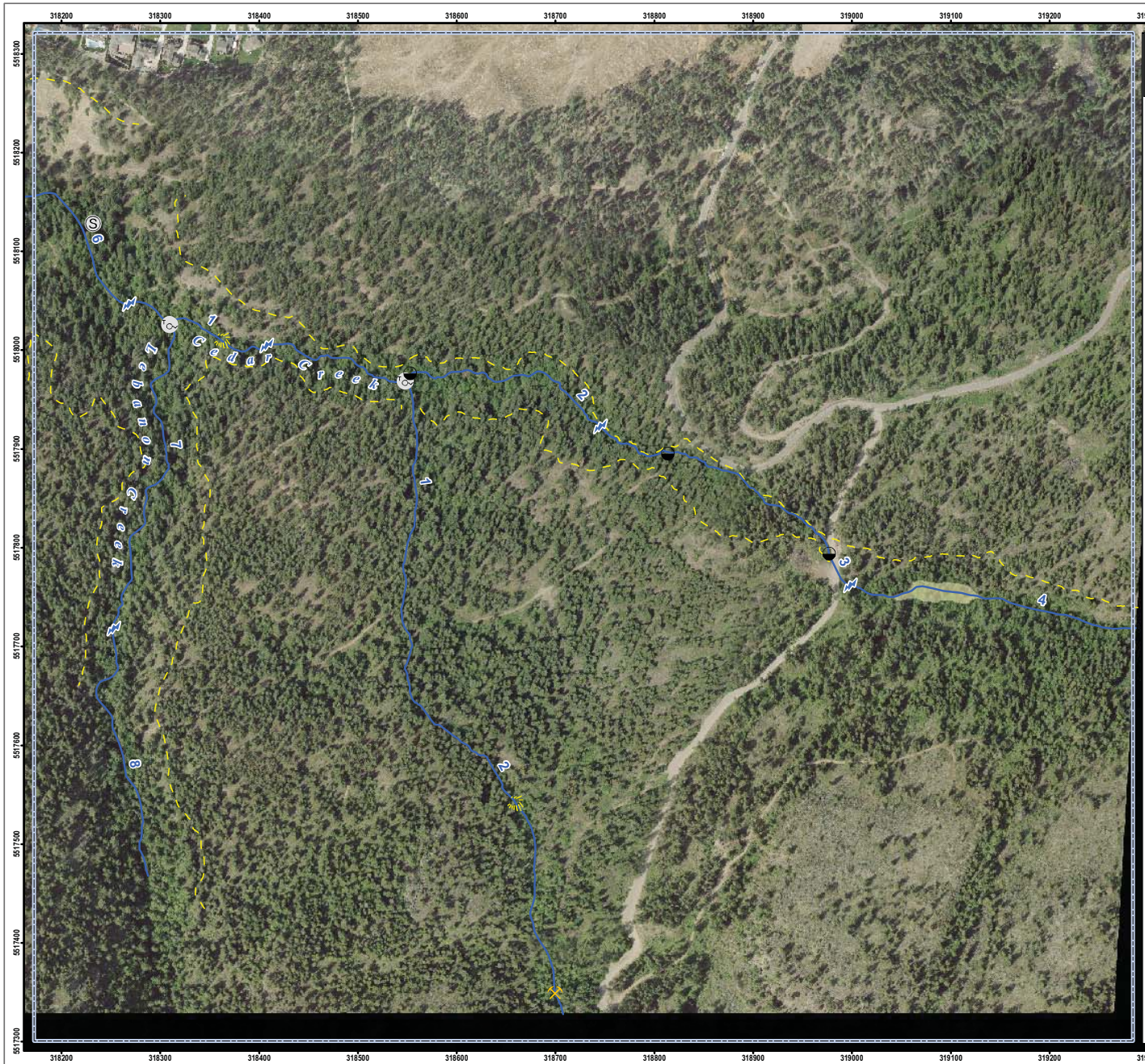


CEDAR CREEK

Segments 1-4

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	06-054
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	RW
Checked by:	KH
Projection:	NAD83-UTM Zone 11
Date:	January, 2007

60 30 0 60 120 180 Meters

1:4,000

N W E S

LEGEND

- Segment break
- Stream centreline
- Top of bank
- Culvert
- Erosion

Fish observation
- Rainbow trout

Obstruction
- Cascade
- Falls

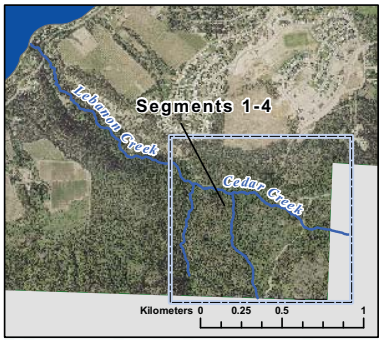
Modification
- Bridge
- Other
- Retain wall / Bank stability

Waterbody
- Side channel
- Tributary

Wetland
- Swamp

SOURCE INFORMATION

Base Map:	82E.083 Kelowna
Orthophoto:	2003, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2006/11
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

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Cedar Creek and Tributary
Segment(s): 1 - 4, 1-Trib and 2-Trib

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
1.0	Natural		114.849	Cascade/Pool	20.0	0	Unknown	Down cut channel from lack of riparian vegetation (fire) and subsequent increased surface runoff. Low shrub - early successional cover.
2.0	Modified		398.836	Cascade	12.0	0	Unknown	Salvage logging has occurred above ravine.
3.0	Modified		330.388	Cascade/Pool	25.0	0	Unknown	Bedrock controlled channel. Shrub regeneration providing over stream cover.
4.0	Natural		300.034	Riffle/Pool	3.0	1-20%	Unknown	Mixed burned snags, tall shrub thickets, regeneration.
1 - Trib	Modified		435.057	Cascade	12.0	0	Unknown	Significant channel agrading - surface flows occur about 320 m upstream from Cedar Ck.
2 - Trib	Modified		281.854	Cascade	15.0	0	Unknown	Significant channel agrading

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
1.0	0	1	9	75	13	2	1.10	1.90	0.01	0.30	
2.0	0	5	20	70	5	0	0.90	2.10	0.01	0.30	Numerous small woody debris jams in channel, which will help stabilize channel over time.
3.0	0	1	4	40	50	5	0.00	2.10	0.00	0.30	
4.0	1	60	38	1	0	0	0.00	0.90	0.00	0.10	
1 - Trib	0	10	25	55	10	0	0.60	1.20	0.02	0.15	Significantly agraded
2 - Trib	0	10	25	55	10	0	0.60	1.20	0.02	0.15	Significantly agraded

a. Substrate codes: O=organics; F=silt/sand; G=gravel; C=cobble; B=boulder; R=bedrock

Left Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Coniferous forest	Disturbed	low shrubs <2m	34-66%	>=5	No	Low	Burned Fd-Py forest - through ravine.
2.0	Herbs/grasses	Disturbed	low shrubs <2m	5-33%	No	No	Low	Salvage logging.
3.0	Herbs/grasses	Disturbed	low shrubs <2m	5-33%	No	No	Low	
4.0	Mixed forest	Disturbed	tall shrubs 2-10m	67-100%	>=5	No	Medium	Cottonwood-red-osier dogwood-douglas maple-water birch Riparian gully/wetland (DS) ecosystem.
1 - Trib	Coniferous forest	Disturbed	low shrubs <2m	5-33%	No	No	Low	Burned - salvage logged early successional.
2 - Trib	Coniferous forest	Disturbed	mature forest	34-66%	>=5	No	Low	Burned - salvage logged early successional - severe erosion

Right Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Coniferous forest	Disturbed	low shrubs <2m	5-33%	>=5	No	Low	Burned Fd-Py forest - through ravine.
2.0	Herbs/grasses	Disturbed	low shrubs <2m	5-33%	No	No	Low	Salvage logging.
3.0	Herbs/grasses	Disturbed	low shrubs <2m	5-33%	No	No	Low	
4.0	Mixed forest	Disturbed	tall shrubs 2-10m	67-100%	>=5	No	Low	Riparian gully/wetland (DS) ecosystem.
1 - Trib	Coniferous forest	Disturbed	low shrubs <2m	5-33%	No	No	Low	Burned - salvage logged early successional.
2 - Trib	Coniferous forest	Disturbed	young forest	34-66%	No	No	Low	Burned - salvage logged early successional - severe erosion

Segment	Comment - Flora		Comment - Flora
1.0	Graminoids;red-osier dogwood;snowbrush;snowberry;spirea;invasive forbs.		
2.0	Graminoids;red-osier dogwood;snowbrush;snowberry;spirea;invasive forbs.		
3.0	Graminoids;red-osier dogwood;snowbrush;snowberry;spirea;invasive forbs.		
4.0	Water birch; fir; rose; red-osier dogwood; snowberry; willow sp.; fireweed; pine.	Mule deer.	
1 - Trib	Fireweed; graminoids; snowbrush		
2 - Trib	Fir; pine; douglas maple;fireweed; graminoids; snowbrush		

Segment	Level of Impact [c]		Enhancement Opportunity	
1.0	Rating	Comment	Rating	Comment
2.0	Both_banks_low	Salvage logging	Low	
3.0	1_bank_low	Burned with encroachment from salvage logging.	Nil	
4.0	1_bank_mod	Although burned no salvage logging had occurred and the vigorous regeneration is occurring.	Low	
1 - Trib	Both_banks_low	Salvage logged - regeneration is vigorous.	Low	
2 - Trib	Both_banks_low		Low	Instream channel restoration/stabilization measures already implemented.
	Both_banks_low		Moderate	Instream channel restoration/stabilization measures rock weirs/woody debris wattles/bundles.

c. Impact rating: 6=nil; 5 = 1-bank low; 4 = 1-bank moderate; 3 = 1-bank high; 2 = both banks low; 1 = both banks moderate; 0 = both banks high



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