

DP-32-11 - Pollock

REPORT TO THE JUAN DE FUCA LAND USE COMMITTEE MEETING OF TUESDAY, JANUARY 17, 2012

SUBJECT

DEVELOPMENT PERMIT WITH VARIANCE FOR LOT 6, SECTION 44, SOOKE DISTRICT, PLAN 1958

ISSUE

The purpose of this report is to request a steep slope and riparian development permit with variance for the purpose of legalizing an addition and for the construction of new decks.

BACKGROUND

The 0.96ha property is located at 7726 Davidson Road in Otter Point and is zoned Rural Residential 3 (RR-3). The property is adjacent to RR-3 zoned properties to the east and west, Kemp Lake to the north and Davidson Road to the south (Appendix 1). There is an existing legal non-conforming dwelling on the property and Building Inspection staff were made aware of recent construction on the property including an addition of 16.5m^2 of living space, a new 47m^2 deck on the northwestern side of the dwelling, and a new 41m^2 deck is proposed to be constructed over an existing patio (Appendices 2 & 3).

The existing structure, including covered porch, is within the 6m side yard setback of the RR-3 zone. The new attached deck also encroaches into the side yard setback. Therefore, a variance is required to relax the side yard setback to permit the construction. Both the existing and proposed structures are entirely within the 30m riparian development permit area of the Otter Point Official Community Plan Bylaw No. 3354. Therefore, the owners are requesting a development permit with variance to legalize the proposed construction.

ALTERNATIVES

- 1) Approve the steep slopes and riparian development permit with variance to:
 - a. Relax the side yard setback from 6m to 0.42m to permit the 16.5m² addition to the dwelling including a 0.42m overhang and 47m² attached deck;
 - b. Permit the construction of the proposed 41m² detached deck.
- 2) Deny the steep slopes and riparian development permit with variance to:
 - a. Relax the side yard setback from 6m to 0.42m to permit the 16.5m² addition to the dwelling including a 0.42m overhang and 47m² attached deck;
 - b. Permit the construction of the proposed 41m² detached deck.

LAND USE IMPLICATIONS

Steep Slope and Riparian Development Permit Area:

As the new construction is not within an area on the property exceeding a 20% slope; a report from a geotechnical engineer was not requested. As a requirement of the riparian development permit, the applicant has submitted a Qualified Environmental Professional's (QEP) report pursuant to the *Riparian Areas Regulation* (RAR) (Appendix 4). The report describes the existing conditions of the site prior to the new construction; the existing dwelling, covered deck, patios, paths and wharf all encroach within the Streamside Protection and Enhancement Area (SPEA) as defined by the RAR assessment. The area of original encroachment totals 4.7m² and the area of the new encroachment would be 60.9m² for a total encroachment area of 65.6m². The report recommends a "flexing" of the SPEA around the encroachment and addition of an equal area outside the standard SPEA including restoration work in an area of approximately 95m².

The report recommends flagging of the SPEA during construction and installation of permanent markers along the SPEA to ensure no future encroachment occurs. Restoration measures are outlined and are to include removal of stored materials, debris and non-native species within the SPEA and replanting of native species including mulching, irrigation and maintenance for a minimum of three years. Sediment

Report to LUC –DP-32-11 January 17, 2012 - Page 2

and erosion control measures are outlined in the report and are recommended to be implemented prior to construction to ensure no sediment laden water enters Kemp Lake, a drinking water supply area. Regular monitoring of the construction by a QEP is required by the RAR; the report recommends monitoring of erosion and sediment controls, marking of the SPEA, restoration activities and regulating the use of heavy machinery. A post-construction report will be filed after the development is complete.

In order for the RAR assessment report to be accepted by the Ministry of Environment (MOE), the local government has been asked to submit a letter confirming support of the proposal to "flex" the SPEA. Therefore, should the development permit with variance be approved, a letter will be submitted to MOE and the final RAR assessment will be submitted. Staff recommend that should the development permit with variance be approved, to ensure the restoration of the SPEA as required under the RAR, a security bond be collected for 150% of the value of the restoration and monitoring in order to ensure the work is carried out.

Variance:

The existing dwelling with covered deck was constructed 0.5m from the east property line on the subject property. The side yard setback established by the RR-3 zone is 6m and, as the structure was built prior to establishment of the zoning and CRD Building Inspection records, is considered to have legal non-conforming status. Recent construction to the dwelling, including a 16.5m² addition of living space and 47m² attached deck, was done without benefit of a building permit. The owners are now requesting a variance to legalize the construction within the 6m side yard setback. The new construction encroaches further within the setback as the corner of the addition is 0.42m from the property line; however, the roof overhang currently extends 0.11m into the neighbouring property. There may be concerns regarding the additional living space located in close proximity to the eastern property line. The roof overhang should be reduced at least to the property line so as to not encroach onto the neighbours property and issues such as drainage and access to this area may also need to be addressed. The attached deck is within the 6m side yard setback but is oriented away from the neighbouring property and may pose less of an impact. Therefore, staff recommend the variance be considered subject to public notification.

LEGISLATIVE IMPLICATIONS

The Sooke Land Use Bylaw No. 2040 specifies setback requirements for the RR-3 zone. To vary these requirements, a development variance permit is required.

