Environmental Guide for Fish and Fish Habitat

GENERAL	INFORMATIO	Charles and the control of the contr		194				
PROJECT	#:		ECT DESCRIPTI 十のいる	ON: D	AY: MON		AR:	EST THE
	THE RESERVE OF THE PERSON NAMED IN	NT required for			W F D		2017	
O Yes	O No		Unknown					
COLLECT			EATHER CONDI	TIONS:	TIME STAR	TED:	TIME FINISHE	D:
A.U.			loundy Drin		1000		1630	
AIR TEMP	200		WATER TEM	<b>)</b>	J*Y	CONDUCTIVIT		
РНОТО М	UMBERS AND	DESCRIPTIONS	167-	179				
LOCATION	1 3 1 1 1 1 1	TO BE STORY		WEIGHT.		11127	75 P. T.	30.00
NAME OF	WATERBODY:	DRAIN	NAGE SYSTEM:	CI	ROSSING #:	STATION #:		- 100
Unnai	ned					401-6	-30 U/S	2.300
LOCATION	OF CROSSIN	G: South	of cond	iestion	Rd 7	, at let 4	1507	
GPS COO	RDINATES:	172 431	7777	МТО	CHAINAGE:		***	
TOWNSHI	-	627 481	X7 60	MND	DISTRICT: A			
OVVINORI	Guelal			INTIAK	Au	Total		
	AND POLLUT			MASK.		THE PARTY.		THE REAL PROPERTY.
	IDING LAND U				CES OF POLLU			DESTRUZ
Resi	destial,	wetlend	(.	Roc	id runet	+		
A Septime								
	STRUCTURE 1							
	STRUCTURE 1	Box Culve	rtO Ope	n Foot Culv	ert O	CSP Ø	N/A	0
Brid	lge O		rtO Ope	n Foot Culv	ert O			0
Brid	lge O Describe:	Box Culve	rtO Ope	n Foot Culv	ert O	CSP 🔊		
Brid Other O I	lge O  Describe: TYPE AND MO	Box Culve			ert O			
Brid Other O I	lge O Describe:	Box Culve	SECTION LOCA (include on habitat r	ATION:	ert O			
Bric Other O I SECTION	lge O  Describe: TYPE AND MO IDENTIFIER:	Box Culver	SECTION LOCA	ATION:		Size (w x h) n	n <sup>2</sup>	· Cloude
Bric Other O I SECTION	lge O Describe: TYPE AND MO IDENTIFIER: Stream / river	Box Culver	SECTION LOCA (include on habitat r	ATION:	tent Ephem	Size (w x h) r		· Cloude
Brid Other O I SECTION SECTION	Ige O Describe: TYPE AND MO IDENTIFIER: Stream / river O	RPHOLOGY  Channelized O	SECTION LOCA (include on habitat r	ATION: nap) Intermit	tent Ephem	Size (w x h) r	n <sup>2</sup>	, all and
Brid Other O I SECTION SECTION	Ige O Describe: TYPE AND MO IDENTIFIER: Stream / river O	Box Culver	SECTION LOCA (include on habitat r	ATION: nap) Intermit	tent Ephem	Size (w x h) r	n <sup>2</sup>	· Cloude
Dither O I SECTION SECTION  TYPE: STOTAL SE  SUB-	Describe: TYPE AND MO IDENTIFIER: Stream / river O ICTION LENGT	RPHOLOGY  Channelized  O  H (m):	SECTION LOCA (include on habitat representation)	ATION: nap) Intermit	tent Ephem	Size (w x h) r	n <sup>2</sup>	· Cloude
Brid Other O I SECTION SECTION TYPE: 3	Describe: TYPE AND MO IDENTIFIER: Stream / river O ICTION LENGT	RPHOLOGY  Channelized  O  H (m):	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCIT	Size (w x h) r	n <sup>2</sup>	ND:
Brid Other O I SECTION SECTION TYPE: S TOTAL SE SUB-	Describe: TYPE AND MO IDENTIFIER: Stream / river O ICTION LENGT Run (S)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCIT	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: STOTAL SE  SUB- SECTION	Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT Run O ge	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCIT	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area Mean dep	Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT Run O ge	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCITE Flats	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION TYPE: SUB- SECTION Percenta of area	Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT Run O ge	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCIT	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area  Mean dep wetted (r	Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT  Run O ge oth n)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCI	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area  Mean dep wetted (r	Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT  Run O ge oth n)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCI  Flats  O C C T	Size (w x h) r	n <sup>2</sup>	ND:
Dither O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area Mean dep wetted (r Mean wid wetted (r Mean wid	Describe: TYPE AND MO IDENTIFIER:  Stream / river O ICTION LENGT  Run (S) O ge	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCI	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area  Mean dep wetted (r  Mean wid wetted (r  Mean bankful	Describe: TYPE AND MO IDENTIFIER:  Stream / river O ICTION LENGT  Run (S) O ge oth n)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: nap) Intermit O CUI	tent Ephem O RRENT VELOCI  Flats  O C C T	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area Mean depwetted (r Mean wid wetted (r Mean kiul width (r Mean widt	Describe: TYPE AND MO IDENTIFIER:  Stream / river O ICTION LENGT  Run (S) O ge oth n)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: map) Intermit O CUI	tent Epherr O RRENT VELOCITE Flats	Size (w x h) r	ATED WETLA	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area  Mean dep wetted (r  Mean wid wetted (r  Mean bankful	Describe: TYPE AND MO IDENTIFIER: Stream / river O ICTION LENGT Run (S) O ge oth n) Ith n)	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: map) Intermit O CUI	tent Ephem O RRENT VELOCI  Flats  O C C T	Size (w x h) r	n <sup>2</sup>	ND:
Other O I SECTION SECTION  TYPE: SUB-SECTION  Percenta of area Mean depwetted (r Mean wid wetted (r Mean wid wetted (r Mean bankful width (r Mean	Ige O Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT Run (S) O ge oth n) Ith n) I	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: map)  Intermit  O  CUI  iffle  O	Flats  80  G1-  U. 7  Leadefined  Mu 50%	Size (w x h) r	Oth Stadio	ND:
Other O I SECTION SECTION TYPE: SUB-SECTION Percenta of area Mean depwetted (r Mean widwetted (r Mean widwetted (r Mean bankful width (r Mean bankful depth(m	Ige O Describe: TYPE AND MO IDENTIFIER: Stream / river O CCTION LENGT Run (S) O ge oth n) Ith n) I	RPHOLOGY  Channelized  O  H (m): 5	SECTION LOCA (include on habitat representation)  Permanent	ATION: map)  Intermit  O  CUI  iffle  O	tent Epherr O RRENT VELOCI Flats  80 G Co. 7 Leadefined	Size (w x h) r	Cott Stadio	ND:

Environmen	•			d Fish H	labitat	Appe	ndix 4					ecord Fo	
BANK STABILI	ΓY	1								110000			
			Stable	, S	lightly Uns	stable	Мо	derately	Uns	table		Unstable	9
Left Up	stream E	lank	Ø		O			0				0	
Right Up	stream E	lank	, O.		0			0	- 20			0	
HABITAT	ing mile				100	The Little		ALL A					
IN-STREAM COVER (% surface	Under bank		Boulders	Cobble	Woody E			Organi debris		Vascul Instrea		rophytes	None
area):	/			/	Overhan			30	6			40%	
SHORE CO		1	00 – 90 %	90 –	60%	60-	30%			30 – 1%		No	ne
(% stream sha	aded):		0	Ç	<b>)</b>		0	0 0		0		C	
VEGETATION (%):	TYPE		Submerge	nt		Floating			É	mergent		N	lone
	ominant Species							Ca	tto	:15			
MIGRATORY OBSTRUCTION	V.	None			Seaso	onal	and the same			Permar	nent	at a second	
POTENTIAL		Spaw	ning		Evidei	nce of Grou	undwat	ter		Other			
CRITICAL HABI LIMITING:	ITAT				Ir	on St	diri	ny					
POTENTIAL EN	HANCE	/ENT	OPPORTUNIT	ES:			112	W H	. 8		, 12		Just .
N.~													

COMMENTS: Permanent wetland feature South on C.R. 7. Small flow through wetland, though no defined channel. Contrails and aching in vegetation Preset. Potential fish habitat Bird breeding habitat Additional Notes Appended? O No O Yes number of pages

gamente.	SECTION LENGTH (m):	SCALE (cm / m):
		JOJECT #:
		541071
	MAI	PPER:
		BUHL
		E OF WATERBODY:
		in name d
		SSING #:
SOUTH STATE OF THE		**************************************
		TION #:
		101-6-30US E: DD-MMM-YY
RICULTURE		27-Jul-17
		LEGEND
	104	depth (cm)
	6w	width
		Difflo
000 6210		Run/Glide
18 3 0		Pool
5000		sland/Bar
	/	ine Substrate
CUETINOS		Gravel Substrate
	000	oO Cobble /Boulder
CT	***	Debris
	СТ	Cattail
, ,	SV/I	V Submerg/Float Veg
A III CTI	EV	Emergent Vegetation
	W V	Vatercress
12		ron Staining
		/ Eroded Bank
0/0//100 12 12	xxx	Riprap / Other
MICESSION ROLL		Stabilization
Vert. Scale		Instream Log/Tree
		Dam/Weir/Obstruction
	R F	Riparian Tree
		010
	1 P 9 / 1 P	Seep/Spring Undercut Bank
	/	
		Barrier to Fish Movement Seasonal Barrier
	I -X>	- Fence line
	CYETL AND  CT  CT  Vert. Scale	PROMAND MAN  NAM  ORC  CRO  STA  DAT  10d 6w  F  WETL AND  CT  SVIF  EV  W V  FE I  IIIIII  XXXX  Vert. Scale  AAA  ® F

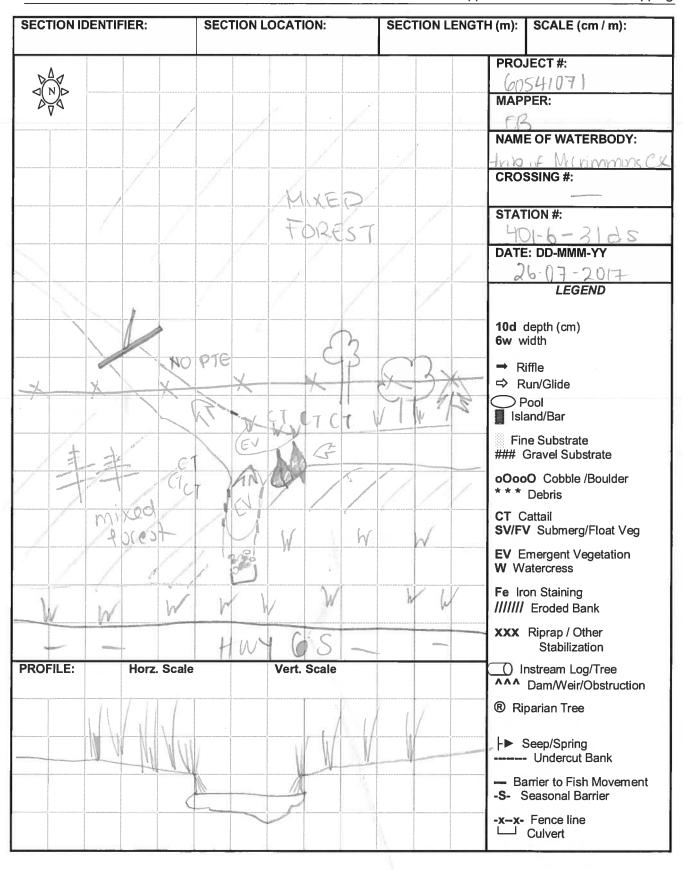
	AL INFO	RMATIO							Larly.		
PROJECT 605		3000		ECT DESCRIPTI	ION:	DAY:	MON	TH: Ju	YEAR	5 17-	
s STRE	AM REAL	IGNMEN	IT required for	this section:					Balle		
O Yes		O No	Ŏ.	Unknown							
COLLEC			WE	ATHER CONDI	TIONS:		IE START	ED:	T	ME FINIS	
AC	JOY OF	>		ant rain			10:30			10 45	
AIR TEM	IP:			WATER TEM!				CONDUC	CTIVITY	(µS/cm):	
эното	NUMBER	S AND E	DESCRIPTIONS	<b>:</b> :							
OCATIO			MARKET AUTO	N. Prov. Pr		51,174.5	TE SH		2.W.		1 2 7 1
	F WATE			IAGE SYSTEM:		CROSSII	NG #:	STATI		95.	
unno	armed 1	ne + 1a	nd					40	1-6-3	Ods	vi
OCATIO Con	ON OF C	ROSSING	G: 7 @	File num	ber	4507					
1756	ORDINA 6619	4181	2720		МТС	CHAINA	AGE:			42	
rownsi	HIP: Gue	lph			MNF	R DISTRI	ст:				
	SE AND		ON	F (5) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A 56		10	and free	NO. IVE	
SURROL	JNDING I	AND US	E:		SOU	RCES O	F POLLU	TION:		1.00	
F	orest	wet	land, no a	of a second	a	elland	£10	W			
Mente e	14000		I KYOL		- 175	0.00		THE PARTY OF THE P			SP-ST
XISTIN	G STRUC	TURE T	YPE		4479	15 (W)	8 2 5 5				J. K. Karlett
В	ridge O		Box Culver	tO Ope	n Foot Cu	lvert, O		CSP 🖔		١	V/A O
7,0											
Other O	Describe	в:		0.000				Size (w	x h) m <sup>2</sup>		==
			RPHOLOGY	OF OTHER LAND	TION			178			343
SECTION	N IDENTI	FIER:		SECTION LOCA (include on habitat r		-					
YPE:	Stream	/ river	Channelized	Permanent	Interm	ittent	Epheme			ED WET	LAND:
	0	12.14	0	×		,	0		wet la	and.	
OTAL S			1 (m): 200				VELOCIT				
OTAL C	2011011	LENOTI	200				-				
SUB		Run	Poo	l Ri	iffle	FI	ats	Inside c	ulvert		Other
SECTIO	N(S)	O	0	dial whole	0		0	0			
Percent of are	_				)	10	00				
Mean de wetted		1				0.	25			1	
Mean w wetted				/		0.	3			/	
Mea	ull		1/	11			- NE	7	/		
width (			1/	/ /		10.	911	- (			5
bankfi depth(	ull					NUN	FINE				/
Substr						100 /	1u	or TW	I Godf		
Bedroc Br	k Be	oulder Bo	Cobble	Gravel Gr	Sand Sa		Silt Si	Clay		Muck Mu	Detritu

BANK STABILIT	Ϋ́	Ctable	6	lighthy I Instable	Madar	ately Uns	toblo	Unsta	hlo
Left Ups	stream Bank	Stable 🌣	5	lightly Unstable O	iviouera	O O	IdDIE	Onsta	DIE
Right Ups	stream Bank	8		0	1.	0		0	
HABITAT		0(			(1875)A-7			ENSENS	4350
IN-STREAM COVER (% surface area):	Undercut banks	banks Inst			debris Instre			scular Macrophytes stream 40 rerhanging 50	
SHORE COVER		100 – 90 %	90 –	60% 60	- 30%		30 – 1%	N	lone
(% stream sha	ided):	0	, è	-	0		0		0
VEGETATION (%):	TYPE	Submerge	ent	Floating		E	Emergent	C. C. C. Company.	None
	minant	egyptone				U UM	100 - tail		
	Species					Cur			
MIGRATORY OBSTRUCTION	S: None			Seasonal			Perman -	ent	
	. <		·						2
permaner through potential	mi XOd f	orest abitat	7	concession 2	a 7	WHY	flowi	ng water	
· Softs	iolbs1 route ation			inel , abunda	nt ou	ruatic	++	e vie striou	2
	es Appended	No ONO O		number of pages					

SECTION IDEN	TIFIER:	SECTION LOCATION	ON: S	SECTION LENGTH (m):	SCALE (cm / m):
N N				6	DJECT #: 0541071 PPER:
			2		ME OF WATERBODY:
					TION #: 101-6- 30 ds TE: DD-MMM-YY
	FORT	.57			27- Jul-17- LEGEND
m m	nn			6w →	depth (cm) width Riffle Run/Glide Pool
3	TY	WETLEND	<b>4 4 6</b>	G 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ine Substrate Gravel Substrate  OOO Cobble /Boulder
	M		The second secon	HYDRO SVII	* Debris Cattail FV Submerg/Float Veg Emergent Vegetation
VI	( V	CT V	V	W \ Fe	Vatercress Iron Staining // Eroded Bank
PROFILE:	Horz. Scale	Vert.	Scale		Riprap / Other Stabilization Instream Log/Tree Dam/Weir/Obstruction
u d	, y	,1 a 1 7	, , , ,		Seep/Spring Undercut Bank
	VVV		W W	-S-	Barrier to Fish Movement Seasonal Barrier  Fence line Culvert

GENERAL IN	FORMATION								
PROJECT #:	071		ECT DESCRIP	TION:	DAY:	MONTH		EAR: ZOIF	
Is STREAM RI	EALIGNMEN	T required for	this section:						
O Yes	O No	Ø.	Unknown			SILL	nu sty		
COLLECTORS	S:	WE	EATHER COND	OITIONS:	TIM	ESTARTE	):	TIME FINIS	HED:
AO.	00		londy			300		1330	
AIR TEMP:	2100		WATER TEN	ne:		C	SONDUCTIV	ITY (μŠ/cm):	
PHOTO NUME	BERS AND D	ESCRIPTIONS	74.	-95					
LOCATION	JE USIN		1027 12 1	XXXXII.					VY JEAN
NAME OF WA	TERBODY:	DRAIN	NAGE SYSTEM	:	CROSSIN	G #:	STATION #	#: 6-315	7/
LOCATION OF	FCROSSING	· Hwy	6 South	1 50	ndh e	1 (	P 74	1	1).
		٢					7(		
GPS COORDII	NATES: 1	6345 481	11690	MTC	CHAINA	GE:			
TOWNSHIP:	Guel	ph	-	MNF	DISTRIC	T: Auro	ra		m same s
LAND USE AN				108					
SURROUNDIN	IG LAND US	E:		SOU	RCES OF	POLLUTIO	N:		
Mixel	forest.	Private P	reporty. I	my H	سع رد	nott			
EXISTING STR	RUCTURE TY	PE		t picture.	S. 1745		A CHOICE		
Bridge (	0	Box Culver	tO Op	en Foot Cu	lvert O	CS	SP Ø		I/A O
Other O Desc	cribe:							_	
	The second second						Size (w x h)	m <sup>2</sup>	
SECTION TYP		PHOLOGY	SECTION LOC	ATION	(5.00 N	NS SE	Size (w x h)	m <sup>2</sup>	
SECTION IDE		PHOLOGY	SECTION LOC (include on habitat				Size (w x h)	m <sup>2</sup>	
SECTION IDE	NTIFIER:	PHOLOGY			nittent	Ephemera		m <sup>2</sup>	LAND:
SECTION IDE	NTIFIER:		(include on habitat	map)				CIATED WET	LAND:
SECTION IDE	NTIFIER:	Channelized O	(include on habitat	Interm		Ephemeral	ASSOC		LAND:
TYPE: Street TOTAL SECTION SUB-	ATIFIER:  am / river  ON LENGTH  Run	Channelized O (m):	Permanent	Interm (CI	URRENT \	Ephemeral O /ELOCITY (	ASSOC	CIATED WET	LAND:
TYPE: Street  TOTAL SECTION  SUB- SECTION(S)	ANTIFIER:	Channelized O (m):	Permanent	Interm	URRENT V	Ephemeral O /ELOCITY (	ASSOC	CIATED WET	
TYPE: Street TOTAL SECTION SUB-	ATIFIER:  am / river  ON LENGTH  Run	Channelized O (m):	Permanent	Interm (CI	URRENT \	Ephemeral O /ELOCITY (	m/s):	CIATED WET	
TYPE: Stream TOTAL SECTION SUB- SECTION(S) Percentage	ANTIFIER:  am / river  g  ON LENGTH  Run  O	Channelized O (m):	Permanent	Interm C C C Riffle O	Fla	Ephemeral O /ELOCITY ( ts	m/s):	CIATED WET	
TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width	on LENGTH  Run  O  50  0.30	Channelized O (m):	Permanent	Interm C	Fla O	Ephemeral O /ELOCITY ( ts	m/s):	CIATED WET	
TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)	ANTIFIER:  am / river  g  ON LENGTH  Run  O	Channelized O (m):	Permanent	Interm C C C Riffle O	Fla	Ephemeral O /ELOCITY ( ts	m/s):	CIATED WET	
TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width	on LENGTH  Run  O  50  0.30	Channelized O (m):	Permanent	Interm C	Fla O	Ephemeral O /ELOCITY ( ts	m/s):	CIATED WET	
TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)	on LENGTH  Run  O  50  0.30	Channelized O (m):	Permanent	Interm C	Fla O	Ephemeral O /ELOCITY ( ts	m/s):	CIATED WET	
TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)  Mean bankfull	on LENGTH  Run  O  50  0.30	Channelized O (m):	Permanent (a)	Interm C	Fla O	Ephemeral O //ELOCITY (	m/s):	CIATED WET	
TYPE: Streat  TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)  Mean bankfull depth(m)	ON LENGTH  Run O  50  1.3	Channelized O (m):	Permanent  O  O  O  O  O  O  O  O  O  O  O  O  O	Interm C	FIA 00.	Ephemeral O //ELOCITY (	m/s):	CIATED WET	
TYPE: Streat  TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)  Mean bankfull	ATIFIER:  am / river  gr  ON LENGTH  Run  O  50  1.3	Channelized O (m):	Permanent (a)	Interm C	Fla O	Ephemeral O //ELOCITY (	m/s):	CIATED WET	

BANK STABILIT	ГΥ										( = W/W = W	
			Stable		Slightly	Unstable	Mo	derately Uns	stable		Unstable	
Left Up:	stream Ba	ank	0			Q		0			0	
Right Up:	stream Ba	ank	0			ø		0			0	
HABITAT			75 E . 118						10 10		None C	
IN-STREAM COVER (% surface area):	banks 40%			Cobble	Instream 70% Overhanging			Organic debris	debris Instream Overhanging			None
SHORE CO		1			60%	60	- 30%		30 – 1%		No	
(% stream sha			0		0	P*1 - 4'	Ò(		0		0	
VEGETATION (%):	TYPE		Submerge 25%	nt		Floating			Emergen くつし	it	N	lone
	ominant	1 . /.	for cress					water	<u> </u>			_
	Species		70 000)			and the same of th			- /			
MIGRATORY	//	lone	>		S	easonal			Perma	nent		
OBSTRUCTION	IS:					_<			dari	Carried State of the State of t		
POTENTIAL		Spawi	ning		( E	vidence of Gro	undwa	ater	Other			
CRITICAL HABI	ITAT					Water	a Pt			-		
POTENTIAL EN	HANCEM	FNT	OPPORTUNIT	FS:		WELLO / /	(1)		1		5000	20 (F. W.)
COMMENTS:		> 10°										
Permanent only of his	teren	~ <~	low of . Note	water	rechar	offere offere offere Majori	then o	t ME. f cede boulde	disti	il olies. d	Lage	e d
Additional Note	es Appen	ded?	O No O	Yes	nur	nber of pages _						



