#### FORM 1

Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Please refer to submission instructions and assessment report guidelines when completing this report.

Date 2019-09-11

#### I. Primary QEP Information

First Name	Thomas	M	Iiddle Name			
Last Name	Roy					
Designation	R.P. Bio		Company Cas	Company Cascadia Biological Services		
Registration #	1089	Email cascadiabiolgical@shaw.ca				
Address	772 Goldstream Avenu	ie				
City	Victoria	Postal/Zip	V9B 5S4	Phone #	250 888-4864	
Prov/state	BC	Country	Canada			

#### II. Secondary QEP Information (use Form 2 for other QEPs)

First Name	Middle	Name
Last Name		
Designation		Company
Registration #		Email
Address		
City	Postal/Zip	Phone #
Prov/state	Country	

#### III. Developer Information

Steve						
Thomas						
Centre Mountain Business Park (CMBP)						
(250) 418-		Email steve@keycorp.ca				
5344						
#116 -967 Langford Parkway						
Langford	Postal/Zip	V9B 0A5				
BC	Country	Canada				
	Thomas Centre Mountain Business F (250) 418- 5344 #116 -967 Langford Parkwa Langford	Thomas Centre Mountain Business Park (CMBP) (250) 418- 5344 #116 -967 Langford Parkway Langford Postal/Zip	Thomas Centre Mountain Business Park (CMBP)  (250) 418- 5344  #116 -967 Langford Parkway Langford Postal/Zip V9B 0A5			

#### IV. Development Information

Development Type	Other: Landscaping – Site Prep				
Area of Development (ha)	0.25	Riparian Length (m) 20			
Lot Area (ha)	0.37	Nature of Developmen	t New		
Proposed Start Date 2019	-09-30	Proposed End Date	2020-12-31		

#### V. Location of Proposed Development

Street Address (or nearest town)			City of Langford – 2965 Sooke Road						
<b>Local Government</b>	City of Langford			City Victoria					
Stream Name	Bilston Creek								
Legal Description (PID)	030827345			Region Capital					
Stream/River Type	Stream				DFO A	rea	Sou	th Coast	
Watershed Code	930-027500								
Latitude	48	25	18	Longitude	123	33		18	

Completion of Database Information includes the Form 2 for the Additional QEPs, if needed. Insert that form immediately after this page.

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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

### Table of Contents for Assessment Report

ıa	Page Numb	er
1.	Description of Fisheries Resources Values	
2.	Results of Riparian Assessment (SPEA width)	
3.	Site Plan	
4.	Measures to Protect and Maintain the SPEA (detailed methodology only).  1. Danger Trees	
5.	Environmental Monitoring	
6.	Photos	
7.	Assessment Report Professional Opinion	

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# Section 1. Description of Fisheries Resources Values and a Description of the Development proposal

(Provide as a minimum: Species present, type of fish habitat present, description of current riparian vegetation condition, connectivity to downstream habitats, nature of development, specific activities proposed, timelines)

The purpose of this report is to identify watercourses and associated RAR setbacks for a lot located at 2965 Sooke Road in the City of Langford. The owners of the property (Centre Mountain Business Park (CMBP), are in the process of selling the lot and require it to have a building pad area. This area will be located immediately outside of the SPEA. At the time of our assessment in September of 2018, there was one stream within the subject lots that met the definition of a watercourse as identified by the Fish-Stream Identification Guidebook (1998). The stream is gazetted as Bilston Creek.

The proposed delineated study area encompasses one larger 4<sup>th</sup> order watercourse named Bilston Creek. Please refer to select maps in Section 3 of this report for watercourse location. Bilston Creek runs along the northern border of the property from west to east. Bilston Creek is a moderately large stream ranging in width from 4-9m with an average gradient of 5% resulting in cascade-pool morphology. The designated Streamside Protection and Enhancement Area (SPEA) for this creek will be 17.67m.

Bilston Creek (WSC – 930-17600)

The linear length of the stream through the subject property is approximately 20m. At the time of the survey the stream had 100% connectivity and the stream provided both suitable spawning and rearing habitat. The stream is generally of a low-moderate gradient cascade-pool morphology type but has a short micro unit in the lower section of the reach through riffle-pool morphology. This reach has an average gradient is 5% and the average bankfull width (Wb) is 5.89 meters. The channel is through a historic floodplain along the left bank. The substrate is made up respectively of cobble, gravel and silt. The riparian zone is dominated for the most part by older second-generation Douglas fir and western red cedar with a few big leaf maple and noble fir. The near stream canopy consists more of Douglas fir and western red cedar. Canopy closure is approximately 65% through the upper two thirds of the property, however, drops from 10-20% in the lower parts of the reach as it nears the eastern boundary of the property. The understory plants are diverse due to a variation in moisture regimes, the colonization of cleared areas and the impact of non-native plants and weeds. Some of the dominant plant found in the understory area are, Oregon grape, ocean spray, pacific willow, red alder, salmon berry, sword fern, lady fern, braken fern, Nootka rose, Pacific nine-bark. Fish presence is known through Bilston Creek and includes several species of salmonids.

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Section 2. nesu	ווס טו חו	pariai	A3363	Silletti (SPEA Width)
O Beaulte of	Dotoiled	Dinerie	n Aaaa-	amant
2. Results of I		•		
Refer to Chapter 3 of A				Date:   2019-09-11
Description of Wa		nvolved (	number, ty	rpe) 1 stream
Stream	1			
Wetland				
Lake Ditch				
Number of reaches	4			
	1			
Reach #	1			
Channel width and sonly provide widths			l Type (u	se only if water body is a stream or a ditch, and
Channel	Width(m)		Gradient	(%)
starting point	5.76			I, Thomas Roy, hereby certify that:
upstream	7.78		3	a) I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;
	7.56			b) I am qualified to carry out this part of the assessment of the
	6.23			development proposal made by the developer <u>CMBP</u> ;
	9.34	high		c) I have carried out an assessment of the development proposal and my assessment is set out in this Assessment Report; and
downstream	4.76			d) In carrying out my assessment of the development proposal, I
	5.62			have followed the assessment methods set out in the Schedule
	4.33	low		to the Riparian Areas Regulation.
	5.42			
	5.17		7	
Tatalonaino a biala //acc	4.73			
Total: minus high /low	53.03		F	
mean	5.89 R/P	C/P	S/P	
Channel Type	N/F	X	3/F	
Chamler Type		^		
Site Potential Vegeta	ation Type	(SPVT)	)	
Yes	s No			
SPVT Polygons	X	Tick yes	only if mult	tiple polygons, if No then fill in one set of SPVT data boxes
	'		s Roy, hereb	
				vironmental professional, as defined in the Riparian Areas under the Fish Protection Act;
				arry out this part of the assessment of the development proposal
				oper <u>CMBP</u> ;
				an assessment of the development proposal and my assessment is essment Report; and
				assessment of the development proposal, I have followed the
		asses	sment metho	ods set out in the Schedule to the Riparian Areas Regulation.
Polygon No: 1		_	Method	employed if other than TR
LC	SH	TR		
SPVT Type		X		
Dalumara Mari	_		NA - II - I	and and Yather they TD
Polygon No:			Method	employed if other than TR