The Otter Point Official Community Plan (Bylaw No. 3354) outlines development permit guidelines. The property is within the Steep Slopes and Riparian Development Permit Areas; therefore, a development permit is required.

PUBLIC CONSULTATION IMPLICATIONS

Pursuant to the *Local Government Act*, Section 922(4), if a local government is proposing to pass a resolution to issue a development variance permit it must give notice to each resident/tenant within a given distance as specified by bylaw. Capital Regional District Bylaw No. 3110, Fees and Procedures Bylaw, states that the Board at any time may refer an application to an agency or organization for their comment. In addition, it states that a notice of intent must be mailed to adjacent property owners within a distance of not more than 500 metres. Any responses received from the public will be presented at the January 17, 2012 Land Use Committee meeting.

CONCLUSION

There is an existing legal non-conforming dwelling on the property located within the 6m side yard setback and riparian development permit area. Construction to the dwelling has commenced without benefit of a permit. The owners are requesting a development permit with variance to legalize the construction. A report has been submitted from a Qualified Environmental Professional recommending a setback from Kemp Lake, a drinking water supply area, and outlining mitigation measures for construction, monitoring and restoration. Staff recommend the development permit with variance be considered subject to public notification.

RECOMMENDATION

That the Land Use Committee recommends to the Capital Regional District Board:

- 1. That the steep slopes and riparian development permit (DP-32-11) for Lot 6, Section 44, Sooke District, Plan 1958 for the proposed construction of a 16.5m² addition to the dwelling, a 47m² attached deck and a 41m² detached deck as shown in Appendices 2 and 3 and the request for:
 - a. relaxation of the side yard setback from 6m to 0.42m for the purpose of constructing an attached deck and addition to the dwelling with a 0.42m overhang to the property line

be approved, subject to the following conditions:

- i. that the Qualified Environmental Professional's report prepared by Swell Environmental Consulting Ltd. dated November 26, 2011, as shown in Appendix 4 be submitted to Ministry of Environment for final approval prior to construction;
- ii. that the proposed development comply with the recommendations outlined in the Qualified Environmental Professional's report prepared by Swell Environmental Consulting Ltd. dated November 26, 2011, as shown in Appendix 4, including site monitoring, restoration and submission of a final report;
- iii. that a bond in the value of 150% of the monitoring and restoration work, as determined by a qualified professional, be secured prior to construction and held for three years and until a final report is submitted from the QEP confirming the monitoring and restoration works are complete.

Emma Taylor, MA

Planner

June Klassen, MCIP

Manager, Local Area Planning

Robert Lapham, MCIP

General Manager, Planning & Protective Services

Kelly Daniels

Chief Administrative Officer

Concurrence

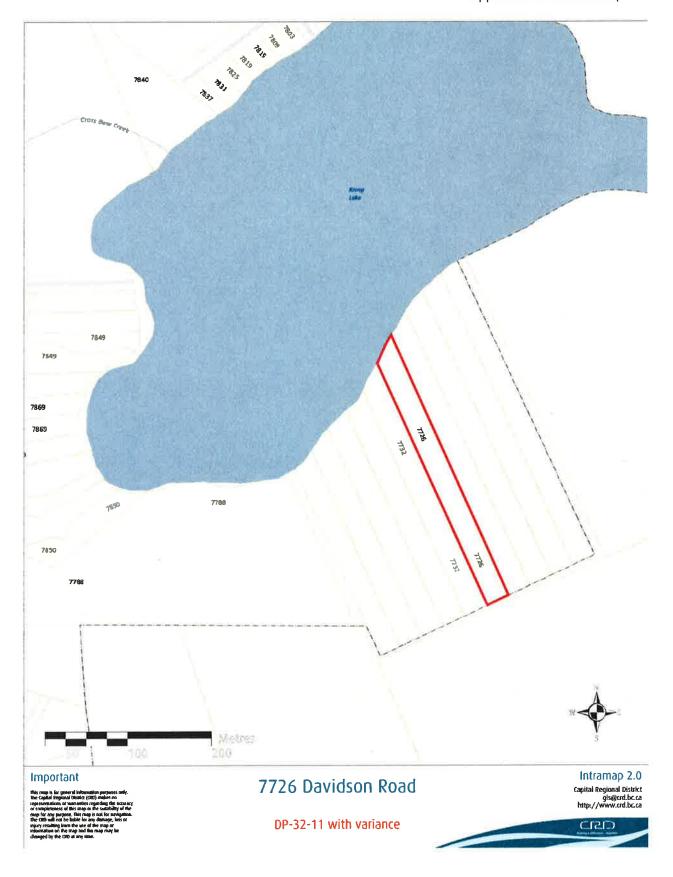
Appendix 1: Location Map

Appendix 2: Building Plans

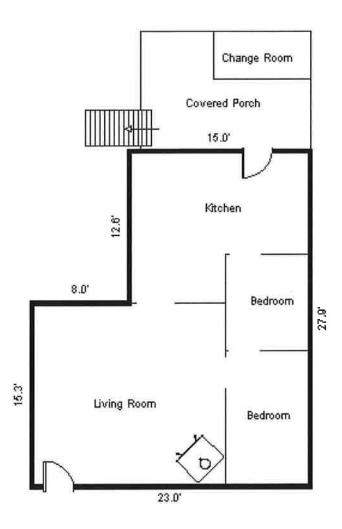
Appendix 3: McIlvaney Riley Land Surveying Inc. Survey, December 12, 2011

