

Staf Rea (Sub	ect Number:  f Name:  ch ID (use map):  b)Watershed:  ation:	Uskov, Faiella  1  Uppers Quarry ON)	(Thorold,	Date: Time: Weather (current): Rainfall (72 hours prior):			April 4, 2017 09:39 Overcast,				
Flow	v Condition No Surface Water Standing Water Interstitial Flow (su		he voids of a	□ ⊠ coarse	Surface Flow Mini Surface Flow Sub e substrate)		·				
Feat	<ul> <li>☐ Multi-Thread (&gt;1 Channel)</li> <li>☐ Roadside Ditch</li> <li>☐ No Defined Feature</li> <li>☐ Tiled Drainage</li> </ul>										
Ripa	arian Classification 0m-1.5m	ı	1	5m-10	lm		10m-30m				
П	None	П	None	JIII- 10	/III	7	None				
	Lawn		Lawn			_	Lawn				
$\boxtimes$	Cropped Land	$\boxtimes$	Cropped L	and		$\overline{X}$	Cropped Land				
	Meadow		Meadow				Meadow				
	Scrubland / Thicke	t $\square$	Scrubland	/ Thic	ket		Scrubland / Thicket				
	Forest		Forest		I		Forest				
<i>barri</i> Ups	ers to fish migration; s stream section trav	eeps; ponds; ampl erses through a	hibians; terre a mix of ma	s <i>trial ci</i> anicur	rayfish; etc.) red grass and a pa	ast	verts? (measurements);				
gras und sha due	ss, with some depo	osited silt. Wate The feature beco atures. The swa oing heavy rain	er flows now omes wide ale is cropp as with mod	th thr r with ed the derate	ough a 0.5 m plas minor definition b rough. The swale s flows of approxir	stic out is na	continues to exhibit in a flooded state tely 0.3 m/s.				

average. Water depths are approximately 10.5 cm and substrate is made up of mainly clay

Page | 1

with lesser amounts of silt and sand.

St:	antec	-				Unconstrained Headwater Drainage Feature Assessment Field Form							
Photos:	3206, 32	205, 3220	, 3224	ı	ı	ı	ı						



Staff Name: Uskov, Faiella Time: 10:19  Reach ID (use map): 2 Weather (current): Overcast  (Sub)Watershed: Rainfall (72 hours prior):     Uppers Quarry (Thorold, ON)	Project Number:	160961352	Date		April 4, 2017
Reach ID (use map):  (Sub)Watershed:    Uppers Quarry (Thorold, ON)    Surface Flow Minimal (<0.5 l/s)	•	Uskov, Faiella			10:19
Coation:   Uppers Quarry (Thorold, ON)		2			Overcast
Depart Quarry (Thorold, ON)	` ',	·			
Surface Water (dry) Standing Water Standing Water Standing Water Standing Water Surface Flow Substantial (<0.5 l/s) Interstitial Flow (subsurface water in the voids of a coarse substrate)  Feature Type Defined Natural Channel Multi-Thread (>1 Channel) No Defined Feature Swale (a shallow trough-like depression that carries water mainly during rainstorms or snow melts)  Riparian Classification Om-1.5m Swale (a shallow trough-like depression that carries water mainly during rainstorms or snow melts)  Riparian Classification Om-1.5m Swale (a shallow trough-like depression that carries water mainly during rainstorms or snow melts)  Riparian Classification Om-1.5m Swale (a shallow trough-like depression that carries water mainly during rainstorms or snow melts)  Riparian Classification Om-1.5m Some None Lawn Lawn Cropped Land Cropped Land Scropped Land Scropped Land Scropped Land Scrubland / Thicket Scrubland / Thicket Forest Forest Forest  Notes: (include o.a.: water & air temp.; defined banks?; feature width; wetted width; culverts? (measurements); barriers to fish migration; seeps; ponds; amphibians; terrestrial crayfish; etc.)  No defined banks observed at the upstream section of this reach. Minor flows observed throughout. Substrate is comprised of clay and silt with lesser amounts of sand. Could not measure upstream wetted and feature width due to lack of definition. Reach became more defined in the downstream section near the property line to the north due to surficial runoff from agricultural field. Flows increased in the downstream section (~0.10 m/S). Wetted width	, ,			, ,	