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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

SPVT Type	SH TR	
SPVI Type		
- · · · ·		
Polygon No: SPVT Type	Method employed if other than TR	
Of V1 Type		
	(ZOS) and resultant SPEA	
Segment   1 No:	If two sides of a stream involved, each side is a separate segment. For all waterbodies multiple segments occur where there are multiple SPVT	polygons
LWD, Bank and Ch	nannel 11.78	p c . , g c c
Stability ZC Litter fall and insec		
ZC	DS (m)	
Shade ZOS (m) m Ditch Justificat	ax   17.67   South bank   Yes   No   X   tion description for classifying as a ditch (manmade,	
	icant headwaters or springs, seasonal flow)	
Ditch Fish Yes	No If non-fish bearing insert no fish	
Bearing	bearing status report	
SPEA Maximum	17.67 (For ditch use table3-7)	
Segment	If two sides of a stream involved, each side is a separate segment. For all	
No:	bodies multiple segments occur where there are multiple SPVT poly	gons
LWD, Bank and Ch Stability ZC		
Litter fall and insec		
	OS (m)	
Shade ZOS (m) ma	ax South bank Yes No X (For ditch use table3-7)	
OI LA MAXIMUM	(1 of diterrase tables-1)	
Segment	If two sides of a stream involved, each side is a separate segment. For all	
No:	bodies multiple segments occur where there are multiple SPVT poly	gons
Stability ZC		
Litter fall and insec		
Shade ZOS (m) m	DS (m) South bank Yes No	
SPEA Maximum	(For ditch use table3-7)	
<ul><li>a) I am a qualified enviror</li><li>b) I am qualified to carry o</li><li>c) I have carried out an a</li></ul>	y certify that: nmental professional, as defined in the Riparian Areas Regulation made under the Fish Protectio out this part of the assessment of the development proposal made by the developer; CMBP ssessment of the development proposal and my assessment is set out in this Assessment Repor essment of the development proposal, I have followed the assessment methods set out in the Sci gulation.	t; and
Comments	the vight heads to sing decomptions Only 1 accompany to add for this	
Segment 1 represents assessment	the right bank facing downstream. Only 1 segment used for this	

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Withheld pursuant to/removed as

Copyright

#### Section 4. Measures to Protect and Maintain the SPEA

This section is required for detailed assessments. Attach text or document files, as need, for each element discussed in chapter 1.1.3 of Assessment Methodology. It is suggested that documents be converted to PDF before inserting into the assessment report. Use your "return" button on your keyboard after each line. You must address and sign off each measure. If a specific measure is not being recommended a justification must be provided.

Danger Trees	No danger trees identified within the SPEA.					
<ul> <li>I, Thomas Roy, hereby certify that:</li> <li>I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;</li> <li>I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP;</li> <li>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</li> </ul>						
2. Windthrow	Windthrow is not a concern on this site due to the prevailing wind conditions					
<ul><li>b. I am qualified to carry out this part of the as</li><li>c. I have carried out an assessment of the deve</li></ul>	, as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer CMBP lopment proposal and my assessment is set out in this Assessment Report; and In nent proposal, I have followed the assessment methods set out in the Schedule to the					
3. Slope Stability	Banks are stable within the study area with no signs of previous slumpage					
e. I am qualified to carry out this part of the as a. I have carried out an assessment of the deve	I. Thomas Roy, hereby certify that:  d. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act; e. I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP a. I have carried out an assessment of the development proposal, I have followed the assessment methods set out in the Schedule					
4. Protection of Trees	To reduce the potential for tree damage into the SPEA, fencing (temporary) must be installed prior to the initiation of landscaping along the SPEA boundary. A split cedar rail or equivalent will be required along the SPEA boundary after landscaping works are completed					
<ul><li>b. I am qualified to carry out this part of the as</li><li>c. I have carried out an assessment of the deve</li></ul>	<ul> <li>I, Thomas Roy, hereby certify that:</li> <li>I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;</li> <li>I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP;</li> <li>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</li> </ul>					
5. Encroachment  To reduce the potential for encroachment into the SPEA, fencing (temporary) must be installed prior to the initiation of landscaping activities when these activities are commenced within the RAA. The fencing will be placed by the designated QEP.						
<ul> <li>I, Thomas Roy, hereby certify that:</li> <li>a. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;</li> <li>b. I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP;</li> <li>c. 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</li> </ul>						
6. Sediment and Erosion Control	Sediment and erosion control measures will be implemented to reduce sediment laddened water from entering the stream during construction. These will include sediment fencing and hay bales placed along disturbed areas including all logging related					

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# FORM 1 Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

		activities when they are proposed within the RAA and the SPEA						
		boundary. The designated QEP will install the sediment controls.						
I, Ti	I, Thomas Roy, hereby certify that:							
a. b. c.	<ul> <li>a. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the <i>Fish Protection Act</i>;</li> <li>b. I am qualified to carry out this part of the assessment of the development proposal made by the developer <u>CMBP</u>;</li> </ul>							
7.	Stormwater Management	Depending on the overall impervious area resulting from the						
	_	proposed landscaping activities, a rock pit or equivalent						
		mechanism capable of handling stormwater to acceptable levels						
		will be required						
I, T	nomas Roy, hereby certify that:	•						
a.		as defined in the Riparian Areas Regulation made under the Fish Protection Act;						
b.		essment of the development proposal made by the developer CMBP;						
c.		opment proposal and my assessment is set out in this Assessment Report; and In ent proposal, I have followed the assessment methods set out in the Schedule to the						
	Riparian Areas Regulation	ent proposat, I have to howed the assessment methods set out in the senedule to the						
8.	Floodplain Concerns (highly	No concerns within the study area as proposed landscaping						
	mobile channel)	activities will result in a building platform greater than 2m in						
	,	height above the active channel						
I, Ti	nomas Roy, hereby certify that:	mangine noo : a ma watta ammina						
a.								
b.								
c.		opment proposal and my assessment is set out in this Assessment Report; and In						
		ent proposal, I have followed the assessment methods set out in the Schedule to the						
	Riparian Areas Regulation							

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#### Section 5. Environmental Monitoring

Attach text or document files explaining the monitoring regimen Use your "return" button on your keyboard after each line. It is suggested that all document be converted to PDF *before* inserting into the PDF version of the assessment report. Include actions required, monitoring schedule, communications plan, and requirement for a post development report.