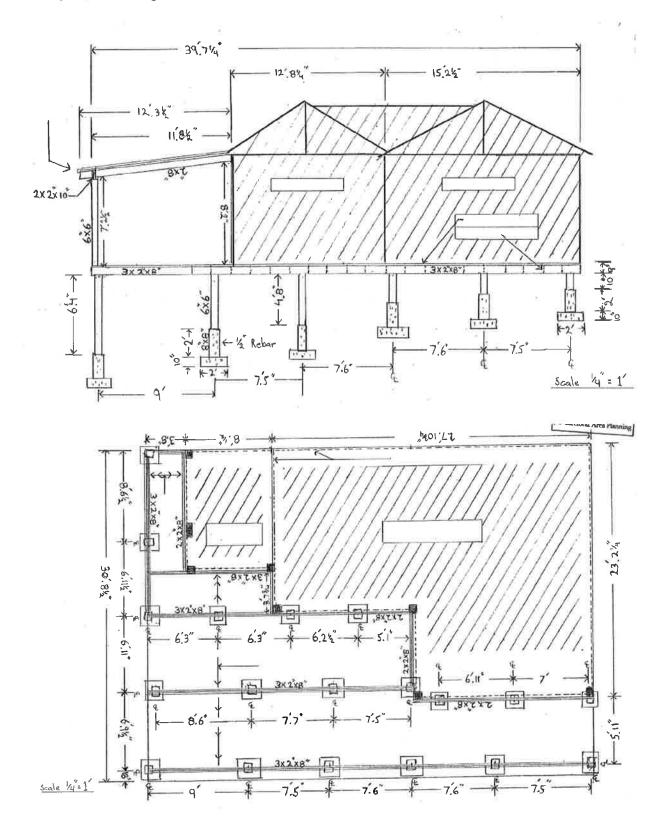
Appendix 4: Swell Environmental Consulting Ltd. Report, November 26, 2011

Appendix 1: Location Map

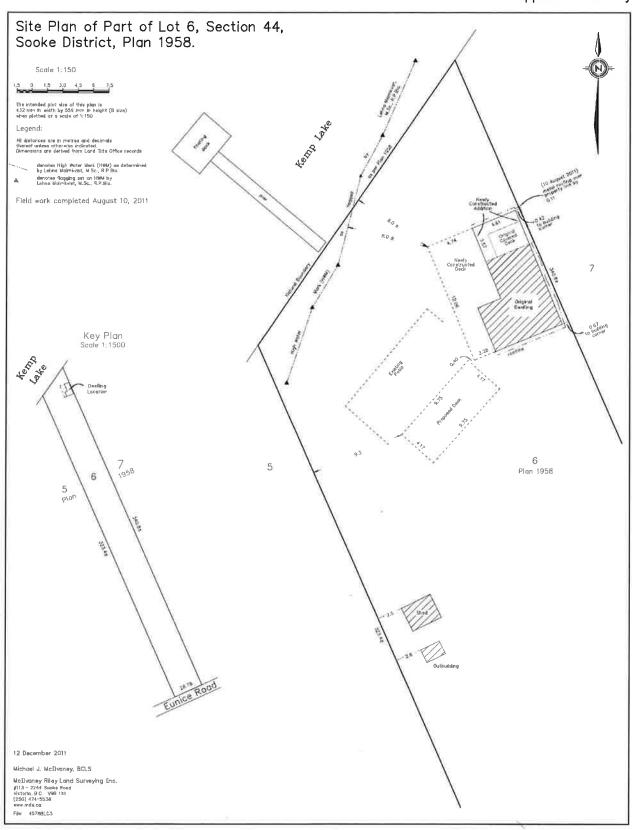


Lot 6 Davidson Road





Appendix 3: Survey



DRAFT

Riparian Areas Regulation Assessment Report for Lot 6 - 7726 Davidson Road Sooke BC



November 26, 2011

For John & Lynn Pollock 3211 Loledo Place, Victoria, BC V9C 3W6

By: Lehna Malmkvist, MSc, RPBio #1613 Swell Environmental Consulting Ltd. 3345 University Woods, Victoria, BC V8P 5R2

Table of Contents

 Description of Fisheries Resources Values and a Description of the Develo 	pment
Proposal	
1.1. Watershed Context and Fisheries Values	
1.2 Existing Condition	
1.3 Proposed Development	
2. Results of Detailed Riparian Assessment	
3. Site Plan	
Section 4. Measures to Protect and Maintain the SPEA	
4.1 Danger Trees	10
4.2 Windthrow	10
4.3 Slope Stability	10
4.4 Protection of Trees	10
4.5 Encroachment	10
4.6 Erosion and Sediment Control	12
4.7 Stormwater Management	
4.8 Floodplain Concerns	12
5. Environmental Monitoring	14
5.1 Post-Construction Report	14
6. Photographs	15
7. Assessment Report Professional Opinion on the Development Proposal's F	Riparian
Area	20
Appendix 1: E-mail record of discussion with MFLNRO and DFO staff	21