Defined Natural Channel   Wetland   Online pond outlet   Multi-Thread (>1 Channel)   Roadside Ditch   No Defined Feature   Tiled Drainage   Swale (a shallow trough-like depression that carries water mainly during rainstorms or snow melts)    Riparian Classification	<ul><li>□ No Surface Wate</li><li>□ Standing Water</li></ul>	,		Surface Flow Subs	· ·
None	<ul> <li>□ Defined Natural C</li> <li>□ Channelized</li> <li>□ Multi-Thread (&gt;1</li> <li>⋈ No Defined Feature</li> </ul>	Channel) ıre		Online pond outlet Roadside Ditch Tiled Drainage	ms or snow melts)
□ None       □ None       □ Lawn         □ Lawn       □ Lawn       □ Lawn         □ Cropped Land       □ Cropped Land       □ Cropped Land         □ Meadow       □ Meadow       □ Meadow         □ Scrubland / Thicket       □ Scrubland / Thicket       □ Scrubland / Thicket         □ Forest       □ Forest       □ Forest    No defined o.a.: water & air temp.; defined banks?; feature width; wetted width; culverts? (measurements); barriers to fish migration; seeps; ponds; amphibians; terrestrial crayfish; etc.) No defined banks observed at the upstream section of this reach. Minor flows observed throughout. Substrate is comprised of clay and silt with lesser amounts of sand. Could not measure upstream wetted and feature width due to lack of definition. Reach became more defined in the downstream section near the property line to the north due to surficial runoff from agricultural field. Flows increased in the downstream section (~0.10 m/S). Wetted width	-	on			
□ Lawn □ Lawn □ Lawn □ Lawn □ Cropped Land □ Meadow □ Meadow □ Meadow □ Scrubland / Thicket □ Scrubland / Thicket □ Scrubland / Thicket □ Forest □ Forest □ Forest □ Forest □ Forest □ Thicket □ Scrubland / Thicket □ Scrubland / Thicket □ Scrubland / Thicket □ Scrubland / Thicket □ Forest □ Thicket □ Forest □ Forest □ Thicket □ Scrubland / Thicket □ S					
Meadow		=			
Scrubland / Thicket Scrubl			Cropped Land	$\boxtimes$	Cropped Land
Notes: (include o.a.: water & air temp.; defined banks?; feature width; wetted width; culverts? (measurements); barriers to fish migration; seeps; ponds; amphibians; terrestrial crayfish; etc.)  No defined banks observed at the upstream section of this reach. Minor flows observed throughout. Substrate is comprised of clay and silt with lesser amounts of sand. Could not measure upstream wetted and feature width due to lack of definition. Reach became more defined in the downstream section near the property line to the north due to surficial runoff from agricultural field. Flows increased in the downstream section (~0.10 m/S). Wetted width	☐ Meadow		Meadow		_
Notes: (include o.a.: water & air temp.; defined banks?; feature width; wetted width; culverts? (measurements); barriers to fish migration; seeps; ponds; amphibians; terrestrial crayfish; etc.)  No defined banks observed at the upstream section of this reach. Minor flows observed throughout. Substrate is comprised of clay and silt with lesser amounts of sand. Could not measure upstream wetted and feature width due to lack of definition. Reach became more defined in the downstream section near the property line to the north due to surficial runoff from agricultural field. Flows increased in the downstream section (~0.10 m/S). Wetted width	<del></del>			_	
	No defined banks ob throughout. Substrat measure upstream v defined in the downs from agricultural field	seeps; ponds; ampleserved at the up the is comprised of the control of the comprised of the compression of the control of the	hibians; terrestrial of estream section of of clay and silt we re width due to la ear the property ed in the downs	orayfish; etc.) of this reach. Minor ith lesser amounts ack of definition. Ro line to the north du	r flows observed of sand. Could not each became more ue to surficial runoff