Specific Recommendations for Works within 30m of a Waterbody and Outside of Designated SPEA

### 2965 Sooke Road – Langford BC

#### Works Outside of SPEA However Within 30m RAR Assessment Area

- Prior to construction, a sediment and erosion control plan will be developed to prevent the discharge of sediment laden water into the SPEA or any watercourse
- No works shall be undertaken within areas designated as SPEA
- All works Scheduled Within 30m of a Watercourse and Outside of the SPEA will adhere to all recommendations as outlined in the Ministry of Environment's Develop with Care, Environmental Guidelines for Urban and Rural Development in British Columbia, 2012. As well:
  - Ensure construction will proceed smoothly without harmful alteration of habitat;
  - o Provide long-term monitoring for disturbed sites until greenup is established and the soils at the site are stable.
- Heavy equipment (excavators etc.) working outside the SPEA will be monitored for leaks (oil, hydraulic fluid etc.).
- Sediment control measures will be installed (where necessary) along disturbed areas to minimize sediment inflow to the SPEA.
- Areas designated as the SPEA will be flagged with high visibility flagging tape and temporary fencing.
- Disturbed areas outside the SPEA and within 30m of a waterbody will be revegetated with native plants of a size that will quickly re-establish riparian cover when construction activities are deemed complete unless future uses such as building and parking locations are identified:
- Detailed direction to contractors will be given to ensure that no erosion

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#### FORM 1

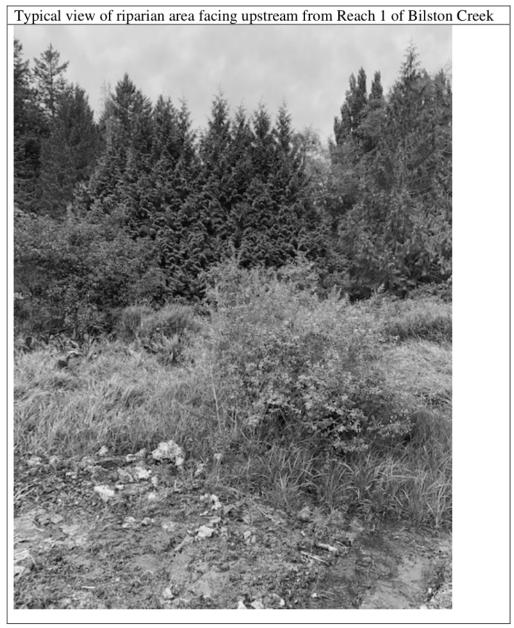
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

- or sediment movement will occur and that no silt will be released to the SPEA during the proposed works and post construction phase.
- The site will be monitored by the designated QEP (once every two weeks or as required due to high rainfall events >30mm/24 hour period) during the construction period. Any contraventions of the RAR will be communicated to the builder as well as local municipal staff and RAR staff.
- A post construction report generated by the designated QEP will be submitted to RAR and local municipal staff within four months of the end of the proposed activities.

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### Section 6. Photos

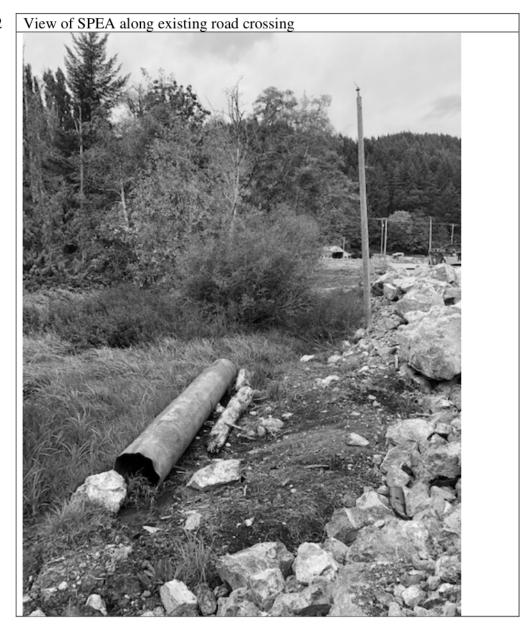
Plate #1



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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

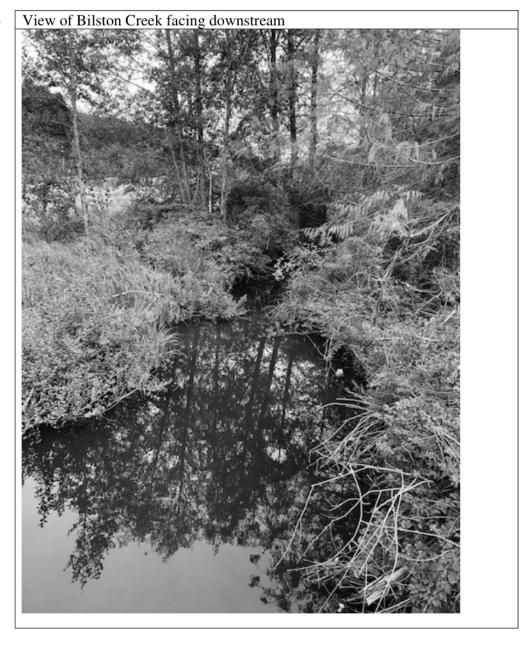
Plate #2



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FORM 1
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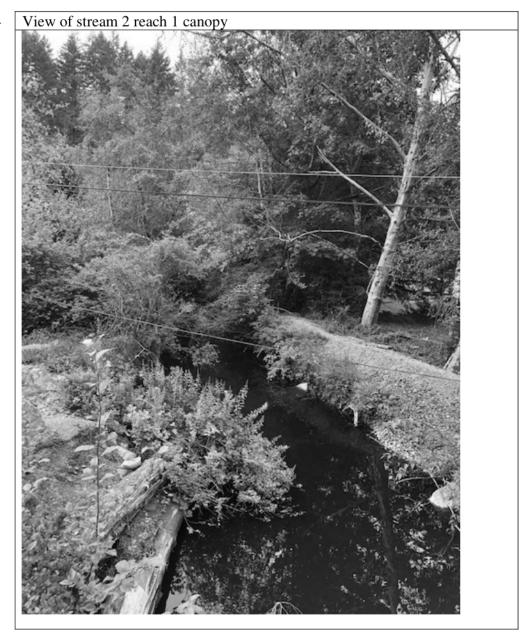
Plate #3



