

From: Brian Frenkel [mailto:Brian.Frenkel@avison.ca]
Sent: June 27, 2016 1:35 PM
To: danb@riskbuster.com; administrator@neef.ca
Cc: salewski@telus.net
Subject: NEWSS draft report

Good Afternoon Dan

Hope all is well.

I'm attaching a draft NEWSS/NEEF report for 2015/16

The report follows the approved NEEF reporting template.

Also attached is an excel spreadsheet that details the invoices by activity, the scanned invoices and the agreement with MOTI.

The report is draft for you to peruse and suggest any changes.

We are still awaiting our financial statement from KPMG but as soon as we receive it we will forward it on to you and the NEEF MC.

As it currently stands, NEWSS will be requesting an additional \$29,718 from the remainder of the 2015/2016 funding allocation.

The remaining funds from 2015/16 will not be requested.

If you have any comments or notice that I may have missed something please call.

Thanks Brian

Brian Frenkel
Director
Avison Management Services Ltd
Office 250-567-6603
Cell 250-567-8620

Murray Creek

Larson Road Culvert Replacement and Stream Rehabilitation

Final Report

Prepared By:

Olin Albertson, B.Sc., RP Bio., and Brian Frenkel, Director,
Avison Management Services



Prepared for:

The Nechako Environment & Water Stewardship Society (NEWSS)
S-0059345



In Fulfillment of the *Nechako Environment Enhancement
Fund* Contribution Agreement Requirements

2.0 Report Introduction

In continued effort to restore aquatic and riparian habitats in the Nechako Watershed, Avison Management Services was retained by Nechako Environment and Water Stewardship Society (NEWSS) to: (1) survey fish habitat in Murray Creek; (2) prescribe, design, conduct and oversee restoration projects and (3), on behalf of NEWSS, complete habitat prescription reports, environmental monitoring reports and a final report detailing the activities completed in the 2015/2016 fiscal year as required under the NEEF Contribution Agreement (Agreement). The one activity completed as per the NEEF Agreement requirements was the Larson Road Culvert Replacement and Stream Rehabilitation.

Project: Larson Road Culverts Replacement (Murray Creek KP10+000)

Project Proponents: Environment and Water Stewardship Society (NEWSS), Nechako Environment Enhancement Fund (NEEF) and the BC Ministry of Transportation and Infrastructure (MOTI).

Location: This project is located approximately 10km upstream of the Murray Creek confluence with the Nechako River within the District of Vanderhoof, B.C.

Site GPS Location: 10U 429942 5992718

Elevation: 684 m

Activity: Culvert Removal and Replacement and Stream Rehabilitation

Date of in-stream work: Nov 16 - Dec 14, 2015

Contractor: Van-Con Enterprises Ltd.

Environmental monitor: Olin Albertson, R.P.Bio.

Weather conditions: For the duration of the project, weather conditions ranged from clear to overcast with an approximate air temperature range of 2°C to -19 °C and events of wind and snow.