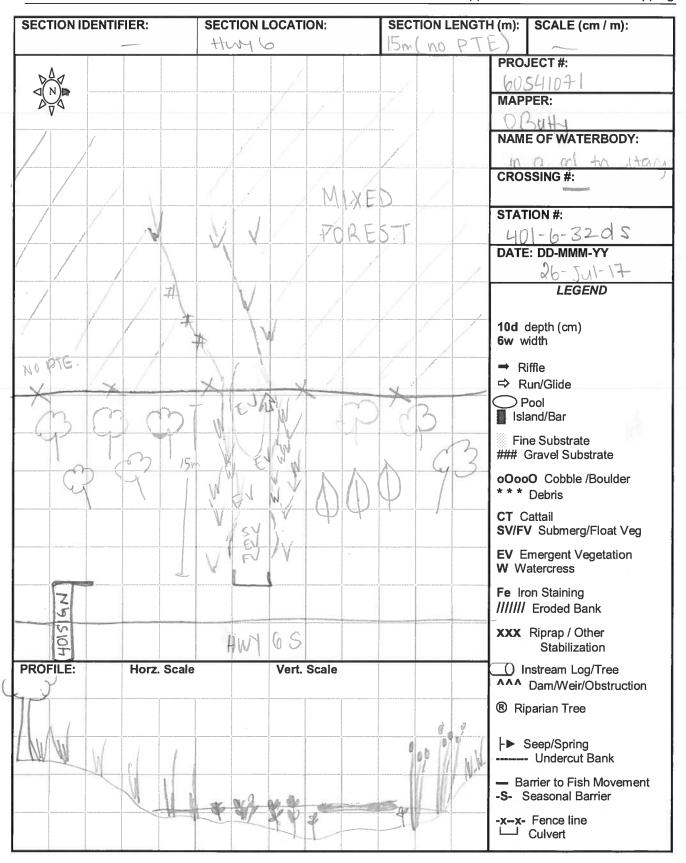
# **Ministry of Transportation**

Environmental Guide for Fish and Fish Habitat

GENERAL IN	FORMATION					A LONG		19/19	
PROJECT #:	21		CT DESCRIPT	ION:	DAY: Z6	MONT	H:	YEAR:	
The Control of the Co		T required for			6		0.000	2617	
O Yes	O No		Unknown						
COLLECTOR	S:	19	ATHER COND	ITIONS:	TII	ME STARTE	ED:	TIME FINIS	
A.0	, 013		loudy			1340	15	140	5
AIR TEMP:	16		·	P: 7.5			CONDUCTIV	/ITY (μS/cm):	
PHOTO NUME	BERS AND D	ESCRIPTIONS	96-10	8					
LOCATION	SET BY								458
NAME OF WA			AGE SYSTEM:		CROSSI	NG #:	STATION		10
LOCATION OF	Stream			a)	, ,	4 \ 1	70(-	6-320	13
LOCATION O	r CRUSSING	HOJ 6	s just n	614h	et 1	0100	n -ram		
GPS COORDI		8 4811	714		CHAIN	100			
TOWNSHIP:	Guelo	v 1011	GOLT.	MNF	R DISTRI	CT: Aug	00		T F 30
LAND USE AN		NC			Transfer			Birth	ENDER!
SURROUNDIN	IG LAND US	E:		sou	RCES C	F POLLUTI	ION:		
private (	reports			H	· · · · · · · · · · · · · · · · · · ·	uniff			
EXISTING ST	RUCTURE TY	/PE	November		ا ما	wwitt		A SECURITY	WEST TAN
Bridge	0	Box Culver	tO Ope	en Foot Cu	Ivert O		CSP Ø		V/A O
Other O Des	cribe:					1	Size (w x h	\ m <sup>2</sup>	
SECTION TYP	E AND MOR	PHOLOGY	1427/16		31 Sugar	STATE OF	GILO (III XII	T MARKE	
SECTION IDE	NTIFIER:		SECTION LOC (include on habitat						
TYPE: Stre	am / river	Channelized	Permanent	Intern	nittent	Epheme	ral ASSC	CIATED WET	LAND:
	Ø.	0	Ø.		)	0			
TOTAL SECTI	ON LENGTH	(m): 10~		С	URRENT	VELOCITY	( (m/s):		
SUB-	Run	Poo	I R	Riffle	F	lats	Inside culv		Other
SECTION(S)	Ø	0	Miss Sing	0		0	0	Stay	line
Percentage of area	20%		-					80%	J
Mean depth wetted (m)	0.40		_		100			0.7	5
Mean width wetted (m)	1.4							. 14	
Mean bankfull	Indefine	۸ _		and the same of th				Unde	(md
width (m)								1.1	1. 1
Mean bankfull depth(m)	undef;	ed				-		Unde	t. Vou
Substrate	506 M	0 _	ampliado a propiedo a			-/-		Mus	0'i 0'50'L
Bedrock Br	Boulder Bo	Cobble	Gravel Gr	Sand Sa		Silt Si	Clay Cl	Muck Mu	Detritus D

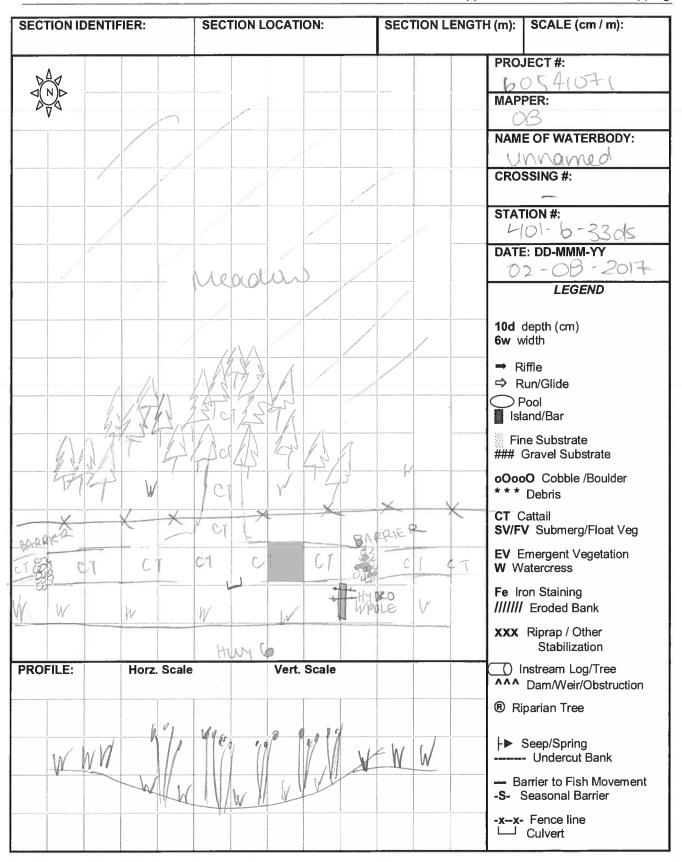
Ministry of Tr <i>Environmen</i>				nd Fish F	-lahitat	Annend	dix 4.A: V				estigatio	
	tar ou	iuo i	or rion an	a i ion i	Tabitat	Аррепс	11X T.A. V	vatero	Jui 3C 1	iciu i te	20014 1 01	
BANK STABILIT	Υ								in in his section.			WANE
			Stable	S	lightly Uns	stable	Moderate	ely Uns	table		Unstable	•
Left Up:	stream E	Bank	<b>Ø</b> -		. 0			0			0	-
Right Up:	stream E	Bank	Ø		0			0			0	
HABITAT												
IN-STREAM	Under		Boulders	Cobble	Woody [	Debris	_	anic	Vascul	ar Macr	ophytes	None
COVER (% surface	bank	(S		/	Instream	1		bris X	Instrea	m 70	$\mathcal{O}$	
area):					Overhan	ging			Overha	nging <sup>*</sup>	10.	
SHORE CO	/ER	1	00 – 90 %	90 –	60%	60- 3	0%		30 – 1%		No	ne
(% stream sha	aded):		0	C	)	0			0		C	)
VEGETATION	TYPE		Submerge	nt		Floating		E	mergen	t	N	lone
(%):		0.5	asses					/	67		$\dashv$	
	ominant Species	2	ilamentous	algae	-	The state of the s	(	Lres;	ssp.			
MIGRATORY OBSTRUCTION	1 1	None	>	3	Seaso	onal			Permai	nent		
POTENTIAL CRITICAL HABI LIMITING:		Spaw	ning		Evide	nce of Groun	dwater		Other			
POTENTIAL EN	HANCE	MENT	OPPORTUNITI	IES:				To V	Market .		entropide - Sw	
None						a altituto da						

OMMENTS:			SERVICE STATES	
vell defined	channel lu	ith abunda	ce of aquestic	· Vegetation
cursing	Stading wa	ter in Stud.	rea Section	=, is, 1.1 L
disgrain 10	a vegetatic	- want dot	incel balls. H	Legetation is labitation
B'we ore	carry say,	Tall Picsary		
dditional Notes Appe	ended? O No O Yes	number of pag	100	·



GENERAL IN	FORMATION	ESTITE	HEITH	12.77	A BAY				
PROJECT #: 605410	<del></del>		ECT DESCRIPT	TON:	AY:	MONTH		YEAR: 2017	
Is STREAM R	ALC: A SAN WELL STREET			1-6(0)					
O Yes	O No	0	Unknown						
COLLECTOR	S:	WE	ATHER COND	ITIONS:	TIMI	STARTE		TIME FINIS	-
0B, AO		C	(oar, he			11.0		11 6	25
AIR TEMP:	5		WATER TEM	P:		'	CONDUCTI 	VITY (µS/cm):	
PHOTO NUME	BERS AND DE	SCRIPTIONS	:						
LOCATION		1500 a 1500					Y SAME	4.012.40	THE RESERVE
NAME OF WA	TERBODY:	DRAIN	AGE SYSTEM	: C	ROSSIN	G #:	STATION	#:	
unnan	red						401-	6.33 ds	<u> </u>
LOCATION O	F CROSSING:								
Huy	6 N	of Go	ire Rd						
GPS COORDI	NATES:			МТО	CHAINA	BE:	-		
TOWNSHIP:	Hamilto	200		MNR	DISTRIC	Γ:		THE STATE OF	
LAND USE A				High St	3/10				
SURROUNDIN						POLLUTION	ON:		
meadou	, wad,	+0105+		r	inotf				
						-			
EXISTING ST						Range E.	l.		
Bridge	0	Box Culver	tO Ope	en Foot Culv	vert O	C	SP Ø	N	I/A O
Other O Des	oribo:	*					Size (w x l	· V 2	
SECTION TYPE	- T = 0 = 7	PHOLOGY	. 10 a v				Size (W X i	1) III	N V. V C
SECTION IDE			SECTION LOC (include on habitat						
EN COR		<u> </u>		1			.   1000	OCIATED WET	AND
TYPE: Stre		Channelized	Permanent	Intermi		Ephemer	al ASS	JCIATED WET	LAND.
	0	0	0	Ø		0			
TOTAL SECTI	ION LENGTH	(m): 150		CU	RRENT	ELOCITY	(m/s):		
SUB- SECTION(S)	Run	Poo		Riffle	Fla		Inside culv	rert	Other
	0	0		0	C		0		
Percentage of area				ATER					
Mean depth	/		NO CI	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			- 1		
wetted (m)	/						/		
Mean width	17					/	/		
wetted (m)	1/					/			
Mean			/			/	XI. PYS		/
bankfull						/	/	/	
width (m) Mean							/	/	
bankfull depth(m)					(			/	
Substrate			and the same			W 2 1		11/20-11	(Mailsin
									<b></b>
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa		Silt Si	Clay Cl	Muck Mu	Detritus D

	01				No. of the last of the	A IN CARDON		TO AT
Left Upstream I	Sta Bank		Slightly Ur	istable M	oderately Uns	table	Unstable	•
	<u> </u>	,	0		0		0	
Right Upstream I	Bank		0		0		0	
IN-STREAM Under COVER band (% surface area):		rs Cobi	ble Woody Instrea		Organic debris	Vascular Ma	acrophytes	None
			Overha	nging		Overhangin	g	•
SHORE COVER (% stream shaded):	100 – 90 %		90 - 60%	60- 30%		30 – 1%	Noi	
VEGETATION TYPE Submergent (%):		ergent	0	Floating	E	O Emergent	/O	lone
Predominant		177.55						
Species MIGRATORY OBSTRUCTIONS:	None		Seas	onal		Permanent	) no connact	i vit
POTENTIAL CRITICAL HABITAT	Spawning		Evide	ence of Groundw	ater	Other		1
, Nove -	x 10 . Vach	- Wh	vegano					
COMMENTS:		** J. S. J.						250
drainage si	woule ad	Jacent MAGENT	to Hw	y 6, ruch	K Check	dams	lined	0
no mater of obtainage of	on veyand	e fy	NI KON	only.	tish ha	bitat		
· choked wit	h cat -10	cils;	phrag	Nofu	ulveit.			
		^						

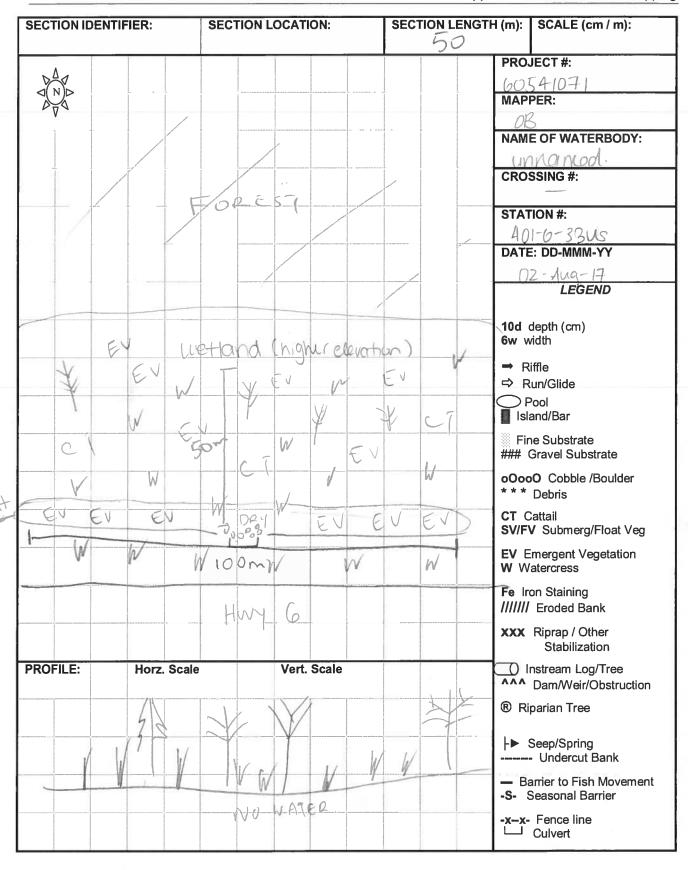


# **Ministry of Transportation**

Environmental Guide for Fish and Fish Habitat

GENERAL I	NFORMATIO	N		HESK					21 6 - 4 7
PROJECT #:		PROJ	ECT DESCRIPT		AY:	MONTH:	2,32,0	AR:	
605410			101-6		02	1 Aug	2	017	
		NT required for							
O Yes	O No	-	Unknown						
COLLECTOR	7		EATHER CONDI			E STARTED	):	TIME FINIS	
AIR TEMP:	)	10	WATER TEM			1.15	ONDUCTIVIT	11:35 V (15(am))	>
25	)		WATER TEN				ONDOCTIVI	Т (µ3/стт).	1
	BERS AND	DESCRIPTIONS	S:		151-	te 39 on	pic)		
LOCATION		Con Mary			75768		F-221011	15.154	
NAME OF W	ATERBODY:	DRAIN	NAGE SYSTEM:	С	ROSSIN	G #:	STATION #:	160	- 11/4/-
unnam	ed			_			401-6-3	33 WS	
LOCATION (	OF CROSSIN	G:							
Huy 6	N of	Gore Rd							
GPS COORD	INATES:	00137		мто	CHAINA	GE:		Land.	
TOWNSHIP:	24 000	30137		MNR	DISTRIC	τ.			Total Hilling
	nilton	)			51011410			1, 175	
LAND USE A		The state of the s			idab.		3, 100 m		
SURROUND		SE:			-	POLLUTIO			
wetland	1 1000			nur	MOH	1 over	land f	1000	
EXISTING ST	DUCTURE T	VDE.	_				_		District of the last
			.0		. 0		n b		
Bridge	0	Box Culver	rtO Ope	en Foot Culve	ert O	CS	SP &	ļ P	I/A O
Other O De	ccribe:						Size (w x h) n	_2	
SECTION TY		RPHOLOGY	1	124.5	17 Y B		Size (W X II) II	5-35-1- N P	State of the last
SECTION ID			SECTION LOC						
		į.	(include on habitat	map)					
TYPE: Str	eam / river	Channelized	Permanent	Intermit	tent	Ephemeral	ASSOC	ATED WET	LAND:
	0	0	0	bx		0	-		
TOTAL SECT	TION LENGT	H (m): 50				/ELOCITY (	m/s):	and the same	
SUB- SECTION(S	Run			liffle	Fla		nside culver		Other
	0	0		0	С		0		Dheir
Percentage of area	A Year		.10	. at	10	0050			
			NO	WAT	CIL	1 KC 2	ENI		
Mean depth wetted (m)	/	/		DUN	FIL	IFO			/
Mean width	-		/	UIO OK	- \	000	7		/
wetted (m)	1/	/			/			1/	
Mean	/		/	/				/	
bankfull		/		/					
width (m) Mean	7			/		/	/		
bankfull				/			/		
depth(m)							VIII-10-22		
Substrate							8.00 June	ag & stev	
Bedrock	Boulder	Cobble	Gravel	Sand		Silt	Clay	Muck	Detritus
Br	Bo	Cobble	Gravei	Sa		Si	Clay	Mu	Detritus

		Stable	C	lightly I Instable	Moderately	Instable	Linetable	
Left Upstr	ream Banl	Stable V	31	lightly Unstable O	Moderately O	Instable	Unstable O	•
Right Upstr	ream Banl			0	0		0	
HABITAT	J. 1255 T	***************************************				T 18.0		E
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris Instream 20 Overhanging	Organi debris	Instrear		None
SHORE COVE	R	100 – 90 %	90 - 0	60% 60	- 30%	30 – 1%	Nor	1 <del>0</del>
(% stream shade		O	O	)	o	0	О	)
VEGETATION TY	YPE	Submerge	ent	Floating		Emergent	N	one
(%): Predom	inant		-			100		
	ecies			10		phrog		
MIGRATORY OBSTRUCTIONS:	Not	ne _		Seasonal	ermitent	Perman	ent	
POTENTIAL	Sna	wning		Evidence of Gro		Other		
CRITICAL HABITA	1 -	_		_				
POCYTORE	phra	gmites					-	
PORTOVE	phra	gmites						
TOUR PLOVE	phra	gmites						
COMMENTS:		V						
COMMENTS:  OSP con	nveyi	rg water	urole r	they 6 for	om drain	age diffe	hes til	remin
COMMENTS:  (SP convecte	nveyied une	reg water + land h	didoni	they & fort in o defe es, likely in hos conveying	welf laws	into o	11-1ches +	tail s
COMMENTS:  OSP convecte  wetlance  grosses	nve y i i di une.	ner than ragimite.	ditch	es, likely i	welf laws	into o	11-1ches +	Hermin Yearl S
COMMENTS:  OSP converte  wetlance grosses =	nve y i ed une.  I high px	ner than ragimite.	ditens; dite	es, likely i	welf laws	into o	11-1ches +	tails
comments:  (SP converte  wetlance grosses =  Site div  breedin  abunda	nveying de high	reg water + 19nd w ner + nor ragimite time of in	ditens ; dite	es, likely i	ng roods	into o	11-1ches +	Harls



GENERAL IN	FORMATION		Barton St.		25.6%			1704	
PROJECT #: 605410=	7-1	PROJI 401	ECT DESCRIP	TION:	DAY:	MON	TH: Y	EAR:	
Is STREAM R		-		The second			0 2		
O Yes	O No	18	Unknown						
COLLECTOR	S:	WE	ATHER COND	ITIONS:	TIME	STAR	ΓED:	TIME FINIS	
0B, A1	0	H	MID, CL		1	1.10	)	111.20	1
AIR TEMP:			WATER TEN				CONDUCTIV		
PHOTO NUMI		ESCRIPTIONS	<b>5:</b> '						
26	5+		N TO B		5 6 8 8	100		THE STATE OF	
NAME OF WA	ATERBODY:	DRAIN	IAGE SYSTEM	:	CROSSING	G #:	STATION	<b>#</b> :	
unnar					_			6-34	15
LOCATION O	1000	:				- India	1 101	9 9 1	
Made	dallan	RO							
GPS COORDI	NATES:		101.	мто	CHAINAG	E:			-
TOWNSHIP:		18086	154	MNR	DISTRICT				10-9-11-
	Ruslinch			WIN	DISTRICT	·			velick in
LAND USE A									TO A TO
SURROUNDIN	NG LAND USE	rest			RCES OF	POLLU	TION:		
KUS WELL		7 - 01		K	mott				
EXISTING ST	RUCTURE TY	PE .		William.	UNIVERSE	J. J. J	NO RES		
Bridge		Box Culver	tO On	en Foot Cul	vert O		CSP &		I/A O
2		20% 02.70.					1		
Other O Des	cribe:						Size (w x h)	m <sup>2</sup>	
SECTION TYP		PHOLOGY			. Well		MI ARE		
SECTION IDE	NIIFIER:		SECTION LOC (include on habita						
TYPE: Stre	eam / river	Channelized	Permanent	Interm	ittont	Ephem	oral ASSO	CIATED WETI	AND:
TIFE. Sue							Ciai Tio		
TOTAL SECT	O ON LENGTH	0	O (Cran	m\\ CI	JRRENT V	O FLOCIT	TY (m/s)·		
TOTAL SECTI	ION LENGTH	(m):	I'm en	25	JIKKEIVI V	LLOOII	1 (111/3).		
SUB-	Run	Poo	of	Riffle	Flat		Inside culve		Other
SECTION(S)	0	0		0	0		0	Standi	ng water
Percentage of area	/		1		2		/	9	9
Mean depth	/	/	1				/		
wetted (m)	/		/		0.0	1	1	0-	01
Mean width	1//	1		1			/	1	
wetted (m)		/			0.1	0		0.	10
Mean		/		/			//	7	
bankfull width (m)		/	/	/	0.	30	1	0	1.30
Mean		1/	/				/		
bankfull			/		0	20	//		20
depth(m) Substrate					0.	LU			)
Jupatrate					(m) N	14	Of the Case	100	Mu
Bedrock	Boulder	Cobble	Gravel	Sand	S	ilt	Clay	Muck	Detritus
Br	Во	Co	Gr	Sa		Si	CI	Mu	D

BANK STABILI	ΤΥ		***********		: <del></del>			***				
			Stable	S	lightly Ur	nstable	Moderat	ely Unsta	able	U	Instable	Э
•	stream E		Ø		0			0			0	
Right Up	stream E	Bank	Ø		0			0			0	
HABITAT										ĮMĖ.		W BI
IN-STREAM COVER	Under bank		Boulders	Cobble	Woody	Debris		ganic ebris	Vascul	ar Macropi	hytes	None
(% surface					Instrea	Instream 5 Ins		Instrea	m 80	)	15	
area):	/.				Overha		/	Overhanging				
					Overha	inging /	Overhanging					
SHORE COVER 100 - 90 % 90 - 60% 60- 30% 30 - 1% Non-					ne							
(% stream sh	aded):		0	Х	<b>Q</b>	C			0		C	)
VEGETATION	TYPE		Submerge	nt		Floating			mergen	t	1	None
(%):		100-20-20-20-20-20-20-20-20-20-20-20-20-2					-		100			
	ominant Species					_		9	asse	5		
MIGRATORY	1	None			Seas	onal			Permai	nent (	1100	+
OBSTRUCTION	IS:	_							PCIO	201 00	1110	
POTENTIAL		Spaw	ning		Evid	ence of Grour	ndwater		Other			
CRITICAL HAB	IIAI											
POTENTIAL EN	HANCE	MENT	OPPORTUNIT	IES:				1 in 11	Thu I	War II		775 10
not for perchece would	resid wroth ish vol d cul d be	entes -	the of the gradient of the cau	litch ou ral no ses s + flo	cons	nectivition(2)	mixed  (b) wh	tore	ist inel	whe	re -12e	
0( 110	) ' "		V	-	1							
Additional Note	es Apper	ided?	O No O	Yes	numbe	r of pages						

SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m):	SCALE (cm / m):
		7m	
			JECT #:
			541071
D T		MAF	PER:
MAMAGEMENT AND			15
			E OF WATERBODY:
AND IN A MARKET AND THE PROPERTY AND			SSING #:
		STA	FION #:
			11-6-34ds
		DAT	E: DD-MMM-YY
			Aug-17
		1	LEGEND
			•
		10d 6w \	depth (cm)
		J W	viuti
1	2   /	→ F	
ATURATED AT THE	MIKED FO	IK C V	Run/Glide
S Nowa lee			Pool land/Bar
VE			ne Substrate Gravel Substrate
W )	I Im	000	Cobble /Boulder
			Debris
W			Cattail <b>V</b> Submerg/Float Veg
	Accide on Ci	EV E	Emergent Vegetation /atercress
	haoldaugh Rd —		on Staining
			Eroded Bank
30, 10,000,000,000,000,000,000,000,000,00		XXX	Riprap / Other Stabilization
PROFILE: Horz. Scale	Vert. Scale	200	nstream Log/Tree Dam/Weir/Obstruction
			iparian Tree
4	415	***************************************	
9/8	11/12		Seep/Spring - Undercut Bank
THE WALL			arrier to Fish Movement Seasonal Barrier
			Fence line Culvert