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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Plate #4



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#### Section 7. Professional Opinion

Assessment Report Professional Opinion on the Development Proposal's riparian area.

Date	2019-09-11		
	e <u>Thomas</u>		
Roy			

#### 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 <u>CMBP</u>, which proposal is described in section 3 of this Assessment Report (the "development proposal"),
- I have/We have carried out an assessment of the development proposal and my/our assessment is set out in this Assessment Report; and
- 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:
  - a) 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, <u>OR</u>

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

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.

**[NOTE: "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 association,

(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.]

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# Submission Instructions Riparian Areas Regulation – Qualified Environmental Professional – Assessment Report RAR-QEP-AR

#### Forms you will need to complete are

- Form 1 which has the database information, the description of the fisheries resources, development site plan, measures to protect and maintain the SPEA, and environmental monitoring.
- Form 2, if more QEPs are part of the project team.
- ➤ Either Form 3 the detailed assessment form(s) or Form 4 simple assessment form(s) which is for the results of the riparian assessment (SPEA width). Use enough copies of the form to complete the assessment of the site.
- Form 5 is the photo form(s). Duplicate for additional photos.

NB: See the Guidelines and the Assessment Methods for detailed instructions on the information required for completing the Assessment Report.

A complete Riparian Assessment Report based on the template forms must be converted to a *single* Portable Document Format PDF file prior to uploading onto the Notification System.

The Assessment Report must be complete, by submitting the information specified, and posted to provide notification to the local government, Ministry of Water, Land and Air Protection and the Department of Fisheries and Oceans Canada.

#### Tips for working with MS Word Template Forms

Using the forms

- Before beginning, print a hard copy of the form and the guidance files for reference
- Open the template
- Enter data into the shaded fields on the form
- Use TAB to move from one field to another; SHIFT-TAB to go in reverse
- Text and digital photos may be inserted from other applications
- The amount of text that can be entered in each box is limited and cannot be changed by the user; boxes with date information, for example, require input like: yyyy-mm-dd.

#### Saving the completed form

- Assign name to the completed form
- Save a word document (\*.doc file)
- Do not overwrite the Template (\*.dot file) with your completed form
- If you do overwrite the template, you can download a new copy from this web site

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#### FORM 1

Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Please refer to submission instructions and assessment report guidelines when completing this report.

Date 2019-09-11

#### I. Primary QEP Information

First Name	Thomas	M	Iiddle Name				
Last Name	Roy						
Designation	R.P. Bio		Company Cas	Company Cascadia Biological Services			
Registration #	1089	Email cascadi	Email cascadiabiolgical@shaw.ca				
Address	772 Goldstream Avenu						
City	Victoria	Postal/Zip	V9B 5S4	Phone #	250 888-4864		
Prov/state	BC	Country	Canada				

#### II. Secondary QEP Information (use Form 2 for other QEPs)

First Name	Middle Name					
Last Name						
Designation		Company				
Registration #	Email					
Address						
City	Postal/Zip	Phone #				
Prov/state	Country					

#### III. Developer Information

Steve	Middle N	lame				
Thomas						
Centre Mountain Business Park (CMBP)						
(250) 418-		Email steve@keycorp.ca				
5344						
#116 -967 Langford Parkway						
Langford	Postal/Zip	V9B 0A5				
BC	Country	Canada				
	Thomas Centre Mountain Business F (250) 418- 5344 #116 -967 Langford Parkwa Langford	Thomas Centre Mountain Business Park (CMBP) (250) 418- 5344 #116 -967 Langford Parkway Langford Postal/Zip	Thomas Centre Mountain Business Park (CMBP)  (250) 418- 5344  #116 -967 Langford Parkway Langford Postal/Zip V9B 0A5			

#### IV. Development Information

Development Ty	ype Other: La	andscaping – Site Prep
Area of Development (h	ha) 0.25	Riparian Length (m) 20
Lot Area (l	ha) 0.37	Nature of Development New
Proposed Start Date 2	019-09-30	Proposed End Date 2020-12-31

#### V. Location of Proposed Development

Street Address (or nearest town)			City of Langford – 2965 Sooke Road						
<b>Local Government</b>	City of Langford				City Victoria				
Stream Name	Bilston	Bilston Creek							
Legal Description (PID)	030827345			Region Capital					
Stream/River Type	Stream				DFO A	rea	Sou	th Coast	
Watershed Code	930-027500								
Latitude	48	25	18	Longitude	123	33		18	

Completion of Database Information includes the Form 2 for the Additional QEPs, if needed. Insert that form immediately after this page.

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	zie er cemente iet rieccement nopert	Page Number
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5.	Environmental Monitoring	
6.	Photos	
7.	Assessment Report Professional Opinion	

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# Section 1. Description of Fisheries Resources Values and a Description of the Development proposal

(Provide as a minimum: Species present, type of fish habitat present, description of current riparian vegetation condition, connectivity to downstream habitats, nature of development, specific activities proposed, timelines)

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The proposed delineated study area encompasses one larger 4<sup>th</sup> order watercourse named Bilston Creek. Please refer to select maps in Section 3 of this report for watercourse location. Bilston Creek runs along the northern border of the property from west to east. Bilston Creek is a moderately large stream ranging in width from 4-9m with an average gradient of 5% resulting in cascade-pool morphology. The designated Streamside Protection and Enhancement Area (SPEA) for this creek will be 17.67m.