<b>S</b> Stan	itec		ι	Inconsti Featu	rained H ire Asse	eadwate ssment	er Draina Field Fo	age orm
Photos: 323	31, 3234, 3235							



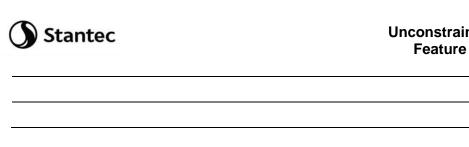
	400004050			A = =: 1 4 2047
Project Number:	160961352	Date:	_	April 4, 2017
Staff Name:	Uskov, Faiella	Time:	_	10:20
Reach ID (use map):	3	Weather (current):		Overcast,
(Sub)Watershed:		Rainfall (72 hours p	orior):	
	Uppers Quarry		_	
Location:	ON)			
Flow Condition				
☐ No Surface Water	(dry)		/ Minima	al (<0.5 l/s)
<ul><li>Standing Water</li></ul>		☐ Surface Flow	Substa	intial (>0.5 l/s)
☐ Interstitial Flow (su	bsurface water in t	the voids of a coarse substrate)		
Feature Type				
☐ Defined Natural C	hannel			
☐ Channelized		☐ Online pond	outlet	
☐ Multi-Thread (>1 C	Channel)	☐ Roadside Di	tch	
		☐ Tiled Draina	_	
Swale (a shallow tro	ough-like depression	on that carries water mainly during r	ainstorm	s or snow melts)
Riparian Classification				
0m-1.5m		1.5m-10m		10m-30m
□ None		None		None
Lawn		Lawn		Lawn
	$\boxtimes$	Cropped Land		Cropped Land
<ul><li>☐ Meadow</li><li>☐ Scrubland / Thicket</li></ul>	\ <u></u>	Meadow Scrubland / Thicket		Meadow Scrubland / Thicket
_	et 📙		Ш	
Earact		Forest		
☐ Forest		Forest		Forest
	_			
Notes: (include o.a.: wate	er & air temp.; defir	Forest  ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.)	vidth; cul	
Notes: (include o.a.: wate barriers to fish migration; s	er & air temp.; defir seeps; ponds; amp	ned banks?; feature width; wetted w hibians; terrestrial crayfish; etc.)		verts? (measurements);
Notes: (include o.a.: wate barriers to fish migration; so	er & air temp.; defin seeps; ponds; amp und in the upstr	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial f	lows (~	verts? (measurements);  0.08 m/s) through a
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fie	er & air temp.; defin seeps; ponds; amp und in the upstr eld. Water deptl	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial for ranged from 0.05 to 0.08 r	lows (~ n. Subs	verts? (measurements); 0.08 m/s) through a strate is comprised
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fie mainly of clay, with le	er & air temp.; defin seeps; ponds; amp und in the upstr eld. Water deptl sser amounts o	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial f	lows (~ n. Subs mes a	verts? (measurements);  0.08 m/s) through a strate is comprised boorly defined swale
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fie mainly of clay, with le downstream, in which due to increased wate	er & air temp.; defing seeps; ponds; amp und in the upstreld. Water depth sser amounts of the landowner er velocity and b	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial for sanged from 0.05 to 0.08 rows silt and sand. Feature becomes attempted to plant. Feature decomes more defined. Average	lows (~ n. Subs mes a   ure is e age we	verts? (measurements);  0.08 m/s) through a strate is comprised coorly defined swale experiencing erosion tted width in the
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fit mainly of clay, with le downstream, in which due to increased wate downstream section i	er & air temp.; define seeps; ponds; ampund in the upstreld. Water depthesser amounts on the landowner er velocity and be sand fea	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial fins ranged from 0.05 to 0.08 rows silt and sand. Feature becomes attempted to plant. Feat pecomes more defined. Averature width is approximately 1	lows (~ n. Subs mes a   ure is e age we .15 m.	verts? (measurements);  0.08 m/s) through a strate is comprised coorly defined swale experiencing erosion tted width in the Water depth is
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fit mainly of clay, with le downstream, in which due to increased wate downstream section i	er & air temp.; define seeps; ponds; ampund in the upstreld. Water depthesser amounts on the landowner er velocity and be sand fea	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial for sanged from 0.05 to 0.08 rows silt and sand. Feature becomes attempted to plant. Feature decomes more defined. Average	lows (~ n. Subs mes a   ure is e age we .15 m.	verts? (measurements);  0.08 m/s) through a strate is comprised coorly defined swale experiencing erosion tted width in the Water depth is
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fit mainly of clay, with le downstream, in which due to increased wate downstream section i	er & air temp.; define seeps; ponds; ampund in the upstreld. Water depthesser amounts on the landowner er velocity and be sand fea	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial fins ranged from 0.05 to 0.08 rows silt and sand. Feature becomes attempted to plant. Feat pecomes more defined. Averature width is approximately 1	lows (~ n. Subs mes a   ure is e age we .15 m.	verts? (measurements);  0.08 m/s) through a strate is comprised coorly defined swale experiencing erosion tted width in the Water depth is
Notes: (include o.a.: wate barriers to fish migration; s No defined feature for planted agricultural fit mainly of clay, with le downstream, in which due to increased wate downstream section i	er & air temp.; define seeps; ponds; ampund in the upstreld. Water depthesser amounts on the landowner er velocity and be sand fea	ned banks?; feature width; wetted whibians; terrestrial crayfish; etc.) ream section. Minor surficial fins ranged from 0.05 to 0.08 rows silt and sand. Feature becomes attempted to plant. Feat pecomes more defined. Averature width is approximately 1	lows (~ n. Subs mes a   ure is e age we .15 m.	verts? (measurements);  0.08 m/s) through a strate is comprised coorly defined swale experiencing erosion tted width in the Water depth is



Photos:	3226, 32	32, 3238,	3242				



Project Number: Staff Name: Reach ID (use map): (Sub)Watershed: Location:	Uskov, Faiella  4  Uppers Quarry ON)	Rai		- -	April 4, 2017 11:04 Overcast,
<ul><li>☐ No Surface Water</li><li>☐ Standing Water</li><li>☐ Interstitial Flow (su</li></ul>		⊠ □ he voids of a coar	Surface Flow Mi Surface Flow Surse substrate)		•
Feature Type  ☐ Defined Natural Ch ☐ Channelized ☐ Multi-Thread (>1 Ch ☐ No Defined Feature ☐ Swale (a shallow tree	hannel) e		Online pond out Roadside Ditch Tiled Drainage		s or snow melts)
Riparian Classification	1	4 Em	10m		40m 20m
Om-1.5m  ☐ None ☐ Lawn ☐ Cropped Land ☐ Meadow ☐ Scrubland / Thicke ☐ Forest	t	None Lawn Cropped Land Meadow Scrubland / Tr			10m-30m None Lawn Cropped Land Meadow Scrubland / Thicket Forest
Notes: (include o.a.: water barriers to fish migration; some survey started at appears to originate in feature located. Very exhibits swale-like charthe feature width rang water velocity is estimated and cobbine sand, gravel and cobbine sand.	the upstream so a large, pooled minimal flows of aracteristics. Avers from 0.08 monated at 0.05 monated at 0.0	hibians; terrestrial ection near and area of stand bserved in this verage wetted to 1.0 m. Wat vs. Substrate is	crayfish; etc.) active farm and pling water due to area. Traversing width ranges from er depth ranges famainly clay and	presignor nor n 0.0 rom silt v	umed pasture. It off. No defined thwest, the feature or5 m to 0.85 m and 0.05 to 0.07 m and