PROJECT #: DROJECT DESCRIPTION: DAY: MONTH: YEAR: 1  IS STREAM REALIGNMENT required for this section:  O yes O No O Unknown  COLLECTORS: WEATHER CONDITIONS: TIME STARTED: TIME FINISHED:  AIR TEMP: WATER TEMP: CONDUCTIVITY (µS/cm):  PHOTO NUMBERS AND DESCRIPTIONS:  28 - 45  LOCATION  NAME OF WATERBODY: DRAINAGE SYSTEM: CROSSING #: STATION #:  40 - 45  LOCATION OF CROSSING:  COSTION OF CROSSING:  MITO CHAINAGE:  O TOWNSHIP: MAND DESCRIPTIONS  SURROUNDING LAND USE: SOURCES OF POLLUTION:  WESTINGSTRUCTURE TYPE  Bridge O Box CulvertO Open Foot Culvert O CSPQ NA O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SIZE (w x h) m²  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SIZE (w x h) m²  SECTION TYPE AND MORPHOLOGY  CURRENT VELOCITY (m/s):  CURRENT VELOCITY (m/s):  O O O SCORIA WATER  OTHER THEMP:  CONDUCTIVITY (m/s):  CURRENT VELOCITY (m/s):
Is STREAM REALIGNMENT required for this section:  O Yes O No O Unknown  COLLECTORS:  JE THE STATED:  WEATHER CONDITIONS:  JE CONDUCTIVITY (µS/cm):  PHOTO NUMBERS AND DESCRIPTIONS:  38 - 45  LOCATION  NAME OF WATERBODY:  DRAINAGE SYSTEM:  CROSSING #: STATION #:  LOCATION OF CROSSING:  MAND USF WATERBODY:  MAND USF WATERBODY:  MAND USF AND POLLUTION  SURROUNDING LAND USE:  Bridge O Box CulvertO Open Foot Culvert O CSP/Q N/A O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O SHORT WATER Inside culvert Other SECTION(S) O O O SHORT WATER INSIDE CULVER OF SECTION(S) O O O SHORT WATER INSIDE CULVER OF SHORT WATER INSIDE CULVER OT SHORT WATER INSIDE CULVER OF SHORT WATER INSIDE CULVER
COLLECTORS:  AR TEMP:  WATER TEMP:  WATER TEMP:  CONDUCTIVITY (µS/cm):  PHOTO NUMBERS AND DESCRIPTIONS:  38-45  LOCATION  NAME OF WATERBODY:  LOCATION OF CROSSING:  COCATION  COMMINITES:  OS 7430 4 400 8630  MTO CHAINAGE:  OS 7430 4 400 8630  MNR DISTRICT:  MNR DISTRICT:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  Other O Describe:  SECTION IDENTIFIER:  TYPE:  Stream / river  Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  OTOTAL SECTION LENGTH (m):  SUB- SUB- SUB- SUB- SUB- SICH OF OTHER TOTAL  CONDUCTIVITY (µS/cm):  TIME STARTED:  TIME STARTED:  TIME STARTED:  TIME FINISHED:  TIME STARTED:  TIME FINISHED:  CONDUCTIVITY (µS/cm):  STATION #:  CONDUCTIVE YARDON **  CONDUCTIVE YARDON **  CONDUCTIVE YARDON **  CONDUCTIVE YARDON **  CONDUCTIVE YARD
AIR TEMP:  PHOTO NUMBERS AND DESCRIPTIONS:  38-45  LOCATION  NAME OF WATERBODY:  DRAINAGE SYSTEM:  CROSSING #:  STATION #:  401-6-54 US  LOCATION OF CROSSING:  MITO CHAINAGE:  OS + 40 + 40 + 60 30  TOWNSHIP:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE:  Steam / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O  TOTAL SECTION LENGTH (m):  SUB-  SUB- SUB- SUB- SUB- SUB- SUB- SU
AIR TEMP:  PHOTO NUMBERS AND DESCRIPTIONS:  36-45  LOCATION  NAME OF WATERBODY:  DRAINAGE SYSTEM:  CROSSING #:  STATION #:  40-6-34 US  LOCATION OF CROSSING:  MODICITUATIVE LOCATION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  CSPV  N/A O  Other O Describe:  SECTION IDENTIFIER:  SECTION LOCATION:  (Include on habitat map)  TYPE:  Stream / river   Channelized   Permanent   Intermittent   Ephemeral   ASSOCIATED WETLAND:  O O O GRAPH   County   C
PHOTO NUMBERS AND DESCRIPTIONS:  38-US  LOCATION  NAME OF WATERBODY:  DRAINAGE SYSTEM:  CROSSING #:  STATION #:  LOCATION OF CROSSING:  MODICING PRODUCT  GPS COORDINATES:  OS + 130 + 140 8830  TOWNSHIP:  AND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  CSP ON N/A O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE Stream / river Channelized Permanent (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O  O  TOTAL SECTION LENGTH (m):  SUB- SECTION(S)  Run  Pool  Riffle  Flats  Inside culvert  O  O  O  Granding wath  Percentage of area  Mean depth
DRAINAGE SYSTEM: CROSSING #: STATION #: LOCATION #:
NAME OF WATERBODY:  DRAINAGE SYSTEM:  CROSSING #:  STATION #:  40 6 34 05  DRAINAGE SYSTEM:  CROSSING #:  STATION #:  40 6 34 05  DRAINAGE:  OFS COORDINATES:  OFS COORDINATES
LOCATION OF CROSSING:  Moddle Carry Road  GPS COORDINATES:  OS 743044008830  TOWNSHIP:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  CSP O  N/A O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O CURRENT VELOCITY (m/s):  SUB- SECTION(S) O O O O CHORD WATCH OO CHAND WATCH OO O CHAND WATCH OO O CHAND WATCH OO O O O CHAND WATCH OO O O O CHAND WATCH OO O O CHAND WATCH OO O O O O CHAND WATCH OO O O O O CHAND WATCH OO O O O CHAND WATCH OO O O O O O O CHAND WATCH OO O O O O O CHAND WATCH OO O O O O O O O CHAND WATCH OO O O O O O O O O O O O O O O O O O
GPS COORDINATES:  O 5 + 4 30 + 4 60 8830  TOWNSHIP:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O O CURRENT VELOCITY (m/s):  SUB- SECTION(S)  O O O Standing watch  Percentage of area  Mean depth
GPS COORDINATES:  O 5 + 4 30 + 4 60 8830  TOWNSHIP:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O O CURRENT VELOCITY (m/s):  SUB- SECTION(S)  O O O Standing watch  Percentage of area  Mean depth
TOWNSHIP:  LAND USE AND POLLUTION  SURROUNDING LAND USE:  Bridge O  Box CulvertO  Open Foot Culvert O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  TOTAL SECTION LENGTH (m):  SUB- SECTION(S)  O  O  O  O  O  O  O  O  O  O  O  O  O
SURROUNDING LAND USE:  SOURCES OF POLLUTION:  Monott  EXISTING STRUCTURE TYPE  Bridge O Box CulvertO Open Foot Culvert O CSP N/A O  Other O Describe:  Size (w x h) m²  SECTION TYPE AND MORPHOLOGY  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
EXISTING STRUCTURE TYPE  Bridge O Box CulvertO Open Foot Culvert O CSP ONA O  Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  TOTAL SECTION LENGTH (m):  SUB- SECTION(S) O O O O STANDING WATCH  Percentage of area  Mean depth
Bridge O Box CulvertO Open Foot Culvert O CSP N/A O  Other O Describe:  SECTION TYPE AND MORPHOLOGY SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O O O O O O O O O O O O O O O O O
Bridge O Box CulvertO Open Foot Culvert O CSP O N/A O  Other O Describe:  Size (w x h) m²  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river
Other O Describe:  SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND: O O O O O O O O O O O O O O O O O O O
SECTION TYPE AND MORPHOLOGY  SECTION IDENTIFIER:  SECTION LOCATION: (Include on habitat map)  TYPE: Stream / river
SECTION IDENTIFIER:  SECTION LOCATION: (include on habitat map)  TYPE: Stream / river
TYPE: Stream / river Channelized Permanent Intermittent Ephemeral ASSOCIATED WETLAND:  O O O O O O O O O O O O O O O O O O O
O O O CURRENT VELOCITY (m/s):  SUB- SECTION(S) O O O O O CHARGE COLOR WATER  Percentage of area  Mean depth
TOTAL SECTION LENGTH (m):  SUB- SECTION(S) O O O O O O O O O O O O O O O O O O O
SUB- SECTION(S) O O O O O O O O O O O O O O O O O O O
SECTION(S) O O O O Standing water  Percentage of area  Mean depth
Percentage of area (O)
of area  Mean depth
wetted (m) 0.02
Mean width
wetted (m)  Mean
bankfull
Dalikiuli
width (m) 0,50
width (m)  Mean bankfull
width (m)  Mean

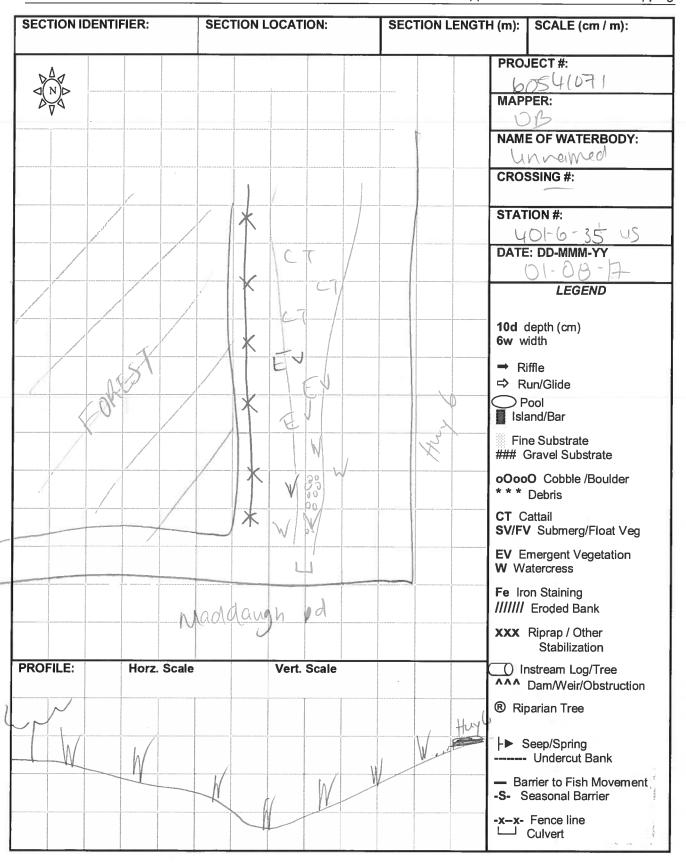
BANK STABILITY		Stable	-	lightly Uns	etable	Mode	erately Uns	table		nstable		
Left Upstream Bar Right Upstream Bar ABITAT			8		oranie.	IVIOGE	-	Nanc	U			
		<u> </u>		0			0			0		
	. Juni Dulli	Ø		0		1040T	0		0			
	TREAM Undercut banks  UVER banks  Urface real):  HORE COVER 100 – 90 % or stream shaded):  ETATION TYPE Submergent		Boulders Cobble				Organic debris			nytes	es Non	
SHORE COVE	I		90 –	90 - 60% 60- 30%			30 – 1%		Non	е		
			C		1	0		Ø		0		
VEGETATION TYPE Sub (%):		Submerge	ent		Floating			Emergent	<b>t</b>	No	one	
Predominant Species				0	ugae							
MIGRATORY	Nor	е		Seaso	onal			Permar				
OBSTRUCTIONS:									convect	huity		
POTENTIAL CRITICAL HABITA		wning		Evide	nce of Grou	ındwater	r	Other	-			
IMITING:												
NON	ANCEMEN	T OPPORTUNIT	TES:			Ngb				c) / 450		
	ANCEMEN	T OPPORTUNIT	TES:									
COMMENTS:												
COMMENTS:	001 0	f Standi	rg we	a+e/		residu	enticu	Lau	+ch (	ine		
COMMENTS:	001 0	f Standi	rg we	ater conne	in a	esid	enticu	L au	itch (	ine		
NONENTS:  Small por  NOT Asi	1001 ca h ho diain	f Standi bitat, s from	rg wo	gte/ Lonne	In a	eside d	enticus	L ai	itch (	ine		
COMMENTS:	1001 ca h ho diain	f Standi bitat, s from	rg wo	ater Lonne unde	chivit-	eside d	enticus	L ai	itch (	ine		
COMMENTS:  'SMall po	1001 ca h ho diain	f Standi bitat, s from	rg wo	ater Lonne unde	or of priv	eside d	enticus vivewa	L ali	i+ch (	ine		
COMMENTS:  'SMall po	1001 ca h ho diain	f Standi bitat, s from	rg wo	ate/ Lonne	In Convit	residu Tate d	enticus	L av	itch (	ine		
COMMENTS:  'SMall po	1001 ca h ho diain	f Standi bitat, s from	rg wo	ater Conne unde	chivit-	eside d	enticus	L ai	itch (	ine		

SECTION IDENT	TIFIER:	SECTION LOCATION:	SECTION LENGT	TH (m): SCALE (cm / m):
				PROJECT#:  605 4107 1  MAPPER:  03  NAME OF WATERBODY:  CROSSING #:
				STATION #: -40-6-340S  DATE: DD-MMM-YY  LEGEND
	DRIVEWAY			CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation
V W W 3		oddaugn Rd.	, 5 5° W	W Watercress  Fe Iron Staining  /////// Eroded Bank  XXX Riprap / Other  Stabilization
PROFILE:	Horz. Scale	Vert. Scale		Instream Log/Tree AAA Dam/Weir/Obstruction  R Riparian Tree
		000000000000000000000000000000000000000		Seep/Spring Undercut Bank Barrier to Fish Movement -S Seasonal Barrier -xx- Fence line Culvert

Ministry of Transportation
Environmental Guide for Fish and Fish Habitat Section 4: Field Investigations Appendix 4.A: Watercourse Field Record Form

PROJECT #:	7 (	PROJ	ECT DESCRIP	TION:	DAY:	MONTH:	YE	AR: 2017	
Is STREAM RE	ALIGNME	NT required for		192	1				Here
O Yes	O No	0	Unknown						
COLLECTORS	i:		ATHER COND			E STARTED:	to La	TIME FINE	
AIR TEMP:		- NO	WATER TEN			1:45	NDUCTIVIT		00
25			VVAIERIEN	iF:			NDUCTIVIT	т (µS/cm): —	
		DESCRIPTIONS	<b>:</b>						
OCATION	-18		V( = 31 = 5						
IAME OF WAT	TERBODY:	DRAIN	IAGE SYSTEM	: T	CROSSIN	IG #:	STATION #:		
		-						35 W	S
OCATION OF								3 - 0	
Madday	gh Rd	@ Huy	6						
PS COORDIN	IATES:			мто	CHAINA	GE:			
OHA10: "T									
OWNSHIP:	uslinch	\		MNF	RDISTRIC	т: _			
AND USE AN	D POLLUTI	ON		400			valo e	15, 24	
URROUNDIN						POLLUTION	l:	ra in	-ii - iii
torest,	vesder	mal		V	UnoH				
XISTING STR	UCTURE T	YPE			V=8		717 Bar 1		-0.5
Bridge C		Box Culver	tO Ope	en Foot Cu	lvert O	CSF	)X	1	VA O
							/~		
ther O Descr						s	ize (w x h) m	12	
ECTION TYPE			SECTION LOC	ATION:					
			(include on habitat		_	parameter.			
YPE: Strea	m / river	Channelized	Permanent	Interm	Intermittent Epheme		meral ASSOCIATED WETLA		LAND:
	0	0	0	0		óX			
OTAL SECTIO	N LENGTH	l (m):	()	C	JRRENT	VELOCITY (m	n/s):		
SUB-	Run	Poo	l R	Riffle	Fla	ats Ins	side culvert	_	Other
ECTION(S)	0	0		0			0	310	Otilici
Percentage		/					0		
of area	/		NO W	ATE	2 Po	RESENT			
Mean depth	/		2						
wetted (m)	/		/			7			,
flean width wetted (m)		/ /							/
Mean	1/				/		/		/
bankfull			/		/			1	
width (m) Mean		1/-			/	/		/	
bankfull		/						/	/
depth(m)	2 2100				/			1	
Substrate			STATE OF THE REAL PROPERTY.			10 11 60			
Bedrock	Boulder	Cobble	Gravel	Sand		Silt	Clay	Muck	Detrito
Br	Bo	CODDIA	Gravei	Sanu		Sill I	olay	Muck	Detritus

ANK STABILITY		Stable	S	lightly Unstable	Mode	rately Unst	table	U	nstable			
Left Upst	ream Ba	ink 6		0		O			0			
Right Upst	tream Ba	ank o		0	0 0		0					
ABITAT		F113, 111 225, 241								Name		
N-STREAM COVER (% surface area):	Underc		Cobble	Woody Debris Instream Overhanging	_	Organic debris	Instrean Overhar		nytes	None		
SHORE COV	ER	100 – 90 %	90 -	60% 60	- 30%	/	30 – 1%		Noi	ne		
(% stream shad	ded):	0			0 /		0		0			
VEGETATION T	TYPE	Submerg	ent	Floating		E	Emergent		N	one		
(%): Predor	minant				/							
S	pecies	***				<u> </u>						
IIGRATORY BSTRUCTIONS		lone		Seasonal			Perman	ent				
OTENTIAL			- AMAR						Other			
RITICAL HABIT		Spawning		Evidence of Gro	oundwater	· · · · · · · · · · · · · · · · · · ·	Other					
IMITING: OTENTIAL ENF	ANCEM	ENT OPPORTUNI			oundwater		Other			11.81		
IMITING: OTENTIAL ENH	HANCEM	ENT OPPORTUNIO	nce or									



GENERAL IN	FORMATION								
PROJECT #:	)	PROJE	CT DESCRIPT		AY:	MONTH:	YE/	AR:	
Is STREAM R	EALIGNMENT	required for				7 94 11			
O Yes	O No		Jnknown						
COLLECTOR			ATHER COND	ITIONS:	TIMI	E STARTED:		TIME FINIS	HED:
A.O,	08	C	lia/		71	945		1015	
AIR TEMP:	234		WATER TEM	P: 22.9	ie	CON	NDUCTIVIT	Y (μS/cm):	
PHOTO NUME		SCRIPTIONS				1	1 1 1 7		
LOCATION	E CHILDRE		1, 10, 20,	12.11.11.17			OF SALE		T. VINC.
NAME OF WA			AGE SYSTEM:		ROSSIN	4	TATION#: 101-6-	350/5	
LUCATION O	West of	Huy 6	South, a	Mad	dong	RL			
GPS COORDI	NATES:	102 480	8546	МТО	CHAINA	GE:			
TOWNSHIP:				MNR	DISTRIC	T: Alson			
LAND USE AN	ND POLLUTIO	N	STA	Water P	3 6	11(400		W 17 Jak	12 9 550
SURROUNDIN	IG LAND USE	Huy 65	hund	SOUR	CES OF	POLLUTION:	.,,	1 10	
forest		, 7,	, , ,	H	ing (	unoff			
=>10=1110 0=1					J				
EXISTING ST								o the t	
Bridge	0	Box Culvert	О Оре	en Foot Culv	rert O	CSP	<u> </u>	N	I/A O
Other O Desc	crihe:					Siz	e (w x h) m	2	
SECTION TYP	1 000	PHOLOGY		1		411144	e (w x II) III	RUSTON.	7 3 4 7
SECTION IDE	NTIFIER:		SECTION LOC (include on habitat			_			
TYPE: Stre	am / river C	Channelized	Permanent	Intermi	ttent	Ephemeral	ASSOCIA	ATED WETL	AND:
	0	0	0	100		0			
TOTAL SECTI					RRENT \	/ELOCITY (m/	s):		
TOTAL OLOT	ON ELITOTIN	100							
SUB-	Run	Poo	R	tiffle	Fla	ts Insi	de culvert		Other
SECTION(S)	0	0		0	O		0	Standi	y later
Percentage of area								1001.	ng water
Mean depth	V 1977 19								
wetted (m)								0.0	,4
Mean width		12.00			/			14.	
wetted (m)								14	
Mean	le le							110	
bankfull width (m)								1.7	
Mean		HELL						1 1	,
bankfull								0.65	
depth(m) Substrate								5; 59	5.6
	/				-				457.
Bedrock	Boulder	Cobble	Gravel	Sand	5	Silt C	lay	Muck	Detritus
Br	Во	Co	Gr	Sa			CI	Mu	D

BANK STABILITY							16,981			
1 -64 114	.am D-	Stable			Mo	derately Uns	stable	Unstable		
Left Upstre		, Q		0		0		0		
Right Upstream Bank		ink Ø		0	- 1/	0		0		
IN-STREAM Undercut banks (% surface area):			Cobble	Woody Debris Instream Overhanging		Organic debris	Instrea	ar Macrophytes m 76%	None	
SHORE COVER	- 1	100 – 90 %	90 –	60% 6	0- 30%		30 – 1%	No	one	
(% stream shade	d):	0	C		Ø		0		0	
VEGETATION TY	PE	Submerge	ent	Floating		1	Emergent	L	None	
(%):	nant	algae 3	64			Catlai	15	65%		
	cies	J				phrag	Mides			
MIGRATORY OBSTRUCTIONS:	N	lone		Seasonal		Permanent Cutto		ails quites		
POTENTIAL	S	ipawning		Evidence of Gro	oundwa	ater	Other			
CRITICAL HABITA' LIMITING:	T						_			
Remare ph								7.		
Standing Sections Cattails	of wakin	rainage Shater obserthe Si	all when we have beet in	est of the in the are chel usnitable	Lell sed fi	ad so obling the he	eth ed hragh bitet	of tradde sevale. Hes ad	augh P	
Addison None	-	1-42 0 1 - 0	) V	number of pages						

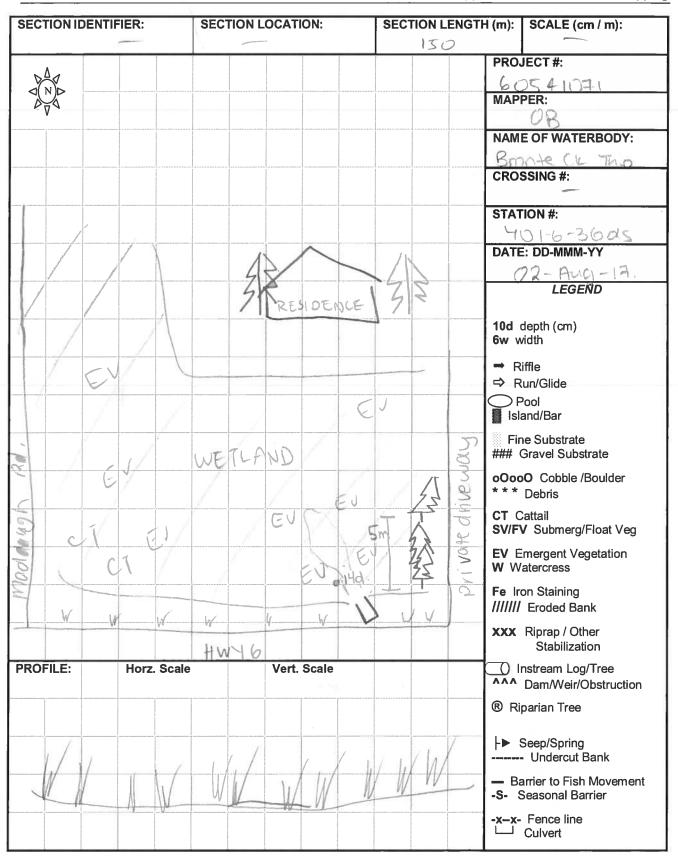
SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m):	SCALE (cm / m):
	W. E.	PRO	JECT#:
ØN D	EVEY V	MAP	41071 PER:
7	CICI	A.	The second second second
	X by W	(4)	E OF WATERBODY:
		CRO	SSING #:
Wall		STA <sup>-</sup>	TION #:
			21-6-350/5 E: DD-MMM-YY
	W W DV	* I	
			1-08-17 LEGEND
		104	depth (cm)
m	1 50	6w v	vidth
87	3 3	→ R	
/(		OF	tun/Glide Pool
	V EVEL V		and/Bar
	EVELV		ne Substrate Gravel Substrate
	ELLY	0000	O Cobble /Boulder Debris
	GIT		Cattail V Submerg/Float Veg
	E CTC+	EV E	mergent Vegetation atercress
	EUL		on Staining Eroded Bank
= 6	EHILW	xxx	Riprap / Other Stabilization
ROFILE: Horz. Scale	Vert. Scale	^^^	nstream Log/Tree Dam/Weir/Obstruction
	MALC	® Ri	parian Tree
Ve Ve	W W X	<u></u> <b>I-▶</b>	Seep/Spring - Undercut Bank
	X Y X		arrier to Fish Movement Seasonal Barrier
	H	-xx-	Fence line Culvert

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Environmental Guide for Fish and Fish Habitat