Bilston Creek (WSC – 930-17600)

The linear length of the stream through the subject property is approximately 20m. At the time of the survey the stream had 100% connectivity and the stream provided both suitable spawning and rearing habitat. The stream is generally of a low-moderate gradient cascade-pool morphology type but has a short micro unit in the lower section of the reach through riffle-pool morphology. This reach has an average gradient is 5% and the average bankfull width (Wb) is 5.89 meters. The channel is through a historic floodplain along the left bank. The substrate is made up respectively of cobble, gravel and silt. The riparian zone is dominated for the most part by older second-generation Douglas fir and western red cedar with a few big leaf maple and noble fir. The near stream canopy consists more of Douglas fir and western red cedar. Canopy closure is approximately 65% through the upper two thirds of the property, however, drops from 10-20% in the lower parts of the reach as it nears the eastern boundary of the property. The understory plants are diverse due to a variation in moisture regimes, the colonization of cleared areas and the impact of non-native plants and weeds. Some of the dominant plant found in the understory area are, Oregon grape, ocean spray, pacific willow, red alder, salmon berry, sword fern, lady fern, braken fern, Nootka rose, Pacific nine-bark. Fish presence is known through Bilston Creek and includes several species of salmonids.

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## Section 2. Results of Riparian Assessment (SPEA width)

		0 0.1 1 0.1 1		Silient (SFLA Width)
	<b>.</b>			
2. Results of L	Detailed I	Ripariai	n Assess	sment
Refer to Chapter 3 of A	Assessment M	ethodology		Date: 2019-09-11
Description of Wat	ter bodies i	nvolved (	number, ty	pe) 1 stream
Stream	1			
Wetland				
Lake				
Ditch				
Number of reaches	1			
Reach #	1			
Tieacii #	'			
Channel width and s only provide widths		Channe	l Type (u	se only if water body is a stream or a ditch, and
Channel			Gradient	(9/)
starting point	5.76		Gradient	I, Thomas Roy, hereby certify that:
upstream	7.78		3	a) I am a qualified environmental professional, as defined in the
upstream	7.76		3	Riparian Areas Regulation made under the Fish Protection Act;
	6.23			<ul> <li>b) I am qualified to carry out this part of the assessment of the development proposal made by the developer <u>CMBP</u>;</li> </ul>
	9.34	high		c) I have carried out an assessment of the development proposal
downstream	4.76	nign		and my assessment is set out in this Assessment Report; and
downstream	5.62			d) In carrying out my assessment of the development proposal, I     have followed the assessment methods set out in the Schedule
	4.33	low		to the Riparian Areas Regulation.
	5.42	IOW		
	5.17		7	
	4.73			
Total: minus high /low	53.03			
mean	5.89		5	
mean	R/P	C/P	S/P	
Channel Type		X		
Onamici Type				
Site Potential Vegeta	tion Type	(SPVT)		
Yes		. ,		
SPVT Polygons	X	Tick yes	only if mult	iple polygons, if No then fill in one set of SPVT data boxes
			s Roy, hereby	
				vironmental professional, as defined in the Riparian Areas
				under the Fish Protection Act; arry out this part of the assessment of the development proposal
				oper CMBP;
				an assessment of the development proposal and my assessment is
				essment Report; and assessment of the development proposal, I have followed the
		l '	, ,	ds set out in the Schedule to the Riparian Areas Regulation.
Polygon No: 1		asses		employed if other than TR
LC	SH	TR	IVICTIOU	employed if other trial Tit
SPVT Type	<u> ЭП</u>	X		
SEVELYPE		_ ^		
Polygon No:			Method	employed if other than TR

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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

LC SH TR
SPVT Type
Polygon No: Method employed if other than TR
Polygon No: Method employed if other than TR  SPVT Type
or viriyee
Zone of Sensitivity (ZOS) and resultant SPEA
Segment 1 If two sides of a stream involved, each side is a separate segment. For all waterbodies multiple segments occur where there are multiple SPVT polygons
LWD, Bank and Channel 11.78 Stability ZOS (m)
Litter fall and insect drop 15
ZOS (m)
Shade ZOS (m) max 17.67 South bank Yes No X
Ditch Justification description for classifying as a ditch (manmade,
no significant headwaters or springs, seasonal flow)  Ditch Fish   Yes   No   If non-fish bearing insert no fish
Bearing Bearing bearing status report
SPEA Maximum 17.67 (For ditch use table3-7)
Segment   If two sides of a stream involved, each side is a separate segment. For all water bodies multiple segments occur where there are multiple SPVT polygons
LWD, Bank and Channel
Stability ZOS (m)
Litter fall and insect drop
ZOS (m) Shade ZOS (m) max South bank Yes No X
Shade ZOS (m) max   South bank   Yes   No   X  SPEA maximum   (For ditch use table3-7)
SFEA MAXIMUM (1 of dich use tables-7)
Segment If two sides of a stream involved, each side is a separate segment. For all water
No: bodies multiple segments occur where there are multiple SPVT polygons  LWD, Bank and Channel
Stability ZOS (m)
Litter fall and insect drop
ZOS (m)
Shade ZOS (m) max   South bank   Yes   No
SPEA Maximum (For ditch use table3-7)
I, Thomas Roy , hereby certify that:
a) I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;
b) I am qualified to carry out this part of the assessment of the development proposal made by the developer; CMBP c) I have carried out an assessment of the development proposal and my assessment is set out in this Assessment Report; and
d) 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
Segment 1 represents the right bank facing downstream. Only 1 segment used for this
assessment

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Withheld pursuant to/removed as

Copyright

#### Section 4. Measures to Protect and Maintain the SPEA

This section is required for detailed assessments. Attach text or document files, as need, for each element discussed in chapter 1.1.3 of Assessment Methodology. It is suggested that documents be converted to PDF before inserting into the assessment report. Use your "return" button on your keyboard after each line. You must address and sign off each measure. If a specific measure is not being recommended a justification must be provided.