Pnotos: (	3251-327	1					



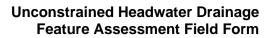
Staff Read (Sub	ect Number: Name: ch ID (use map): )Watershed: tion:  Condition No Surface Water Standing Water	160961352 Uskov, Faiella 5 Uppers Quarry ON)	(Thorold,				
	Interstitial Flow (su	bsurface water in th	he voids of a	_			
Feat	ure Type Defined Natural Ch Channelized Multi-Thread (>1 Ch No Defined Featur Swale (a shallow tro	channel) e	n that carries	   water	Wetland Online pond outlet Roadside Ditch Tiled Drainage mainly during rainstor		
Ripa	rian Classificatior 0m-1.5m	1	1.	5m-10	m	10m-30m	
	None Lawn Cropped Land Meadow Scrubland / Thicke Forest	t	None Lawn Cropped L Meadow Scrubland Forest	and		<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li><li>Scrubland / Thicket</li></ul>	
	es: (include o.a.: wate ers to fish migration; s					culverts? (measurements);	
wide		•	•		•	oproximately 0.5 m	
estir area	nated at 0.04 m/s	roximately 0.6 n throughout this entire swale-like	m wetted was feature. So feature tra	ridth a Substr	nd 0.7 feature wid ate is mostly silt a		



Photos:	3272-328	0					
	1						



Project Number:	160961352	Date		April 4, 2017
Staff Name:	Uskov, Faiella	Time		11:42
	6			Overcast,
Reach ID (use map):			ther (current):	·
(Sub)Watershed:	Uppers Quarry (		fall (72 hours prior):	
Location:	ON)			
Flow Condition				
☐ No Surface Water	(dry)	$\boxtimes$	Surface Flow Minin	nal (<0.5 l/s)
☐ Standing Water			Surface Flow Subs	tantial (>0.5 l/s)
☐ Interstitial Flow (su	ıbsurface water in th	e voids of a coarse	e substrate)	
Feature Type				
<ul> <li>Defined Natural C</li> </ul>	hannel		Wetland	
<ul><li>☐ Channelized</li><li>☐ Multi-Thread (&gt;1 0</li></ul>	Shannal)		Online pond outlet Roadside Ditch	
<ul><li>☐ Multi-Thread (&gt;1 €</li><li>☐ No Defined Feature</li></ul>	,		Tiled Drainage	
		_	mainly during rainstor	ms or snow melts)
Riparian Classification	า			
0m-1.5m		1.5m-10	_	10m-30m
<b>0m-1.5m</b>		None		None
0m-1.5m			_	None Lawn
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow		None Lawn Cropped Land Meadow		<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li></ul>
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicker	et	None Lawn Cropped Land Meadow Scrubland / Thic		<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li><li>Scrubland / Thicket</li></ul>
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow	et	None Lawn Cropped Land Meadow		<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li></ul>
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicker	er & air temp.; define seeps; ponds; amphoron of this swale, on to 1.5 m. Ave s. Little definition clay with lesser a	None Lawn Cropped Land Meadow Scrubland / Thic Forest  ed banks?; feature ibians; terrestrial contents wetted width ra erage water dep throughout this mounts of silt w	width; wetted width; curayfish; etc.) anges from 1.0 m tooth is 0.13 m and was feature. Substrate with sparse pockets	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Liverts? (measurements);  1.2 m and feature vater velocity was in this feature is sof cobble. Similar





**Photos:** 3282, 3285, 3289

ı					



Project Number:  Staff Name:  Reach ID (use map):  (Sub)Watershed:  Location:  The Surface Water (dry)  160961352  Uskov, Faiella  7  Uskov, Faiella  7  Uppers Quarry ON)		Raii				
<ul><li>□ No Surface Water</li><li>□ Standing Water</li><li>□ Interstitial Flow (sure</li></ul>		⊠ □ he voids of a coars	Surface Flow Minii Surface Flow Subs se substrate)	,		
Feature Type  ☐ Defined Natural Ch ☐ Channelized ☐ Multi-Thread (>1 C ☐ No Defined Feature ☐ Swale (a shallow tree	hannel) e	□ □ □ n that carries wate	Wetland Online pond outlet Roadside Ditch Tiled Drainage er mainly during rainsto			
Riparian Classification	1	4.5	0	40 20		
Om-1.5m  ☐ None ☐ Lawn ☐ Cropped Land ☑ Meadow ☐ Scrubland / Thicke ☐ Forest	□ □ ⊠ t	None Lawn Cropped Land Meadow Scrubland / The	[   [   [   cket	10m-30m  ☐ None ☐ Lawn ☑ Cropped Land ☐ Meadow ☐ Scrubland / Thicket ☐ Forest		
Notes: (include o.a.: water barriers to fish migration; so Feature originates in I road. Minimal flows (0 Townline Road. This so planted agricultural fiewidth ranges from 0.7 widths ranging from 0 silt with sparse sand a	eeps; ponds; amplands upstream 0.06 m/s) throug section flows the ld. Upstream v5 m to 0.95 m. 1.95 m to 1.1 m.	hibians; terrestrial of Thorold Tov th a 0.5 m plast rough a small r vetted width rat The downstrea Throughout, st	crayfish; etc.) unline Road but the ic corrugated pipe neadow before trav nges from 0.75 m a m section widens s	e survey started at the under Thorold versing through a and 0.85 m and feature slightly with feature		