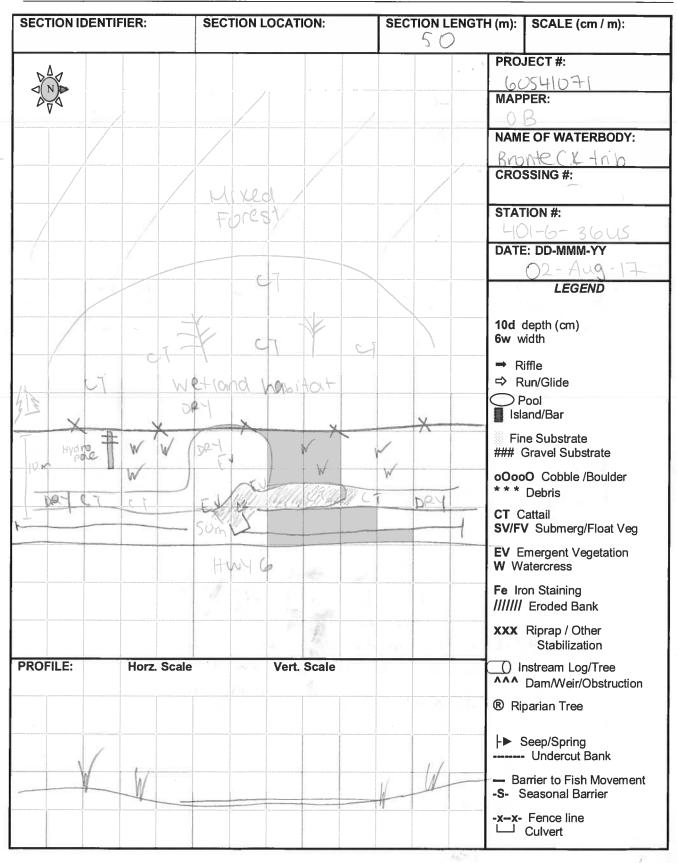
GENERAL IN	FORMATION			W. J. M.					472 Libit
PROJECT #:	11	PROJ 40	ECT DESCRIPT	TION:	DAY: 02	MONTH 0B	: Y	EAR: 2017	
- Advance	EALIGNMENT	required for	this section:			The Train			
O Yes	O No	38	Unknown						
COLLECTOR			ATHER COND		TIM	E STARTE	D:	TIME FINIS	HED:
OB, AC		C	lear, nu			13'.00		13.30	)
AIR TEMP:	28		WATER TEM	18.2		C	ONDUCTIV 1355	ITY (μS/cm):	
PHOTO NUME	BERS AND DE	SCRIPTIONS	<b>5</b> :	W. S. C.		•			
LOCATION	AND VEVI		Television Alexander	1 541	1 1 1 P	ALEXAN	7.3 T X	-11-14-7	1672.6
NAME OF WA	TERBODY:	DRAIN	AGE SYSTEM	:	CROSSIN	G #:	STATION #	<b>#</b> :	
BronteC	reek trib	B	ron te				401-6	5-360	S
LOCATION O									
Huy 6	S of M	10ada u	gu Rd						
GPS COORDI	NATES:	an att l		MT	O CHAINA	GE:	per I		
TOWNSHIP:	Hamilto			MN	R DISTRIC	T:		17	- 7
	ND POLLUTION		His and the					No Rh	SE 25-16-5
	IG LAND USE:			sol	URCES OF	POLLUTIO	N:	- 100	
roadway	residen	hol, we	utland	65	runot	F			
					100000	100			
•	RUCTURE TYP			6 10 201					ETO BE
Bridge	0	Box Culver	tO Opi	en Foot Cı	ulvert O	CS	SP 🔊	N	/A O
Other O Des	oribo:					1	Size (w x h)	2	
	E AND MORP	HOLOGY	121 50	S 50 5	Via.	-	Size (W X II)	m Particolar	
SECTION IDE			SECTION LOC						
	_		(include on habitat	tmap) 🥌					
TYPE: Stre	am / river C	hannelized	Permanent	Inten	mittent	Ephemera	ASSO	CIATED WETL	AND:
	0	0	ď		Ø.	0			
TOTAL SECTI	ON LENGTH (	m): 150				/ELOCITY	(m/s):		AND ROLL
SUB-	Run	Pod		Riffle	Fla	ts I	nside culve	ert (	Other
SECTION(S)	0	0		0	C		0	Stan	dira
Percentage		1							)
of area		/			1 20	7	1	100	Charles .
Mean depth wetted (m)			/		de	4		0.1/	1
	-			/	- 6	7		0.15	<del>-</del>
Mean width wetted (m)		/		/			/	0.4	0
Mean		/		/			/	12.0	
bankfull			/				/		FOUTE
width (m) Mean			1-/		-		-/-	HAND	to the
bankfull							/		
depth(m)				/		L			
Substrate				1				100	MU
Bedrock	Boulder	Cobble	Gravel	Sand		Silt	Clay	Muck	Detritus
Br	Во	Co	Gr	Sa		Si	CI	Mu	D

	TY		Stable		lightly Uns	stable	Moderat	elv l Inc	table	1 lr	nstable	9	
Left Up	ostream B	ank	Otable Ø		O			O			O		
Right Upstream Bank		ank	ô⁄		0			0		0			
ABITAT	Hali	I Jan	4			Z Linguistic	- 1 × × ×						
IN-STREAM Undercut banks (% surface area):			Boulders	Cobble	Instream	Woody Debris Instream Overhanging		ganic ebris	Instrean	m 50		Non	
SHORE CO		1	00 – 90 % O	90 –	60%	60- 3	30%		30 – 1% O		No		
VEGETATION (%):	N TYPE		Submerge			Floating		E /	mergent			lone	
	lominant Species		_		•	Milyanopus.		Ph	ray		-		
MIGRATORY DBSTRUCTION	1	None			Seaso		im iten	1	Perman		0-1		
CRITICAL HAB LIMITING: POTENTIAL EN		45NT				with traces against					and the same of th		
	MIANCEN	IENI	OPPORTUNIT	TES:								1	
	MIANGEN	IENI	OPPORTUNIT	IES:						1 61 31		1	
	WIANGEN	/IENI	OPPORTUNIT	IES:				nua y				4	
	MANGEN	/IENI	OPPORTUNIT	IES:									
	MIANCEN	/IENI	OPPORTUNIT	IES:						1 41 0			
						in termina	entry						
					ign R	intermet.d +10	ently wing n, no f	thro low,	ugh L	we-1 larg	al		
Bronte O - Ma	reex.	trip.	S OF I	roddau tine of	gn R inves	d +10 stigator	wing n, no f	thro 10w,	ugh L	ve-1 (are	ol		
Bronte C - Ma 1241 ag	neek-	trip W	S OF A Outer @ .	roddau time of wons	@ ~	d flostigator	wing , no f						
phrag	neek-	trip W	S OF A Outer @ .	roddau time of wons	@ ~	d flostigator	wing , no f						
Bronte C - Ma 1241ag	neek-	trip W	S OF I	roddau time of wons	@ ~	d flostigator	wing , no f						
Bronte C - Ma phrag	neek-	trip W	S OF A Outer @ .	roddau time of wons	@ ~	d flostigator	wing , no f						



GENERAL I	NFORMATION	V	25 (A) F (11)			7-174 (00)	
PROJECT #			ECT DESCRIPT	TON:	AY: MON		<b>AR:</b> 2017
-	CONTRACTOR OF THE PARTY OF THE	IT required for	this section:				
O Yes	O No	0	Unknown				
COLLECTO			eather cond		TIME STAR		TIME FINISHED:
AIR TEMP:	23		WATER TEM			CONDUCTIVIT	
	BERS AND D	ESCRIPTIONS	<b>3:</b>			( pics under	36 ds )
LOCATION	001			B 118	AUTOR DO IN	HE CHIEF IN	La sike ja wili
	ATERBODY:	DRAIN	IAGE SYSTEM:	: С	ROSSING #:	STATION #:	
Bromte Cree	K Tributa	ry Br	one cree	K		401-6	0-36 US
	OF CROSSING						
Huy 6	south	n of A	radotem	gh R	ead.		
GPS COORI	DINATES: 05	74460 48	08516	MTO	CHAINAGE:		
TOWNSHIP:	slinch			MNR	DISTRICT:	Alexander .	A sal
LAND USE	AND POLLUTI		YY SENT		39 87 X 1900		
SURROUND	ING LAND US	E:	1.101.	SOUR	CES OF POLLU	TION:	112.1
Forest	- NET /an	a, road	coug	RI	inutt, ov	erland f	-10W
EXISTING S	TRUCTURE T	YPE		TAX DESCRIPTION		1000	
Bridge		Box Culver	tO One	en Foot Culv	vert O	CSP X	N/A O
2.1.03		30,700,701	.0 0			1	
Other O De	escribe:					Size (w x h) n	12
	PE AND MOR	PHOLOGY	252510111 00	ATION			
SECTION ID	ENTIFIER:		SECTION LOC (include on habitat				
TYPE: Str	eam / river	Channelized	Permanent	Intermi	tent Ephem	eral ASSOC	ATED WETLAND:
	0	0	0	100	0		
TOTAL SEC	TION LENGTH	1 (m): 50		cu	RRENT VELOCI	TY (m/s):	
SUB-	Run	Pod	ol R	Riffle	Flats	Inside culvert	
SECTION(S	) 0	0		0	0	0	Standing
Percentage of area					5	/	95
Mean depth wetted (m)	/				0.03	/	0.03
Mean width	1/	1/			010		0.40
Mean				7	0.10		0.10
bankfull width (m)			///		0.6	7	0.0
Mean			/				
bankfull depth(m)					0.7		0.7
Substrate			and an end		100 Mu	8000	1
Bedrock Br	Boulder Bo	Cobble	Gravel Gr	Sand Sa	Silt	Clay	Muck Mu

Stable Slightly Unstable Moderately Unstable  Left Upstream Bank Right Upstream Bank O O O  HABITAT  IN-STREAM Undercut banks (% surface area):  SHORE COVER (% stream shaded): O O O O O O O O O O O O O O O O O O O	0
Right Upstream Bank  IN-STREAM Undercut banks (% surface area):  SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY OBSTRUCTIONS:  O O O O O O O O O O O O O O O O O O O	O None O
HABITAT  IN-STREAM Undercut banks (% surface area):  SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY OBSTRUCTIONS:  INSTRUMENT Cobble Woody Debris Organic debris  Overhanging Overhanging  Overhanging Overhanging  Overhanging Overhanging  Floating Emergent  Overhanging Overhanging  Ov	None O
COVER (% surface area):  SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY OBSTRICTIONS:  Instream  Overhanging  Overhanging  Floating  Emergent  Cod Jack  Permanent  Permanent	None O
(% surface area):  SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY OBSTRICTIONS:  Instream  Overhanging  Overhanging  Floating  Emergent  Cod Idia S  Permanent  Permanent	None O
SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY OBSTRUCTIONS:  Overhanging Ov	None O
(% stream shaded):  VEGETATION TYPE Submergent Floating Emergent (%):  Predominant Species  MIGRATORY None  DBSTRICTIONS:  O O O O O O O O O O O O O O O O O O O	0
VEGETATION TYPE Submergent Floating Emergent (%):  Predominant Species  MIGRATORY None  DBSTRUCTIONS:  Permanent  Submergent Floating Emergent  CA4 - IA I IS  DM CAA  Permanent	
(%):  Predominant Species  MIGRATORY  None  Permanent  Permanent	None
Predominant Species  MIGRATORY None  Seasonal  Permanent	
Species OMIGRATORY None Seasonal Permanent	-
OBSTRUCTIONS:	
intrimittent	
OTENTIAL CO.	
POTENTIAL Spawning Evidence of Groundwater Other CRITICAL HABITAT	
LIMITING:	
OTENTIAL ENHANCEMENT OPPORTUNITIES:	
	1)
COMMENTS:	11 1 14
tributary to Bronte Creek	
contributing drawage ditches running N/S adjacent to	Huy 6
contributing netland, no connection at time of investigation	1
very little from an mouth of willest due to elevation charge	Je 1
differes standing water	
· dense aquatic regetation (phrag, cort tails)	oring
· dense aquatic regetation (phray, contractivity to fish to	TEC Bronte
+ frons snails oper ed.	
indiffect fish habitat contributing flur/nutrients to Bronte PK @	

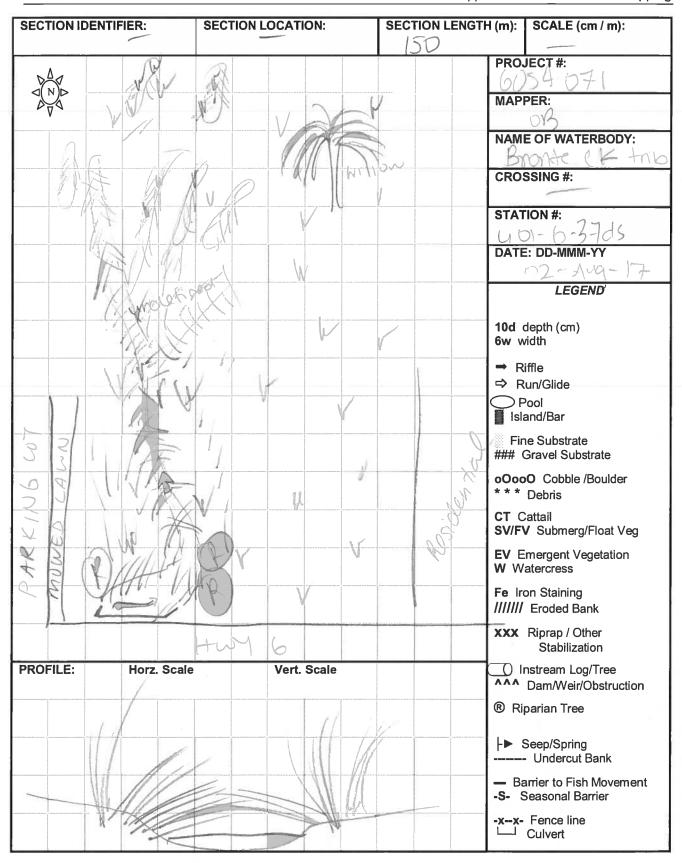


Ministry of Transportation
Environmental Guide for Fish and Fish Habitat

Section 4: Field Investigations Appendix 4.A: Watercourse Field Record Form

GENERAL IN	FORMATION			NE SEL	10.73				(西州下河
PROJECT #:			ECT DESCRIPT	TION:	DAY:	MONT		EAR: 2017	
	EALIGNMENT	THE PERSON NAMED IN COLUMN	Address of the last of the las			4			
O Yes	O No	)0(	Unknown						
COLLECTOR	S:		ATHER COND	ITIONS:	TIN	IE STARTI		TIME FINIS	
0B, AQ		H	amola	23		13.41		14:0	05
AIR TEMP:	7		WATER TEM	18.7	-		CONDUCTIV	1TY (µS/cm):	
	BERS AND DE	SCRIPTIONS	<b>5</b> :	, ,		•			
LOCATION	64				7	7 7 7 7 7			
NAME OF WA	TERBODY:	DRAIN	AGE SYSTEM:	: (	CROSSII	NG #:	STATION #	<b>#</b> :	
	er tri	n B	monte					0-37 de	
	F CROSSING:						1 101	0 100	
Huy 6	0/ MOI	riston							
GPS COORDI	NATES:	810828		МТО	CHAINA	\GE:			
TOWNSHIP:	Quel Anni	ston		MNR	DISTRIC	CT:			
LAND USE AN	ND POLLUTIO		70.000	er jan		ALC: U	1 3 5 1 2 2		0.08 27.15
	NG LAND USE			SOU	RCES O	F POLLUT	ION:		an Tenural
Rocol	Meade	SW		Pu	worth	MEN	land f	10W	
	RUCTURE TYP		KIN IN	KO	10 10	1 0001	1011011		
Bridge		Box Culver	to Ope	en Foot Cul	vert O	(	CSP O	N	/A O
Other O Des	oriha.						0: / 13	_2	
	PE AND MORP	HOLOGY					Size (w x h)	m	1000
SECTION IDE			SECTION LOC (include on habitat			-			
TYPE: Stre	am / river C	hannelized	Permanent	Interm	ittent	Epheme	ral ASSO	CIATED WETI	AND:
	X	0	ò	>		0		-	
TOTAL SECTI	ON LENGTH (			CL	JRRENT	VELOCITY	/ (m/s):		
		130							
SUB- SECTION(S)	Run	Poo		Riffle		ats	Inside culve	ort	Other
Percentage	0	0		0		0	0		
of area		/			10	)		1	
Mean depth wetted (m)	1/				0.	.15		/	
Mean width	1/				0	0.5		/	
wetted (m)		/		1	0,	32		/	
Mean bankfull	- 11	/		/	0	5	/		7
width (m) Mean		//	/		7	92	/		/
bankfull depth(m)		4			0.	50		/	
Substrate				1	905	059		1	
Bedrock	Boulder	Cobble	Gravel	Sand		Silt	Clay	Muck	Detritus
Br	Во	Co	Gr	Sa		Si	CI	Mu	D

BANK STABILI	ΓY		3 - 2 - X - X - X - X - X - X - X - X - X		0 0 0							
			Stable	S	Slightly Un	stable	Mod	erately Un	stable	L	Instable	9
Left Up	stream B	lank	XQ		0			0			0	
Right Up	stream B	lank	)Ø		0	2		<b>6</b> 0			0	
HABITAT			THE OWNER					dural to			iy or.	
IN-STREAM COVER	Under		Boulders	Cobble	Woody	Debris		Organic	Vascul	ar Macrop	hytes	None
(% surface	bank	S			Instrean	n		debris	Instrea	m		
area):				_	- IIISti Cari				illoti ou			
					Overhar	nging	-		Overha	nging	0	
			00 – 90 %	00	60%	60	30%		30 – 1%		Nói	
SHORE CO			00 - 90 %									
<u> </u>	·····		Submerge		<u> </u>	Floating	0	<u> </u>	0		0	
VEGETATION (%):	TYPE		Submerge			rivating			Emergen	•	N	one
	ominant		_			garden.		411	doc		_	
	Species							1 911	1545			
MIGRATORY		None			Seaso	onal			Perma	nent		
OBSTRUCTION	15:				ľ	niterm	ifte	nt			<u> </u>	
POTENTIAL	:	Spaw	ning		Evide	nce of Grou	undwate	ır	Other			
CRITICAL HAB	ITAT					- Line			1		Partie on	
LIMITING: POTENTIAL EN					A. Carlotte					10000	A-7.5-	- Carlotte 1
moder	ate omes	+ 17 S	tream	lows ud i	11/10 1 m	ugh read o	MLO	slow	, ana	inner Inn	ougi	^
· water	drie	25	04 0	70	m d/	's, be	,00	ming	iso	late	1	· mula
yours water pools into	, 91	95	5		<i>1</i> 04	Labor be	we+	-5116	54 10	te;	C(12)	I Pri IC
' poten	Hall	7 8	Barovon	tish v	10 p +0	at wh	en i	nigh f	100	, con	mbu	me and
Additional Note	es Appen	ded?	O No O	Yes	number	of pages _						
bree	dina	) bi	rd hak	itat	(nes	+ 065	erce	ol)				



## **Ministry of Transportation**

Environmental Guide for Fish and Fish Habitat

Section 4: Field Investigations

Appendix 4.A: Watercourse Field Record Form GENERAL INFORMATION PROJECT #: PROJECT DESCRIPTION: DAY: MONTH: YEAR: 1017541071 401-6 Is STREAM REALIGNMENT required for this section: Unknown O No **COLLECTORS: WEATHER CONDITIONS:** TIME STARTED: TIME FINISHED: earihumid 10,00 WATER TEMP: AIR TEMP: CONDUCTIVITY (µS/cm): 24 15 764 PHOTO NUMBERS AND DESCRIPTIONS: NAME OF WATERBODY: **DRAINAGE SYSTEM:** STATION #: CROSSING #: Bronte Creek +116 401-6-37-US LOCATION OF CROSSING: Huy 6 in Moinston GPS COORDINATES: MTO CHAINAGE: TOWNSHIP: MNR DISTRICT: MISTON LAND USE AND POLLUTION SURROUNDING LAND USE: SOURCES OF POLLUTION: road, resident al Runott **EXISTING STRUCTURE TYPE** Bridge O Box Culvert @ Open Foot Culvert O CSP O N/A O Other O Describe: Size (w x h) m2 SECTION TYPE AND MORPHOLOGY SECTION IDENTIFIER: SECTION LOCATION: (include on habitat map) ASSOCIATED WETLAND: TYPE: Stream / river Channelized Permanent Intermittent **Ephemeral** 0 0 0 **CURRENT VELOCITY (m/s): TOTAL SECTION LENGTH (m):** Son SUB-Run Pool Riffle **Flats** Inside culvert Other SECTION(S) 0 0 0 0 0 Percentage of area Mean depth 0.20 wetted (m) Mean width 1.7 wetted (m) Mean bankfull 3,0 width (m) Mean bankfull 0,5 depth(m) Substrate 50 Mu 15 ar Clay **Bedrock** Boulder Silt Cobble Gravel Sand Muck **Detritus** Br Co Gr Sa Si CI Mu D

	Stable	SI	ightly Unstable	Moderately Uns	stable	Unstable	
Left Upstream E		- Ci	O	O	, abio	0	<u> </u>
Right Upstream E			0	0		0	
HABITAT			HOW I AM CHIEF IN			AVE A N	why A ga
IN-STREAM Under COVER bank (% surface area):		Cobble	Instream  (fence) Overhanging	Organic debris	Vascular Mad	)5	None
SHORE COVER	100 – 90 %	90 – (		30%	30 – 1%	Nor	
(% stream shaded):	0	0		×	0	0	
VEGETATION TYPE (%):	Submerge	I	Floating O O		Emergent and tails	N	one
Predominant	20		- 19		_	-	-
Species	60		d		50		
MIGRATORY OBSTRUCTIONS:	None			crmittent +10N	Permanent		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Grou	ndwater	Other		
					0752	rued other	end (
					621	90 16 M	uk you

> piped under community park & multiple residental backupies

SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m	):   SCALE (cm / m):
		PF	OJECT #: 0054107(
		NA NA	ME OF WATERBODY:
		CF	COSSING #:
			101-6-37US TE: DD-MMM-YY
			OZ-ANG-17 LEGEND
		6w	d depth (cm) width
De	side Hal		Run/Glide ) Pool Island/Bar
	20 m	1 59 ##	Fine Substrate # Gravel Substrate
The state of the s	moved	** ст	* Debris Cattail
* * * * *	Naw?	EV EV	/FV Submerg/Float Veg Emergent Vegetation Watercress
10.25m	V W V	Fe ////	Iron Staining  III Eroded Bank  X Riprap / Other
PROFILE: Horz. Scale	e Vert. Scale		Stabilization  Instream Log/Tree  Dam/Weir/Obstruction
\$ q s,	g	R	Riparian Tree
MANY		<u> </u>	Seep/Spring Undercut Bank Barrier to Fish Movement
	SOL	-S- -x-	Seasonal Barrier  -x- Fence line  Culvert

NO CUIVERT, ROADSIDE SWALI

**Ministry of Transportation** 

Section 4: Field Investigations

Environmental Guide for Fish and Fish Habitat

GENERAL II	NFORMATION									
PROJECT #:	H		CT DESCRIPTI	ON: [	DAY:	MON		EAR:	11 SE 1142	
	REALIGNMENT	required for	this section:							
O Yes	O No	0	Unknown							
COLLECTOR		WE	ATHER CONDIT	TIONS:	TIN	E START		TIME FINIS		
AIR TEMP:	26	-	WATER TEMP	P:				VITY (µS/cm):		
PHOTO NUM	BERS AND DE	SCRIPTIONS	:							
LOCATION	55 V W	717-111		2000		100		(Y*) 7 b	15 7 W. S. W.	
NAME OF WA	ATERBODY:	DRAIN	AGE SYSTEM:	(	CROSSIN	IG #:	STATION#			
	F CROSSING:	_		,						
2		of Les	lie Rd V	7						
GPS COORD	INATES: 781 48	09576		МТО	CHAINA	GE:				
TOWNSHIP:	HAMIL			MNR	DISTRIC	CT:			i da	
	ND POLLUTIO	N	College St.	2011	2050.01		TON A PROPERTY.	the later		
	NG LAND USE				UNOI	F POLLUT	ION:			
	, agrici		Zár szársak.	Y	(110)	201	S40 10		450	
	RUCTURE TY		0	- F4 Out			CSP O		WA ()	
Bridge	0	Box Culver		n Foot Cul	vert O		T CSP U	ı r	I/A O	
Other O Des	The second second second	100	NE-				Size (w x h)	m <sup>2</sup>	196.5	
SECTION IDE	PE AND MORE		SECTION LOCA (include on habitat n							
TYPE: Stre	eam / river (	Channelized	Permanent	Interm	ittent	Epheme	eral ASSOC	IATED WET	LAND:	
	0	0	0	0		X				
TOTAL SECT	ION LENGTH	(m):		CL	IRRENT	VELOCIT	Ý (m/s):			
SUB-	Run	Poo	l Ri	iffle	FI	ats	Inside culve	t	Other	
SECTION(S)	0	0		0	(	0	0			
Percentage of area			No	WAT	E12					
Mean depth wetted (m)										
Mean width wetted (m)	/						-			
Mean			/		/		/			
bankfull width (m)		/				/		/		
Mean bankfull		- (				1				
depth(m)										
Substrate		1	1							
Bedrock Br	Boulder Bo	Cobble	Gravel Gr	Sand Sa		Silt Si	Clay Cl	Muck Mu	Detritus D	

Environmental Guide for Fish and Fish Habitat Appendix 4.A: Watercourse Field Record Form

		Stable	SI	lightly Unstable	Modera	tely Unstable	Unstabl	е
Left Upst	ream Bar	nk O	23 2	0		0	o	
Right Upst	ream Bar	nk O		0		0	o	
HABITAT				AL MINAN				
IN-STREAM COVER (% surface area):	Undercu banks	t Boulders	Cobble	Woody Debris Instream Overhanging		ebris Instre	lar Macrophytes am anging	None
SHORE COVE		100 - 90 %	90 - 0	60% 66	0- 30%	30 – 1%	, No	ne
(% stream shad	led):	0	O	•	0/	o		<b>o</b>
VEGETATION T (%):	YPE	Submerge	nt	Floating		Emergei	nt	None
Predon	ninant pecies							
MIGRATORY OBSTRUCTIONS:	No	one		Seasonal		Perma	nent	
POTENTIAL CRITICAL HABIT	-	pawning		Evidence of Gro	oundwater	Other		
LIMITING:		NT OPPORTUNIT						70
COMMENTS:								
· no cul	vert	Ivainage	nechi-	who with, no i				
Additional Notes	Appende	ed? O No O	Yes	number of pages				