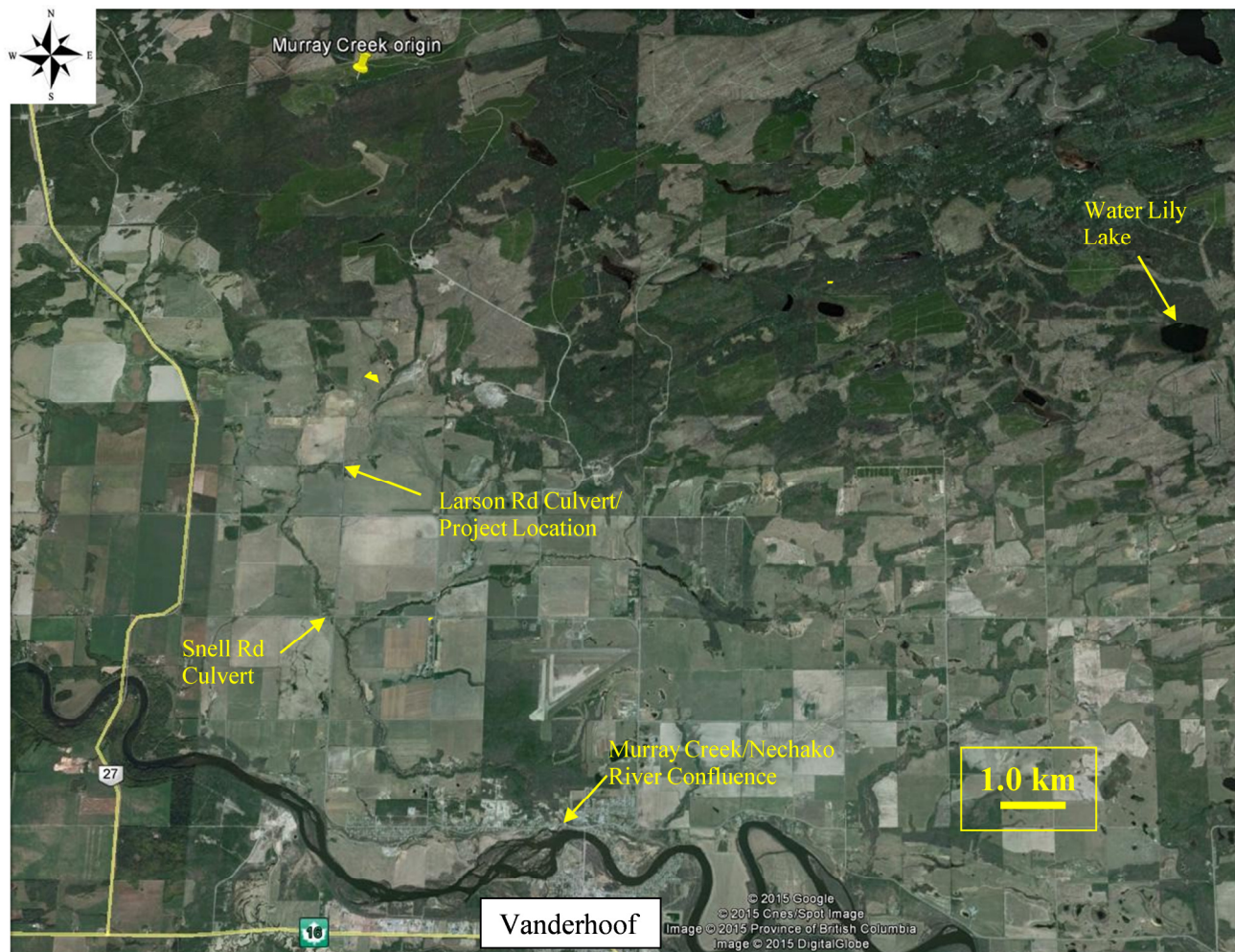


Figure 1. The Larson Road Culvert replacement and Stream Rehabilitation project location, drainage area from the headwaters to the Murray Creek/Nechako River confluence.

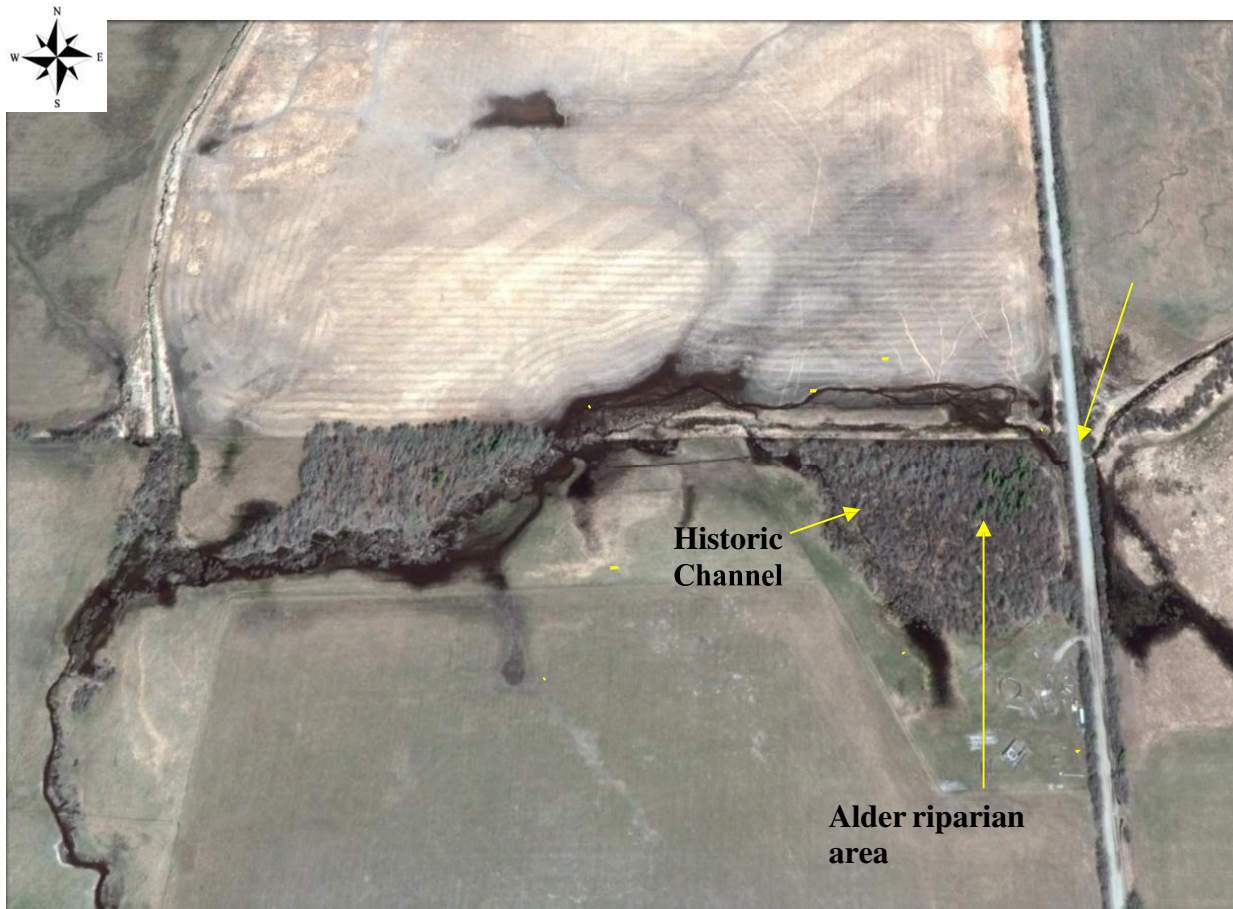


Figure 2. The Larson Road Culvert replacement and Stream Rehabilitation project location,

Acknowledgements

Funding for the Larson Road Culvert replacement and stream rehabilitation project was generously provided to the Nechako Environment and Water Stewardship Society (NEWSS) through grants from the Ministry of Transportation and Infrastructure (MOTI) and the Nechako Environmental Enhancement Fund (NEEF). Avison Management Services Ltd (Avison) biologist Olin Albertson and Wayne Salewski were the primary contributors towards the habitat prescriptions and coordinated and directed the actual instream habitat enhancement activities. Avison Director Brian Frenkel oversaw the budgeting and equipment and material purchases. Avison staff members Mark Tiley assisted with the environmental monitoring, erosion control/sediment isolation.