Photos:	3384, 33	886, 3380					



Project Number:	160961352	Date	:	April 4, 2017
Staff Name:	Uskov, Faiella	Time	:	12:55
Reach ID (use map):	8	Wear	ther (current):	Overcast
(Sub)Watershed:			fall (72 hours prior):	
Location:	Uppers Quarry ON)			
Flow Condition  No Surface Water Standing Water Interstitial Flow (su		⊠ □ he voids of a coarse	Surface Flow Minim Surface Flow Subst e substrate)	· ·
Feature Type  ☐ Defined Natural Cl ☐ Channelized ☐ Multi-Thread (>1 Cl ☐ No Defined Featur ☐ Swale (a shallow tro	Channel) re	□ □ □ on that carries water	Wetland Online pond outlet Roadside Ditch Tiled Drainage mainly during rainstori	ns or snow melts)
_ ,				
Riparian Classification	1	1 5m 16	lm	10m 20m
· · · · · · · · · · · · · · · · · · ·	n 🗆	<b>1.5m-1</b> ( None	)m	<b>10m-30m</b> None
Riparian Classification 0m-1.5m	_			None
Riparian Classification 0m-1.5m  None		None		None Lawn
Riparian Classification 0m-1.5m  None Lawn		None Lawn		None Lawn Cropped Land
Riparian Classification 0m-1.5m  None Lawn Cropped Land		None Lawn Cropped Land		None Lawn Cropped Land
Riparian Classification Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Notes: (include o.a.: wate barriers to fish migration; strictly started at	er & air temp.; define seeps; ponds; amportale-like appearate Wetted and feato 0.10 m and verse.	None Lawn Cropped Land Meadow Scrubland / Thick Forest  med banks?; feature hibians; terrestrial cone ne Road at a 0.8 nce, with very mature width range	width; wetted width; curayfish; etc.)  5 m corrugated stephinimal definition, in es from 0.6 m to 0.7 mated at 0.06 m/s.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Wester (measurements);  el pipe. The upstream which the farmer has 7 m. Water depth
Riparian Classification Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicker Forest  Notes: (include o.a.: wate barriers to fish migration; some section exhibits a swaplanted winter wheat. ranges from 0.08 m to	er & air temp.; define seeps; ponds; amportale-like appearate Wetted and feato 0.10 m and verse.	None Lawn Cropped Land Meadow Scrubland / Thick Forest  med banks?; feature hibians; terrestrial cone ne Road at a 0.8 nce, with very mature width range	width; wetted width; curayfish; etc.)  5 m corrugated stephinimal definition, in es from 0.6 m to 0.7 mated at 0.06 m/s.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Wester (measurements);  el pipe. The upstream which the farmer has 7 m. Water depth
Riparian Classification Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicker Forest  Notes: (include o.a.: wate barriers to fish migration; some section exhibits a swaplanted winter wheat. ranges from 0.08 m to	er & air temp.; define seeps; ponds; amportale-like appearate Wetted and feato 0.10 m and verse.	None Lawn Cropped Land Meadow Scrubland / Thick Forest  med banks?; feature hibians; terrestrial cone ne Road at a 0.8 nce, with very mature width range	width; wetted width; curayfish; etc.)  5 m corrugated stephinimal definition, in es from 0.6 m to 0.7 mated at 0.06 m/s.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Wester (measurements);  el pipe. The upstream which the farmer has 7 m. Water depth

<b>Stantec</b>							Unconstrained Headwater Drainage Feature Assessment Field Form				
											<u> </u>
Photos:	3337, 33	39, 3347,	3353								