Riparian Area	is Regulation: A	sses	sment Rep	ort		a.	为作品 为各种方式
Please refer to sub	mission instructions ar	nd asse	essment repor	t guidelir			
					Da	te	December 7, 2011
I. Primary	QEP Inform	atio	n				
First Name	Lehna		Middle	Name	Kathl	een	
Last Name	Malmkvist		- 111				
Designation	RPBio		Corr	pany S	well Er	vironr	mental Consulting Ltd.
Registration #	1613		Ema	mail lehna@swell.ca			
Address	3345 University Wo	ods					
City	Victoria	Post	al/Zip V8	P 5R2	Phon	e #	250-217-9190
Prov/state	BC	Cour	ntry Ca	nada			
II. Secondary QI	EP Information (use	Form	2 for other ((PS)			
First Name			Middle Nam	е			
Last Name							
Designation			Com	pany			
Registration #			Ema	il			
Address							
City		Post	al/Zip		Pł	one#	
Prov/state		Cour	ntry				
III. Developer In	formation	-					
First Name	Lynn and John		Middle	Name			
Last Name	Pollock						
Company							
Phone #	250-478-6240 Email johnpollock@shaw.ca						
Address	3211 Loledo Place			111			
City	Victoria		Postal/Zip	V9C	3W6		
Prov/state	BC		Country	Cana	ıda		
IV. Development	Information				0.		1
	opment TypeSingle	Family	Residential				
Area of Deve	elopment (ha)0.02		Ri	oarian L	ength (m)35	
	Lot Area (ha) 1.1		Nature o	Develo	pment	Redev	elopment
	rt Date June 1, 2010		Propos	ed End	DateSe	epteml	ber 30, 2012
V. Location of P	roposed Developm	ent					
Street Address (or nearest town)	772	6 Davidson F	Road, So	ooke		
Local Gove	rnment Juan de Fuc	a Elec	toral Area		City	Soc	ke
Stream	n Name Kemp Lake			11		-	
Legal Description ((PID) 006-740-28 6	3					- Vancouver Island
Stream/Riv	er TypeLake				DFO	Area1	8- Vancouver Island
Watershe	d Code 930-026-700)					
L	atitude48 22	29	Longitu	de -	123	46	47

1. Description of Fisheries Resources Values and a Description of the Development Proposal

1.1. Watershed Context and Fisheries Values

The property is on the south shore of Kemp Lake east of Sooke, in the Juan de Fuca Electoral Area. Kemp Lake drains at the eastern end through Kemp Stream to the marine environment of Sooke Bay.

Kemp Lake is approximately 25 ha in size and is a community drinking water supply. It also provides habitat for cutthroat trout, rainbow trout, steelhead, threespine stickleback, and prickly sculpin (FISS Report November 2011). The location of the project is shown in Figure 1.



Figure 1. Location of 7726 Davidson Road on Kemp Lake.

1.2 Existing Condition

The site at 7726 Davidson Road had structures (cabin, patios, deck, path and wharf) existing prior to the recent development which extended into the standard SPEA. The owners renovated the cabin, adding a small enclosed area over a former deck and building a deck over top of what was historically a rock footpath (see site plan and photos).

The SPEA prior to any work consisted of a sandy/gravelly shoreline beach and wharf, existing patios, path, cabin and deck. The SPEA vegetation consists of an overstory of western redcedar (Thuja plicata) and Douglas-fir (Pseudotsuga menziesii) with scattered young red alder (Alnus rubra), arbutus (Arbutus menziesii). The understory is salal (Gautheria shallon), bracken fern (Pteridium aquilinum), and red huckleberry (Vaccinium parvifolium), s. The shoreline vegetation also consists of some willow (Salix scouleriana and S. lasiandra), salmonberry (Rubus spectablis), Nootka rose (Rosa nutkana), lady fern (Athyrium felix-femina), silver weed (Potentilla pacifica), hardhack (Spirea douglasii), horsetail (Equisetum arvense) and sedges (Carex sp.), additionally a small population of reed canary grass (Phalaris arundinacea) is establishing and should be removed by hand. Underlined species are dominant.



Figure 2. Aerial photo (2009) of the property prior to any of the recent work, including decks, wharf and cabin.

1.3 Proposed Development

In the summer of 2011, the owners added to the existing structures (which were all partially within the "standard" SPEA). They:

- added onto the cabin over the pre-exisiting deck
- built a new deck over the pre-exising walkway and stone stairs

In addition to the work that was done in the summer of 2011, the owners are proposing to build an additional small deck and stairs to access the new deck from the existing patio - this is proposed to be built partially within the SPEA over an area that is already an existing patio area.

A table on the site plan shows the amount of the original encroachment, the new construction and the proposed additional construction. The new deck and addition to the cabin (on top of the the pre-existing deck) are encroaching into the SPEA. The current encroachment is 51 m2 and the proposed additional deck is 14.6 m2 (over an existing patio).

To mitigate for the historic, recent and proposed encroachment we propose:

- a "flexing" of the SPEA around the encroachment and addition of an equal area outside the standard SPEA (65.6m2)
- restoration within the "standard" SPEA area (approx 30m2) and the area added to the SPEA by the "flex" (65.6m2) for a total of approx 95 m2 restored.