Danger Trees	No danger trees identified within the SPEA.					
I, Thomas Roy., hereby certify that: e) I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act; f) I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP; g) 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						
2. Windthrow	Windthrow is not a concern on this site due to the prevailing wind conditions					
<ul><li>b. I am qualified to carry out this part of the as</li><li>c. I have carried out an assessment of the deve</li></ul>	, as defined in the Riparian Areas Regulation made under the Fish Protection Act; sessment of the development proposal made by the developer CMBP lopment proposal and my assessment is set out in this Assessment Report; and In nent proposal, I have followed the assessment methods set out in the Schedule to the					
3. Slope Stability	Banks are stable within the study area with no signs of previous slumpage					
e. I am qualified to carry out this part of the as a. I have carried out an assessment of the deve	<ul> <li>I. Thomas Roy, hereby certify that:</li> <li>d. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;</li> <li>e. I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP</li> <li>a. I have carried out an assessment of the development proposal, I have followed the assessment methods set out in the Schedule</li> </ul>					
4. Protection of Trees	To reduce the potential for tree damage into the SPEA, fencing (temporary) must be installed prior to the initiation of landscaping along the SPEA boundary. A split cedar rail or equivalent will be required along the SPEA boundary after landscaping works are completed					
I, Thomas Roy, hereby certify that: a. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act; b. I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP; c. 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						
To reduce the potential for encroachment into the SPEA, fencing (temporary) must be installed prior to the initiation of landscaping activities when these activities are commenced within the RAA. The fencing will be placed by the designated QEP.						
I, Thomas Roy, hereby certify that:  a. I am a qualified environmental professional, as defined in the Riparian Areas Regulation made under the Fish Protection Act;  b. I am qualified to carry out this part of the assessment of the development proposal made by the developer CMBP;  c. 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						
6. Sediment and Erosion Control	Sediment and erosion control measures will be implemented to reduce sediment laddened water from entering the stream during construction. These will include sediment fencing and hay bales placed along disturbed areas including all logging related					

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# FORM 1 Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

		activities when they are proposed within the RAA and the SPEA						
		boundary. The designated QEP will install the sediment controls.						
I. The	I. Thomas Roy, hereby certify that:							
		essment of the development proposal made by the developer CMBP;						
		opment proposal and my assessment is set out in this Assessment Report; and In						
		ent proposal, I have followed the assessment methods set out in the Schedule to the						
	Riparian Areas Regulation	che proposal, I have followed the assessment methods set out in the senedule to the						
7.	Stormwater Management	Depending on the overall impervious area resulting from the						
		proposed landscaping activities, a rock pit or equivalent						
		mechanism capable of handling stormwater to acceptable levels						
		will be required						
I. The	omas Roy, hereby certify that:	· · · · · · · · · · · · · · · · · · ·						
		as defined in the Riparian Areas Regulation made under the Fish Protection Act;						
		essment of the development proposal made by the developer <u>CMBP</u> ;						
		opment proposal and my assessment is set out in this Assessment Report; and In						
		ent proposal, I have followed the assessment methods set out in the Schedule to the						
	Riparian Areas Regulation	F - F						
	Floodplain Concerns (highly	No concerns within the study area as proposed landscaping						
1								
	mobile channel)	activities will result in a building platform greater than 2m in						
		height above the active channel						
I, Tho	I, Thomas Roy, hereby certify that:							
a.								
		essment of the development proposal made by the developer CMBP;						
		opment proposal and my assessment is set out in this Assessment Report; and In						
		ent proposal, I have followed the assessment methods set out in the Schedule to the						
	Riparian Areas Regulation	A A .						

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#### Section 5. Environmental Monitoring

Attach text or document files explaining the monitoring regimen Use your "return" button on your keyboard after each line. It is suggested that all document be converted to PDF *before* inserting into the PDF version of the assessment report. Include actions required, monitoring schedule, communications plan, and requirement for a post development report.

Specific Recommendations for Works within 30m of a Waterbody and Outside of Designated SPEA

### 2965 Sooke Road - Langford BC

#### Works Outside of SPEA However Within 30m RAR Assessment Area

- Prior to construction, a sediment and erosion control plan will be developed to prevent the discharge of sediment laden water into the SPEA or any watercourse
- No works shall be undertaken within areas designated as SPEA
- All works Scheduled Within 30m of a Watercourse and Outside of the SPEA will adhere to all recommendations as outlined in the Ministry of Environment's Develop with Care, *Environmental Guidelines for Urban and Rural Development in British Columbia*, 2012. As well:
  - Ensure construction will proceed smoothly without harmful alteration of habitat;
  - o Provide long-term monitoring for disturbed sites until greenup is established and the soils at the site are stable.
- Heavy equipment (excavators etc.) working outside the SPEA will be monitored for leaks (oil, hydraulic fluid etc.).
- Sediment control measures will be installed (where necessary) along disturbed areas to minimize sediment inflow to the SPEA.
- Areas designated as the SPEA will be flagged with high visibility flagging tape and temporary fencing.
- Disturbed areas outside the SPEA and within 30m of a waterbody will be revegetated with native plants of a size that will quickly re-establish riparian cover when construction activities are deemed complete unless future uses such as building and parking locations are identified;
- Detailed direction to contractors will be given to ensure that no erosion

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#### FORM 1

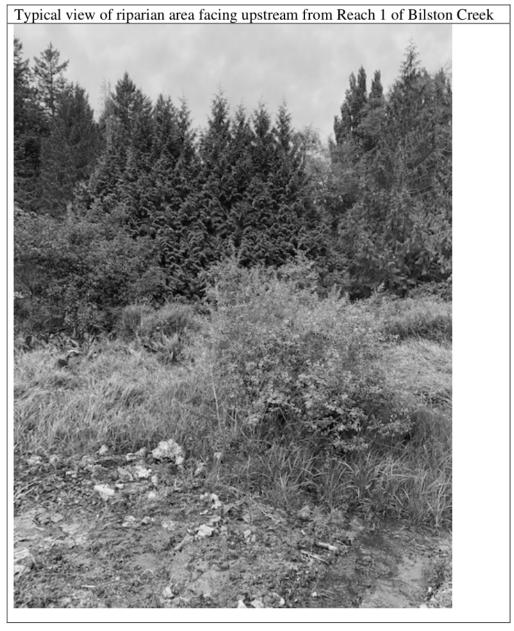
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

- or sediment movement will occur and that no silt will be released to the SPEA during the proposed works and post construction phase.
- The site will be monitored by the designated QEP (once every two weeks or as required due to high rainfall events >30mm/24 hour period) during the construction period. Any contraventions of the RAR will be communicated to the builder as well as local municipal staff and RAR staff.
- A post construction report generated by the designated QEP will be submitted to RAR and local municipal staff within four months of the end of the proposed activities.