Many thanks go out to landowners John Andros and Allan Martens for allowing access to the project site through their property. We also wish to thank Richard Martens (President: Sinkut Mountain Cattlemen's Association) for meeting with landowners and facilitating the partnership between landowners and NEWSS. Also we must acknowledge the work performed by VanCon Enterprises Ltd for their excellent services in completing this project.



3.0 Board of Directors

As of March 31, 2016 the Board of directors of NEWSS (society # S-0059345) included:

Wayne Salewski
Cam Hill
Richard Martens
Brian Frenkel



4.0 Project Goals

The following Project Goals were established under our agreement with NEEF and project implementation worked towards achieving these six primary goals that meet NEEF objectives and NEEF Management Committee Decisions.

- 1) Facilitating the rehabilitation of streams that flow through the Nechako Valley Agricultural Belt (NEEF decision 6)
- 2) Facilitating watershed planning that provides a framework to protect, maintain and restore a healthy natural watershed.(NEEF decision 6 and 7)
- 3) Collaborating to improve the mapping of aquifers that lie beneath the Nechako Plateau and foster an improved understanding of the role healthy streams and riparian areas play in the dynamic interaction of surface and groundwater. (NEEF decision 6 and 7)
- 4) NEWSS will proactively work towards a cleaner and healthier environment, which is a stated vision set out in the Ministry of Environments 2013/2014 Annual Service Plan. (NEEF decision 6)
- 5) Facilitating and participating in environmental stewardship and education opportunities for schools, universities and the community at large, including stream rehabilitation, water quality, Nechako White sturgeon and salmonids. (NEEF decision 6)
- 6) Developing a program to administrate a "Gold Label" certification standard for agricultural products produced in the Nechako Valley by identifying opportunity to recognize agriculture producers that have Farm Stewardship Plans in place and apply Best Management Practices on the land and streams with stewardship as an objective and to ensure the legacy of these values.

4.1 Project Deliverables

- To employ a minimum of one full-time employee to manage the Recipient's operations
- Facilitate stakeholder engagement and education
- Implement stream rehabilitation projects
- Stabilize stream banks
- Re-establish denuded riparian zones
- Fence livestock out of streams and riparian zones
- Harden stream crossings for livestock
- Replace or install culverts to ensure proper fish passage
- Re-establish fish habitat on identified streams
- Reduce sedimentation and erosion
- Produce maps of aquifers underlying the Nechako Plateau
- Build partnerships in water stewardship



4.2 Comparison of 2015/16 Project to Deliverables

Deliverable	Larson Road Project
	Deliverable Achieved Y/N
Employ a minimum of one full-time employee	No*
Facilitate stakeholder engagement and education	Yes
Implement stream rehabilitation projects	Yes
Stabilize stream banks	Yes
Re-establish denuded riparian zones	No
Fence livestock out of streams and riparian zones	Yes
Harden stream crossings for livestock	No
Replace or install culverts to ensure proper fish passage	Yes
Re-establish fish habitat on identified streams	Yes
Reduce sedimentation and erosion	Yes
Produce maps of aquifers underlying the Nechako Plateau	No
Build partnerships in water stewardship	Yes

* money for the fulltime employee would have come from the second requisition of NEFF funds in 2015/16. Since only project work was completed by NEWSS, NEWSS did not request the second half of the 2015/16 NEEF funds and will discuss this deliverable in a future meeting with NEEF MC.

The Larson road culvert replacement and stream rehabilitation project met almost all of the deliverables as defined in schedule A of the NEEF agreement. Although NEWSS did not meet the deliverable of employing a full time employee, it is still the number one priority of the society. This project did not re-establish denuded riparian areas, or harden of any stream crossings and did not produce any maps of aquifers.

However the Larson road project did facilitate stakeholder engagement and education by the bringing together of various levels of government and private land owners to create a project that removed a major fish barrier and created better fish passage and fish habitat. The Larson stream rehabilitation project included the removal of three culverts, stabilized the stream bank inlet and outlet areas of the boxed culvert, reduced sedimentation and erosion and fenced out livestock from the stream and riparian zones.

5.0 - 6.0 Changes, Setbacks, Variances & Results

Project Activity	Changes, Setbacks, Variances	Results
Culvert Removal	Came in as budgeted (Bid Price)	Creek diverted and culverts removed
Base Preparation	Came in as budgeted (Bid Price)	As required by contract, aggregate was packed to a specific density
Boxed Culvert Installation	Came in as budgeted (Bid Price)	Purchased box culvert from Langley Precast installed at the correct skew and angle
Road Grade	Exceeded budget: Extra works Provision	Due to the size of the boxed culvert the running surface of the road had to be raised to eliminate a road surface bump. This was covered off in the extra works provisions of the contract.
Bank Stabilization	Exceeded budget: Extra works Provision	Additional rip rap was required on the downstream and upstream ends of the culvert. This was covered off in the extra works provisions of the contract.
Fencing	Came in as budgeted (Bid Price)	The fencing component of this project was completed to keep livestock out of the stream and riparian zone



7.0 Benefits

7.1 Project Completion

NEWSS and the MOTI co-operatively worked together to plan and implement this major fish passage issue on Murray Creek. With help from DWB Consulting (MOTI Hydrologists) from PG the project received approval from the regulatory agencies and was completed in early December 2015.

Below is a brief synopsis of the construction period of the project.

