	•			
PROJECT # AND NAME:	Clarkon	Creek.		
Date and Time (24hr)	Jun. 13/20	16.	Field Staff	AN, CH.
Site ID	E1(H).	Prop#	Type of meter Used	SWOFFER
Station UTMs	MA.		Datum	NAD 83
Left Bank (m)	2.00		Calibration No.	604
Right Bank (m)	12.44		Start Time (24 hr)	1:00:
Wetted Width (m)	10.44		End Time (24 hr)	7:45
Staff Gauge (start)	N/A		Staff Gauge (end)	N/A.

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

Crossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s)  @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / R8 1	2.00	Ø	Ø			
2	2.5	lO	0.1			
3	3-0	20	80.6			
4	3.8	<b>Z</b> 8	0.24			
5	4.0	37	0-22			
6	4.5	38	0.23			
. 7	5.0	41	0.25			
8	5.5	43	Ø.2Z	~~~		
9	₩, ∪	44	0.20	TO THE RESIDENCE OF THE PROPERTY OF THE PROPER		
10	6.5	40	8-22			
11	7.0	39	0.24			
12	7.5	48	81.0			
13	0.8	49	0.23			
14	8.5	47	0.23			·
15	9.0	52	0.19			
16	9.5	47	6.17			
17	0.0	40	0.14			
18	10.5	34	0			
19	11,0	28	Ø	SBAC	n Edd	1.
20	U.5	17_	- 0.01	( )		-
	12.0	<u></u>	Ø	7		70.00
	17.44	Q	8			

Crossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / RB 1	1244	Ø.	<u>ک</u> ر			
2	12.75	9	&		. 1	
3	11.75	14	త	> Bac	e ed do	*
4	11.25	21	Ø			
5	10.75	35	8)	7		Page 1
6	10.25	41	0.06			
7	1.1/	43	0.18			
8	9.25	51	0.20			
9	8.75	50	0.25			A STATE OF THE STA
10	8.25	५१	0.72			
11	7.75	51	0.18			
12	7.25	44	0-25			100 C
13	6.75	39	6.24			
14	6.25	38	0.23			
. 15	5.75	44	Q.18			
16	5.75	40	0.20			The second secon
17	4.75	37	6-25			ACT TO ACT AND
18	4.25	34	0.22			
19	3,75	35	0.23			
20	)	25	0-18			1
	2.75	20	0.06			
	2.25	3	0.01			

Notes:

Left bank and right bank are always based on looking downstream.

<sup>1</sup> Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

alculations (e.g.,	wetted width	/20 = p	anel width):

Irology Fielc	Hyd			Mar
	2016	Creek - The	Clinten C	ROJECT # AND NAME:
CH AN	Field Staff	0:40	June 15 10	Date and Time (24hr)
SWOFFER	Type of meter Used	Prop#	FZ	Site ID
NAD 83	Datum		N/A.	Station UTMs
603	Calibration No.		1.40	Left Bank (m)
10:40	Start Time (24 hr)		7.45	Right Bank (m)
11:20	End Time (24 hr)		6.35	Wetted Width (m)
MIA	Staff Gauge (end)		NIA.	Staff Gauge (start)

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

			Velocity (m/s)	Velocity (m/s)	Velocity (m/s)			
rossing No. I	Distance (m)	Depth (cm)	@ 60% depth <sup>2</sup>	@ 80% depth <sup>2</sup> (2 x depth)	@ 20% depth <sup>2</sup> (0.5 x depth)		Comments	Crossi
(LB)/ RB 1	1-40	Ø	0,					L
2	1.70	2	Ø_					
3 🐱	2.00	7.5	0.06			**************************************		
4 2	.30	8.0	0.14			~~~		
5 2	.60	15	0.15					VI
6 2	.40	19	0-38					
7 -	3,20	20	0.35				×	
8 -	3.50	20	0.65					
9 **	5.80	23	0.58					
10 L	i. 10	28_	0.75			*******************		
11 <u>L</u>	1.40	27.5	0.45				44 # 17 m m m m m m m m m m m m m m m m m m	
12 4	1.40	26	0.77					***************************************
13 🔻	5-00	25	0.72					
14 5	.,30	27.5	0.83			THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	777 TO TO THE TO	
15 💆	.60	27	0.65				· ·	
16	7,90	19	0.53			**************************************		
17	5.20	22	0.46			and the second s		
18	;-50	26.5	0.34					
19	,.80	30	0.25					
20 =	10	30	0.27					
7	1,40	15	0.25					
RB 7	F. 715	07	P)	The state of the s			The second secon	,

ossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB (RB)1	7.75	Ø	Ø)			
2	7.6	5	0.21			
3	7.3	27	0.22			
4	7.0	24_	0.43			
5	6.7	32_	0.30			
6	6,4	24_	0.36			***************************************
7	6.1	24	0.44			
8	5.8	26	0.46			NAME OF A STATE OF A S
9	5.5	25	0.74			
- 10	5.2	24	1.03			
11	4,9,	275	0.69			
12	4.6	25_	0.79			
13	4.3	28	0.61			
14	4.0	24.5	0.69	~~~~		
15	3,7	25	0.56			
16	3.4	22	0.60			
17	3.1	18	0.40			
18	2.8	18	0.38			
19	2.5	15	0.15			
20	2.02	9	0.15			The second secon
to can care of	1.9		0.03			
are a second	1.6		10			
	1,4	Ø	Ø			

#### Notes:

Left bank and right bank are always based on looking downstream.

 $^{1}$  Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

		N	
Calculations (e	e.g., wetted wi	dth / 20 = panel width):	
175	-		
1 1 1 1		201635	
1.40		50	
1 25	-	Dan Jan	
0.77		ξ S <sub>p</sub>	



Clinton Creek PROJECT # AND NAME: Date and Time (24hr) Field Staff AN CH Prop# Site ID Type of meter Used < WOFFER Datum NAD 83 Station UTMs Calibration No. 304 Left Bank (m) 0.58 Start Time (24 hr) 8:45 Right Bank (m) 3.36 9:00 Wetted Width (m) End Time (24 hr) Staff Gauge (end) Staff Gauge (start) 0,252 0.252

## Method Summary

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

if the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

Crossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s)	Velocity (m/s) @ 80% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup>	Comments
			@ 60% depth <sup>2</sup>	(2 × depth)	(0.5 × depth)	
〔8 / RB 1	3.95	Ø.	Q	<u> </u>		
2	3.80	1	Q	> Roc	K2 7/	5
3	3.65	3	8	)		Ø.
4	3.5	5,000	10.0			
5	3.35	5.5	0.12			
6	3.20	Ь	0.21			
7	3.05	5	0.29			
8	2.9	5.5	0.04			
9	2.75	4.5	0.07			
10	2.6	9	0.12			
11	7.45	5	0.20			
12	2,5	6	0-25			
13	2.15	9	0.27			
14	٥.5	8.5	0.21			
15	1.85	9.5	0.21			
16	1.7	٠̈́٩	0.25		-	
17	1.55	8.5	0.37			
18	1.4	14.5	0-31			
19	1.25	14	0.29			
20	1.10	13	0.20			The state of the s
	0.95	16.5	0.12			
<b>C</b> B	০.১১	15	0.04	<u> </u>		

Crossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / RB 1	0.58	15	0.04			
2	0.75	(8	0.04			
3	6.9	5.5	0.08			
4	1.05	9	0.25			
5	1.2	14.5	0.28			
6	1:35	15	0.34			
7	1.50	11.5	0.43			
8	1.65	11.5	0.33			
9	1.80	10.5	0.21			
10	1.95	9.5	0.23			
11	2.1	10	0.32			
. 12	z.25	8	0.28			
13	2.70	5.5	0.28			
14	2.55	6.5	0.10			
15	2.70	6	0.16			
16	Z.85	6	0.01	2 Roll	nd Ro	.(
17	3.0	5	0.01	5		
18	3.15	6	0.23			
19	3. <b>z</b> )	6	o. l			
20	3-45	l l	Ø			
	3.6	l	8			
	3.95	8	<b>1</b> 50			A THE STATE OF THE

#### Notes:

Left bank and right bank are always based on looking downstream.

Calculations (e.g., wetted width / 20 = panel width):

 $<sup>^{1}</sup>$ Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

 $<sup>^{2}</sup>$  Depth is measured from the water surface down (top to bottom, not bottom to top)



ELR PRO	IECT	NUMBER:	14.183	Clinton	Crook	Monitoring
ELK PKO	150	NOPIDER:	14-103	Chilleon	Creek	Monitoring

Date and Time (24hr)	13:00 Time	SCalibration No.	603		Field Staff	AN, CH
Site ID	F4	— — Prop#	1		Type of meter used	SWOFFE
Station UTMs	N/A.	-	*		Datum	NAD 83
Left Bank (m)	0,4			`	Wetted width (m)	6.1
Right Bank (m)	6.5	_			Calibration	603
Start Time (24 hr)	13:00				End Time (24 hr)	13:30
Staff Gauge (start)	NIA.				Staff Gauge (end)	NIA.