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### Section 6. Photos

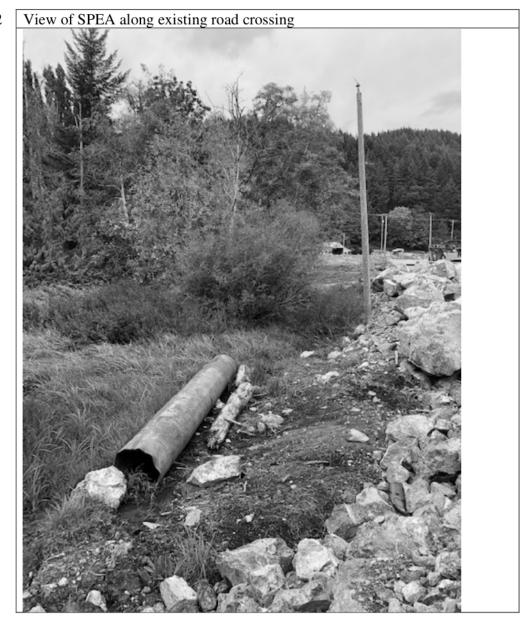
Plate #1



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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

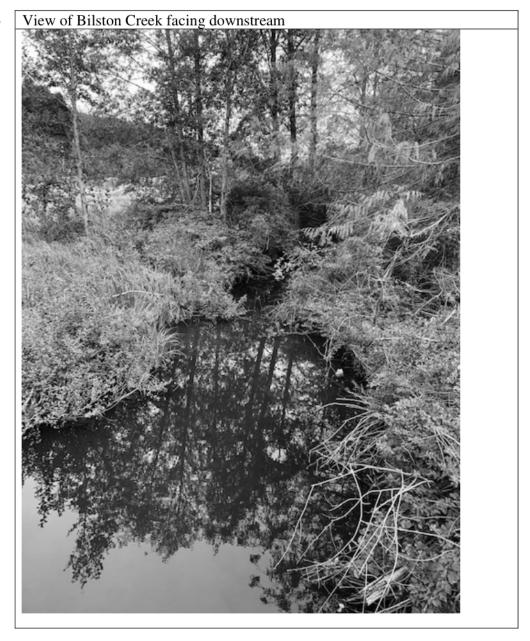
Plate #2



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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

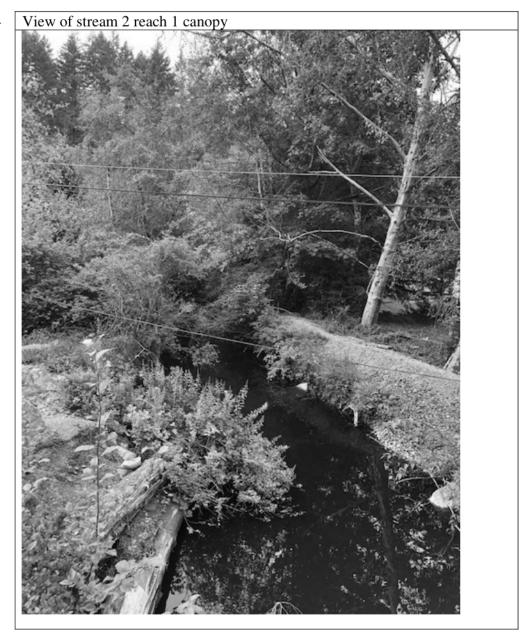
Plate #3



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FORM 1
Riparian Areas Regulation - Qualified Environmental Professional - Assessment Report

Plate #4



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#### Section 7. Professional Opinion

Assessment Report Professional Opinion on the Development Proposal's riparian area.

Date	2019-09-11			
1 1/\/	VeThomas			
Roy	ve <u>rnomas</u>	 	 	

#### 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 <u>CMBP</u>, which proposal is described in section 3 of this Assessment Report (the "development proposal"),
- I have/We have carried out an assessment of the development proposal and my/our assessment is set out in this Assessment Report; and
- 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:
  - a) 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, <u>OR</u>

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

b) 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.

**[NOTE: "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 association,

(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.]

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# Submission Instructions Riparian Areas Regulation – Qualified Environmental Professional – Assessment Report RAR-QEP-AR

#### Forms you will need to complete are

- Form 1 which has the database information, the description of the fisheries resources, development site plan, measures to protect and maintain the SPEA, and environmental monitoring.
- Form 2, if more QEPs are part of the project team.
- ➤ Either Form 3 the detailed assessment form(s) or Form 4 simple assessment form(s) which is for the results of the riparian assessment (SPEA width). Use enough copies of the form to complete the assessment of the site.
- Form 5 is the photo form(s). Duplicate for additional photos.

NB: See the Guidelines and the Assessment Methods for detailed instructions on the information required for completing the Assessment Report.

A complete Riparian Assessment Report based on the template forms must be converted to a *single* Portable Document Format PDF file prior to uploading onto the Notification System.

The Assessment Report must be complete, by submitting the information specified, and posted to provide notification to the local government, Ministry of Water, Land and Air Protection and the Department of Fisheries and Oceans Canada.

#### Tips for working with MS Word Template Forms

Using the forms

- Before beginning, print a hard copy of the form and the guidance files for reference
- Open the template
- Enter data into the shaded fields on the form
- Use TAB to move from one field to another; SHIFT-TAB to go in reverse
- Text and digital photos may be inserted from other applications
- The amount of text that can be entered in each box is limited and cannot be changed by the user; boxes with date information, for example, require input like: yyyy-mm-dd.

#### Saving the completed form

- Assign name to the completed form
- Save a word document (\*.doc file)
- Do not overwrite the Template (\*.dot file) with your completed form
- · If you do overwrite the template, you can download a new copy from this web site

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 From:
 Riparian Areas FLNR:EX

 To:
 CASCADIA BIOLOGICAL

Subject: RE: Assessment #5892A has been reviewed Date: November 26, 2019 12:03:00 PM

Hello Thomas,

The updated report has been reviewed and meets the standards of the RAPR.

Regards,

Nick

From: CASCADIA BIOLOGICAL <cascadiabiological@shaw.ca>

Sent: November 25, 2019 11:10 PM

To: Riparian Areas FLNR:EX < Riparian Areas @ Victoria 1.gov.bc.ca>

Subject: Fwd: Assessment #5892A has been reviewed

I submitted a second report on this file several months ago. In it I added detail as requested. Could I please get an update.