		400004050					A - 31 4 0047		
Project Numl	ber:	160961352		Date		_	April 4, 2017  13:12		
Staff Name:		Uskov, Faiella		Time	:				
Reach ID (us	O (use map):			Weather (current):			Overcast,		
(Sub)Waters	shed:			Rainf	Rainfall (72 hours prior):				
	•	Uppers Quarry	(Thorold,			<i>'</i> –			
Location:	-	ON)							
Flow Condit	tion								
	face Water (	(dry)		$\boxtimes$	Surface Flow M		•		
	ng Water				Surface Flow Su	ubsta	ntial (>0.5 l/s)		
☐ Interstit	tial Flow (sub	osurface water in t	he voids of a	coarse	e substrate)				
Feature Typ	<b>1</b>								
	d Natural Ch	annel			Wetland				
☐ Channe	elized				Online pond out	tlet			
☐ Multi-Th	hread (>1 C	hannel)			Roadside Ditch				
No Defi	ined Feature	Э			Tiled Drainage				
⊠ Swale (	(a shallow tro	ugh-like depressio	n that carries	water	mainly during rains	storms	s or snow melts)		
Riparian Cla	assification								
Riparian Cla	assification 0m-1.5m	ı	1.	5m-10	)m		10m-30m		
-			1.s None	5m-10	)m		<b>10m-30m</b> None		
□ None □ Lawn	0m-1.5m		None Lawn		)m		None Lawn		
<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Croppe</li></ul>	<b>0m-1.5m</b> ed Land		None Lawn Cropped L		)m		None Lawn Cropped Land		
<ul><li>□ None</li><li>□ Lawn</li><li>☑ Croppe</li><li>□ Meadow</li></ul>	<b>0m-1.5m</b> ed Land w		None Lawn Cropped La Meadow	and			None Lawn Cropped Land Meadow		
<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Croppe</li><li>□ Meadov</li><li>□ Scrubla</li></ul>	<b>0m-1.5m</b> ed Land		None Lawn Cropped La Meadow Scrubland	and			None Lawn Cropped Land Meadow Scrubland / Thicket		
<ul><li>□ None</li><li>□ Lawn</li><li>☑ Croppe</li><li>□ Meadow</li></ul>	<b>0m-1.5m</b> ed Land w		None Lawn Cropped La Meadow	and			None Lawn Cropped Land Meadow		
<ul><li>□ None</li><li>□ Lawn</li><li>☑ Croppe</li><li>□ Meadov</li><li>□ Scrubla</li><li>□ Forest</li></ul>	<b>0m-1.5m</b> ed Land w and / Thicke	□ ⊠ t	None Lawn Cropped La Meadow Scrubland Forest	and / Thic	ket		None Lawn Cropped Land Meadow Scrubland / Thicket Forest		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest	om-1.5m  ed Land w  and / Thicker  de o.a.: wate	□ ⊠ t	None Lawn Cropped Lawn Meadow Scrubland Forest	and / Thic	ket width; wetted width		None Lawn Cropped Land Meadow Scrubland / Thicket		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclu- barriers to fish	om-1.5m  ed Land w  and / Thicker de o.a.: wate	t  or & air temp.; define eeps; ponds; ampli	None Lawn Cropped Lawn Meadow Scrubland Forest  med banks?; fehibians; terres	and / Thic eature	ket width; wetted width rayfish; etc.)	h; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements);		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (incluing barriers to fish) The upstream	om-1.5m  ed Land w  and / Thicker  de o.a.: wate in migration; so	t	None Lawn Cropped Lawn Meadow Scrubland Forest  med banks?; fehibians; terrestoriginates a	and / Thic eature strial cases a p	ket width; wetted width rayfish; etc.) oonded area fro	h; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements); cent rains. It outflows		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish The upstreathrough a verience)	om-1.5m  ed Land w  and / Thicker de o.a.: wate in migration; so am section ery ill-defin	t	None Lawn Cropped Lawn Meadow Scrubland Forest  med banks?; fehibians; terresoriginates are in a plan	and / Thic eature strial coas a pated a	ket  width; wetted width rayfish; etc.)  oonded area fro gricultural field	h; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclue barriers to fish The upstreat through a very approximate	om-1.5m  ed Land w  and / Thicker  de o.a.: wate n migration; so am section ery ill-defin ely 0.20 m	t	None Lawn Cropped Lawn Meadow Scrubland Forest  Med banks?; fethibians; terrest  originates are in a plant velocities o	and / Thic eature strial coas a pated a bserv	width; wetted width rayfish; etc.) oonded area fro gricultural field ved at the time o	h; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Perts? (measurements); Cent rains. It outflows re wetted width is e survey. Moving		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish The upstreat through a very approximate downstream	om-1.5m  ed Land w  and / Thicker  de o.a.: wate n migration; so am section ery ill-defin ely 0.20 m n (southeas	t	None Lawn Cropped Lawn Meadow Scrubland Forest  med banks?; fethibians; terrest originates are in a plantyelocities of ains minim	and / Thic eature strial class a pated a bserval de	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t	h; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish) The upstreathrough a verapproximate downstrean main chann	om-1.5m  ed Land w  and / Thicker  de o.a.: wate migration; so am section ery ill-defin ely 0.20 m n (southeas nel. In the d	t	None Lawn Cropped Lawn Scrubland Forest  med banks?; fehibians; terrest originates are in a plant velocities of ains minimetion, wette	and / Thic eature strial coas a pated a bserval dei	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t th ranges from	m reconstitution when the condition of t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Perts? (measurements); Cent rains. It outflows re wetted width is e survey. Moving confluence with the		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish) The upstreathrough a verapproximate downstrean main chann	om-1.5m  ed Land w  and / Thicker  de o.a.: wate migration; so am section ery ill-defin ely 0.20 m n (southeas nel. In the d	t	None Lawn Cropped Lawn Scrubland Forest  med banks?; fehibians; terrest originates are in a plant velocities of ains minimetion, wette	and / Thic eature strial coas a pated a bserval dei	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t th ranges from	m reconstitution when the condition of t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is e survey. Moving onfluence with the to 0.75 and feature		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish) The upstreathrough a verapproximate downstrean main chann	om-1.5m  ed Land w  and / Thicker  de o.a.: wate migration; so am section ery ill-defin ely 0.20 m n (southeas nel. In the d	t	None Lawn Cropped Lawn Scrubland Forest  med banks?; fehibians; terrest originates are in a plant velocities of ains minimetion, wette	and / Thic eature strial coas a pated a bserval dei	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t th ranges from	m reconstitution when the condition of t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is e survey. Moving onfluence with the to 0.75 and feature		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish) The upstreathrough a verapproximate downstrean main chann	om-1.5m  ed Land w  and / Thicker  de o.a.: wate migration; so am section ery ill-defin ely 0.20 m n (southeas nel. In the d	t	None Lawn Cropped Lawn Scrubland Forest  med banks?; fehibians; terrest originates are in a plant velocities of ains minimetion, wette	and / Thic eature strial coas a pated a bserval dei	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t th ranges from	m reconstitution when the condition of t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is e survey. Moving onfluence with the to 0.75 and feature		
□ None □ Lawn □ Croppe □ Meadov □ Scrubla □ Forest  Notes: (inclubarriers to fish) The upstreathrough a verapproximate downstrean main chann	om-1.5m  ed Land w  and / Thicker  de o.a.: wate migration; so am section ery ill-defin ely 0.20 m n (southeas nel. In the d	t	None Lawn Cropped Lawn Scrubland Forest  med banks?; fehibians; terrest originates are in a plant velocities of ains minimetion, wette	and / Thic eature strial coas a pated a bserval dei	width; wetted width rayfish; etc.) conded area fro gricultural field red at the time of finition prior to t th ranges from	m reconstitution when the constitution of the	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  rerts? (measurements); cent rains. It outflows re wetted width is e survey. Moving onfluence with the to 0.75 and feature		