After equipment and necessary materials were on site, a diversion culvert was constructed north of the existing culverts to temporarily divert water around the work site. Once the work area was isolated, waste water was pumped out of the isolated area into riparian vegetation away from the stream channel while a fish salvage operation commenced to remove fish from inside the work area. Salvaged fish were released downstream of the work area in suitable the second newly constructed overwintering pond in the historic channel.

Common Name	Scientific Name	Location Observed
Rainbow trout	<i>Oncorhynchus mykiss</i>	Downstream of the Gravel Pit Rd culvert (KP11+0)
Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	Downstream of Snell Rd culvert (KP6+350) and the Gravel Pit Rd culvert (KP11+450)
Sculpin (general)	<i>Cottus spp.</i>	Upstream of Nechako River to 142m
Redside shiner	<i>Richardsonius balteatus</i>	Upstream of Nechako River to 142m
Suckers (general)	<i>Catostomidae</i>	Upstream of Nechako River to 142m

Once the work area was water free, the three undersized culverts were excavated and hauled off site. Following the removal of the old culverts, preparation for the bed of the new culvert commenced, followed by the precast concrete box culvert installation, and armouring of the inlet and outlet of the culvert and road shoulder as specified in the MOTI engineered drawings found in the Site Assessment, Prescription and Proposed Works for the Larson Road Culvert Replacement.



Pre and Post Work Site Photos

Pre-work photo of outlet looking upstream.



Post-work photo of outlet facing upstream.



Pre-work photo of outlet looking downstream.



Post-work photo of outlet looking downstream.



Pre-work photo of the inlet.



Post-work photo of the inlet.



Construction Phase Photos



Construction Phase Photos

Partial diversion of existing stream into new channel.



Placement of sheet piling for site isolation.



Commencement of culvert excavation following fish salvage.



Nearing completion of new culvert bed.



Placement of new culvert.



Nearing completion of new culvert placement.



Placing and compacting culvert fill.



Placing specified substrate in culvert.



Placing and washing of riprap (outlet).



Final placement of riprap at inlet.



Release of water through the culvert when clean.



MOTI inspection of works.



Fish Salvage Photos

First salvage Nov 26th at the outlets of the two southern culverts (15 Lake Chub were salvaged).



Fish salvage Dec 1st of isolated area between sheet piling prior to excavation. A total of 49 Chinook, 18 Rainbow, and 3 Lake Chub were salvaged at this time.

Photo of a salvaged Lake Chub.



Photo comparing Chinook and Rainbow.

Photo of one of the larger Rainbow Trout.



7.2 Total Dollars Expended

Budget Item as per Schedule A	\$ Value spent
Labour for project work	\$30,079
Travel	\$0
Equipment and Supplies for project work	\$298,230
Promotional Material	\$1,320
Overhead Cost	\$89
Total Project Cost	\$329,718

* see attached excel file for a detailed breakdown of the cost of this project

7.3 Leveraging Ratio

The total cost of this project was \$329,718 and the NEEF contribution was \$100,000. Using the formula as described in the report template (NEEF grant amount divided by the total project cost times 100) the NEEF leveraging ratio is 30.33.



7.4 Environmental Benefits Created

DECISION 6 – TRIBUTARY WATERSHED RESTORATION AND STEWARDSHIP

“We have decided that a total of \$2M of the NEEF be available by way of an annual allocation over a period of ten years, on a matching fund basis and in accordance with our Implementation Plan, in support of tributary watershed restoration and water stewardship.”

As per NEEF decision 6 stated above and outlined in the NEWSS/NEEF schedule A the Larson Road Culvert Replacement and Stream Rehabilitation project has provided a major improvement to fish passage on Murray Creek. The previous three undersized culverts were replaced by a boxed culvert with 30 cm of substrate. There were also 100 meters of bank armoring and erosion control completed on this project.

DECISION 7 – INTEGRATED WATERSHED RESEARCH

“We have decided that a total of \$1M of the NEEF be available by way of an annual allocation over a period of ten years, on a matching fund basis and in accordance with our Implementation Plan, in support of integrated watershed research.”

During the past year NEWSS focused most of its efforts on project work within the Nechako Valley. However we have worked on and been involved in several discussions around NEEF decision 7 – Integrated Watershed Research. NEWSS has been part of the Nechako Watershed Roundtable and is a member of the core committee. NEWSS has had conversations with Geo science BC on the obtaining their results from a project in Northeast BC that potentially could identify aquifers from a Geomagnetic flight.



8.0 Financial Report 2015/2016

Project Income

Contributor	Budget	Actual
Ministry of Transportation	\$200,000	\$200,000
Nechako Environment Enhancement Fund	\$100,000	\$100,000
Total for this project	\$300,000	\$300,000

The second \$100,000 requisition from NEEF for 2015/16 was not made, as that money would have been used for the full time employee and currently NEWSS has not advertised that position.

Project Expense


Category	Budgeted	Actual Cost	Actual Cost Net GST	Paid to	Invoice #
Labour for project work		\$4,210.50	\$4,010.00	Avison	3184
Labour for project work		\$1,092.00	\$1,040.00	Avison	3203
Labour for project work		\$9,140.59	\$8,705.32	Avison	3207
Labour for project work		\$17,140.20	\$16,324.00	Nine Sierra	16-02
Travel	N/A	N/A	N/A	N/A	N/A
Equipment & supplies for project work		\$40,824.34	\$38,880.00	Van Con	15092
Equipment & supplies for project work		\$2,940.00	\$2,800.00	Van Con	15167
Equipment & supplies for project work		\$13,860.00	\$13,200.00	Van Con	15169
Equipment & supplies for project work		\$28,560.00	\$27,200.00	Van Con	15176
Equipment & supplies for project work		\$226,957.50	\$216,150.00	Van Con	15134
Promotional Material		\$1,386.00	\$1,320.00	MR Concepts	747
Recipient Overhead		\$93.71	\$89.25	Avison	3203
Totals		\$346,204.84	\$329,718.57		



9.0 Public Recognition



As a funder of this project the NEEF logo will add to the sign that sit at the project site. Also our Facebook page and website will include NEEF as a funding partner of the Larson Road Culvert Replacement and Stream Habilitation project.