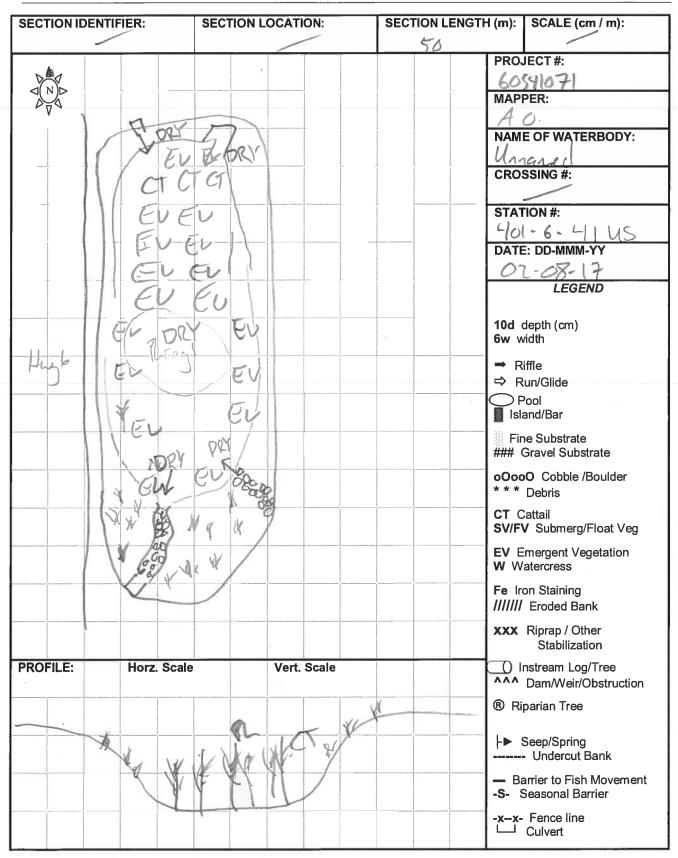
Ministry of Transportation
Environmental Guide for Fish and Fish Habitat

Section 4: Field Investigations Appendix 4.A: Watercourse Field Record Form

GENERAL IN	FORMATION				NE G				A SECTION A
PROJECT #: 6.05410	71	PROJE	CT DESCRIPT	ΓΙΟΝ:	DAY:	MONTH		AR: 017	
Is STREAM R	EALIGNMENT	required for	this section:						
O Yes	O No	181	Jnknown						
OB, AO	S:		ATHER COND		TIME	STARTE		TIME FINIS	HED:
AIR TEMP:	К		WATER TEM	IP:		C	CONDUCTIVIT	ΓΥ (μS/cm):	
PHOTO NUME	BERS AND DE	SCRIPTIONS	168-	170					
LOCATION					Švit, EA		* F. 77 P. 11		
NAME OF WA			AGE SYSTEM		CROSSING		STATION#		
Unname	1					A .	4016	2-41U	S
LOCATION OF	F CROSSING:	Cast 4	they 65	, santl	n of	Nic	holas k	laver	.Cd.
GPS COORDI	NATES:	64 4811	183	МТО	CHAINAG	E:	/		
TOWNSHIP:	auelph.		102	MNR	DISTRICT	Auro	Xq		
LAND USE AN				AN, V. U.		_u/st			
Comme					RCES OF		ON:		
Comme	(1000)			FO	· (UN	4.1			
EXISTING ST	RUCTURE TY	PE	10 Miles		and the latest	A TOP	1 to 1 to 1		
Bridge (		Box Culvert	O Ope	en Foot Cul	vert O	C	SP O	N	/A O
3-						T		FE 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Other Ø Des	cribe: 🕡	incute	THE C	alvert			Size (w x h) r	n <sup>2</sup>	
SECTION TYP		The same of the sa	OF OTION LOG	ATION	y = 100	in Karl			T. Named B
SECTION IDE	NTIFIER:		SECTION LOC (include on habitat						
TYPE: Stre	am / river	Channelized	Permanent	Interm	ittent	Ephemera	al ASSOC	IATED WETL	.AND:
	0	0	0	C		风			7.4.1
TOTAL SECTI	ON LENGTH	(m): 50		CI	JRRENT V	ELOCITY	(m/s):		
SUB- SECTION(S)	Run	Poo		Riffle O	Flat		Inside culver O	t	Other
Percentage of area	/		/		/				/
Mean depth wetted (m)			/ 1)	WAS	-0		/		/
Mean width		/	190	SIAI	en	/		,	//
wetted (m)		/		/				/	/
Mean bankfull		/	/			/			/
width (m)  Mean bankfull		/			/		/		/
depth(m) Substrate		/			(			-/	
- andii ale								1/	
Bedrock Br	Boulder Bo	Cobble	Gravel Gr	Sand Sa		ilt Si	Clay Cl	Muck Mu	Detritus D

drainey

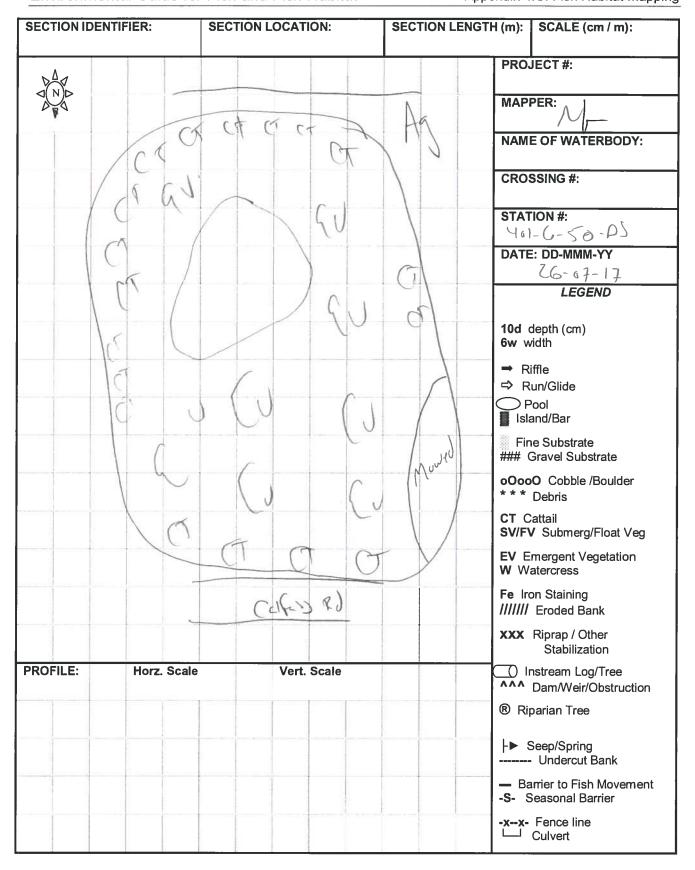
Stable Slightly Unstable Moderately Unstable Unstable Unstable Unstable Unstable O O O O O O O O O O O O O O O O O O O	BANK STABILITY				10 1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	الركال الما		
Right Upstream Bank & O O O  ABITAT  IN-STREAM COVER banks  (X surface area):  SHORE COVER (X surface area):  Overhanging Overhanging Overhanging  SHORE COVER (X surface area):  Overhanging Overhanging Emergent None (X stream shaded):  O O O O O O O O O O O O O O O O O O O	Left Huetness Doub	Stable	Slightly U	nstable	Moderately Un	stable	Unstabl	е
ASITAT  N-STREAM COVER banks  (% surface garea):  SHORE COVER (% stream shaded):  Overhanging  Emergent  None (%):  Predominant Species  IIGRATORY BSTRUCTIONS:  OTENTIAL RITICAL HABITAT  MINITING:  OTENTIAL ENHANGEMENT OPPORTUNITIES:  Remort Magnitus + galbagt  OMMENTS:  OMME		Ø	0		0		0	
None COVER banks  SHORE COVER (% surface area):  SHORE COVER (% stream shaded):  O O O O O O O O O O O O O O O O O O O	Right Upstream Bank	ø	0		0		0	
COTENTIAL Spawning Evidence of Groundwater Other RITICAL HABITAT MITING: POTENTIAL ENHANCEMENT OPPORTUNITIES: Remove phragnites + garbage  COMMENTS: Prainage feeture: Coveying water from adjacent lots the listican feature did not have water present. Choked to phragniff;  Todd cuttails, the cefre of the feature had sitted	IN-STREAM COVER (% surface area):  SHORE COVER (% stream shaded):  VEGETATION TYPE (%):  Predominant Species  MIGRATORY None	Boulders (100 – 90 % O Submergent	Cobble Woody Instrea Overha 90 – 60% O	Debris  amaging  60-30  O  Floating	Organic debris	Overham  30 – 1%  O  Emergent	r Macrophytes  n  nging  No	ne
Prainage feature covering water from adjacent lots the little of feature did not have water present. Choked to phragmite, and cuttails, the cetre of the feature had suffled	CRITICAL HABITAT LIMITING: POTENTIAL ENHANCEMENT	OPPORTUNITIES	5:	lence of Ground	water	Other		
and the second of the second o	Prainage feature feature did	not have the certain of the certain	ying wall trafer fre of aquatic i find of erf. Not	present. the feat eached: cobble suited	adjace Choked in the har The Susstrate fish	of lot side of side of the form	strations amile, affled affrech o conve	d



GENER	RAL IN	FORMATIO	V	100	MITTE			The l		A CH		SEETE		1120.50	
PROJE				PROJ	ECT DE	SCRIPTION	N:	DAY:	6	MON	гн: ) 7	Y	/EAR	201	+
Is STRE	EAM R	EALIGNMEN	IT req	quired for	this sec	tion:	(					1.3		MIZE AV	
O Yes	12 110000000	O No		Ø	Unknow	'n								167.05	edili .
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AIR TE	MP:				WATE	R TEMP:					CON	DUCTIV	/ITY (	μS/cm):	
РНОТО	NUME	BERS AND [	ESCI	RIPTIONS	s: 7	-11									
LOCAT					ren y		A s						N.		
	OF WA	TERBODY:	0	DRAIN	NAGE SY	STEM:		CROS	SING	G #:	SI	ATION:	#: 	DD D	5
$\overline{}$		F CROSSING	3:								**				
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The second second		ND POLLUTI NG LAND US			100		so	URCES	S OF	POLLU1	ION:		10		
JORRO	ONDIN	TO EARD OF	·L.				30	ONCE	<i>,</i> 01	FOLLO	1014.				
		RUCTURE T				41				- 50					
E	Bridge	0	В	Box Culver	rtO	Open F	oot C	ulvert (	0		CSP	DEC.		N	I/A O
Other C	) Des	cribe:									Siz	e (w x h)	) m <sup>2</sup>	30	cn
		E AND MOR	PHO	LOGY	SECTIO	N LOCATI	ON		T.			(Property		1. 1.	and the
SECTIO	N IDE	NIIFIEK:				n habitat map									
TYPE:	Stre	am / river	Char	nelized	Perm	anent	Inter	mittent		Epheme	eral	ASSO	CIAT	ED WETL	_AND:
		0		0	1	٥		0		0					
TOTAL	SECTI	ON LENGTH	l (m):					CURRE	NT V	ELOCIT	Y (m/s	5):			
SU		Run		Pod	ol	Riffle	е		Flat	ts	Insi	de culve	ert		Other
SECTIO	ON(S)	0		0		О			Ø			0			
Percer of a	_														
Mean								-					+		
wetted	d (m)														
Mean v															
Mea			+					-	-				-		
bank	full														
width Mea			-			6		+							
bank															
depth		1.				1		+					_		
Subst	trate														
Bedro	ck	Boulder	C	obble	Gra	- 1	Sand	1		ilt		lay	N	Muck	Detritus
Br		Во		Co	G	r	Sa		:	Si	(	CI		Mu	D

-	of Transportation Inmental Guide I		ish Habitat
BANK S	TABILITY		
		Stable	Slightly Unsta
	Left Upstream Bank	Ø	0

COVER (% surface area):  SHORE COVER (% stream shade  VEGETATION TY (%):  Predomi	Undercut banks  ER ed): YPE ninant pecies  North	Boulders  100 – 90 % O Submerger  awning	Cobble  90 Cont	Seaso	ebris  ging  60-30%  O  Floating	Er	Vascular Maci Instream Overhanging 30 – 1% Omergent Permanent Other	Noi O	None
Right Upstre HABITAT IN-STREAM COVER (% surface area):  SHORE COVER (% stream shade  VEGETATION TY (%):  Predomi Spe MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	Undercut banks  ER ed): YPE ninant pecies  North	Boulders  100 – 90 % O Submerger  awning	90 Cont	O Woody E Instream Overhan  60% Seaso Evider	Go- 30% O Floating O O O	O Organic debris	Instream Overhanging  30 – 1% O mergent Permanent	O rophytes Noi	ne
IN-STREAM COVER (% surface area):  SHORE COVEF (% stream shade  VEGETATION TY (%):  Predomi Spe  MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	banks  R ed):  YPE  ninant pecies  Non  Spa	Boulders  100 – 90 % O Submerger  awning	90 Cont	Woody E Instream Overhan 60% D Seaso	Go- 30% O Floating O O O	Organic debris	Instream Overhanging  30 – 1% O mergent Permanent	rophytes Noi O	ne
IN-STREAM COVER (% surface area):  SHORE COVER (% stream shade  VEGETATION TY (%):  Predomi Spe  MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	banks  R ed):  YPE  ninant pecies  Non  Spa	100 – 90 % O Submerger ne awning	90 Cont	Overhan 60% Seaso Evider	Go- 30% O Floating O O O	debris 3	Instream Overhanging  30 – 1% O mergent Permanent	Noi O	ne
(% stream shade  VEGETATION TY (%):  Predomi Spe  MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	ed):  YPE  ninant pecies  Not Spa	O Submerger	nt Cont	60%  Seaso  Evider	60- 30% O Floating	Er	30 – 1% Ø mergent Permanent	O	)
(% stream shade  VEGETATION TY (%):  Predomi Spe  MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	ed):  YPE  ninant pecies  Not Spa	O Submerger	nt Cont	Seaso	O Floating  () () () () () () ()	Er	mergent Permanent	O	)
VEGETATION TY (%):  Predomi Spe MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITA LIMITING: POTENTIAL ENHA	YPE  ninant pecies  Not Spa	Submerger ne awning	nt ES:	Seaso	Floating SO () o () ) nal	MIG	mergent Permanent		
(%):  Predomi Spe  MIGRATORY OBSTRUCTIONS:  POTENTIAL CRITICAL HABITA LIMITING: POTENTIAL ENHA	Non Spa	ne awning	ES:	Seaso	Dol)	MIG	Permanent	N	ione
Predomi Spe MIGRATORY OBSTRUCTIONS: POTENTIAL CRITICAL HABITAL LIMITING: POTENTIAL ENHA	No. Spa	awning NT OPPORTUNITE		Evider	nal	,		v	
MIGRATORY OBSTRUCTIONS: POTENTIAL CRITICAL HABITA LIMITING: POTENTIAL ENHA	Spa AT	awning NT OPPORTUNITE		Evider	nal	,		N.	
OBSTRUCTIONS:  POTENTIAL  CRITICAL HABITA  LIMITING:  POTENTIAL ENHA	Spa	awning NT OPPORTUNITE		Evider				la l	
CRITICAL HABITA LIMITING: POTENTIAL ENHA	ANCEMEN	NT OPPORTUNITI			nce of Groundw	ater	Other		
LIMITING: POTENTIAL ENHA	ANCEMEN			1					
POTENTIAL ENHA				1	141 131	N. A. Carrier			
Cuh				1					restor.
CUMINENTS:			,						
- Web S - bla h - green	Snall	(bis)							
-green	fre								



# **Ministry of Transportation**

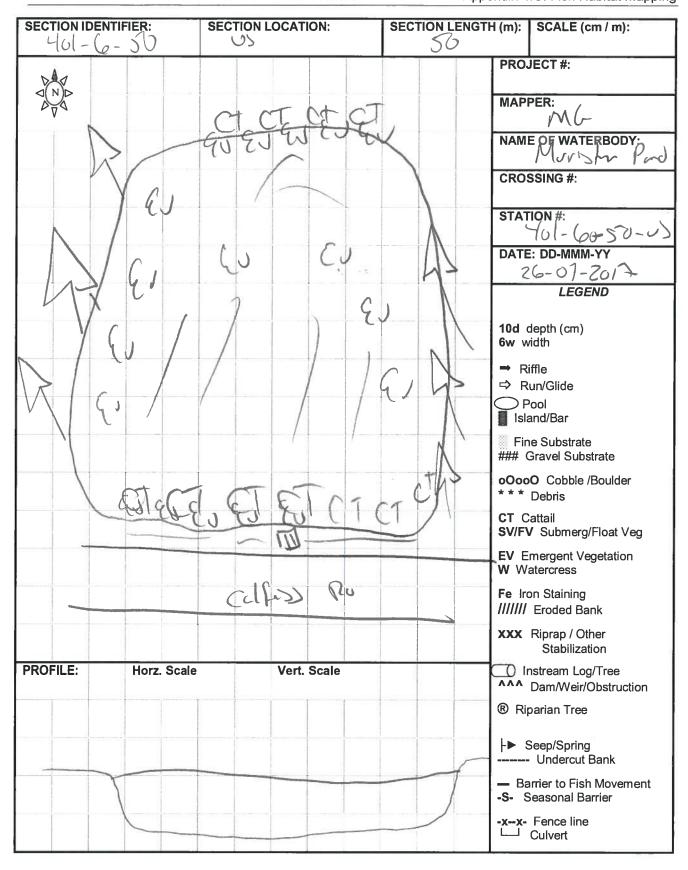
Environmental Guide for Fish and Fish Habitat

Section 4: Field Investigations Appendix 4.A: Watercourse Field Record Form



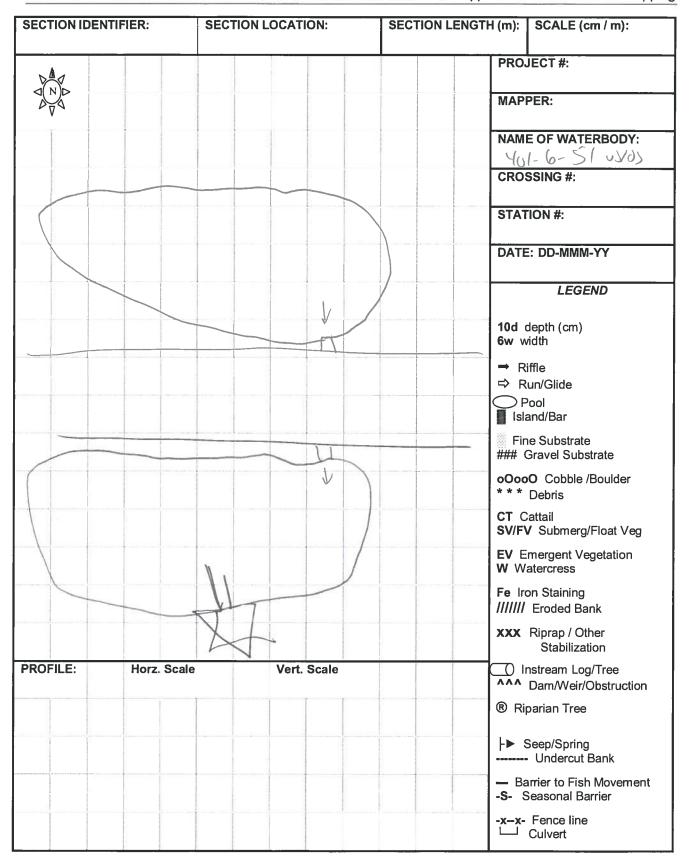
GENERAL II	VFORMATION	<u>.                                    </u>							
PROJECT #:		PROJ	ECT DESCRIP	PTION:	DAY:	MONT		CAR:	
Is STREAM I	REALIGNMEN	T required for	this section:						
O Yes	O No		Unknown						
COLLECTOR	r + Mb	W	EATHER CON	DITIONS:	TIN	IE STARTE		TIME FINIS	HED:
AIR TEMP:			WATER TE	MP:			CONDUCTIV	/ITY (µS/cm):	
PHOTO NUM	BERS AND D	ESCRIPTIONS	S-6			•		_	
LOCATION		-							
MAME OF W	ATERBODY:	DRAII	NAGE SYSTEM	Λ:	CROSSII	NG #:	STATION 401	#: -6-50-	-US
LOCATION C	F CROSSING			- 1.0		1.			
	(7)	75 ZO	Sol Colo	3711	19	481	470		
GPS COORD	INATES:				O CHAINA	NGE:			
TOWNSHIP:	Mori	sto		MN	R DISTRIC	et: G	-loh		
	ND POLLUTIONS			sou	JRCES O	F POLLUTI	ON:		
R	esident	:01							
EXISTING ST	RUCTURE TY	/PE							
Bridge	0	Box Culve	rtO O	pen Foot Cu	ılvert O		CSP O	N	/A O
Other 🌮 Des		<u> </u>	u CS	?			Size (w x h	) m² 35	c
SECTION TY	PE AND MOR	PHOLOGY	SECTION LO	CATION					
			(include on habita						
TYPE: Str	eam / river	Channelized O	Permanent		nittent O	Ephemer O	al ASSO	CIATED WETL	.AND:
TOTAL SECT	ION LENGTH		0			VELOCITY	′ (m/s):		
SUB-	Run	Po	<u>( )</u>	Riffle	FI	ats	Inside culve	a=4 /	Other
SECTION(S)	I	0		O		8	O	sit , ,	)(iiei
Percentage of area									
Mean depth wetted (m)									
Mean width									
wetted (m)									
Mean bankfull									
width (m)									
Mean									
bankfull depth(m)			*						
Substrate									
Dade de	Paulder	Callin				City	01:		D-4-11
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa		Silt Si	Clay Cl	Muck Mu	Detritus D

ANK STABILI		Stable	S	lightly Unstable	Moder	rately Unsta	able	Unstable		
Left Up	stream B	ank Ø		0		0		O		
Right Up	stream B	ank 👂		0		O		0		
IABITAT				CONCERNATION OF THE PARTY OF TH						
IN-STREAM COVER (% surface	Underd banks		Cobble	Woody Debris Instream		debris	Vascular Ma		None	
area):			10	Overhanging			Overhanging	_		
SHORE CO		100 – 90 % O	90 —		)- 30%	3	30 – 1%	No		
(% stream shaded):  VEGETATION TYPE (%):		Submerge		Floating	50		mergent	None		
Pred	ominant Species		1	Lily Da	` _	M:/	Jai 1			
MIGRATORY DBSTRUCTION		None		Seasonal			Permanent	X	ga	
POTENTIAL CRITICAL HAB		Spawning		Evidence of Gro		Other				
IMITING:	MILANCEN	IENT OPPORTUNIT	IEC.		-			10000	E. W	
			/	belun						
COMMENTS:					0.0		(FEEE)		T T	
_ \c	16	netlad								
_										



GENERAL INF	ORMATIO	V				100	21 2 3 3 7	4 1 10 10 10	No. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PROJECT #:			JECT DESCI	RIPTION:	DAY:	MON	TH: Y	YEAR: Zo I	17
Is STREAM RE	ALIGNMEN	T required fo	r this sectio	n:	15,1191-31		8 1		Ele
O Yes	O No	Ø	Unknown				es		150
COLLECTORS	: + G MI	g w	EATHER CO مرکن ()	1 -	TI	ME STAR	TED:	TIME FINIS	HED:
AIR TEMP:		•	WATER	TEMP:			CONDUCTIV	/ITY (µS/cm):	
РНОТО NUMB	ERS AND D	ESCRIPTION	s: 12,	-19					
LOCATION	100				E 5555		T EAX OF		(A) (9 (9)
NAME OF WAT	TERBODY:	DRAI	NAGE SYST	EM:	CROSSI	NG #:	STATION 401-	#: 6-51/	U) /05
LOCATION OF	CROSSING	S: 5 -	75-01	0/6	1810	261			
GPS COORDIN	NATES:		10 13		O CHAIN				
TOWNSHIP:				MN	IR DISTRI	ICT:	10		
LAND USE AN	D POLLUTI	ON			K-LVC				
SURROUNDIN	G LAND US	E:		so		DE BOTTO.	f '		
					00	11~0	HW		
EXISTING STR						Y. D. T.			A TE HOUSE
Bridge (	)	Box Culve	ertO	Open Foot C	ulvert O		CSP Ø	N	/A O
Other O Desc		NRUGU O GV					Size (w x h	) m <sup>2</sup>	
SECTION TYPE SECTION IDEN		PHOLOGY	SECTION I	LOCATION:	ie in the		THE REAL PROPERTY.		Hallen
			(include on ha						
TYPE: Strea	ım / river	Channelized	Permane	ent Inter	mittent	Ephem		CIATED WETL	.AND:
	0	0	0		0	0			
TOTAL SECTION	ON LENGTH	l (m):			CURRENI	VELOCIT	Y (m/s):		
SUB- SECTION(S)	Run	Po		Riffle O		lats Ø	Inside culve	ert (	Other
Percentage of area							0		
Mean depth									
wetted (m) Mean width							-7-00		
wetted (m)	ļ			2.110.5	-				
Mean bankfull									
width (m)					_				
Mean bankfull									
depth(m) Substrate					-			-	