Stantec	Unconstra Featu	ained Headwate re Assessment	er Drainage Field Form
<b>Photos:</b> 3355, 3358, 3363			



	160961352			April 4, 2017		
Project Number:		Date:	_	12:26		
Staff Name:	Uskov, Faiella	Time:				
Reach ID (use map)	: 10	Weather (curren	ıt):	Overcast,		
(Sub)Watershed:		Rainfall (72 hou	rs prior):			
Location:	Uppers Quarry ON)		· / <u>-</u>			
Location.						
Flow Condition  No Surface Wa	ater (drv)	⊠ Surface FI	low Minima	al (<0.5 l/s)		
☐ Standing Wate	· • ·			intial (>0.5 l/s)		
_		the voids of a coarse substrate)		,		
Feature Type						
□ Defined Natura	al Channel	□ Wetland				
☐ Channelized		□ Online por				
☐ Multi-Thread (>	•	☐ Roadside				
□ No Defined Fea		☐ Tiled Drain	•	(t-)		
⊠ Swale (a shallo	w trougn-like depression	on that carries water mainly durin	ig rainstorm	s or snow meits)		
	tion					
Pinarian Classifica						
Riparian Classifica 0m-1.5		1.5m-10m		10m-30m		
-		<b>1.5m-10m</b> None		<b>10m-30m</b> None		
0m-1.56  □ None □ Lawn	m	None Lawn		None Lawn		
0m-1.50 □ None □ Lawn □ Cropped Land	<b>m</b> □ □	None Lawn Cropped Land		None Lawn Cropped Land		
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow	m	None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow		
Om-1.50  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th	m	None Lawn Cropped Land Meadow Scrubland / Thicket		None Lawn Cropped Land Meadow Scrubland / Thicket		
Om-1.50  □ None □ Lawn □ Cropped Land □ Meadow	m	None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow		
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.:	m	None Lawn Cropped Land Meadow Scrubland / Thicket		None Lawn Cropped Land Meadow Scrubland / Thicket Forest		
Om-1.50  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration	m	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ned banks?; feature width; wetter	d width; culv	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);		
Om-1.50  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration of the subjective of the subject	icket  water & air temp.; definant; seeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter thibians; terrestrial crayfish; etc.) ane Road and continued no red through a 0.6 m corruga	d width; culvortheast to	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements); the main channel. ic culvert. The		
Om-1.50  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration of the subject upstream section in the subject	icket  water & air temp.; definent; seeps; ponds; amp d at Thorold Townlifect lands is convey is considered a sw	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corrugale that has been cropped	d width; cultortheast to ated plast through. I	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements); the main channel. ic culvert. The Minimal flow		
None  □ Lawn  □ Cropped Land  □ Meadow  □ Scrubland / Th  □ Forest  Notes: (include o.a.: barriers to fish migration of the subject of the subject of the subject of the survey of the subject of the survey of the subject of the sub	water & air temp.; define the considered a switch summer to a switch the considered a switch and size the considered as well as the considered as	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corrugal ale that has been cropped Wetted width ranges from	d width; cultortheast to ated plast through. I 0.85 m to	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements); the main channel. ic culvert. The Minimal flow 1.10 m and the		
None  □ Lawn  □ Cropped Land  □ Meadow  □ Scrubland / Th  □ Forest  Notes: (include o.a.: barriers to fish migration of the subject of the subject of the subject of the survey started of the subject of the survey of the survey of the survey of the subject of the survey of the	water & air temp.; definence; seeps; ponds; ample dat Thorold Townlifect lands is convey is considered a swiximately 0.10 m/s. es from 0.85 m to	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) me Road and continued no med through a 0.6 m corrugal ale that has been cropped Wetted width ranges from 1.2 m. Water depth ranges	ortheast to ated plast through. I 0.85 m to from 0.05	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Verts? (measurements);  the main channel. ic culvert. The Minimal flow 0.1.10 m and the 5 m to 0.11 m. The		
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration of the survey started of the survey started of the survey started of the survey widest section of the survey started of	water & air temp.; definent; seeps; ponds; ample dat Thorold Townlifect lands is convey sonsidered a switch as from 0.85 m to this feature is located.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corruga ale that has been cropped Wetted width ranges from 1.2 m. Water depth ranges ed near the confluence with	ortheast to ated plast through. I 0.85 m to from 0.05	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Verts? (measurements);  the main channel. ic culvert. The Minimal flow 0.1.10 m and the 5 m to 0.11 m. The		
None  □ Lawn  □ Cropped Land  □ Meadow  □ Scrubland / Th  □ Forest  Notes: (include o.a.: barriers to fish migration of the subject of the subject of the subject of the survey started of the subject of the survey of the survey of the survey of the subject of the survey of the	water & air temp.; definent; seeps; ponds; ample dat Thorold Townlifect lands is convey sonsidered a switch as from 0.85 m to this feature is located.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corruga ale that has been cropped Wetted width ranges from 1.2 m. Water depth ranges ed near the confluence with	ortheast to ated plast through. I 0.85 m to from 0.05	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Verts? (measurements);  the main channel. ic culvert. The Minimal flow 0.1.10 m and the 5 m to 0.11 m. The		
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration of the survey started of the survey started of the survey started of the survey widest section of the survey started of	water & air temp.; definent; seeps; ponds; ample dat Thorold Townlifect lands is convey sonsidered a switch as from 0.85 m to this feature is located.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corruga ale that has been cropped Wetted width ranges from 1.2 m. Water depth ranges ed near the confluence with	ortheast to ated plast through. I 0.85 m to from 0.05	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Verts? (measurements);  the main channel. ic culvert. The Minimal flow 0.1.10 m and the 5 m to 0.11 m. The		
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Th □ Forest  Notes: (include o.a.: barriers to fish migration of the survey started of the survey started of the survey started of the survey widest section of the survey started of	water & air temp.; definent; seeps; ponds; ample dat Thorold Townlifect lands is convey sonsidered a switch as from 0.85 m to this feature is located.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetter hibians; terrestrial crayfish; etc.) ine Road and continued no red through a 0.6 m corruga ale that has been cropped Wetted width ranges from 1.2 m. Water depth ranges ed near the confluence with	ortheast to ated plast through. I 0.85 m to from 0.05	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Verts? (measurements);  the main channel. ic culvert. The Minimal flow 0.1.10 m and the 5 m to 0.11 m. The		