The sign will be identical to the one below with the Larson Road Project as the title. This sign has not been created but will be developed and installed by the end of July 2016.



Murray Creek Rehabilitation Project

NECRAND ENVIRONMENT & WATER STEWARDSHIP SOCIETY
NEWS
NECRAND ENVIRONMENT & WATER STEWARDSHIP SOCIETY

 Fisheries and Oceans Canada  Pêches et Océans Canada

 NEEF

**DOWNSTREAM OF LARSON ROAD
 RESTORING THE HISTORIC CHANNEL AND ENHANCING SPAWNING, REARING, AND OVERWINTERING HABITAT**


The Murray Creek Rehabilitation Project aims to enhance habitat along the creek for the benefit of landowners, the public, fish, and wildlife. The project is a community effort supported by government that is being implemented through voluntary landowner participation.

Reasons for Restoration:

- Over time the stream channel was diverted from the historic channel into a ditch that had inadequate capacity and became overgrown with vegetation.
- The stream began to cut new channels in the adjacent field causing erosion and downstream sedimentation in the creek affecting water quality and fish habitat.

Restoration Work Completed:

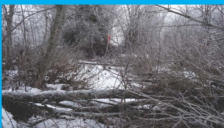
- Re-established the banks by digging a channel that directs water downstream instead of outwards.
- Created overwintering fish habitat that are deep sections or pools in the channel that provide ice-free water.
- Hardened a cattle watering site using geocel and armouring to prevent bank erosion and reduce sediment suspension.




YOU ARE HERE

Culvert


- Priority 1A: Minimum streamflow with high potential level of habitat quality.
- Priority 2B: Moderate and large streamflow with moderate level of habitat quality potential level.
- Priority 3B: Moderate and large streamflow with low to moderate level of potential habitat quality.
- Priority 4A: Small streamflow with low to moderate potential for habitat quality.




Historical channel of Murray Creek downstream of Larson Road.




Defined banks, deep sections of creek with logs and boulders to provide fish habitat.




Historical channel of Murray Creek downstream of Larson Road.



Rock weirs, plunge pools, and gravel at pool tailouts ideal habitat for spawning.



Hardened livestock watering site using geocel, gravels and armouring.



Deep pools and large woody debris to provide rearing and overwintering habitat.



INVOICE

M. R. Concepts

PO Box 2584
Vanderhoof, BC
VOJ 3A0

Mobile: 250-570-8560
Email: michelle@mrconcepts.ca
Website: www.mrconcepts.ca

Services to:

NEWSS

Wayne Salewski
Vanderhoof, BC, Canada

M. R. Concepts

Invoice #747

Invoice Date: **February 28, 2016**

Due Date: **March 27, 2016**

Project: **Web, Facebook and Design**

Service	Description	Quantity	Rate	Amount
Graphic Design	Murray Creek Signs from 2015	3.0	\$60.00	\$180.00
Website Maintenance	Updates to nvessociety.org to February 28, 2016	15.25	\$60.00	\$915.00
Website Hosting	Hosting Package for one year	1.0	\$90.00	\$90.00
Facebook	Creation of Facebook page and updates to February 28, 2016	2.25	\$60.00	\$135.00
Subtotal				\$1,320.00
GST				\$66.00
TOTAL				\$1,386.00

Please make payment by either:

- **cheque** payable to M. R. Concepts
- **eTransfer** to michelle@mrconcepts.ca

Thank you for choosing M. R. Concepts.



AVISON MANAGEMENT SERVICES LTD.

forest & fisheries management through environmental leadership
P.O. Box 774, Vanderhoof, BC V0J 3A0
Phone (250) 567-2111
Fax (250) 567-2044
Email mailus@avison bc ca

INVOICE
3184

NEWSS
PO Box 1983
Vanderhoof BC V0J 3A0

Date: October 31, 2015

Attention: Wayne Salewski

AMS Contract 14-34

G.S.T. #R100362052

PLEASE RETURN THIS PORTION WITH PAYMENT

NEWSS and the Larsen Road Project

Description

	<u>Hours</u>	<u>Rate/hr</u>	<u>Total</u>
Administration			
Brian Frenkel	10.50	\$65.00	\$682.50
Olin Albertson	49.50	\$65.00	\$3,217.50
Chris Sutton	2.00	\$55.00	\$110.00

Subtotal	\$4,010.00
GST	\$200.50
Total this invoice	\$4,210.50



AVISON MANAGEMENT SERVICES LTD.

forest & fisheries management through environmental leadership
P.O. Box 774, Vanderhoof, BC V0J 3A0
Phone (250) 567-2111
Fax (250) 567-2044
Email mailus@avison.bc.ca

INVOICE
3203

NEWSS
PO Box 1983
Vanderhoof BC V0J 3A0

Date: December 31 2015

Attention: Wayne Salewski

AMS Contract 14-34

G.S.T. #R100362052

PLEASE RETURN THIS PORTION WITH PAYMENT

NEWSS and the Larsen Road Project

Description

	<u>Hours</u>	<u>Rate/hr</u>	<u>Total</u>
Administration			
Brian Frenkel	16.00	\$65.00	\$1,040.00
Disbursements	Omineca Express		\$89.25
		Subtotal	\$1,129.25
		GST	\$56.46
		Total this invoice	\$1,185.71