The SPEA will be closer than the usual standard of 10 metres from the High Water Mark (at approximately 8 metres) where the new deck has already been built. However, it is recommended to leave this portion of the deck and accommodate the encroachment in the "Flex". The area is not steep and is within upland vegetation.

During the work done in the summer of 2011, the contractor took care to make sure he did not disturb any vegetation (e.g. the footings were carefully poured within some salal, but the plants were not cleared and are are not damaged), they also made sure that the decking was spaced to allow water to drain from the deck to the ground below.

The previous owners also had a small shed and cleared an area in the SPEA to store wood and other items - the new owners have started moving this material out and storing it outside the SPEA. This cleared area (approx 30m2), in addition to the area where the SPEA is proposed for expansion 65.6m2) to compensate for the "Flex" (which is partially cleared, as well) are proposed for restoration plantings.

2. Results of Detailed Riparian Assessment

				Date: July 25, 2011
Description of	of Water	bodies in	volved (number, type)	(1) Lake
Stream		N .		<u> </u>
Wetland				
Lake			X	
Ditch				
Number of reache	s	1		
Reach #		1		
				TTO A AND A
Site Potentia	Vege Yes	etation No		ygons, if No then fill in one set of SPVT data boxes
SPVT Polygons		^	Tick yes only it multiple por	ygons, il 140 then hill in one set of Si V1 data boxes
			I, Lehna Malmkvist , hereby	
				wironmental professional, as defined in the Riparian made under the <i>Fish Protection Act</i> ;
				arry out this part of the assessment of the
				posal made by the developer Lynn & John Pollock;
				an assessment of the development proposal and set out in this Assessment Report; and
			d) In carrying out my	assessment of the development proposal, I have
			followed the asser Riparian Areas Re	ssment methods set out in the Schedule to the
Zone of Sens	sitivity	(ZOS)	and resultant SPEA	
Segment No:	1 f			ide is a separate segment. For all water bodies nere are multiple SPVT polygons
LWD, Bar	nk and C	hannel	15	
	tability Z			
Littor fall and in	neact dro	709	15	

Shade ZOS (m) max

Ditch Fish Yes

Bearing

SPEAmaximum

(m)

15-30

30

significant headwaters or springs, seasonal flow)

Yes

No

If non-fish bearing insert no fish

bearing status report

South bank

(For ditch use table3-7)

Justification description for classifying as a ditch (manmade, no

I, Lehna Malmkvist , hereby certify that:

I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;
I am qualified to carry out this part of the assessment of the development proposal made by the developer Lynn & John Pollock;
I have carried out an assessment of the development proposal and my assessment is set out in this Assessment Report; and In carrying out my assessment of the development proposal, I have followed the assessment methods set out in the Schedule to the Riparian Areas Regulation.

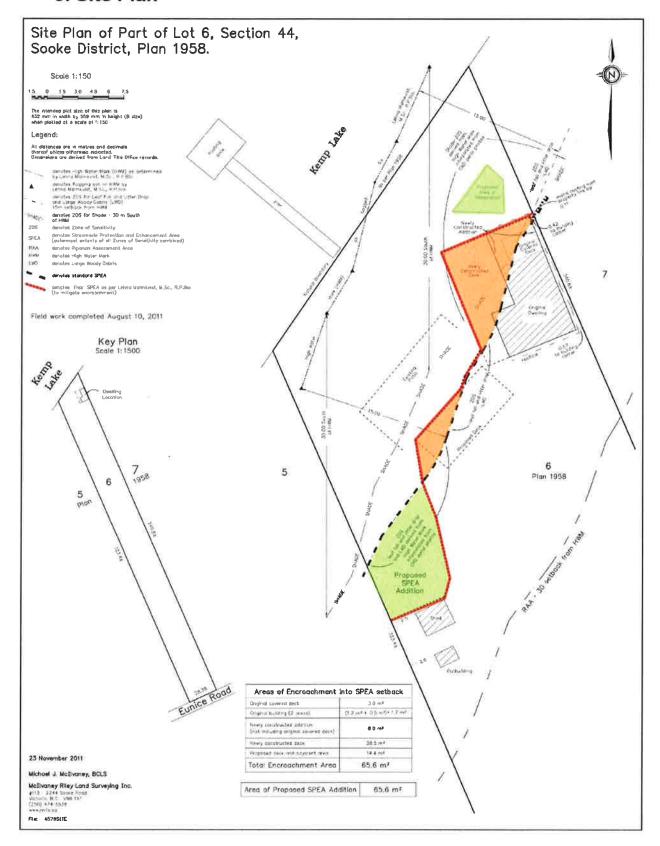
Comments

The SPEA vegetation consists of an overstory of <u>western redcedar (Thuja plicata)</u> and Douglas-fir (Pseudotsuga menziesii) with scattered young red alder (Alnus rubra), arbutus (Arbutus menziesii). The understory is <u>salal (Gautheria shallon)</u>, bracken fern (Pteridium aquilinum), and red huckleberry (Vaccinium parvifolium), s. The shoreline vegetation also consists of some <u>willow (Salix scouleriana and S. lasiandra)</u>, salmonberry (Rubus spectablis), Nootka rose (Rosa nutkana), lady fern (Athyrium felix-femina), silver weed (Potentilla pacifica), hardhack (Spirea douglasii), horsetail (Equisetum arvense) and sedges (Carex sp.), additionally a small population of reed canary grass (Phalaris arundinacea) is establishing and should be removed by hand. <u>Underlined</u> species are dominant.



Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

3. Site Plan



Section 4. Measures to Protect and Maintain the SPEA

4.1 Danger Trees_

No clearing of trees is proposed adjacent to the proposed development, and as discussed with the owners, no trees appear to be of concern, therefore no tree assessment report was required.

4.2 Windthrow

No tree removal is proposed as part of the development activities, therefore no additional risk of windthrow is expected due to the development activities and no tree assessment was required.

4.3 Slope Stability

The development activities are renovations and addition of a deck to an existing structure, which has been in place since approximately 1980, therefore no additional risk is expected to the stability of the SPEA and a geotechnical assessment was not completed for the RAR Report.

4.4 Protection of Trees

No trees are proposed for removal and most of the development has already occurred. The remaining proposed development is not adjacent to any trees. Therefore no tree assessment was required. The SPEA will be marked with high visibility flagging during the construction to ensure the SPEA is protected.

4.5 Encroachment

The cabin that existed on the site prior to the recent development encroached within the standard SPEA, as determined by the RAR methods. The owners undertook renovations and a deck addition without a permit, which have resulted in an additional encroachment.

To mitigate for the historic, recent and proposed development we propose:

- a "flexing" of the SPEA around the encroachment and addition of an equal area outside the standard SPEA (65.5 m2)
- restoration within the "standard" SPEA area (approx 30 m2) and the area added to the SPEA (65.5 m2) by the "flex" (approx 95 m2)

The owners are aware, via this report that the following restrictions exist for activities within the SPEA:

- Planting native plants only
- Removal of non-native species is permitted
- Tree removal is only permitted for hazard trees, which must be identified by an ISA certified arborist
- No other development activities (e.g. clearing, buildings, road building, etc.) are permitted within the SPEA

- Temporary marking of the SPEA with high visibility flagging is required during construction to protect the SPEA
- Permanent markers along the SPEA are required to ensure that no future encroachment occurs. The SPEA crosses an existing patio area and is immediately adjacent to the cabin, therefore it is not suitable to install a fence along the SPEA line, the SPEA will be marked by installing a fence along the proposed SPEA addition and placing a sign on the deck indicating that the area between the deck and the lake is in the SPEA, as shown below.



The restoration of parts of the SPEA are shown on the site plan and will consist of:

- approx 95 m2 of restoration divided into 2 areas
- removal of stored materials, debris and non-native species (e.g. lawn)
- minimum of 3 plants per 1 m2, the plants must be minimum 1 gallon sized pots
- The planted species must be native and the following list is recommended, based on the existing vegetation on the site:
 - o salal (Gaultheria shallon)
 - snowberry (Symphirocarpos alba)
 - sword fern (Polystichum munitum)
 - o bracken fern (Pteridium aquilinium)
 - Nootka rose (Rosa nutkana)
 - o other native species may be chosen subject to approval by the QEP
- 10 cm of composted mulch over restored areas
- Irrigation for a minimum of 3 years
- Weeding for a minimum of 3 years

The new additions (recent and proposed) have had no new negative effect on the SPEA over the historical development on the site and the "flex" of the SPEA, plus the estoration of the area added to the SPEA, and the cleared area within the "regular" SPEA will be a net benefit. The areas requiring restoration are upslope from the shoreline, so will not provide in-water fish habitat benefits, but will improve the condition vithin the SPEA.

The proposed work has been discussed via e-mail with P. Marlene Caskey, B.Sc., R.P.Bio, Senior Urban Ecosystem Biologist at MFLNRO and Steve Voller (RPBio) Habitat Management Technician Fisheries and Oceans Canada. The e-mail record is attached in Appendix 1.

4.6 Erosion and Sediment Control

Minimal disturbance is expected as a result of these development activities. The contractor must implement erosion and sediment control measures to ensure that the no sediment laden water enters the Kemp Lake. These measures should include:

- No vegetation removal and summer construction period
- Covering exposed soils, if needed (e.g. tarps)
- Installation of sediment barriers (e.g. sediment fences), if needed
- Locations of SPEA, no-go zones and sensitive areas are marked and communicated to all personnel
- Spill response kits are on site if any heavy machinery is working, and operators trained in their use
- Equipment refueling at a designated location isolated from aquatic ecosystems
- Equipment is inspected for leaks prior to beginning work

4.7 Stormwater Management

The roof drainage is collected into a holding tank and the water is used for irrigation and as a source of water in case of a fire. The overflow from the tank is released into the vegetation on the site.

4.8 Floodplain Concerns

The proposed development is upslope and will take place outside of all ecologically-defined floodplains.