Left Upstream Bank			Stable		Slightly Uns	table N	Moderately Una	Unstable		)	
Left Up	ostream	Bank	0		0		0		0		
Right Up	ostream	Bank	0		0		0			0	
ABITAT	WINE WAR	No.	MENTES,			The same			Novie Wall		
IN-STREAM COVER (% surface area):	COVER banks (% surface area):		Boulders	Cobble	Instream Overhang	70	Organic debris			hytes	None
(% stream shaded):  VEGETATION TYPE (%):			00 – 90 % O		60%	60- 30°	%	30 – 1% O		Nor	
			Submerge	<u> </u>		Floating		Emergen	it	N	one
	lominant Species										
MIGRATORY None OBSTRUCTIONS:					Seaso	nal	Permanent				
OTENTIAL RITICAL HAB	BITAT	Spaw	ning		Evider	nce of Ground	water	Other			
	NHANCE	MENT	OPPORTUNIT	IES:				en e			**************************************
	NHANCE	:MENT	OPPORTUNIT	IES:			SIE.				
					1Pand	5					
					IPan d	5					



GENERAL I	INFORMATIO	N							
PROJECT#	•	Р	ROJECT DES	SCRIPTION:	DAY: 26	MON	TH: 1	YEAR: 2017	
Is STREAM	REALIGNMEN	NT require	d for this sec	tion:		- ·		nam phréduit	
O Yes	O No	6	Ø Unknow	n					
COLLECTO	RS: MG+MD		1	conditions	S: TI	ME START	ED:	TIME FINIS	HED:
AIR TEMP:			WATE	R TEMP:			CONDUCTIV	/ITY (µS/cm):	
PHOTO NUM	BERS AND	DESCRIPT	IONS:	20-26			_		
LOCATION	ALC: N	No. Car						1 - 1	
NAME OF W	ATERBODY:	D	RAINAGE SY	STEM:	CROSS	ING #:	STATION	#: -6-52-	us/dS
LOCATION	OF CROSSING	<b>3</b> :	5705	559	481	006	3	N.	
GPS COORI	DINATES:				MTO CHAIN				
TOWNSHIP:					MNR DISTR	ICT:	mb4		
	AND POLLUTI			PER WILL					
	ING LAND US	00.1			SOURCES				
,	~e / ro					Jula	J flo	~	
EXISTING S	TRUCTURE T		CulvertO	Open Foo	t Culvert O		CSP 100°	N	/A O
Other O De	escribe:						Size (w x h	\ m <sup>2</sup>	
SECTION TY	PE AND MOR	RPHOLOG	Υ		1				
SECTION ID	ENTIFIER:			N LOCATION h habitat map)	N:				
TYPE: Str	ream / river	Channeliz	ed Perm	anent In	termittent	Epheme	eral ASSO	CIATED WETL	AND:
	o	0		o	O	O			
TOTAL SEC	TION LENGTH	H (m):			CURREN	VELOCIT	Y (m/s):		
SUB- SECTION(S	Run ) O		Pool	Riffle	F	lats	Inside culv	ert (	Other
Percentage			0	0		Q	0		200
of area Mean depth	I						- m-4-w-		
wetted (m) Mean width									***
wetted (m)	I								
Mean bankfull									
width (m) Mean									
bankfull	1								
depth(m)					_				
depth(m) Substrate									

BANK STABILIT	Υ		Stable		SI	lightly Uns	stable	Me	oderately Ur	stable		Unstable	9
Left Up:	stream Ba	ank	O		- 0	O			O	Stable	0		
Right Up:	stream Ba	ank	0			0			0			0	
HABITAT	The will	TIPE.		J. Hall	Tolk.								
IN-STREAM COVER (% surface area):	Underc banks		Boulders	Со	Instream Overhanging			debris Instr		scular Macrophytes stream verhanging		None	
SHORE COVER (% stream shaded):  VEGETATION TYPE (%):		10	00 – 90 %		90	60%	60-	- 30%		30 – 1%		No	ne
			0		Q	)		0		0		C	<u> </u>
			Submergent				Floating		4	Emergen	it	N	lone
	ominant					_							
Species										T.			8
MIGRATORY None OBSTRUCTIONS:						Seaso	Seasonal				Permanent		
POTENTIAL		Spawr	ning		Evide	Evidence of Groundwater				Other			
CRITICAL HABI	IIAI												
, ,													
- ON	11 ( nd u Swe	JS/	dr- dr- dr- dr- dr- dr-	J V	15/	~ 8		Po	~)				
Additional Note	as Annan	ded?	O No O	Yae		numher	of pages _	6	-				

SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m):	SCALE (cm / m):
D.A.		PRO	JECT #:
√N)D		MAP	PER:
		NAM	E OF WATERBODY:
	()4	CROS	SSING #: 11-6-52-W/OS
4	11 4 1		ION #:
	1	4. 1 11	:: DD-MMM-YY 2C-7-2017
	19511		LEGEND
		10d ( 6w w	depth (cm) idth
		○ F	un/Glide ool
			and/Bar e Substrate
	8		e Substrate Gravel Substrate
		0000	O Cobble /Boulder Debris
		CT C SV/FV	attail / Submerg/Float Veg
		EV E	mergent Vegetation atercress
			on Staining Eroded Bank
		xxx	Riprap / Other Stabilization
PROFILE: Horz. Sc	cale Vert. Scale		nstream Log/Tree Dam/Weir/Obstruction
		® Ri	parian Tree
			Seep/Spring Undercut Bank
			rrier to Fish Movement leasonal Barrier
		-xx-	Fence line Culvert

GENERAL IN	FORMATION								
PROJECT #:	) <del>7</del> 1		CT DESCRIPT	ION: D/	AY:	MONTH:	YEA	R:	
Is STREAM R	EALIGNMEN	IT required for	this section:			- 1			
O Yes	Ø No	0	Unknown						
COLLECTORS	S:		ATHER CONDI	TIONS:	A Committee of the comm	TARTED:		TIME FINIS	HED:
M6.0B, A	FA, ER	20	) sunny		09	.50			
AIR TEMP:			WATER TEM			CON	IDUCTIVITY		
7.0	EDC AND D	ESCRIPTIONS		13°C	,		0.0	4 ms/	CW
PHOTO NOWIE	EKS AND D	ESCRIPTIONS	•						
LOCATION	AT 1 1			Mary of	100	fe 21.3	T-10		A CONTRACTOR
NAME OF WA	TERBODY:	DRAIN	AGE SYSTEM:	CF	ROSSING #	#: S1	TATION #:	april 1	-
Unnan	red	Mi	1 Creek		ĮI.				
LOCATION OF	CROSSING	3: <i>A</i>	101-6-2	PG US					
County	D4 3L				V 7=0				
GPS COORDII	1/2/0	I, WIN	UNVUEN D	MICE	HAINAGE				
177 05	6 (6 33	481506	2	WITOC	HAINAGE	•			
TOWNSHIP:				MNR	DISTRICT:	Cual	10		
Gue		011				Guelo	V )		-
LAND USE AN				SOUR	CES OF PO	DLLUTION:			
Wetlaw	Suco	unding m	xed		d run				
Conifuo						ul runo	ee 0/5		
EXISTING STR	RUCTURE TY	YPE							
Bridge (	0	Box Culver	tO Ope	en Foot Culve	ert O	CSP	187	N	I/A O
			, ,						
Other O Desc	cribe:					Siz	e (w x h) m	2 .50 X	.50
SECTION TYP									
SECTION IDE			SECTION LOC. (include on habitat	man)	0 0	, ,		211	
50m						untu R			AND.
TYPE: Stream	am / river	Channelized	Permanent	Intermitt	tent E	phemeral	ASSOCIA	ATED WETI	LAND:
Winds I	0	0	Ø	Q		0			
TOTAL SECTI	ON LENGTH	1 (m): 50		CUF	RRENT VEL	_OCITY (m/	s):		
SUB-	Run	Pod	CONTRACTOR DESCRIPTION	liffle	Flats	Insi	de culvert		Other
SECTION(S)	0	0	1	0	0		Ó	Luct	land
Percentage									
of area	10	30		0	,			5	0
Mean depth	21	18	0.04,0.	H,	/	jen iz		- highligh	
wetted (m)	0.13	0.0							
Mean width			0.85,0	32, 3		0.00			
wetted (m)	0.3	44	avy.	336 - 1		)		1	
Mean					/				
bankfull width (m)	With	VIA OMER	ter net	Cond					
Mean	1	9110	. 10			7			
bankfull									
depth(m)	4.				/	COLUMN TO THE	1	507	507
Substrate	D>M		4.	Mo				MU	
Dadradi		7	r		6:11	1	May		
Bedrock Br	Boulder Bo	Cobble	Gravel Gr	Sand Sa	Silt		Clay Cl	Muck Mu	Detritus D

Environmental Guide for Fish and Fish Habitat

Appendix 4.A: Watercourse Field Record Form

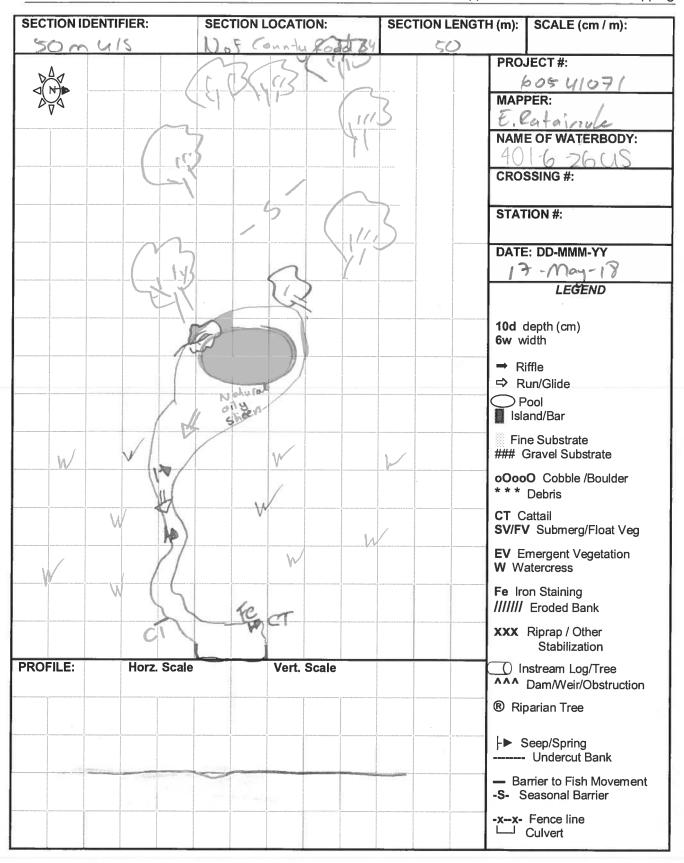
undefined	(
(uetland)	(

BANK STABILIT	Υ						5 h   N					
			Stable	SI	ightly Uns	stable	Moderate	ely Uns	table	Unstable	В	
Left Ups	stream E	Bank	O		O			0		0		
Right Ups	stream E	Bank	0		0			0		0		
HABITAT		T E										
IN-STREAM COVER (% surface area):	IN-STREAM COVER (% surface area):		Boulders	Cobble	Woody E Instream		_	anic bris	Vascular M 90 Instream 90 Overhangi	flacrophytes ing	None	
SHORE COVER		1	00 - 90 % 90 - 60%		0%	60- 30	)%		30 – 1%	No	ne	
(% stream sha	ided):		O	0		Ø			0		O	
VEGETATION (%):	TYPE		Submergen	it	Floating			E	mergent	None		
	minant Species		_					To	sha sp.			
MIGRATORY OBSTRUCTION:	S:	None			Seaso	nal V	/s (dry	()	Permanen	t		
POTENTIAL			ning 🗸			nce of Ground			Other			
CRITICAL HABI	CRITICAL HABITAT		rad raydini	Cert	Upu	STILLS! 0	il, Fe					
POTENTIAL EN												
· ground	noxer	900	relling in	nnedia	Hy ul	s of cu	wert	; ope	in both	om box		
COlvert	40	mou	Main 25	N 4(00L								
*												

### COMMENTS:

- · Central Mudminnow, Fernall gravid
- · Green Frog
- · Groundwater upuelling, evidence oil sheen (natural), iron staining 12 headwater orea. · Channel unconfined, metland extends -30 m @ roadway; undefined
- e Channel unconfined, juitland extends -30 m @ road way; undefined ary channel ~35 m u/s of culvert (apheneral flow-evidence of very bert by surface flow). Intermittently drawing from u/s well and

10- 10- 10- 10- 10- 10- 10- 10- 10- 10-		
dditional Notes Appended?	O No O Yes	number of pages



GENERAL IN	FORMATIC		MAK.	Contract of the				1 S 7 S 3					NEEDS.	
PROJECT #:	005410		PROJEC	T DESCRIPTION	ON:			DAY	17	M	ONTH:		3018	
COLLECTORS WEATHER CO	MG	OB, E	ER, F	AA.			TIM	E START	ED:	05		FINISHED		
WEATHER CO	ONDITIONS			AIR TEMP (°C	C):			SUI	RFACE					
						Calm		Ripple	ed	W	/avy	Rough		
Clear, C	( 0%	I knot I		25°C		)Ø			0			0 0		
PHOTO NUME				000		/-								
	•								,					
NAME OF WA	TERBODY:	401-(	- 14	0/5										
LOCATION OF	F STATION:	Nof	4010	N between		Hwy (	e N	+5.			3.3			
GPS COORDII		56987	, -/	C 6		MTO CHA	INAG	E:			- 6	10		
pt: (ad1	4	81117	<u>&amp;</u>		-									
TOWNSHIP:	Welling	2400	Count	v.		MNR DIST	RICT	: avel	on					
LAND USE / T	THE RESERVE AND ADDRESS OF THE PARTY OF THE							N.	1,200		The state of		PROPER	
SURROUNDIN		SE / TERR/	AIN:			SOURCES	OF F	POLLUTIO	N: 19	icul	tur ru	NOFF		
Apricul	tural										29000			
SECTION TYP			Y	/ Balls							10 To			
TYPE:	Large	Lake	Sm	all Lake		Pond			Reservoi	r		Dug-o	ut	
15.4	0	,		0		<u> </u>			0	446		0		
Intermittent	t	Run-off		Spring-fed		Not Con	necte	d	Ву-ра	SS		in-stre	am	
0		<u> X</u>		Ó	X			0		0				
LAKE / POND DIMENSIONS:		Length (m	30	.0m			Me	ean Width	(m)	5.0	OM			
WATER CHEM					The state of	No page		10.10			108	JIE A.	Continu	
WATER COLO	UR:	Col	iourless	) Y		v/brown	1	Blo	ue/green			Othe		
			0		`	<u> </u>			0			0		
SECCHI DEPT (m):	Н					pH (as req	uired	): 8.5	3					
CONDUCTIVIT	Y Surfac	ce:				1	3otto:	-	`					
(μS/cm):		145	EM 6	1cm										
DISSOLVED O					e escate		in the case		TVN.	thy.				
Depth:	0.0	0.5	1.0	1.5	2.0	2.5		3.0	3.5		4.0	4.5	5.0	
Water Temperature	^2 7	,												
(°C):	23.7				/									
Dissolved									-					
Oxygen	_													
(mg/L): Depth:	5.5	6.0	6.5	7.0	7.5	8.0		8.5	9.0		9.5	10.0	PROGRAME.	
Water	0.0	0.0	0.0	7.0	1.0	0.0		0.0	5.0		3.3	10.0		
Temperature														
(°C):				1			-							
Dissolved Oxygen													/	
(mg/L):														
Max Depth (m)	not	asses	col			воттом	SUBS	TRATE:	Mus	707	.) >	D(3	0%)	
Substrate:	110+ assessed						CI)	Muc	k (Mu)		Mari (Ma		ritus (D)	

401-6

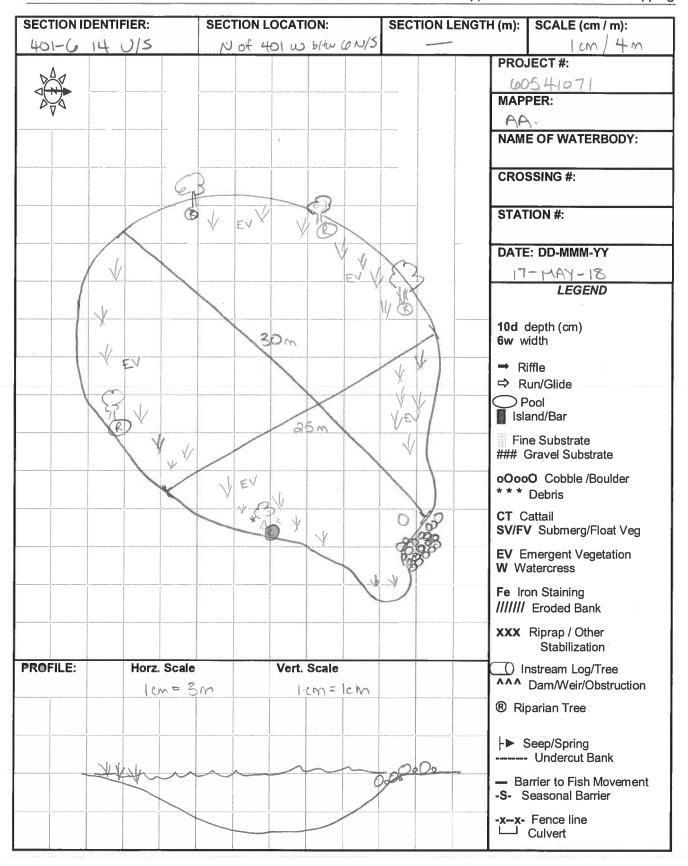
17-May-18

901-6 19 UIS Section 4: Field Investigations

## **Ministry of Transportation**

Environmental Guide for Fish and Fish Habitat

BANK STABILIT	ГҮ	12311.23										
1 =2i 11	-4	1 m m 1 i	Stable	5	Slightly Una	stable	Mod	erately Un	stable	Un	stable	
-	stream E		Ø.		0	1119		0		h.a. 146.1	0	
Right Up:	stream E	Bank	ø		0			0			0	
HABITAT												
IN-STREAM	Under		Boulders	Cobble	Woody [			Organic	Vascul	ar Macrophy	tes None	
COVER (% surface	bank	(S			Instream	76		debris	Instrea	60%		
area):			1	20%	90			107,	IIIStrea	90%		
-10				0.07.	Overhan			1014	Overha	anging		
SHORE COVER (% stream shaded):  VEGETATION TYPE (%):					10	7,				10%		
		100 – 90 %		90 –	60%	60	- 30%	diam was	30 – 1%		None	
			0	(	)		0		<b>10</b>		0	
			Submerge	nt		Floating			Emergen	t	None	
								-	39	2	60	
	ominant Species		algae				Phrash	MITCS S	SP.			
MIGRATORY	·	None		Seaso	Seasonal				nent	Alexander of		
OBSTRUCTION		10110	_		Coaso				126	1		
POTENTIAL		Spawi	nina	$\overline{}$	Evider	nce of Gro	undwate	r	Other	1 (110		
CRITICAL HABI		0 /			00	Evidence of Groundwater				Other		
LIMITING:					MON	1 6	11786	Short	1			
- fedui	turall ce vi obser frog its, i	Pa Pa vat	oble/bounds nan b nons: * - Mic er etride h bird.	dland f	for ainted	Turtus, doi	. (hai	flies.				
· Agricult	ural	di										
- plants: - Willon - Buckth - Phrasi	1010		h	conk Cu	11 dine	noisa	s aclo	litiona	1-1-	n+ 25m m. : No or :1		
Additional Notes	Annen	ded?										
Additional Notes Appended?		04( 0n)	-line p an cour	and 1	limit	rg h	ibita	ty W	nrin v	urter	uith	



N/A O

Other

**Detritus** 

PH18.3

**Ministry of Transportation** Environmental Guide fo Fish and Fish Habitat Appendix 4.A: Watercourse Field Record Form GENERAL INFORMATION PROJECT DESCRIPTION: DAY: MONTH: PROJECT #: YEAR: MOIN Hambores Creek Is STREAM REALIGNMENT required for this section: O Yes O No O Unknown COLLECTORS: **WEATHER CONDITIONS:** TIME STARTED: TIME FINISHED: 14:58 unny a Stattered Cloud 15:34 MGOB AIR TEMP: WATER TEMP: CONDUCTIVITY (µS/cm): PHOTO NUMBERS AND DESCRIPTIONS: LOCATION NAME OF WATERBODY: DRAINAGE SYSTEM: **CROSSING #:** STATION#: Horn long Crely Spead River LOCATION OF CROSSING: us / Howy John Goncle P. GPS COORDINATES: MTO CHAINAGE: 4817057 (622) 0562186 TOWNSHIP: MNR DISTRICT: Gueloh wellington County LAND USE AND POLLUTION SURROUNDING LAND USE: SOURCES OF POLLUTION: runoff Hwy, buarland flow dog park, Huy 6, decidions Grest drainage ditch overflow Declistran bridge **EXISTING STRUCTURE TYPE** Open Foot Culvert CSP O Bridge O Box Culverto Size (w x h) m2 4, 93 x 3. 1 Other O Describe: SECTION TYPE AND MORPHOLOGY SECTION IDENTIFIER: SECTION LOCATION: (include on habitat map) 50 4/5 Hanlon Park ASSOCIATED WETLAND: TYPE: Stream / river Channelized Intermittent **Ephemeral** Permanent W CURRENT VELOCITY (m/s): TOTAL SECTION LENGTH (m): 30 SUB-Pool Riffle **Flats** Inside culvert Run Siu. Cwell SECTION(S) 0 0 0 0 Percentage 50 of area 10 7.5 Mean depth 5.27 3.2 0.38 wetted (m) Mean width 8.9 4,2 215 6.19 wetted (m) Mean bankfull width (m) Mean 0.34 34 bankfull 34 depth(m) **Substrate** 5:>000 Gr)6000 Co Cobble Gravel Silt Clay **Bedrock Boulder** Sand Muck