AVISON MANAGEMENT SERVICES LTD.

forest & fisheries management through environmental leadership
P.O. Box 774, Vanderhoof, BC V0J 3A0
Phone (250) 567-2111
Fax (250) 567-2044
Email mailus@avison.bc.ca

INVOICE
3207

Van Con Enterprises Ltd
PO Box 2004
Vanderhoof BC V0J 3A0

Date: December 31 2015

Attention: Paul Blattner

AMS Contract 15-53

G.S.T. #R100362052

PLEASE RETURN THIS PORTION WITH PAYMENT

Larson Road Environmental Monitor

Description

	<u>Hours</u>	<u>Rate/hr</u>	<u>Total</u>
Field			
Olin Albertson	70.75	\$65.00	\$4,598.75
Mark Tiley	18.50	\$55.00	\$1,017.50
Office			
Olin Albertson	40.00	\$65.00	\$2,600.00
Richs Saw Sales Pump rental			\$48.15
Truck kms	604.00	\$0.73	\$440.92

Subtotal	\$8,705.32
GST	\$435.27
Total this invoice	\$9,140.59

March 31 2016

Invoice 016- 02

Nechako Environment Water Stewardship Society
220 Steward St BC
Vanderhoof BC
V0J 3A0

Please accept this as my invoice for work completed on the NEWSS restoration projects, including meetings with farms ranches and the community and the onsite supervision and planning for the project.

250 hours @ \$60.00	\$15,000.00
2,240 Km @ .52	\$1,164.00
office supplies	160.00
Total	\$16,324.00
GST .05%	816.20
Total Invoice	\$17,140.20

Payable:
Wayne Salewski
PO Box 1983
Vanderhoof BC
V0J3A0

Van Con Enterprises Ltd.

Box 2004
 Vanderhoof, British Columbia V0J 3A0
 Canada

INVOICE

Invoice No.: 15092
 Date: 28/10/2015
 Ship Date:
 Page: 1
 Re: Order No.

Sold to:

Nechako Environmental Stewardship Society (NEWSS)
 Vanderhoof, BC

Ship to:

Nechako Environmental Stewardship Society (NEWSS)
 Vanderhoof, BC

Business No.: 851616573RP0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
			Progress payment # 1 for The Murray Creek Crossing Project #72306	G		38,880.32
			G - GST - 5% GST			1,944.02
<p><i>Larson Rd.</i></p> <p><i>[Signature]</i></p>						
<p><i>145</i></p> <p><i>11/5/15</i></p>						
Shipped By: _____ Tracking Number: _____						
Comment: Please make cheques payable to Van-Con Enterprises Ltd.					Total Amount	40,824.34
Sold By: _____						

Van-Con Enterprises Ltd.

Box 2004
 Vanderhoof, British Columbia V0J 3A0
 Canada

INVOICE

Invoice No.: 15169
 Date: 23/02/2016
 Ship Date:
 Page: 1
 Re: Order No.

Sold to:

Nechako Environment & Water Stewardship Society
 PO Box 1983
 Vanderhoof, BC V0J 3A0

Ship to:

Nechako Environment & Water Stewardship Society
 PO Box 1983
 Vanderhoof, BC V0J 3A0

Business No.: 851616573RP0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
11 December 2015	M3	207	Larson Road Culvert Project - Additional Volume Required to Item 02.09 Riprap - actual amount supplied and placed (please see slips on separate page)			
	M3	-75	Item 02.09 of contract - included in original contract price and paid on last progress payment			
	M3	132	Item 02.09 - Volume not included in original contract price	G	100.00	13,200.00
			G - GST - 5% GST			660.00
Shipped By: _____ Tracking Number: _____						
Comment: Please make cheques payable to Van-Con Enterprises Ltd.					Total Amount	13,860.00
Sold By: _____						

Van-Con Enterprises Ltd.

Box 2004
Vanderhoof, British Columbia V0J 3A0
Canada

INVOICE

Invoice No.: 15176
Date: 25/02/2016
Ship Date:
Page: 1
Re: Order No.

Sold to:

Nechako Environment & Water Stewardship Society
PO Box 1983
Vanderhoof, BC V0J 3A0

Ship to:

Nechako Environment & Water Stewardship Society
PO Box 1983
Vanderhoof, BC V0J 3A0

Business No.: 851616573RP0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
Item 02.08	Cubic Meter	340	LARSON ROAD CULVERT PROJECT: PROPOSED COST ESTIMATE FOR GRAVEL WORKS STILL TO BE COMPLETED 25mm Well Graded Base (WGB) Course Supplied in Place	G	80.00	27,200.00
			G - GST - 5% GST			1,360.00
Shipped By: Tracking Number:						
Comment: Please make cheques payable to Van-Con Enterprises Ltd.					Total Amount	28,560.00
Sold By:						

Van-Con Enterprises Ltd.

Box 2004
 Vanderhoof, British Columbia V0J 3A0
 Canada

INVOICE

Invoice No.: 15134
 Date: 15/12/2015
 Ship Date:
 Page: 1
 Re: Order No.