1. Danger Irees	li .
 I am qualified to carry out this part of the asset I have carried out an assessment of the develor out my assessment of the development propo- Regulation 	s defined in the Riparian Areas Regulation made under the Fish Protection Act; sesment of the development proposal made by the developer Lynn & John Pollock; opment proposal and my assessment is set out in this Assessment Report; and In carrying seal, I have followed the assessment methods set out in the Schedule to the Riparian Areas
2. Windthrow	
 I am qualified to carry out this part of the ass I have carried out an assessment of the deve 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; selopment proposal and my assessment is set out in this Assessment Report; and In carrying posal, I have followed the assessment methods set out in the Schedule to the Riparian
Links Malada int hands a shift that	
 I am qualified to carry out this part of the ass I have carried out an assessment of the development proparts Areas Regulation 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; slopment proposal and my assessment is set out in this Assessment Report; and In carrying bosal, I have followed the assessment methods set out in the Schedule to the Riparian
4. Protection of Trees	
 I am qualified to carry out this part of the ass I have carried out an assessment of the deve 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; elopment proposal and my assessment is set out in this Assessment Report; and In carrying posal, I have followed the assessment methods set out in the Schedule to the Riparian
 I am qualified to carry out this part of the ass I have carried out an assessment of the development propared in the	as defined in the Riparian Areas Regulation made under the Fish Protection Act; as deseasement of the development proposal made by the developer Lynn & John Pollock; selopment proposal and my assessment is set out in this Assessment Report; and In carrying losal, I have followed the assessment methods set out in the Schedule to the Riparian
Erosion and Sediment Control	
 I am qualified to carry out this part of the ass I have carried out an assessment of the deve 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; elopment proposal and my assessment is set out in this Assessment Report; and In carrying losal, I have followed the assessment methods set out in the Schedule to the Riparian
 I am qualified to carry out this part of the ass I have carried out an assessment of the deve 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; elopment proposal and my assessment is set out in this Assessment Report; and In carrying losal, I have followed the assessment methods set out in the Schedule to the Riparian
 I am qualified to carry out this part of the ass I have carried out an assessment of the deve 	as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer Lynn & John Pollock; elopment proposal and my assessment is set out in this Assessment Report; and In carrying posal, I have followed the assessment methods set out in the Schedule to the Riparian

5. Environmental Monitoring

Monitoring of construction activities is required under the RAR to ensure the SPEA is protected and that the Erosion and Sediment Control Plan is carried out in an effective manner. Regular inspections (by the QEP or a designate) are required, the proposed activities are low risk (deck construction and restoration), therefore the environmental monitoring may be conducted at a schedule determined appropriate by the QEP, depending on the scheduling of activities and forecasted weather (likely preconstruction to ensure no encroachment occurs, during construction, during restoration and at completion). Items to be checked on these inspections include:

- Preventative erosion and sediment control measures are in place and being maintained;
- Locations of SPEA and other no-go zones and sensitive areas are marked and communicated to all personnel;
- · Restoration activities are completed;
- Spill response kits are on site when any heavy machinery is working, and operators have been trained to use them;

Photopoint monitoring is the preferred means to document that proper construction and erosion/sediment control methods are carried out. Specific locations are chosen and marked by the QEP prior to construction, and photographs are taken from the same locations (with the same views through the camera) periodically throughout the construction period. Additionally, an environmental monitoring checklist must be completed for each visit to document the activities on site, weather and other observations. Water quality samples may be required to ensure compliance with local regulations and to ensure the protection of downstream aquatic ecosystems.

5.1 Post-Construction Report

The QEP will file a post-development report on behalf of the developer, submitted through the Ministry of Environment Notification System, after the development has been completed, at the cost of the owner. This report will document that the required measures and conditions outlined in this report have been implemented, as per Section 5(a) of the Riparian Area Regulation. A physical inspection of the site and the SPEA will be conducted, to ensure that no damage has occurred or is anticipated and the required management practices have been carried out. A checklist will be drafted, with each of the measures and monitoring requirements listed above, and accompanying documentation will be attached, such as a summary of the results of the monitoring and photographs.

6. Photographs



Photo 1. Looking south at SPEA and cabin, new deck and addition to cabin is visible on the left.



Photo 2. Looking southeast at the shoreline.



Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Photo 3. Looking southwest at the shoreline.



Photo 4. Looking west at the vegetation in the SPEA between the existing patio and lake edge.



Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Photo 5. New deck was built over top of old stairs and pathway.



Photo 6. Care was taken when installing footings in the existing vegetation.



Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Photo 7. Proposed restoration area within "standard" SPEA - remove remaining stored items and replant with native vegetation.



Photo 8. Looking north from the new deck (partially within the SPEA) at the SPEA and Kemp Lake.



Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Photo 9. New deck over pre-existing walkway, with vegetation preserved (right side of photo) and pre-existing patio - this is the approximately location of the standard SPEA boundary.



Photo 5. "Flex" SPEA on the right side of the photo - over existing vegetation and part of existing patio (with the blue railing), restore area added to the SPEA with native vegetation.