> 51 -601. 0-30% Co -10 /

Во

Gravel -591 60 -> 401

Si

CI

Calvert (0-100/

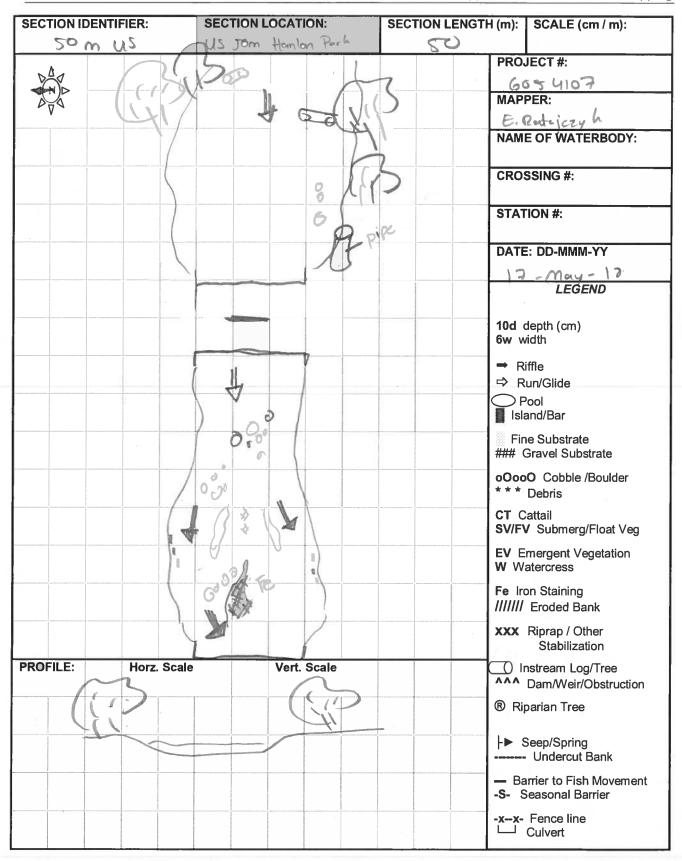
Mu

**Additional Notes Appended?** 

O No O Yes

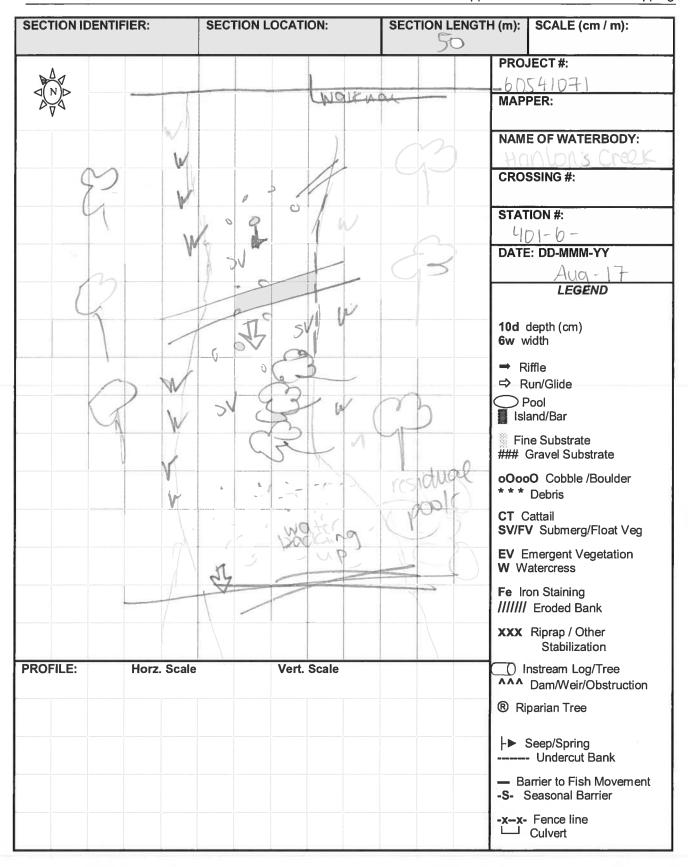
Left Ups	BANK STABILITY		Stable Sli		Moder	ately Unstable	Unstable	
Left Upstream Bank Right Upstream Bank		0		6.		0	0	
		0		8		0	0	
HABITAT	Tyl uksa		71,107	CONTRACTOR OF	NUMBER.	STATE OF THE STATE OF		
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble 50	Woody Debris Instream Overhanging		debris	lar Macrophytes None am anging	
SHORE COV	-14	100 – 90 % O	90 - 0		60- 30%	30 – 1% O	None	
VEGETATION '	TYPE	Submerge	ent	Floating	17	Emerger	nt None	
	minant Species					Parking 1	100	
MIGRATORY OBSTRUCTIONS	None S:		/	Seasonal		Perma	ment body fish scheir	
POTENTIAL CRITICAL HABIT LIMITING:	TAT Spaw	ining White such	er)	Evidence of G		Other	/	
o remove	weir,	OPPORTUNIT	1000	vidge (SP)	-under	sized		
> remove >> resize > resize	weir,		1000	vidge (SP) Ler tluy	-under 6 - bir	sized		
> remove >> resize > resize	weir,		1000	vidge (SP) Ler tluy	-under 6 - bin	sized		
comments:  - lower to  - natural  - pedis	open of so	rection =	estrict of und	of pedation	el wl	while sur	clar spawning or	
comments:  - lower to  - natural  - pe district  - cragen	open of so	rection =	estrict of under of	of pedation	el wlo	while sur		
comments:  - lower to - natural - pedising - lorgen - substant	open of so oil she are culve present be all	ection =	estrict of und sucher of culvert	of pedation berud	and will	while sur Wales	der spawning o country cocom	

number of pages



GENERAL INFORMATION											
PROJECT #:	2054107	PROJECT DE	SCRIPTION:	DAY: MO	NTH: Y	EAR:					
Is STREAM REALIGNMENT required for this section:											
O Yes O No O Unknown											
COLLECTORS: WEATHER CONDITIONS: TIME STARTED: TIME FINISHED:											
AIR TEMP:	230	WAT	ER TEMP:	5	CONDUCTIV	ITY (µS/cm):					
PHOTO NUME	BERS AND DESC	CRIPTIONS:	n Tenger	8.18	SeH	18412					
LOCATION		A THE NEXT S	and the second								
NAME OF WA	TERBODY	DRAINAGE S	1 11	CROSSING #:	STATION	p-1-05					
LOCATION OF	CROSSING:	1 . (0	2t 10	+ dat		and state in the					
255 200PP	1 70	two t	, , , ,								
GPS COORDII		18 (7009	-	TO CHAMAGE:		A second					
TOWNSHIP:	Gruel	ph	MI	NR DISTRICT:	V.	V mentalism and					
	ID POLLUTION IG LAND USE:	THE RESERVE	T SC	OURCES OF POLL	ITION.	MINISTER A MEN					
A	BLE FOREST			/	TION:	reduces cultural					
300,000	M. INIAM	A DESCRIPTION	ight til	,							
EXISTING STR	RUCTURE TYPE	Control State		M CONTRACTOR		Mark Strategy (N. Strategy					
Bridge (	Э	Box CulvertO	Open Foot C	Culver	CSP O	N/A O					
Other O Desc	ribe:		The state of the s		Size (w x h)	m <sup>2</sup>					
SECTION TYP	E AND MORPHO		ON LOCATION.		Size (w x h)	m <sup>2</sup>					
	E AND MORPHO	SECTION	ON LOCATION: on habitat map)		Vigeni (Fo)						
SECTION TYP SECTION IDEN	E AND MORPHONTIFIER:	SECTIO (Include of	nanent Inte	rmittent Epher	To participate the participate	m <sup>2</sup> CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Street	E AND MORPHONTIFIER:  M	SECTIC (Include of	manent Inte	0 0	neral ASSOC						
SECTION TYPE SECTION IDEN TYPE: Street	E AND MORPHONTIFIER:  M Sam / river Cha	SECTIC (Include of	manent Inte		neral ASSOC						
SECTION TYPE SECTION IDEN TYPE: Street TOTAL SECTION SUB-	E AND MORPHONTIFIER:  M	SECTIC (Include of	manent Inter	O COCURRENT VELOCI	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN  TYPE: Street  TOTAL SECTION  SUB- SECTION(S)	E AND MORPHONTIFIER:  m / river   Cha  ON LENGTH (m)	SECTIC (Include of annelized O	nanent Inter	O C	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Streat TOTAL SECTION SUB- SECTION(S) Percentage of area	E AND MORPHONTIFIER:  M	SECTIC (Include of	manent Inter	O COCURRENT VELOCI	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN  TYPE: Streat  TOTAL SECTION  SUB- SECTION(S)  Percentage	E AND MORPHONTIFIER:  M Chairman / river	SECTIC (Include of	nanent Inter	O COCURRENT VELOCI	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Streat TOTAL SECTION SUB- SECTION(S) Percentage of area Mean depth	E AND MORPHONTIFIER:  M	SECTIC (Include of	nanent Inter	O COCURRENT VELOCION TO COCURRENT VELOCION COCURRENT COCURRENT VELOCION COCURRENT COCU	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Streat  TOTAL SECTION SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull	E AND MORPHONTIFIER:  M Sam / river Char  ON LENGTH (m)  Run  O  15	SECTIC (Include of	Riffle O 15	O COCURRENT VELOCION Flats O 7-0	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Streat  TOTAL SECTION SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)  Mean bankfull	E AND MORPHONTIFIER:  M Sam / river Char  ON LENGTH (m)  Run  O  15	SECTIC (Include of	Riffle O 15	CURRENT VELOCI Flats O 7-0 03	neral ASSOC TY (m/s):	CIATED WETLAND:					
SECTION TYPE SECTION IDEN TYPE: Streat  TOTAL SECTION SUB- SECTION(S)  Percentage of area  Mean depth wetted (m)  Mean width wetted (m)  Mean bankfull width (m)  Mean	E AND MORPHONTIFIER:  M D S  am / river Cha  ON LENGTH (m)  Run  O  15  3.0  3.0	SECTIC (Include of	Riffle O 15 3.0	CURRENT VELOCI  Flats  O  7-0  03  14.0  4-0	neral ASSOC TY (m/s):	CIATED WETLAND:					

BANK STABILITY						TEACH.			
Left Upstream Bank		Stable		lightly Unstable	Moderately U	nstable	Unstable		
Right Upstream Bank		0		0	0		0		
HABITAT		<b>⟨Q</b> /		0	0		0		
IN-STREAM Un	dercut anks	Boulders 5	Cobble	Woody Debris Instream 20 Overhanging	Organic debris	Vascular N Instream Overhangi	Macrophytes	None 20	
SHORE COVER (% stream shaded):		100 – 90 % 90 – 6 O O			30%	30 – 1% O	None O		
VEGETATION TYPE (%):		Submergent 70		Floating	000	Emergent	None		
MIGRATORY OBSTRUCTIONS:	None			Seasonal		Permanent		Control (1)	
culvert			debn	sjan.					
Hanlon riffle no to flat is pac	PK Huls Ked into NIN	siguen siguen up , a arija a	e 35 body and 81 ent	oter cou-	of culti	ert, to	water	nr rrod	



Section 4: Field Investigations Appendix 4.A: Watercourse Field Record Form

GENERAL INFORMATION										
PROJECT #:	505 410		CT DESCRIP	TION:	PAY:	MONTH:	YEA	R: 7017	F 1 TH W	
Is STREAM RE	EALIGNMEN	NT required for	this section:	1.33		V		IP IS UP		
O Yes	O No	0	Unknown							
COLLECTORS			Summ		1					
AIR TEMP:	)		WATER TEA	νή:	1.6		CONDUCTIVITY (µS/cm):			
PHOTO NUME	BERS AND I	DESCRIPTIONS	B:				( 0			
LOCATION		AND DESCRIPTION OF			- 1000					
LOCATION NAME OF WA	TEDRODY:	DRAIN	IAGE SYSTEM	. (	ROSSING	4. 91	TATION #:		0.0	
	ns Cre		ped Riv		, coome	<i>.</i>	H6-	2-1	25	
LOCATION OF			1000					150		
12	5 04	Huy	6							
GPS COORDI	NATES:	m dls From	unde	МТО	CHAINAGE	:		-053	<b>4</b>	
TOWNSHIP:	Fulph		V	MNR	DISTRICT:			10.00		
LAND USE AN	ID POLLUT		selle (m	TO ME	trendel			A CONT		
SURROUNDIN	IG LAND US	SE:		SOUI	RCES OF P	OLLUTION:				
vellano	), trail	from do	par		dos pe	arb	Adje.	de i		
EXISTING STE	RUCTURE T	YPE	Color III				TRAIN IN		170,11	
Bridge (	0	Box Culver	rtO Op	en Foot Cul	oot Culvert O CSP O			N/	A O	
Other O Desc	cribe:				7	Siz	e (w x h) m <sup>2</sup>			
SECTION TYP		RPHOLOGY					, State of		MARKE !	
SECTION IDEI	NTIFIER:	5	SECTION LOC (include on habita							
TYPE: Stre	am / river	Channelized	Permanent	Interm	ittent E	phemeral	ASSOCIA	TED WETL	AND:	
,	6	0	80	0	0 0					
TOTAL SECT	ON LENGTI	H (m):		CL	RRENT VE	LOCITY (m/s	s):	nite.	in Ebrell	
SUB-	Run	Poe	ol	Riffle	Flats	Insi	de culvert	C	ther	
SECTION(S)	0	0		0	0		0	1		
Percentage of area	Percentage of area		1 41		) /		1	/		
Mean depth wetted (m)			/ 6,25		1		1	/		
Mean width wetted (m)	1.5 /		1 1	5	1		/	/		
Mean			1				/	1		
bankfull width (m)		/			/		1	/	AND THE STATE OF T	
Mean bankfull 0.20			1 0.00		/		/,	1		
depth(m) Substrate							1	1		
6761750 a 6761										
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Sift		Clay Cl	Muck Mu	Detritus D	
			7			T - 2 - 5 - 5 - 5				

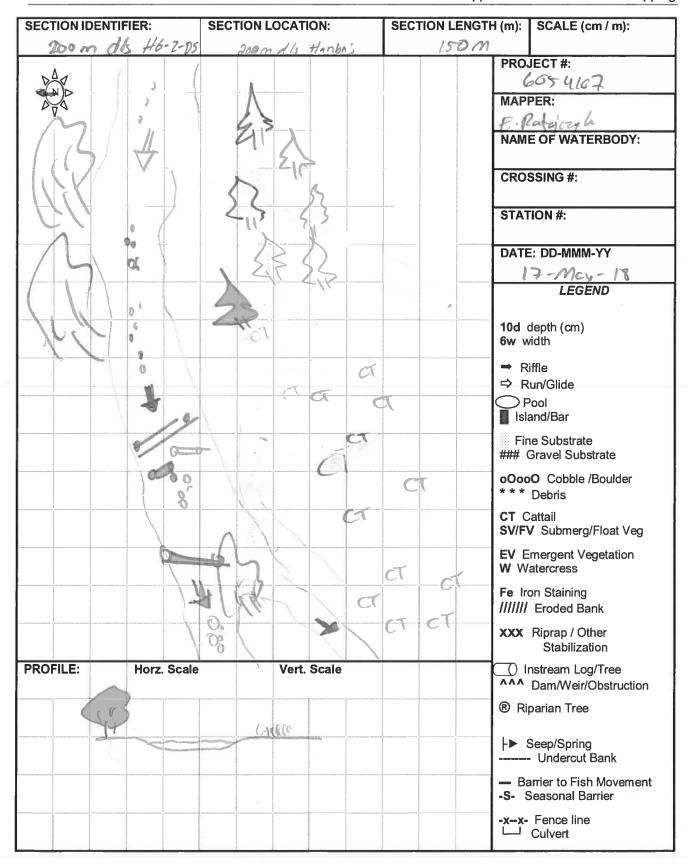
BANK STABILITY	1				71555	8 11 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
5.04		Stable	SI	ightly Unstable	Modera	tely Unstable	Uns	table
Left Upst	tream Bank	0		6		0		0
Right Ups	tream Bank	0		*6-		0		0
HABITAT		THE PARTY	100					
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Instream 3 Overhanging 7	di d	Instream Overha		es None
SHORE COVI	-11	00 – 90 % O	90 - 0		)- 30% O	30 – 1% O		None
VEGETATION T	YPE	Submerge		Floating	1	Emergent		None
Predor	ninant pecies	Lgre on roo	lo mate	speeded				30
MIGRATORY OBSTRUCTIONS	None:		/	Seasonal		Permar	nent	
POTENTIAL CRITICAL HABIT LIMITING:	Spaw	ning	/	Evidence of Gro	oundwater	Other		
-Corbiga. Scallert an scensue U	woody de	elari						
3 mann	The			nd a wette		400		I Co. Life
-) Side to	nb inp	ust (a)	ormals ci	n from ds	500 of (mid	se at	155	
-> substrail	te char	ge to se	nd pres	of N 1551				
-perman	nent co	ldw outer	twite onfl	ence of sol	e chem	ml (tr	()	
( call-	Callere	wed also						

-under ent

covered section
17.7 °C

Cond - 1.15 m5

PH - 8.73



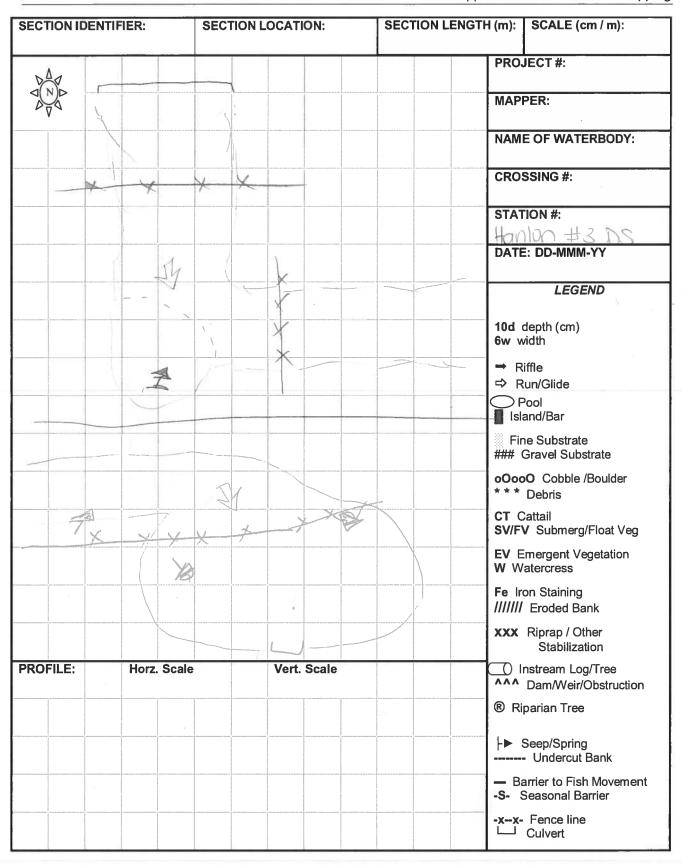
GENERAL IN	FORMATION							
PROJECT #:			CT DESCRIPTI	ON: DA	Y: MON 25	TH: YE	AR: 2018	
and the same of th	The second second second	required for the	nis section:					
O Yes	O No		nknown				THE WALL	
COLLECTORS			ATHER CONDI	1	TIME STAR		TIME FINIS	HED:
OB, ER			WATER TEMP	1 7 7 7 7 7 7 7	1 01.	CONDUCTIVIT	rv (us/om).	
AIR IEWIF.	23'		WATERSEIN	-; 		CONDUCTIVI	i τ (μο/ciii).	
PHOTO NUME	BERS AND DE	SCRIPTIONS:						
LOCATION		and total		3. 14. 224			1000	HEIRE
NAME OF WA	TERBODY:	DRAINA	AGE SYSTEM:	CR	OSSING #:	STATION#		
unname	A COLUMN TO THE PARTY OF THE PA					Hanlun	#12	DS
LOCATION OF			11000					particular (
Hanlor	1 PKW	1 6 CO	luge					2
GPS COORDII		1416736		мто с	HAINAGE:			
TOWNSHIP.		110 130		MNR D	ISTRICT:	uelph		Tractific
LAND USE AN	guelph ND POLLUTIO	N			C)	NOIDII	A COLUMN	C 72. VIII. 4
SURROUNDIN				SOURC	ES OF POLLU	ITION:	T Mary	The Land
Resident	hal			over	land f	ION		SHIT III
	RUCTURE TYF	ne.						
Bridge (		Box Culvert(	One	n Foot Culve	d O	CSP 🕱	N	/A O
- Dilage	0	DOX COIVER	у оре	TIT OUT OUTVE				7.0
Other O Desc	cribe:					Size (w x h) ı	m <sup>2</sup>	
SECTION TYP	THE RESERVE OF THE PARTY OF THE		PECTION LOC	ATION				
SECTION IDE	NIIFIEK:		SECTION LOCA					
TYPE: Stre	am / river C	Channelized	Permanent	Intermitte	ent Ephem	neral ASSOC	IATED WETL	AND:
	0	X	0	0				
TOTAL SECTI				_	RENT VELOCI	TY (m/s):		
								241
SUB- SECTION(S)	Run	Pool		iffle	Flats	Inside culver	,	Other
Percentage	0	0	7/2	0	0	0		
of area					/			
Mean depth		2		1				Marie II
wetted (m)	+/		12	AX				
Mean width wetted (m)	1	111		\/	/			
Mean			1	V	/			
bankfull width (m)				1	/	/		
Mean				7				
bankfull								
depth(m) Substrate								
Substrate								
Bedrock	Boulder	Cobble	Gravel	Sand	Silt	Clay	Muck	Detritus
Br	Во	Co	Gr	Sa	Si	CI	Mu	D

BANK STABILITY		Ctoble	0	liabile I lastable	B.4 mala	natali i laa	A-lala		والماسة مسالة	_
Left Upstrea	m Bank	Stable	5	lightly Unstable	IVIOGE	erately Uns	rapie		Unstable	=
Right Upstrea		0		0		0			0	
IABITAT	NI THE	0	Shi Hard	0		0	of the same	The state of	0	阴浸
IN-STREAM Ur	ndercut banks	Boulders	Cobble	Woody Debris Instream Overhanging		Organic debris	Vascul Instrea Overha		phytes	Non
SHORE COVER	1	00 - 90 %	90 - (	60%	60- 30%		30 – 1%		Nöi	ne
(% stream shaded		0	O		0		0		0	
VEGETATION TYP (%):	E	Submerge	nt	Floating			mergen	t	N	lone
Predomin	ant									
Spec										
MIGRATORY DBSTRUCTIONS:	None			Seasonal			Perma	nent		
POTENTIAL	Spaw	ning		Evidence of G	oundwater	<u> </u>	Other			
CRITICAL HABITAT	1 -	y		Lyidelice of G	Junuwatel		Other			
IMITING:		- Andrews								
POTENTIAL ENHAN	ICEMENT	OPPORTUNITI	ES:	A function						
POTENTIAL ENHAN	CEMENT	OPPORTUNITI	ES:							
COMMENTS:	cor r Hav	iveyanc	e ch		4					,
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SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m):	SCALE (cm / m):
			   JECT #:   541071   PER:
V	College	l luni	E OF WATERBODY:
		STAT	TION #: )  - 6 - Hanlan :
W W			LEGEND  depth (cm)
		6w v	<i>r</i> idth iffle un/Glide
3 W			and/Bar ne Substrate Gravel Substrate
V G		*** CT (	O Cobble /Boulder Debris attail / Submerg/Float Veg
W W		W W	mergent Vegetation atercress on Staining Eroded Bank
RECEILE:	Wat Oak	xxx	Riprap / Other Stabilization
PROFILE: Horz. Scale	e Vert. Scale	^^^	nstream Log/Tree Dam/Weir/Obstruction parian Tree
			Seep/Spring Undercut Bank
		-S- S	Seasonal Barrier Fence line Culvert

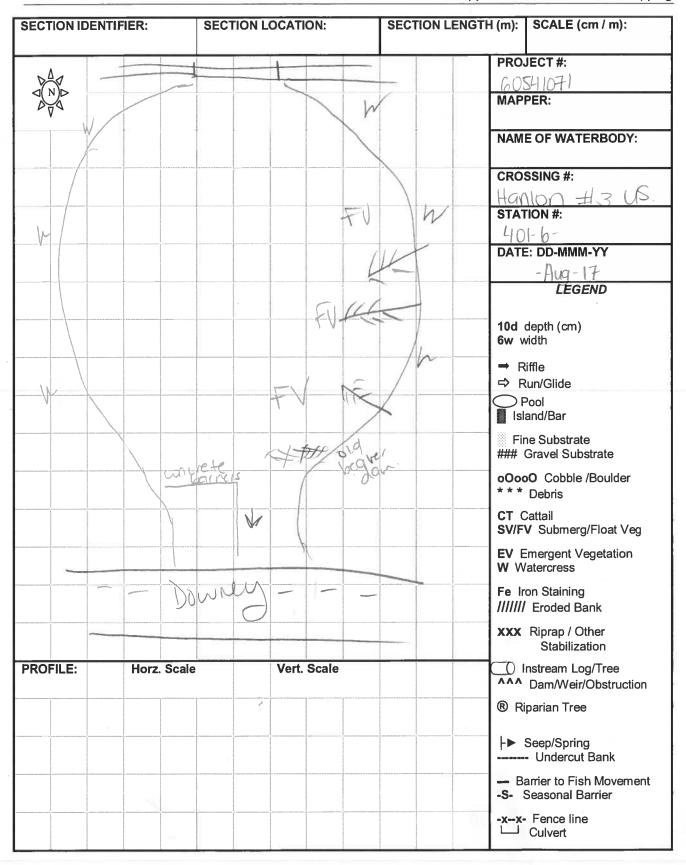
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		WATER TEMP				CONDUCTIV	ΠΤ (μο/ciii).	
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RUCTURE T	YPE	Colco	I-CV	MINUR	16 C	aurivuls	11110 00	AVELT
		tO Open	n Foot Culve	ert 💢	(	CSP O	N	/A O
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E AND MOR		SECTION LOCA			N SUPE	Size (w x h)	m <sup>2</sup>	TOTAL
E AND MOR				tent	Epheme		m <sup>2</sup>	.AND:
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BANK STABILITY		Stable	S	lightly Unstable	Modera	tely Unstable	Uns	table
Left Upstream	n Bank	0		0		0		)
Right Upstrea	n Bank	0		0		0	(	)
HABITAT	700		"STEEN OF		in the			THESE
	dercut anks	Boulders	Cobble 20	Woody Debris Instream Overhanging	) d	lebris Instre	eam \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	es None
SHORE COVER	200	00 – 90 %	90 -	60% 6	0- 30%	30 – 19	6	None
(% stream shaded)		0	C		0	0		0
VEGETATION TYPE (%):		Submerge		Floating		Emerge	nt	None
Predomina	nt	100						
Speci	es	100						
MIGRATORY OBSTRUCTIONS:	None			Seasonal		Perm	anent	
CRITICAL HABITAT LIMITING: POTENTIAL ENHANG	CEMENT	OPPORTUNIT	IES:		apwe	(1 mgs		
cyprinid s  permaner  ( visible  driven  and	choe dep	c with smells	ved sign rys) 70 m scdim	shicant go , undersi nd/s can	ound w 20d 1 151mg	voter in novote WC to	put cultert bock	inch.