Sold to:

Nechako Environmental Stewardship Society (NEWSS)

Vanderhoof, BC

Ship to:

Nechako Environmental Stewardship Society (NEWSS)
 Vanderhoof, BC

Business No.: 851616573RP0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
			PROJECT: Murray Creek Culvert at Larson Road Substantial completion date: December 14, 2015 Holdback release date: February 7, 2016	G		216,150.00
			G - GST - 5% GST			10,807.50
<p>145 INV # 15092 \$40,824.34 11/5/15</p>						
<p>151 INV # 15134 \$162,500.00 11/2/16</p>						
Shipped By: _____				Tracking Number: _____		
Comment: Please make cheques payable to Van-Con Enterprises Ltd.					Total Amount	226,957.50
Sold By: _____						

Suppliers

		Total Cost	MR concept	Invoice #	Avison	Invoice #	line Sierra Holdings	Invoice #	Van Con	Invoice #
Activity 1	Labour for project work	\$30,079			\$4,010.00	3184	\$16,324.00	1602		
					\$1,040.00	3203				
					\$8,705.32	3207				
Activity 2	Travel	\$0								
Activity 3	Equipment and Supplies for Project	\$298,230							\$38,880	15092
									\$2,800	15167
									\$13,200	15169
									\$27,200	15176
									\$216,150	15134
Activity 4	Promotional Material	\$1,320	\$1,320.00	747						
Activity 5	Recipient	\$89			\$89.25	3203				
Total		\$329,719	\$1,320.00		\$13,844.57		\$16,324.00		\$298,230.32	

LETTER OF AGREEMENT 356LA0077

BETWEEN

**Her Majesty the Queen in the Right of the Province of British Columbia,
as represented by the MINISTER OF TRANSPORTATION
AND INFRASTRUCTURE
Northern Region
#213 - 1011 4th Avenue,
Prince George, BC V2L 3H9**

(the "Ministry")

AND:

**NECHAKO ENVIRONMENT & WATER STEWARDSHIP SOCIETY
(Society Number S 59345)
PO Box 1983
Vanderhoof, BC V0J 3A0**

(the "NEWSS")

**Re: Murray Creek Watershed Environmental Enhancement
Larson Road Culvert Replacement Project**

For good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged by the Ministry and NEWSS, each to the other), the Parties agree to the terms set out in this Agreement:

1. The Ministry wishes to enter into an agreement with NEWSS for the purpose of constructing a new stream crossing, including associated roadworks, in the Murray Creek watershed on Larson Road north of Vanderhoof (the "Project Works").

Definitions

2. Throughout this document, terminology is used as follows:
 - a. "Contractor" means the successful Proponent who enters into an agreement to undertake the Project Works with NEWSS;
 - b. "Ministry Contract Administrator" means the person identified as such by the Ministry, who is authorized to act on behalf of the Ministry to represent the Ministry in matters related to this agreement;
 - c. "Ministry Representative" means the Ministry's on site field representative who will be designated to act on behalf of the Ministry to represent the Ministry in matters related to this agreement;

- d. "NEWSS Contract Administrator" means the person identified as such by NEWSS who is authorized to act on behalf of NEWSS to represent NEWSS in matters related to this agreement, and;
- e. "NEWSS Representative" means the NEWSS' on site field representative who will be designated to act on behalf of NEWSS to represent NEWSS in matters related to this agreement.

Description of the Project

- 3. The NEWSS will provide services, according to this agreement resulting in the completion of the Project Works which will include, but not be limited to, the replacement of three undersized roadway culverts with one new crossing structure together with associated modifications to Larson Road and the Murray Creek channel.

Ministry Obligations

- 4. The Ministry will pay a maximum amount of \$200,000 plus applicable taxes to NEWSS for the regulatory permitting, contract tender and construction phases of the Project Works.
- 5. The Ministry will name a Ministry Contract Administrator and a Ministry Representative:
 - a. The Ministry Contract Administrator for this Agreement is Daryl Nolan, Manager Environmental Services.
 - b. The Ministry Representative for this Agreement will be named at a later date.
- 6. The Ministry will retain, at its cost, appropriately qualified professionals to provide services (including, but not limited to: site survey, geotechnical engineering, hydrotechnical engineering, bridge structure and roadway engineering) leading to the delivery to the NEWSS of a detailed design and contract specifications package for the construction of the Project Works.
- 7. The Ministry will retain an appropriately qualified Ministry Representative for the construction phase of the Project Works.
- 8. The Ministry will provide a site plan/profile drawing set and pertinent ministry-commissioned assessment reports (including, but not limited to background reports examining geotechnical, hydrotechnical, and environmental conditions).
- 9. The Ministry will advise on matters regarding standards and policy.
- 10. The Ministry will review and approve work planning, scope and schedule changes.

NEWSS Obligations

11. The NEWSS will allocate \$100,000 to the Project Works.
12. The NEWSS will name a NEWSS Contract Administrator and a NEWSS Representative:
 - a. The NEWSS Contract Administrator for this Agreement is Wayne Salewski, Director, NEWSS, and;
 - b. The NEWSS Representative for this Agreement is Olin Albertson, Biologist, Avison Management Services Ltd.
13. The NEWSS will acknowledge the support of the Ministry of Transportation and Infrastructure's Environmental Enhancement Fund in reports and news releases resulting from this agreement.
14. The NEWSS will ensure that Project Works construction is undertaken in a manner acceptable to the Ministry, regulatory agencies, and stakeholders who NEWSS represents.
15. The NEWSS will be responsible for all requirements associated with undertaking the Project Works including but not limited to:
 - a. Tender and execution of a contract for the fall 2015 construction of a replacement structure in accordance with the engineered bridge and roadworks design provided by the Ministry;
 - b. Design and construction of any Murray Creek channel works upstream and downstream of the boundaries of the Ministry's Larson Road right-of-way as may be needed to achieve the NEWSS' goals for restoring fish passage and natural stream processes including, but not limited to, a proposed move of the creek back into its natural channel from its current location in a cultivated field, and;
 - c. Completion of *Water Act* and other relevant regulatory notifications or approval applications.
16. The NEWSS will, in the event that total expenditures for the Project Works on Larson Road are less than \$300,000, use any remaining project funds for procuring engineering services needed for the preparation of an engineered design for a second culvert replacement project at another Ministry crossing in the Murray Creek Watershed.
17. The NEWSS will comply with and ensure compliance with any and all applicable laws and regulations relating to the substance of this Agreement and all aspects of the Project Works.
18. The NEWSS will implement a Quality Management Plan to ensure the delivery of the Contractor's services are error free, timely, cost effective, and meet Ministry standards outlined in this document and include a clear process to ensure any quality deficiencies are addressed.