7. Assessment Report Professional Opinion on the **Development Proposal's Riparian Area**

Date	December 7, 2011

- 1.I/We Lehna Malmkvist hereby certify that:
 - a) I am/We are qualified environmental professional(s), as defined in the Riparian Areas Regulation made under the Fish Protection Act,
 - b) I am/We are qualified to carry out the assessment of the proposal made by the developer Lynn & John Pollock , which proposal is described in section 3 of this Assessment Report (the "development proposal"),
 - c) I have/We have carried out an assessment of the development proposal and my/our assessment is set out in this Assessment Report; and
 - d) In carrying out my/our assessment of the development proposal, I have/We have followed the assessment methods set out in the Schedule to the Riparian Areas Regulation; AND
- 2. As qualified environmental professional(s), I/we hereby provide my/our professional opinion that:
 - X if the development is implemented as proposed by the development proposal there will be no harmful alteration, disruption or destruction of natural features, functions and conditions that support fish life processes in the riparian assessment area in which the development is proposed, OR

(Note: include local government flex letter, DFO Letter of Advice, or description of how DFO local variance protocol is being addressed)

NOTE: Flex Letter from CRD needs to be attached BEFORE report can be submitted to the MoE Notification System.

b) if the streamside protection and enhancement areas identified in this Assessment Report are protected from the development proposed by the development proposal and the measures identified in this Assessment Report as necessary to protect the integrity of those areas from the effects of the development are implemented by the developer, there will be no harmful alteration, disruption or destruction of natural features, functions and conditions that support fish life processes in the riparian assessment area in which the development is proposed.

"qualified environmental professional" means an applied scientist or technologist, acting alone or together with another qualified environmental professional, if

(a) the individual is registered and in good standing in British Columbia with an appropriate professional organization constituted under an Act, acting under that association's code of ethics and subject to disciplinary action by that

(b) the individual's area of expertise is recognized in the assessment methods as one that is acceptable for the purpose of providing all or part of an assessment report in respect of that development proposal, and

(c) the individual is acting within that individual's area of expertise.]

Appendix 1: E-mail record of discussion with MFLNRO and DFO staff

From: "Caskey, Marlene FLNR:EX" < Marlene.Caskey@gov.bc.ca>

Subject: RE: Question re: a deck built in the SPEA Date: 4 November, 2011 1:33:51 AM GMT+01:00

To: "'Lehna Malmkvist" < lehna@swell.ca>

Cc: "Voller, Steve" < Steve. Voller@dfo-mpo.gc.ca>

I will support this encroachment based on your assessment of the modified SPEA and restoration plans resulting in a net benefit to fish habitat.

P. Marlene Caskey, B.Sc., R.P.Bio Senior Urban Ecosystem Biologist **MFLNRO** Nanaimo (250) 751-3220

From: Lehna Malmkvist [mailto:lehna@swell.ca] Sent: Wednesday, November 2, 2011 12:06 PM

To: Caskey, Marlene FLNR:EX

Subject: Re: Question re: a deck built in the SPEA

Hi Marlene,

The additional SPEA area is equal to the encroachment (approx 60m2).

The restoration area will be 1.5 times (90m2) this amount - with the new area added to the SPEA, plus the cleared area within the existing SPEA.

I think that the new additions (recent and proposed) have had no new negative effect on the SPEA over the historical development on the site and I do think that the flex, plus the restoration of the area added to the SPEA, plus the cleared area within the "regular" SPEA will be a net benefit to the SPEA. The areas requiring restoration are upslope from the shoreline, so will not provide in-water fish habitat benefits, but will definitely improve the condition of the riparian zone.

Steve Voller also responded to the e-mail but didn't cc everyone, so I've attached that for your records.

If this seems like a good approach to you I will write up the RAR report proposing this and present it to Emma at the CRD for their support for the flex.

Thanks, Lehna

Lehna Malmkvist, M.Sc., R.P. Bio. Swell Environmental Consulting Ltd.

Berlin ph: +49 176 99302605 Victora ph: (250) 217-9190

f: 1-877-702-9190 e: lehna@swell.ca

Begin forwarded message:

From: "Voller, Steve" <<u>Steve.Voller@dfo-mpo.gc.ca</u>> Subject: RE: Question re: a deck built in the SPEA Date: 26 October, 2011 6:00:43 PM GMT+02:00 To: "Lehna Malmkvist" <<u>lehna@swell.ca</u>>

Hi Lehna. DFO's involvement in RAR issues only comes into play if there is undue hardship considerations or if the proposal/works create a HADD under Section 35 of the Fisheries Act. As this site had already encroached upon the SPEA, presumably before RAR, then the proposed works will not be causing a HADD, just substituting one type of structure for another. In light of this, I don't see this as a HADD and have no concerns if works proceed within the previous footprint and the SPEA is bent to accommodate the intrusion into the SPEA and the replanting of a previously cleared area with natural vegetation proceeds.

Regards,

Steve Voller (RPBio)
Habitat Management Technician
Fisheries and Oceans Canada
Habitat Protection and Sustainable Development
5245 Trans Canada Highway, Duncan, BC V0R 2C0
ph. (250) 746-9717, fax (250) 746-8397

Please note, when submitting a referral you must fill out either a Project Review Application Form

http://www.pac.dfo-mpo.gc.ca/habitat/steps/praf/form-formulaire-eng.pdf

or Notification Form

http://www.pac.dfo-mpo.gc.ca/habitat/os-eo/pdfs/notification_form-eng.pdf

Go to our Working Near Water in B.C. and Yukon website for information. http://www.pac.dfo-mpo.gc.ca/habitat/index-eng.htm