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at at least one location) then take readings at 80% and 20% depths only

ossing No. I Dis	tance (m)	Depth (m)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>		Co	omments	Cr
(LB) RB 1	.2	19	0.83			Vertica	bank	
2 0	.5	17	0.93					
з Ø	, 8	20	0.84					
4	0	22	0.85					
5 ].	, 4	21.5	1.60					
6 ]	.7	25_	1.06	***************************************	AND THE PROPERTY OF THE PROPER			
7 2	· 0	19	1.10					
8 2	., 3	25	0.80			*******************************		
9	16	24	0.89					
10 2	1.9	22	0.94					
11 3	.2	22	0.81					
12 3	,5	21	0.80	777788748884AAA7-240-340-31				
13 3	.8	19	0.61					
14 4	. 1	14_	0.75					
15 4	. 4	15	0.97					
16 day	· 7	13.5	0.45			P-0000000-000-000-000-000-000-000-000-0		
17 5	-0	15	0.56					
18 5 .	, 7	19_	0.50					
19 💆	.6	_1 <u>O</u>	0.59			· · ·	3	
20 5.			0.01			Bob Sol	rolf (	
6.	1		9			Behind	meth 1	
RB 6.	5	<u> </u>	0.23			Verta	al work	

ossing No. 2	Distance (m)	Depth (m)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 x depth)	Comments
LB√RB 1	6.5	3	0.19			
2	6.3	1	0.16			Bahnda Rock
3	6,0	7-5	Z_		***************************************	Religible Rock
4	5.7	15	0.47			. ,
5	5.4	9	0.06			Behird Rock
6	5,1	15	0.48			AMANAMANA AND AND AND AND AND AND AND AND AND
7	4.8	12	0.70			
8	4.5	15	0.92			
9	4.2.	15	0.87			
10	3,9	17.5	0.68			
11	3.6	24	0.68			
12	3,3	16	0.61			
13	3,00	20	1.08			
14	2.7	21_	0.90			
15	2.	25	0.93			
16	2.1	22	1.02			
17	1.8	24,5	0.41			
18	1.5	21.5	0.98			
19	1,2	21:	0.80			
20	0.9	16.5	1.06			
	0.6	15	0.82			
LB	0.4	18	0.85			Vortal Brent

#### Notes:

Left bank and right bank are always based on looking downstream.

 $^{\mbox{\tiny 1}}$  Use the width on the tape. No need to start at 0 m

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Calculations:	 ****	***************************************	***************************************	
6.5				
ging.				
6" 7				
a) A 3 (24.2	 		***************************************	

ZE /630

# **Hydrology Field Sheet**

	x 3	*		nology i icia s
	C1. L.	1	N - 0 - 1/	
PROJECT # AND NAME:	_ UINTON	Creen -	June 7019	
Date and Time (24hr)	Jm 15/2016	,	Field Staff	CH+ AN/
Site ID		Prop#	Type of meter Used	Swot los
Station UTMs	N/A.		Datum	NAD 83
Left Bank (m)	_0.50m		Calibration No.	603
Right Bank (m)	<u>4.60m</u>		Start Time (24 hr)	14:45
Wetted Width (m)	4.1		End Time (24 hr)	15:15
Staff Gauge (start)	MA.		Staff Gauge (end)	NA.

# Method Summary

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

Crossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s)  @ 20% depth <sup>2</sup> (0.5 × depth)	Comments	Crossin
LB //RB) 1	4.6	Ø	Ø				
2	4.4	11.5	0.20			-	
3	4.2	14	0.39			3.7	
4	4.0	22	0.47			The state of the s	
S	2,8	32	0.55				
6	3.6	39	0.51				
7	3,4	44	0.68				
8	3,2	45	10.89				
9	3.0	48	0.88				
10	2.8	47.5	0.97				
11	7,0	47,5	0.89				
12	2,4	48	0.75				
13	2,2	45,5	0.75				The state of the s
14	2.0	44	0.67				
15	1.6	39	0.83			-	
16	1.6	40	0.84				
17	1,4	36	0.66				
. 18	1.2	34	0.48				-
19	1.0	28	0.35				
. 20	0.8	21,	0.35				
LB	0.5	Ø	Ø				1
	U		-				-

rossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s)  @ 20% depth <sup>2</sup> (0.5 x depth)	Comments
(B)/ RB 1	0.5	Ø	Ø			
2	G. 7	15	0.29			
3	0.9	24	0.33			
4	7,1	30	0.36			
5	1.3	35	0,81			
6	1.5	36	0.75			
7	1,7	37,5	0.80			
8	1.9	44.	0.69			
9	2.1	45	0.62			
10	2.3	45	0.74			
11	2.5	47.5	0.84			
12	2,7	47.5	0.98			
13	2,9	45	1.06			
14	3.1	49_	0.93			
15	3.3	43_	0.96			
16	3.5	40	0.70			
17	3.7	38,5	0.60	***************************************		
18	3,9	28	0.53			
19	411	20.5	0.42			
20	4,3	15	0.30			,
RB	4.6	Ø				
7						

rlotes:

Left bank and right bank are always based on looking downstream.

 $^{-1}$ Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Calculations (e.g., wetted width / 20 = panel width):

Comments



#### ELR PROJECT NUMBER: 14-183 Clinton Creek Monitoring

AN, CH.	Field Staff	604	Calibration No.	Jur. 13/2016	Date and Time (24hr)
SWOFFER	Type of meter used	-	Prop#_	6wcc-5	Site ID
NAD 83	Datum			NIA.	Station UTMs
0.9	Wetted width (m)		_	1.3	Left Bank (m)
603	Calibration			2.2	Right Bank (m)
16:35	End Time (24 hr)		_	16:15	Start Time (24 hr)
NIA	Staff Gauge (end)			NA	Staff Gauge (start)

#### Method Summary

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at at least one location) then take readings at 80% and 20% depths only

Crossing No. 1	Distance (m)	Depth (m)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup> (2 x depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments	Crossing No. 2	Distance (m)	Depth (m)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 x depth)	
LB/RB 1	1.3	Q	0				LB/RB 1	2.2	Q	6		+
2	1.4	1.0	6				2	2.1		0		Ī
3	1.5	1.0	0.01				3	2.0	3	0.27		Ī
4	1.6	4	0.73	*		·	4	1.9	4	0.28		-
5	1.7	4	0.06				5	1.8	< 5	0.17		I
6	1.8	3	0.34				6	1.7	3	0.14		Ī
7	1.9	3	0.23				7	1.6	2	0.16		I
8	2.0	2	0.22				8	1.5	2.0	0		I
9	2.1	1	0				9	1,4	Į	O		Ī
10	2.2	0	0				10	1.3	Q	Ø		Ī
11							11					
12							12					
13							13					
14							14					
15							15					
16							16					
17							17					
18							18					
19							19					I
20							20					T
												T
											- 1	1

Notes:
--------

Notes:

Left bank and right bank are always based on looking downstream.

\* Velocity varies depending on

1 Use the width on the tape. No need to start at 0 m angle of prop. Prop. needed to

2 Depth is measured from the water surface down (top to bottom, not bottom to top)

be filled due to Depth of water

nay account for variation

between crossings.

alculations:			

Mak	,		Hyd	rology Fiela	اد
VI CII	CII		5 1/		
PROJECT # AND NAME:	LUNTON	<u>Lreeh</u>	Jure 16		
Date and Time (24hr)	Ju. 16/20	16	Field Staff	(SI + AN)	/
Site ID	RI	Prop#	Type of meter Used	SWOFFE	R
Station UTMs	NIA.	1	Datum	NAD 83	
Left Bank (m)	0.2		Calibration No.	603	
Right Bank (m)	6.3		Start Time (24 hr)	14:45	
Wetted Width (m)	6.1		End Time (24 hr)	15:15.	
Staff Gauge (start)	N/A.		Staff Gauge (end)	N/A	

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

Crossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Comments	Cro
LB / 8 1	6,3	Q	Q			1
2	6.0	3	Ø			-
3	5.7	4	0.25			
4	5.4	+	0,27			
5	5.1	5.5	0.22			
6	4-8	7	0.26			
7	4,5	7.5	0.32			
8	4.2	<u> </u>	0,41			
9	3,9	_4_	0.38			
10	36		0.40			
11		12_	0.43			
12	100	14.5	0.44			
13	<i></i>	18_	0.45			To the second se
14		21.5	0.46			- The state of the
15	~ 1 L	23_	0.55			
16	1.8	26	0.53			
17	1.5	28	0,57			
18	110	28_	0.54		NAME OF THE OWNER OWNER OF THE OWNER	1
19	0,9	29	0,40			
20	0.6	41	0.15			
(43)	0.2	_Ø_	10			

ossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 x depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / RB 1	6.2	Q	Ø			
2	0.5	19	0.09			17501FFFFF000FFFF000FFF000FF000F000F000F00
3	0.8	27	0.25			
4	1, [	<u> 30 </u>	0.58			1
5	1.4	<u> 29 </u>	0.5%			
6	1.7	_26	0.54			
7	2.0	24_	0.57			
8	2.3,	21_	0.49			
9	2.6	19_	0.43		***************************************	
10	2.9	16.5	0.44			
11	3,2	17.5	0.40			
12	3,5	12	0.32			
13	3.8	10	0.37			
14	4.1	_9	0.40			
15	4.9	75	0.32			
16	4.1	wife.	0.33			
17	20	65_	0.21			
18	7:1	- Kary	0.30			
19	5.6	<u> </u>	0.26			
(20)	5, 9	3	0.13			
	6,3					
T T T T T T T T T T T T T T T T T T T				450 x 200 0 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

/	Notes:	
	7	

Left/bank and right bank are always based on looking downstream.

<sup>1</sup>Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Photos: 676-679

Calculations (e.g., wetted width	/ 20 = panel width):	

# Hydrology Field Sheet

Mor				Hyd	irology Field
V CI	n1   ·	P 1.		1/	
PROJECT # AND NAME:	_ (Inon	Creen	11/2-2-	10	
Date and Time (24hr)	Time 16 13.	30		Field Staff	al + AV
Site ID	_02	Prop#		Type of meter Used	Swotter
Station UTMs	N/A.			Datum	NAD 83
Left Bank (m) <sup>1</sup>	2.10			Calibration No.	603-
Right Bank (m)	6.43			Start Time (24 hr)	ँ । उ : उ0
Wetted Width (m)	7.67			End Time (24 hr)	14:10
Staff Gauge (start)	N/A.			Staff Gauge (end)	NIA

#### Method Summary

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

<u> </u>	T		11/-1	V-1:- ( (-)		
sing No.   Distance (	m) Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments	Crossing
B (RB) 1 0.43	, Q	Q				LB /
20.5	2 1	0.01				
30.6	1 1	0-01				
4 O. H	2 3	0.27	_			
50,7°	1 4	6.31				
60,82	3	0.41	-		New York Control of the Control of t	
70.97	4.5	0.51			77444	
81.06	6.5	0.43				
9 1.15	5 10.5	0.59				
10 1.2	1 11	0.50			The second secon	
11 1 , 3	3 15	0.58				
12 [ ,4	2 15.5	0.56		-		
13 1.5	16	0.54				
14 1.60	) 11	6.57				
15 1.69		0.60				
16 (.78	Z	0.58				
17 1.83		0.45				
18 ,9		948_				
19 Z . (C	> &	Ø		ļ		
20		A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	İ			
ļ 1			<u> </u>			

ng No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
3 / RB 1	Z-1	Ø	æ			
2	2.01	25.5	0.40			
3	1.92	Z4.5	0.44			
4	1.83	22	0.54			The state of the s
5	1.74	19.5	0.54	5		
6	1.65	19	0.59			
7	1.56	19	0.53			
8	1.47	16	0.52			
9	1.38	(5.5	0.63			
10	1.79	13	0.57			
11	1.20	11.5	0.52			
12	1.1	10.5	6.53			***************************************
13		8	0.50			
14	0.93	6	0.46			
15	0.84	<b>나</b>	0.35			
16	0.75	3	0.35			
17	0.66	3	0.19			and the second s
18			à			
19	0.46	l	6			
20	0.43	Q	_Z	TO THE STATE OF THE STATE AND A STATE OF THE		

Notes:
--------

Left bank and right bank are always based on looking downstream.

20
9
The state of the s
180

Calculations (e.g., wetted width / 20 = panel width):	
イダイク	
0.43	
1.77	

If found, please call ELR: 867.668.6386

20/177

<sup>&</sup>lt;sup>1</sup> Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>&</sup>lt;sup>2</sup>Depth is measured from the water surface down (top to bottom, not bottom to top)



<b>4</b> / <b>\( \)</b>		•			
PROJECT # AND NAME:	Cliaton	Creek	•		
Date and Time (24hr)	Jun. 17/2	016		Field Staff	AN, CH
Site ID	<b>R3</b>	Prop #	1	Type of meter Used	SWOFFER
Station UTMs	N/A			Datum	NAD 83
Left Bank (m)	0.40			Calibration No.	803
Right Bank (m)	1.96			Start Time (24 hr)	16:45
Wetted Width (m)	1.56			End Time (24 hr)	17:05
Staff Gauge (start)	NA			Staff Gauge (end)	N/A

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

				Velocity (m/s)	Velocity (m/s)		1
rossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	@ 80% depth <sup>2</sup> (2 × depth)		Comments	Crossing
LB (RB) 1	1.96	Ø	Q				LB
2	1.883	١	Ø				
3	1.80	2	MA	Q			
. 4	172	3	0.04				
5	1.64	3	0.16				
6	1.56	4	0.70				
7	1.48	4.5	0.25			AR-4100-0	
8		5.5	0.41				
9	1.32	6.0	0.46		-		
10	1.24_	8.0	0.58				
11	1.16	9.5	0.64				-
12	1.08	0	0.73	-			-
13	1.0		071				
14	0.92	9.5	0.71				-
15	0.84	8.5	0.70				_
16	0.76	7	0.70				-
17	0.68	5.5	0.64				-
18	0.6	4	0.46				
19 20	0.52	2.0	0.18				-
20	0.40	0					
e de la companya de l							

ossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / RB 1	0. 나	Ø	Ø			
2	0.48	1	6.01			
3	0.56	3	0.36			
4	0.64	4.5	0.57			
5	0.72	6	0.79			
6	0.8	7.5	0.73			
7	0.88	9.5	0.76			
8	0.96	10	0.72			
9	1.04	9.5	0.73			
10	1.12	10.5	0.71			
11	1.20	9	0.61			
12	1.22	6.5	0.53			
13	1.36		0.45			
14	1.44	5.5	0.30			
15	1.52	5.5	030			
16	1.60	45	0.21			
17	1.68	4	0.15			
18	1.76	3	0.14			
19	1.84		۵			
20	1.96	- Ø	8			
		~~~				

Left bank and right bank are always based on looking downstream.

Calculations (e.g., wetted width / 20 = panel width):

 $<sup>^{1}</sup>$  Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>&</sup>lt;sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)



#### ELR PROJECT NUMBER: 14-183 Clinton Creek Monitoring

Date and Time (24hr)	Jun. 15/2016	Calibration No.	603	Field Staff	AN, CH
Site ID	R4	Prop#	1	Type of meter used	SWOFF
Station UTMs	MA.			Datum	NAD 83
Left Bank (m)	0.24			Wetted width (m)	1.96
Right Bank (m)	2.10			Calibration	603
Start Time (24 hr)	12:10			End Time (24 hr)	12:40
Staff Gauge (start)	N/A.			Staff Gauge (end)	N/A

## Method Summary

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at at least one location) then take readings at 80% and 20% depths only

Cro	Comments	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 x depth)	Velocity (m/s) @ 80% depth <sup>2</sup> (2 x depth)	Velocity (m/s) @ 60% depth <sup>2</sup>	Depth (m)	Distance (m)	ossing No. 1
				۵	0.5	0.24	(LB)/RB 1
	3			0	0.5	0.3	2
				0	1.0	0.4	3
				0.12	2.5	0.5	4
				0.16	4	0.6	5
				0.15	2	0.7	6
	,			0.16	1	0.8	7
				0.18	2.5	0.9	8
				0.12	1.0	0.1	9
				0.31	4	1.1	10
				0.39	6	1.2	11
				0.48	12.5	1.3	12
	)			0.28	13	1.4	13
				0.48	14	1.5	14
				84.0	12	1.6	15
				0.69	15.5	1.7	16
				0.50	16.5	1.8	17
*				0.44	8	1.9	18
				6.52	8	2.0	19
				Ø	0	2.1	20

ossing No. 2	Distance (m)	Depth (m)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup> (2 x depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB/RB 1	2.1	Ø	Q			
2	2.0	8	0.51			3
3	1.9	7	0.37			
4	1.8	14	0.50			
5	1.7	12	0.65			
6	1.6	13.5	6.70			
7	1.5	13	0.40		9 .	
8	1.4	14	0.29			
9	1.3	12	0.40			
10	1.2	7.5	0.37			
11	١.١	4.5	0.29			
12	0.1	1.0	0.22			
13	0.9	4.0	0.15			
14	8.0	2.0	11.0			
15	0.7	3.5	0.15			,
16	0.6	4.0	0.12			
17	0.5	2.0	0.12			
18	0.4	1.0	0.05	7		
19	0.3	0.5	Ø			
20	0.24	0	Ø			1 1
						,

N	_	٠.	_	_	

Left bank and right bank are always based on looking downstream.

<sup>1</sup>Use the width on the tape. No need to start at 0 m

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Calculations:				

1 elr	~ <i>l l</i>	<i>^</i> /	gggam. A	Hyd	rology Fielc
PROJECT # AND NAME:	Clinton	Creek	June 2016		
Date and Time (24hr)	Jue 17:1:	2 :58		Field Staff	CH JAN/
Site ID	R7	Prop #	**Addings	Type of meter Used	Swoller.
Station U <b>TM</b> s	M/A.	-	7	Datum	NAD 83
Left Bank (m)	0-50			Calibration No.	603
Right Bank (m)	0.12			Start Time (24 hr)	12:50
Wetted Width (m)	0.38			End Time (24 hr)	13:20
Staff Gauge (start)	N/A.			Staff Gauge (end)	N/A.

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

Crossing No. I	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>		Comments	Crossing No
LB RB 1	0.12	Ø	0				LB / R
2	0.20	()					
( ) 3	0.28,	15.5	0.01				
(L) 4	0.36	16.0	0-03				
	0,44	15-5	0.02				
7	0.50	(\/	00				
8				* * * * * * * * * * * * * * * * * * *			
9							
10							
11							
12							
13							
14							
15							
16 17	i #4						
18					***************************************		
19							
20							
						AT THE RESIDENCE AND ADDRESS OF THE PARTY OF	
						Power was the found of the first of the firs	

No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
RB 1	0.50	11	0.01			
2	042	16	0.02			
3	0.34	16	002		-	
4	0.26	15.5	0.02			
5	0,18	12.5	0 00			
6	0.12	Q	0			
7						
8						
9						
10						
11						774174-00-00-00-00-00-00-00-00-00-00-00-00-00
12						
13						
14		***************************************				
15						
16						
17		AM-1-1				
18						
19					ļ	
20						
						entan in an ampropriation of the letter to t

Left bank and right bank are always based on looking downstream.

1 Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Calculations (e.g., wetted width / 20 = panel width):

	elr
--	-----

		Creek	Clinton	PROJECT # AND NAME:
AN, CH.	Field Staff	016	Jun. 16/2	Date and Time (24hr)
SWOFFER	Type of meter Used	Prop # 304	₹8	Site ID
NAD 83	Datum	· · · · · · · · · · · · · · · · · · ·	N/A.	Station UTMs
364	Calibration No.		0.19	Left Bank (m)
12:50	Start Time (24 hr)		0.79	Right Bank (m)
1:10	End Time (24 hr)		0.59	Wetted Width (m)
1/K	Staff Gauge (end)		N/A.	Staff Gauge (start)

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

• • • •	13.8-1					7	
Crossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)		Crossing No
LB / 🕅 1	0.19	1.0	0				LB / R
2	0.29	14	Ø				
3	0.39	12	0.07				
4	0.49	9.5	0.02				
5	0.59	9	0				
6	0.69	9	Ø				
7	0.78	0	Ø				
8		1					
9						WHEN THE RESIDENCE AND ADDRESS OF THE PROPERTY	
10	***************************************						
11							
12		-	·				
13			3				
14							
15							The state of the s
16 17				<u> </u>			
17							
19							
20							
20							
				<u> </u>			

ossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB / RB 1	0.78	Q	Q			
2	0.70	8. <b>5</b>	Ø			
3	0.00	(0	0.01			
4	0.5	9.9	0.02			
5	0.4	12.5	0.02			
6	0.3	14	0.01			
7	0.2	\	Ø			
8	0.19	l	Q			
9						
10						
11						
12						
13						
14.						
15	~ ~~~					
16						
17						
18						
19						
20						

Notes:	

Left bank and right bank are always based on looking downstream.

Calculations (e.g., wetted width / 20 = panel width):

If found, please call ELR: 867.668.6386

Did not take photo of field shout before site photos

<sup>&</sup>lt;sup>1</sup> Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>&</sup>lt;sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

Agle	,			Hyd	rology Fiela
41 CII	$\sim 1.1$			2016	
PROJECT # AND NAME:	_ Clinton	<u> </u>	Jure	Land 110	
Date and Time (24hr)	Twe 17-9	-50		Field Staff	CH+AN
Site ID	R9	Prop#		Type of meter Used	Swoller.
Station UTMs	N/A.			Datum	NAD 83
Left Bank (m)	1.05			Calibration No.	603_
Right Bank (m)	0.38			Start Time (24 hr)	9:50
Wetted Width (m)	0.67			End Time (24 hr)	10:20
Staff Gauge (start)	N/A			Staff Gauge (end)	N/A.

Meth	od S	Տսո	ma	rv

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

			•				
ossing No. I	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s)  @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 x depth)	Comments	С
(B) / RB 1	1.65	11	Ø				
2	13.95	11	0.01			\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	
3	0.85	15.5	0.02				
4	0.75	16	0.05			A STATE OF THE STA	
5	0.65	19	0.65			THE FEW PROPERTY CONTROL AND ADMINISTRATION OF A STATE AND A STATE	
6	0.55	18	0.06	-			
7	0.45		0				
(R P)9	1.34	15	0				
10	W 7 F 30	1			The second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section		
11		The second secon		÷	<u> </u>		
12							
13					1		
14							
15							
16							
17				ļ	ļ		
18							
19							
20			<u> </u>				
	THE CONTRACT OF THE PARTY OF TH		-				
			<u> </u>				

ossing No. 2	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup>	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments
LB /(RB) 1	0.38	15	8			
2	0.48	17	Ø			
3	0.58	17	0.10			
4	0.68	17	0.06			
5	0.78	16	0.04			
6	0.88	12	0.01			
7	0.98	11	0			
8	<del>1.0\$</del> ]					#TV-PR-F PFT-F-PR-F-PR-T-PR-T-PR-T-PR-T-PR-T-PR-T
(p) 9	1.05	11	Q			
10						
11						
12						
13						The second secon
14						
15			-			
16						
17						
18						
19						
20						

Notes:	

Left bank and right bank are always based on looking downstream.

<sup>1</sup>Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)

	Calculations (e.g.,	wetted width,	/ 20 = panel width):
--	---------------------	---------------	----------------------

	elr
--	-----

Date and Time (24hr) Jon. 17/2016 Field Staff AN, CH					47
Site ID         R / I         Prop #         Type of meter Used         S ~ 6 F F E R           Station UTMs         N / A .         Datum         NAD 83           Left Bank (m) <sup>1</sup> O . 5         Calibration No.         6 0 3           Right Bank (m) <sup>1</sup> O . 0         Start Time (24 hr)         1 7 : 55           Wetted Width (m)         O . 5         End Time (24 hr)         / 8 : 2 O			Crark	Clinton Co	PROJECT # AND NAME:_
Station UTMs         NT / A .         Datum         NAD 83           Left Bank (m) <sup>1</sup> O . S         Calibration No.         60 3           Right Bank (m) <sup>1</sup> O . O         Start Time (24 hr)         1 7 : 55           Wetted Width (m)         O . S         End Time (24 hr)         / 8 : 2 O	AN, CH	Field Staff	6	Jm. 17/2016	Date and Time (24hr)
Left Bank (m)¹         O. S         Calibration No.         60 %           Right Bank (m)¹         O. O         Start Time (24 hr)         1 7 : 55           Wetted Width (m)         O. S         End Time (24 hr)         / 8 : 2.0	SWOFFER	Type of meter Used	Prop#	RII	Site ID
Right Bank (m)¹         O . O         Start Time (24 hr)         17:55           Wetted Width (m)         O . S         End Time (24 hr)         / 8:20	NAD 83	Datum		N/A.	Station UTMs
Wetted Width (m) 0.5 End Time (24 hr) /8:20	603	Calibration No.		0.5	Left Bank (m)
	17:55	Start Time (24 hr)		0.0	Right Bank (m)
Staff Gauge (start) N/A Staff Gauge (end) N/A	18:20	End Time (24 hr)		0.5	Wetted Width (m)
	NM.	Staff Gauge (end)		N/A.	Staff Gauge (start)

Measure the width of the wetted cross section of the stream (m)

Divide the wetted width by 20 to establish the width of each flow gauging panel

If the width of each panel is less than 6 cm you can reduce the number of panels (and increase the width of each panel)

If the stream is less then 0.75 m deep take the average flow readings at 60% of the depth only

If the stream is more than 0.75 m deep (at least one location) then take readings at 80% and 20% depths only

-			•				· · · · · · · · · · · · · · · · · · ·	
rossing No. 1	Distance (m)	Depth (cm)	Velocity (m/s) @ 60% depth <sup>2</sup>	Velocity (m/s) @ 80% depth <sup>2</sup> (2 × depth)	Velocity (m/s) @ 20% depth <sup>2</sup> (0.5 × depth)	Comments	C	Crossing
LB / (RB)1	-0,1	22.5	0.17					LB .
2	0.0	34	0.18					
3	0.1	30	0.14					
4	0.2	29	0.1				•	
5	0.3	27	0-03					
6	6.4	25	0.06					
7	0.5_	<u>Q</u>	Q			***************************************		
8								
9								
10				ļ				
11				į				
12								
13								
14								
15	·····							
16								
17								
18								
19								
20	***************************************							
į								

			Velocity (m/s)	Velocity (m/s)	Velocity (m/s)	
o. 2	Distance (m)	Depth (cm)	@ 60% depth <sup>2</sup>	@ 80% depth <sup>2</sup> (2 × depth)	@ 20% depth <sup>2</sup> (0.5 x depth)	Comments
3 1	0.5	Ø	Q			
2	0.4	25	0.05			
3	0.3	27	004			
4	0.2	30	0.14			
5	0.	34_	0.12			
6	G.O_	35	Ö.15			
7	-0.1	22.5	0.17			
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18			ļ			
19			ļ			
20	•					

Left bank and right bank are always based on looking downstream.

Calculations (e.g., wetted width	/ 20 = panel width):

 $<sup>^{\</sup>mathrm{1}}$  Use the width on the tape. No need to start at 0 m. Calculations will be completed in Excel.

<sup>&</sup>lt;sup>2</sup> Depth is measured from the water surface down (top to bottom, not bottom to top)