Regards

Thomas

From: "Riparian Areas FLNR, EX" < Riparian Areas @ Victoria 1.gov.bc.ca >

To: "Riparian Areas FLNR, EX" <RiparianAreas@Victoria1.gov.bc.ca>, "Thomas Roy" <<u>cascadiabiological@shaw.ca</u>>, "Riparian Areas, Region 1 FLNR:EX" <<u>RARReg1@gov.bc.ca</u>>, "DFO EPMP" <<u>DFO EPMP@PAC.DFO-MPO.GC.CA</u>>, "Matthew Baldwin" <<u>MBALDWIN@CITYOFLANGFORD.CA</u>>, "Matthew Baldwin" <<u>MBALDWIN@CITYOFLANGFORD.CA</u>>

Sent: Thursday, October 17, 2019 4:19:00 PM Subject: Assessment #5892A has been reviewed

RAR Assessment report #5892A has been reviewed by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development. The Ministry hereby provides notice that this report <u>requires amendments</u> to meet the assessment and reporting criteria of the RAR. <u>Please re-submit</u> once deficiencies in the assessment report (noted below) have been addressed. For more information please see comments/questions below. **If there are further questions please contact**<u>RiparianAreas@Victoria1.gov.bc.ca</u>

Report Number	5892A	

Date: 2019-10-17 Reviewed By: Nicholas Schwetz

#### **Keystone Data**

Report Number	r	5892A
QEP		Thomas Roy
Local Governme	ent	Langford, City of
Location of Pro Development (Ad	-	2965 Sooke Road
PID		030-827-345
Legal Description	on	
Stream	Name	Bilston Creek
	Type	Stream
	Comments	

#### RAR Assessment

	Assess	Comments
SPVT Correct	Yes	
ZOS' Correct	Yes	
SPEA Correct	Yes	17.67 m on south side of stream.
Site Plan	yes	The Study Area is outlined and shaded in red in the Site Plan. Is this the surveyed lot boundary? A background review of the CRD's online mapping tool suggests the lot is much larger than the study area delineated in this report. Will there be any development proposed north of the
HWM/TOB	Yes	stream? It is suggested only the south side of the stream will have development (i.e. the building pad). The SPEA must be delineated on the Site Plan as well as the development footprint.
RAA	Yes	, , , , , , , , , , , , , , , , , , , ,
ZOS's	Yes	
SPEA	No	
Building Envelope	No	
Development within SPEA	Unclear	The QEP has stated that a building pad is required for the sale of the lot. The building pad will be located immediately outside of the SPEA. The building pad footprint, and all associated site disturbances must be included in this RAR report.
Measures Appropriate	No	The QEP has stated that "this area [the building pad] will be located immediately outside of the SPEA". Measures to protect the SPEA may include areas outside of the SPEA. Therefore, the building pad footprint must be illustrated on the Site Plan and measures to protect the SPEA from the construction of the building pad must be clearly outlined.

## **Professional Opinion**

	Assess
Section 7 (a) Signed	No
Section 7 (b) Signed	Yes
QEP Reduced SPEA?	No

Applied Methodology Correctly? No

#### **Comments**

Photo 2 suggests road improvement works have already begun. Please verify. The QEP has stated that only a building pad will be built prior to sale. Works within and about a stream may require authorization under the Water Sustainability Act (WSA). Please verify if any works qualify under WSA and if WSA authorization(s) have been sought. See previous comments.

From: RiparianAreas@Victoria1.gov.bc.ca < RiparianAreas@Victoria1.gov.bc.ca >

Sent: September 12, 2019 10:44 PM

To: <a href="mailto:cascadiabiological@shaw.ca">cascadiabiological@shaw.ca</a>; Riparian Areas, Region 1 FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RARReg1@gov.bc.ca</a>; Riparian Areas FLNR:EX <<a href="mailto:RiparianAreas@Victoria1.gov.bc.ca">Riparian Areas, Region 1 FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RARReg1@gov.bc.ca</a>; Riparian Areas FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RIPARREG1@gov.bc.ca</a>; Riparian Areas, Region 1 FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RARReg1@gov.bc.ca</a>; Riparian Areas, Region 1 FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RARReg1@gov.bc.ca</a>; Riparian Areas, Region 1 FLNR:EX <<a href="mailto:RARReg1@gov.bc.ca">RIPARREG1@gov.bc.ca</a>; DFO\_EPMP@PAC.DFO-MPO.GC.CA; MBALDWIN@CITYOFLANGFORD.CA; MBALDWIN@CITYOFLANGFORD.CA; MBALDWIN@CITYOFLANGFORD.CA</a>

Subject: Assesment 5892 has been created

This assessment has been created. This notification is sent to you, Fisheries and Oceans Canada (DFO), the BC Ministry of Environment, and the appropriate local government(s).

Details of this assessment are included in this notification.

Assessment Details

Assessment ID:: 5892 Creation Date: 2019-09-12 Status: created Last Modified: 2019-09-12

Development Details

Landscaping, including fencing, retaining wall and parking 2019-09-**Development Type: Proposed Start Date:** lots 30 Area of Development 2020-12-.250 **Proposed End Date:** (hectares): 31 Nature of Development: New .370 Lot Area (hectares): Section 9 Part 7 Riparian Length: 20.00 **Activities:** 

Location Details

**Local Government:** Langford, City of **DFO Area:** South Coast Area

Region: Vancouver Island Stream/River Type: Stream

Parcel Identification (PID)/

Parcel Identification Number (PIN): 030827345 Stream/River Name: Bilston Creek

Address Line 1: Watershed Code: 930-027500

Address Line 2: Postal Code:

Latitude: 48<sup>o</sup>25'18" Longitude: 123<sup>o</sup>33'18"

Developer Details

Contact First Name: Steve Address Line 1: 116-967 Langford Parkway

Contact Middle Name: Address Line 2:

Contact Last Name:ThomasCity:victoriaProvince/State:bcPostal/Zip Code:v9b0a5Email Address:steve@keycorp.caCountry:canada

Company Name: Centre Mtn Business Park Phone #:

Primary QEP Details

Contact First Name:ThomasAddress Line 1:772 goldstream aveContact Middle Name:Address Line 2:PO Box 27034

Contact Last Name:royCity:victoriaDesignation:BiologistProvince/State:bcRegistration #:1089Postal/Zip Code:v9b 5s4Email Address:cascadiabiological@shaw.caCountry:canada

Company Name: Cascadia Biological Phone #:

Secondary QEP Details

Name: Company Address Email Phone