at MB27 was diverted down ditch where it discharged to vegetation (March 30, 2015).



Photo 14 – MB27 culvert installation in progress with worksite isolated from flowing water (March 30, 2015).



Photo 15 – Road works on road 197.2 above Black's Bridge (April 1, 2015).



Photo 16 – Groundworks completed for pole installation at structure 191 in Segment 8 (April 1, 2015).

5.2 Water Quality Results

The following table presents the results of water quality sampling collected during TX - Line water management activities according to the conditions outlined in the Surface Water Quality Protection Plan. Exceedances of in-situ water quality (turbidity) deemed to be caused by project-related activities are highlighted in bold font and are discussed above in Section 5.1.

Date	Time	Sample Location Description	рН	Turbidity (NTU)	Cond (uS)	Temp (°C)
		Segment 12 – Miller Bench FSR culvert insta	allation a	t MB47		
	8:00	Background in watercourse	-	0.87	-	-
	8:25	20m DS of works in ditch discharging to vegetation	-	29.6	-	-
March 30, 2015	8:37	20m DS of works in ditch discharging to vegetation	-	26.7	-	-
	8:45	5m DS of pump outlets	-	1.96	-	-
	9:50	5m DS of pump outlets	-	1.51	-	-



5.3 Recommendations

 The IEM recommends all access roads continue to be inspected following spring heavy rains and/or rain on snow events to assess for any slope failures or drainage/erosion concerns that may result.

5.4 Upcoming Works

The following new and/or environmentally sensitive construction activities are scheduled to occur along the TX Line in the upcoming reporting period(s):

- Segment 8 road works will continue.
- Ground works for pole installation will continue in Segment 8 and 9 including RVMA ground works at structure 193.
- Clearing of the Segment 9 ROW will continue.
- Road upgrades and repairs in Segment 12 on the Miller Bench FSR are scheduled to continue.
- Clearing of the Segment 13 ROW will begin once the clearing plan is finalized.
- Log decking and hoe chucking will commence in Segment 16.

6.0 Wildlife Sightings

As per the CEMP, a wildlife sightings record has been implemented and will be updated regularly by Project Personnel. It is mandatory for all personnel to report wildlife sightings including, but not limited to bears, cougars, mountain goats and deer. Wildlife sighting will be reported and recorded by the contractor(s) and submitted to the IEM on a weekly basis. Observation or detection of the following species will trigger notification to identified parties according to the following table.

Species Observed or Detected	Notification Period	Agencies to be Notified
Northern Rubber Boa	Immediately	IEM, Owner
Grizzly Bear	24hrs	IEM, Safety Officer, Conservation Officer, Owner
Wolverine Den	24hrs	IEM, MFLNRO, Owner
Spotted Owls	24hrs	IEM, MOE, Owner
Mountain Goats	48hrs	IEM, MFLNRO, Owner



The wildlife sightings reported in March 2015 by the Owner, contractors and the IEM are included in the following table.

Upper Lillooet Hydro Project - Wildlife Observation Form						
Date Time Observer (Company) Species or Description Location				Comments		
17/03/2015	11:30	Tom Hicks (Sartori)	Deer	21km - Lillooet River FSR	Feeding, fleeing	
23/03/2015	14:10	Fanny Seminaro (CRT)	Moose	37.5km - Lillooet River FSR	travelling	

7.0 Mountain Goat Monitoring Program

Mountain Goat monitoring will resume in the spring of 2015, once construction activities resume.



8.0 Environmental Issues Tracking Matrix (ITM)

8.1 Hydroelectric Facilities (ULRHEF & BDRHEF)

ITM Tracking Legend: Work Item Open Work Item Complete Issue Closed			ork Item Complete							
Issue Tracking		Environmental Issue		Mitigation Measures						
ID No.	Status	Location	Issue Description	Action Taken/Recommended	Date of Identification	Targeted Date for Completion	Date Completed			
next ITM – ULR#23										

8.2 Transmission Line

ITM Tracking Legend: Work Item Open Work Item Completed Issue Closed			rk Item Complete								
Issue Tracking		Environmental Issue		Mitigation Measures							
ID No.	Status	Location	Issue Description	Action Taken/Recommended	Date of Identification	Targeted Date for Completion	Date Completed				
next ITM – Tx#3											