19. The NEWSS shall obtain and maintain or shall cause to be obtained and maintained insurance, including coverage limits, as would be required by a reasonable party in comparable circumstances. All required insurance under this Agreement must be placed with insurers licensed to transact business in British Columbia or Canada. The NEWSS will provide evidence of insurance to the Ministry only upon request by the Ministry by providing a compliant original signed and certified Ministry Certificate of Insurance (Ministry form H-0111). Upon further request by the Ministry the NEWSS shall file originals or signed certified copies of all current policies and any endorsement necessary to comply with these insurance requirements.
20. The NEWSS will at all times indemnify and save harmless Her Majesty the Queen in Right of the Province of British Columbia, as represented by the Minister of Transportation and Infrastructure, and the employees, servants, and agents of the Minister from and against all claims, actions, causes of action, demands, losses, damages, costs, liabilities, expenses, fines, fees, penalties, assessments and levies, made against or incurred, suffered or sustained by any of them, at any time or times (whether such interest, fines or costs are court ordered or otherwise and whether before or after the expiration or termination of this Agreement) where the same or any of them are sustained in any way as a result of this Agreement, which indemnity will survive the expiration or sooner termination of this Agreement.

FEES AND PAYMENT

21. The Ministry will pay for the Project Works in accordance with the payment provisions set out below:
 - a. A NEWSS invoice for \$200,000 will be accepted upon execution of the agreement, and;
 - b. The NEWSS invoice will be submitted to the Ministry Representative and include a reference to agreement number 356LA0077.
22. Notwithstanding any other provision of this Agreement, the payment of money by the Ministry to NEWSS pursuant to this Agreement is subject to:
 - a. There being sufficient monies available in an appropriation, as defined in the B.C. *Financial Administration Act* (the "FAA"), to enable the Ministry in any fiscal year when any payment of money by the Ministry falls due pursuant to this Agreement, to make that payment, and;
 - b. Treasury Board, as defined in the FAA, not having controlled or limited, pursuant to the FAA, expenditure under any appropriation referred to in subparagraph (a) of this paragraph.
23. The NEWSS will establish and maintain accurate books of accounts and records, including supporting documents, of all costs incurred and monies paid in connection with the Project Works and of the application of funds contributed by the Ministry, and will permit the Ministry at any time or times during normal business hours to copy or audit, or both, any or all of such books or account and records, including supporting documents.

TERM

24. The Parties agree that the term of this Agreement will commence on the date of execution by the Ministry and will end on March 31, 2016 unless terminated by the Ministry.

TERMINATION

25. The Ministry may terminate this Agreement:
- a. Immediately for NEWSS's failure to comply with this Agreement by giving written notice of termination to NEWSS, and;
 - b. For any other reason by giving at least ten (10) days written notice of termination to NEWSS.
26. The Parties agree that if the Ministry terminates this Agreement under paragraph (b) above, the Ministry must pay NEWSS the portion of fees and expenses of the Project Works that was completed to the Ministry's satisfaction before termination. That payment discharges the Ministry from all liability under this Agreement.
27. The Parties agree that if the NEWSS fails to comply with this Agreement, the Ministry may terminate it and pursue other remedies.

GENERAL

28. The Parties agree that any amendment to the terms and conditions of this Agreement must be in writing and duly executed by both Parties.
29. The Parties agree to negotiate all disputes arising from this Agreement in good faith after receiving written notification of the existence of a dispute from any Party.
30. The NEWSS will at all times treat as confidential all documents and other information supplied to or obtained as a result of this Agreement and shall not permit the publication, release or disclosure of the same without the prior written consent of the Ministry. This obligation survives the completion or termination of this Agreement.
31. The Parties agree that this Agreement will be construed in accordance with the laws of the Province of British Columbia. A reference to a statute in this Agreement, whether or not that statute has been defined, means a statute of the Province of British Columbia, unless otherwise stated and includes all amendments to it, the regulations made under it and any enactment passed in substitution therefore or replacement thereof.

32. Time is of the essence in this Letter of Agreement.

The Parties have executed this Letter of Agreement as of

March 21, 20 14

Signed on behalf of Her Majesty the Queen
in the right of the Province of British
Columbia, as represented by the Minister
of Transportation and Infrastructure on

March 21, 20 14

In the presence of:

Daryl Nolan

Signature of Witness

[Signature]

Signature of Authorized Representative of
Ministry

Daryl Nolan

Name of Witness

Regional Manager Engineering

Title

Signed on behalf of the NEWSS

MARCH 21, 20 14

In the presence of:

[Signature]

Signature of Witness

[Signature]

Signature of Authorized Representative of the
NEWSS

Olin Albertson

Name of Witness

CHAIR - NEWSS

Title