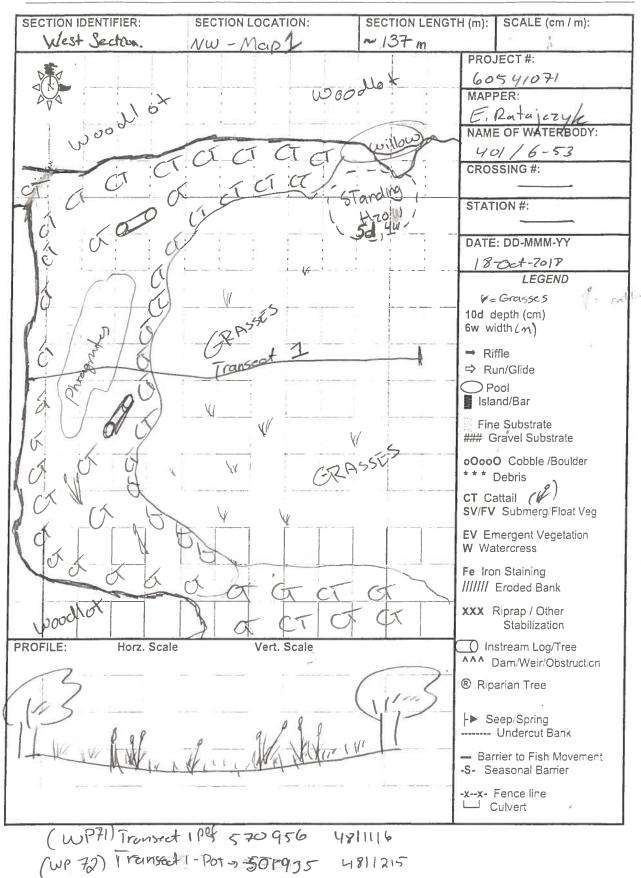
GENERAL II	NFORMATION				THE REAL PROPERTY.	NEW YEAR	CEST SAM	SEMENTY	
PROJECT #:			ECT DESCRIP	TION: I	DAY:	MONTH	: YE	AR:	No. 24 124
Is STREAM R	REALIGNMEN	IT required for	this section:		Mark II		(A) - (C - Ye)		
O Yes	O No	01	Unknown						
COLLECTOR	lS:	WE	ATHER COND	OITIONS:	TIM	E STARTED	):	TIME FINIS	HED:
AIR TEMP:	98	l neit	WATER TEN	1P:		С	ONDUCTIVIT	Υ (μS/cm):	of 85
PHOTO NUM	BERS AND D	ESCRIPTIONS							141-15
LOCATION	STREET, STREET							2500	The second
NAME OF WA	ATERBODY:	DRAIN	AGE SYSTEM	l: (	CROSSIN	IG #:	STATION #:	THE STATE OF THE S	
LOCATION O	F CROSSING	):				Tier in	100	10 100	marketty 7
4	anlon.	#3 US	5						
GPS COORD	INATES:			мто	CHAINA	GE:			
TOWNSHIP:	7.7		331	MNR	DISTRIC	T:	100	1	Lant Sept.
LAND USE A	ND POLLUTION	ON			Service.	EA EAA	in a bitte		
SURROUNDI	NG LAND US	E:				POLLUTIO	N:	Typia	A THE
		I			over	and			
EXISTING ST	RUCTURE TY	YPE	SERVICE CO		No. of the last	-000	UNIVERSE OF		ALL CALLS
Bridge		Box Culver	tO Op	en Foot Cul	ver()Ø	CS	SP O	N	/A O
Other O Des					~	2. 10	Size (w x h) m	.2	
SECTION TY		PHOLOGY		# 1 V G	W. 76		SIZE (W A II) II		MI PANI
SECTION IDE			SECTION LOC (Include on habita						
TYPE: Stre	eam / river	Channelized	Permanent	Interm	ittent	Ephemera	ASSOCI	ATED WET	.AND:
	0	0	0	0		0			
TOTAL SECT	ION LENGTH	(m):		CL	JRRENT '	VELOCITY (	m/s):		III PILE I
SUB-	Run	Poo	ol .	Riffle	Fla	THE STATE OF	nside culvert		Other
SECTION(S)	0	0		0	C		0		
Percentage of area		90		10					
Mean depth wetted (m)			- (	).3					
Mean width wetted (m)		30.0	)	5					
Mean bankfull				5					
width (m)		3 (	0 1	5					
Mean bankfull depth(m)			- 0	.5					
Substrate		Sil	Si Si	Gr		rcl it			
Bedrock Br	Boulder	Cobble	Gravel Gr	Sand Sa		Silt	Clay Cl	Muck Mu	Detritus D

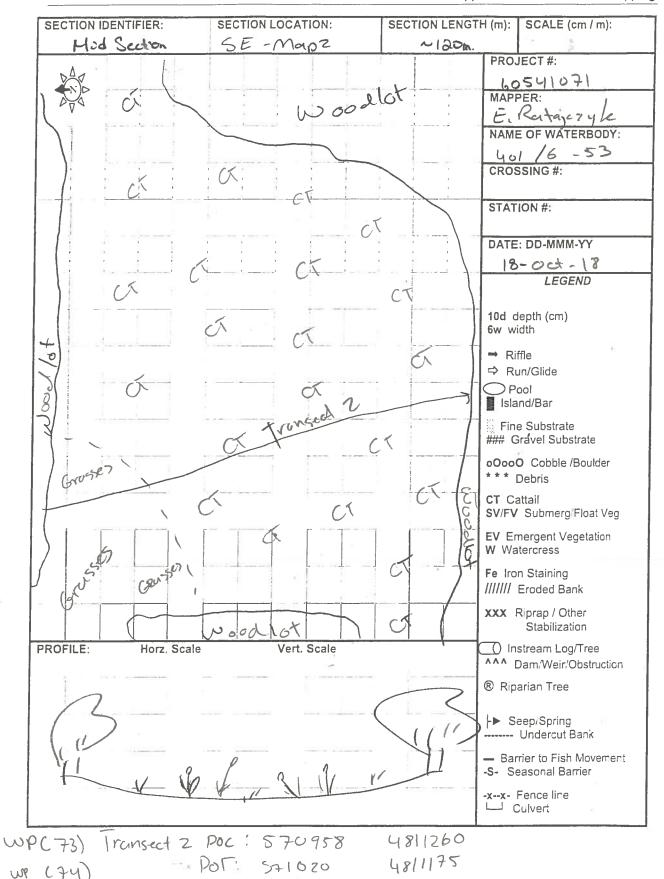
							JA 15, 150		
l oft linet	ream Bank	Stable	SI	ightly Unstable	Mod	derately Un	stable	Unstable	9
·		0		0		0		0	
	ream Bank	0		0		0		0	
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris Instream Overhanging		Organic debris	Vascular Ma Instream Overhangin		None
SHORE COVE	.11	100 – 90 % O	90 – 6 O		60- 30% O		30 – 1% O	No	114
VEGETATION T	YPE	Submerge		Floati	ng		Emergent	N	lone
Predon Sp	ninant pecies								
MIGRATORY OBSTRUCTIONS:	None			Seasonal	CAL		Permanent		
POTENTIAL CRITICAL HABITA	Spaw	ning		Evidence of	Groundwat	er	Other		
comments:	101 61	( ON 0	Nva	in in in in				A	
Sign	whice a	nt W	pwell	ining ways	1003	Do	bridg	r Cil	n h

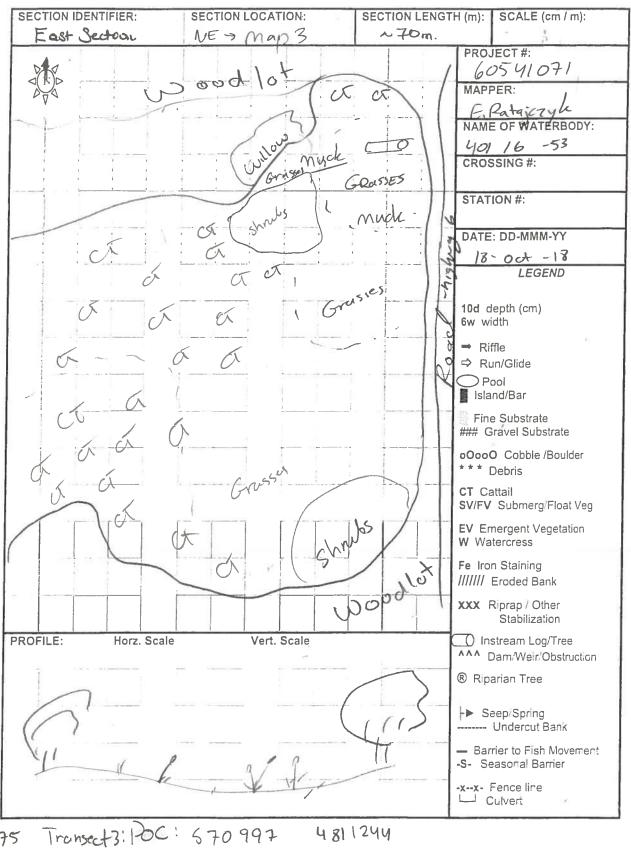


GENERAL II	NFORMATI	ON	1000			FIGURE I		1000	A UVA	1000		EVIE	10000	
PROJECT#:	1071		PROJEC	T DESCRIP	TION:	e - a a L	- Panal		AY:   8		MONTH:		AR:	
COLLECTOR	S:		,	naciras	H5525	55/142/(1		ME ST	ARTED:			FINISHE	<u>'1∂</u>	
B. Mca	rill 6	E. Ratajo	zy h						:40					
WEATHER C	ONDITION	S: '	′	AIR TEMP	(°C):				SURFACE	COI	NDITIONS:	NI.	A , no H=	
				1			Calm	R	ippled		Wavy		Rough	
Overrast			j	-1,			0		0		0		0	
PHOTO NUM				-h -l- l										
LOCATION	Car	nero.	- 766	photo lo	7.			Name of		1000	DE ACOU	(S) (F)		
NAME OF WA	TERBODY	<b>/</b> :	HOL	16 -	<del>-3</del>									
LOCATION O														
GPS COORD	NATES: P	OC: 5709	136 48	11109 Cmp.	70)	МТО	CHAINA	GE:	8		_			
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SECTION TYP			1	AL ALL STORY			ha Kir	HE WAR		100	Mark Control	Simo	TES CENT	
TYPE:	Large		Sm	all Lake		- 5	nd		Reservo	oir		Dug-d	out	
			L	0		(			0			0		
Intermitten	t	Run-off		Spring-fed		Not	Connecte	ed	Ву-ра	ass	\$1	In-stream		
dry.		0		0			×		0		0			
LAKE / POND DIMENSIONS:	The State of	Length (m	)~ DO	on (E	-W	)	I M	lean Wi	dth (m) ん	121	om (1	J-8).		
WATER CHEM			N. H.	SECONDARY.	26.44		TWI DIE		Chief ( )		NEW YORK			
WATER COLO	UK:	Co	lourless		Yello	w/brow	'n		Blue/gree	п		Othe		
OFCCIU DEBT			0			0			0			· . &		
SECCHI DEPT (m):	н	NIA				pH (as	s require	1):	WI	A			* ,	
CONDUCTIVIT	Y Surfa			, 1			Botto	m:			-			
(μS/cm):			114	-					N	A				
DISSOLVED O					SULE.		BE VOICE	GP 1	AND NAMED I			Eneri	ALESAN	
Depth: Water	0.0	0.5	1.0	1.5	2.	0	2.5	3.0	3.5		4.0	4.5	5.0	
Temperature			100		ن عرد	hen		> ٢	- +				1	
(°C):					P.EC		\	J . E.S.	240					
Dissolved														
Oxygen (mg/L):													/	
Depth:	5.5	6.0	6.5	7.0	7.5	5	8.0	8.5	9.0		9.5	10.0		
Water							,							
Temperature	-		NO		لهد	rest	n	rec	ent					
(°C): Dissolved		-				-	١٦	3		+			1	
Oxygen	6									_		Z.	)	
(mg/L):	. [	<u> </u>				BOTT	OH CUID	TD 47	T	No.		and a		
Max Depth (m)		MIA	+			BUIL	OM SUBS	PIKAT	M	luc	100%	) hear	rily chatacl.	
Substrate:	Bedrock	(Br) S	Sand (Sa)	Silt (	Ci)		lay (CI)	1Ú	uck (Mu)	T	Mari (Ma)	Da	situa (D)	

BANK COVER Banks (% Surface area):  NEAR SHORE SLOPE (%):  ZO-75 //  NEAR SHORE SLOPE (%):  SHORELINE SUBSTRATE (%):  Bedrock Boulder Cobble Gravel Sand Silt Clay Muck Mari Detritus SO76  SHORE COVER (% Shaded):  (% Shaded):  O O O O O O O O O O O O O O O O O O O	BANK HABITAT							20		l
SHORELINE SUBSTRATE (14):  Bedrock Boulder Cobble Gravel Sand Silt Clay Muck Mari Detritus 5076.  SHORE COVER (100-90% 89-60% 59-30% 29-11% None (1% Shaded):  O NAWATER HABITAT VEGETATION TYPE Submergent Floating Emergent None (1% Surface area):  ONDERWATER Undercut Boulders Cobble Woody Debris Organic Debris Macrophytes None (100% area):  OVER Banks (100% Woody Debris Organic Debris Macrophytes None 100% Woody Debris Organic Debris Macrophytes None 100% Area area):  MIGRATORY OBSTRUCTIONS  None Seasonal Permanent isotated pond in at connected or content of the connected of the	BANK COVER (% Surface	Undercu	I .	ders	Cobble		- 1	Macrophytes	None	
BOOMMENTS:  From Set Up: 71 - 76  - Chocked by Early by E	NEAR SHORE S	LOPE (%):	20-	25%		hear Ross	1-30-3	5% aler	ig hung 6 bour	en
SHORE COVER 100-90% 89-60% 59-30% 29-1% None (% Shaded): 0 0 0 X 0  N-WATER HABITAT  VEGETATION TYPE Submergent Floating Emergent None (%):  Predominate Species:  UNDERWATER Undercut Boulders Cobble Woody Debris Organic Debris Macrophytes None (% Surface area):  WIGGRATORY OBSTRUCTIONS  NONE  Seasonal Permanent isolated Dond in a connected of the connected of t	SHORELINE SU	BSTRATE (	%):	- 2 - 22,	· = =.	- 14 . 55 .				,
(% Shaded:  (% Shaded:  (% Shaded:  (% Submergent  (%):  Predominate Species:  Species:  Submergent  Boulders  COVER Banks  (% Surface area):  MIGRATORY OBSTRUCTIONS  None  Seasonal  Permanent  isolated Dond, not connected  Potential enhancement opportunities:  Fromset UP: 71 -> 76  -> Chodral (y cuttuits in center	Bedrock E	Boulder	Cobble	Gravel	Sand	Silt	Charles Told Land Street	P	and the same of th	
VEGETATION TYPE  (%):  Predominate Species:  UNDERWATER Danks (% Surface area):  WIGRATORY OBSTRUCTIONS  Voore  Franseat Up: 71 -> 76  - Chocked by calturk in conter  - no weater present at point of conversation of ansessation of ansessation which the present and weater area from the present and weater are present at point of ansessation of ansessations. See Sweeter and weater are present at the point of ansessation of ansessations. See Sweeter and weater are present at the present and		- 1		ì				%		
Predominate Species:  UNDERWATER Undercut Banks (% Surface area):  WIGRATORY OBSTRUCTIONS  Vone  Seasonal  Permanent Isolated Dond and connected  Potential enhancement opportunities:  Frunsed Up: 71 -> 76  -> chocked by culturis in center  -no water present at point of exisessment -no water present at point of strengers. For Sw coner, NA SE owner and worker transect -no water present at point of strengers. For Sw coner, NA SE owner and worker transect -no water present at point of strengers. For Sw coner, NA SE owner and worker transect -no water present at year of any symmetry.  -no water present at year of any symmetry water and worker transect -no water present at year of any symmetry.  -no water present at year o	IN-WATER HAB	BITAT			_					
Predominate Species:  UNDERWATER Undercut Boulders Cobble Woody Debris Organic Debris Macrophytes None (% Surface area):  WIGRATORY OBSTRUCTIONS  None Seasonal Permanent Isolated Dond in a connected some of connected of the con		TYPE	Submer	gent	'	Floating	Emerg	ent	None	
UNDERWATER Undercut Boulders Cobble Woody Debris Organic Debris Macrophytes None  (% Surface area):  WIGRATORY OBSTRUCTIONS  None  Seasonal  Permanent  Isolnted Dond, not connected  Potential Enhancement opportunities:  Transact Up: 71 -> 76  -> Chodeal by cottails in conter	Predo						/		100%	
Seasonal  Permanent  Isolated Dond indiconnected  Potential enhancement opportunities:  Transed Up: 71 -> 76  -> chocked by cuttuits in conter  -no water present at point of eassessment  -no water present at point of strensests. For Sw corner, N> Starner and wo the transect  -no water present at point of assessment  -no wa	(% Surface			ulders	Cobble	Woody Debris	Organic Debris	Macrophyt	100%	1
Transect WP: 71 -> 76  - Chocked by cultures in center  - no water present at point of assessment - no water present at point of assessment - mapped havitat seperated into 3 transects, for SW corner, N-> SEconner and NO - NE transect - standing water @ NE and NW corners of assessed area 800 [570914, 4811220-1 - minor fraps set at NW standing water [										
Transect WP: 71 -> 76  - Chocked by cultures in center  - no water present at point of assessment - no water present at point of assessment - mapped havitat seperated into 3 transects, for SW corner, N-> SEconner and NO - NE transect - standing water @ NE and NW corners of assessed area 800 [570914, 4811220-1 - minor fraps set at NW standing water [				r *						
Transect WP: 71 -> 76  - Chocked by cultures in center  - no water present at point of assessment - no water present at point of assessment - mapped havitat seperated into 3 transects, for SW corner, N-> SEconner and NO - NE transect - standing water @ NE and NW corners of assessed area 800 [570914, 4811220-1 - minor fraps set at NW standing water [	1									
- no wester present at point of ensessment - no wester present at point of ensessment - mapped how that repended into 3 transacts. For Sw corner, N=> SEconner and NO = NE transact - standing water @ NE and NW corners of ansessed oren. = (8°C [570914, U811220-1 - minow fraps set it NW standing water [	COMMENTS:									
-no wester present at point of ensessment amapped howital seperated into 3 transcats, for Sw corner, NASEcorner and NO AME transcat Astanding water @ NE and NW corners of airciscal aren. 5/80C 570914, U811220-1					0					
> standing water (a) NE and NW corners of all standing weater [	1	0.450	nt at pu	nt of an	sessment trensests	, for SW co-	ner, NASE	corner and	40 ME tran	isect
dditional Notes Appended? o No Yes number of pages 1044	astarding annow	water (a traps set	NEA	standing a	ocuter [	41363	240		, , , ,	
	Additional Notes	Appended?	? o No XY	es numb	er of pages _	0+4				







WP 75

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AK WATERPROOF	90-	S				_/	
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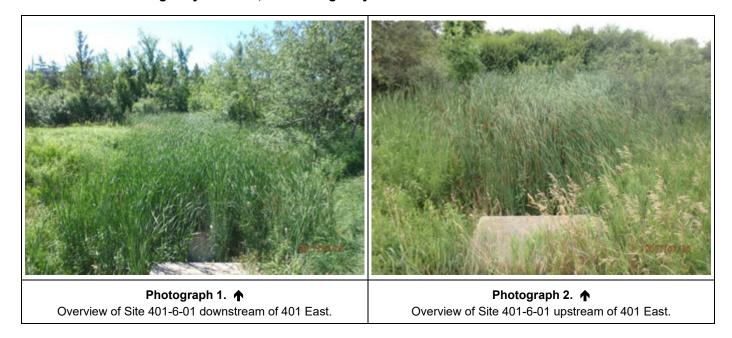
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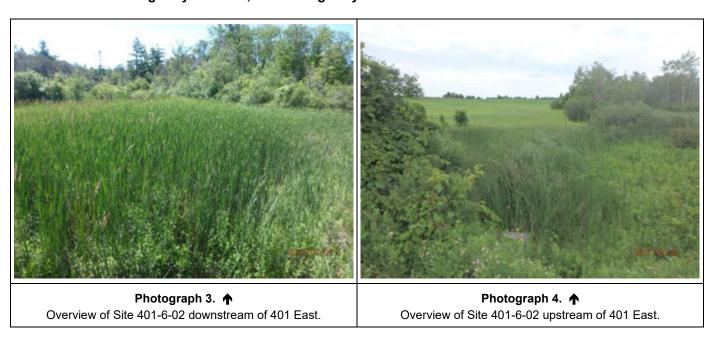
# Appendix C

**Photolog** 

Site 401-6-01: Highway 401 East, west of Highway 6 North at P044



Site 401-6-02: Highway 401 East, west of Highway 6 North at P045



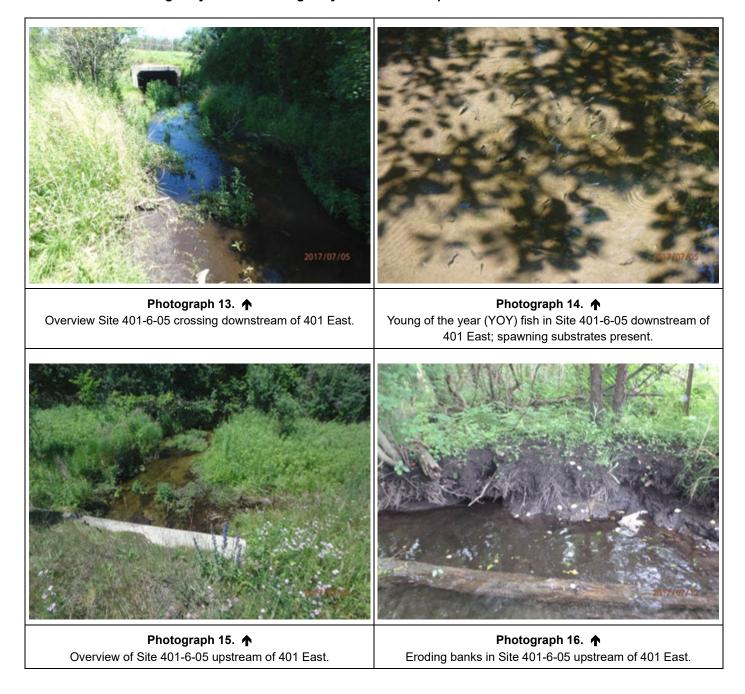
Site 401-6-03: Highway 401 East, west of highway 6 North at P046, Hanlon #3.



Site 401-6-04: Highway 401 East, west of highway 6 North at P036.



Site 401-6-05: Highway 401 East at Highway 6 North off ramp at P048.



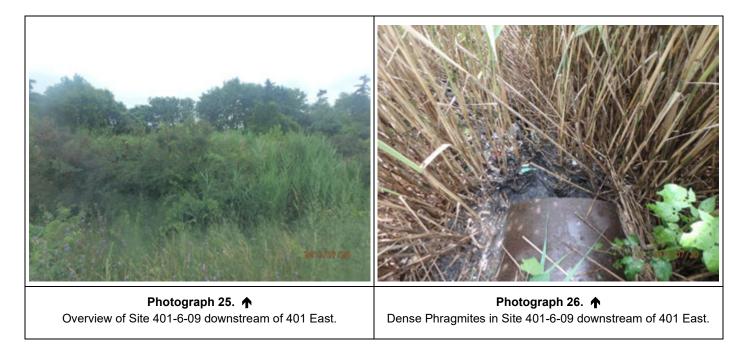
Site 401-6-07: Aberfoyle/Mill Creek at Highway 401 West and Highway 6 North off ramp, P048



# Site 401-6-08:



# Site 401-6-09:



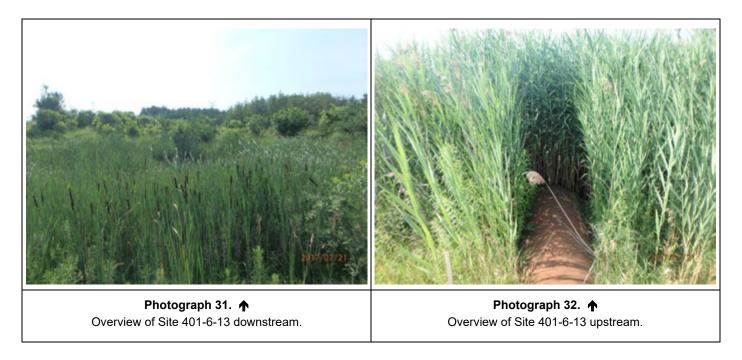
#### Site 401-6-10:



# Site 401-6-12:



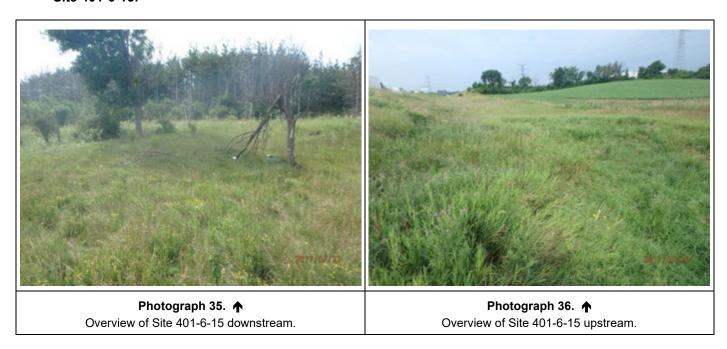
#### Site 401-6-13:



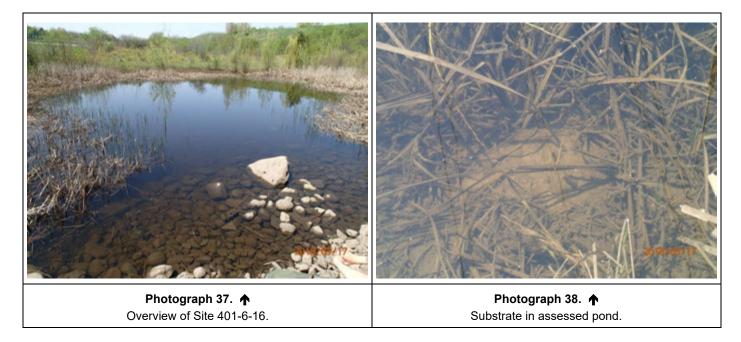
# Site 401-6-14:



Site 401-6-15:



# Site 401-6-16:



# Site 401-6-17:



# Site 401-6-18:



#### Site 401-6-19:

