

**ALBERTA TRANSPORTATION SPRINGBANK OFF-STREAM RESERVOIR PROJECT
RESPONSE TO CEEA INFORMATION REQUEST PACKAGE 3, AUGUST 31, 2018**

Appendix IR7-1 Field Data Sheet for Unnamed Tributary
May 2019

APPENDIX IR7-1 FIELD DATA SHEET FOR UNNAMED TRIBUTARY

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Springbank Off-Stream Reservoir Project

Unnamed Tributary to the Elbow River (Tributary 1350)

UTM Location:	11U 677934E 5657175N	Survey Date:	September 20, 2016
Legal Location:	NW-11-024-05 W5M	Water Body Class:	Unmapped Class C
Crew Initials:	GS, BN, LA	Restricted Activity Period:	May 1-July 15 & Sept 16-April

Physical Channel Transect Data												Habitat Inventory / Reach Data						
Transect # (Location)	1 (↑100)	2 (↑50)	3 (CL)	4 (↓100)	5 (↓200)	6 (↓300)												
Channel Width (m)	0.8	1.0	1.0	0.5	0.5	1.0	Dom. Instream Cover:		-	Dom. Overhead Cover:		UC						
Wetted Width (m)	0.5	0.5	0.8	0.3	0.3	0.5	Subdom. Instream Cover:		-	Subdom. Overhead Cover:		OV						
Depth at LDB + 25% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1	Maximum Depth (m)		0.1	Dom. Aquatic Veg. Type:		-						
Depth at LDB + 50% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1	Habitat Distribution		Substrate Composition									
Depth at LDB + 75% (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1												
Max. Depth (m)	< 0.1	≤ 0.1	0.10	< 0.1	≤ 0.1	≤ 0.1												
Gradient (%)	-	-	-	-	-	-												
Dominant Habitat Unit	FL	FL	FL	FL	FL	FL												
Stream Bed													Water Quality Data		Channel Characteristics			
Substrate (% of Transect Area)	Organics	30	10	0	10	0	10	Time of Day (HH:MM):		-	Pattern:		IM					
	Fines	55	70	100	35	100	80	Water Temperature (°C):		-	Islands:		N					
	Small Gravel	5	10	0	5	0	0	Dissolved Oxygen (mg/L):		-	Bars:		N					
	Large Gravel	5	5	0	5	0	0	Sp. Conductivity (µs/cm):		-	Coupling:		CO					
	Cobble	5	5	0	40	0	5	pH:		-	Confinement:		CO					
	Boulder	0	0	0	5	0	5	Turbidity (NTU):		-	Flow Stage:		Pooled					
	Bedrock	0	0	0	0	0	0											
Embeddedness	H	H	H	H	H	H												
Bank Measurements													Fish Habitat Assessment Ratings					
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right						
Bank Height (m)	0.60	-	-	-	-	-	0.40	-	-	-	-	-	Spawning:		Forage	Coarse	Sportfish	
Bank Slope (°)	-	-	-	-	-	-	-	-	-	-	-	-	Overwintering:		None	None	None	
Bank Stability	US	US	US	US	US	US	US	US	US	US	US	US	Rearing:		Poor	None-Poor	None	
Dom. Bank Material	F	F	F	F	F	F	F	F	-	-	-	-	Migration:		Poor	Poor	None	
Subdom. Bank Material	O	O	O	O	O	O	O	O	-	-	-	-						
Dom. Riparian Veg.	G	G	G	G	G	G	G	G	G	G	-	-						
Subdom. Riparian Veg.	D	D	D	S	S	M	D	D	S	S	-	-						



Photo 1: View upstream at T2.



Photo 2: View of wetted channel at T5.

Fish Sampling Data									
Method		Effort		Species	Efish Catch (n)	Trap Catch (n)	Efish CPUE (#fish/100s)	Trap CPUE (#fish/hr)	Rel. Abundance (% of total)
Backpack Electrofisher (EB)		300 (s)		BROOK STICKLEBACK	2	-	0.67	-	100.0%
No Trapping		0.0 (hr)		-	-	-	-	-	-
Electrofisher Settings				-	-	-	-	-	-
Volts	Freq. (Hz)	Duty Cycle (%)	Dist. (m)	-	-	-	-	-	-
225	30	12	50	-	-	-	-	-	-

General Comments