Sta	Stantec							Jnconstrained Headwater Drainage Feature Assessment Field Form				
Photos:	3307, 33	09, 3313,	3321									



	160961352			April 4, 2017	
Project Number:	Uskov, Faiella	Date:		12:47	
Staff Name:		Time:			
Reach ID (use map):	: <u>11</u>	Weath	ner (current):	Overcast,	
(Sub)Watershed:		Rainfa	all (72 hours prior):		
Location:	Uppers Quarry	(Thorold,			
Location.	ON)				
Flow Condition					
☐ No Surface War	ter (dry)	$\boxtimes$	Surface Flow Minim	nal (<0.5 l/s)	
<ul><li>Standing Water</li></ul>			Surface Flow Subst	antial (>0.5 l/s)	
☐ Interstitial Flow	(subsurface water in t	he voids of a coarse	substrate)		
Facture True					
Feature Type	l Channel	П	Wetland		
☐ Channelized	- Criainioi		Online pond outlet		
☐ Multi-Thread (>	1 Channel)		Roadside Ditch		
☐ No Defined Fea	,		Tiled Drainage		
Swale (a shallow	v trough-like depression	n that carries water i	mainly during rainstor	ms or snow melts)	
Diversion Oleraificat	<b></b>				
Riparian Classificat		1.5m-10	m	10m-30m	
Riparian Classificat 0m-1.5n		<b>1.5m-10</b> None	<b>m</b>	<b>10m-30m</b> None	
0m-1.5n	n			None	
0m-1.5n  ☐ None	m 	None		None Lawn	
Om-1.5n  None Lawn Cropped Land Meadow	m	None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	
Om-1.5n  None Lawn Cropped Land Meadow Scrubland / Thic	m	None Lawn Cropped Land Meadow Scrubland / Thick		None Lawn Cropped Land Meadow Scrubland / Thicket	
Om-1.5n  None Lawn Cropped Land Meadow	m	None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	
Om-1.5n  None Lawn Cropped Land Meadow Scrubland / Thic	n	None Lawn Cropped Land Meadow Scrubland / Thick		None Lawn Cropped Land Meadow Scrubland / Thicket	
Om-1.5n  None Lawn Cropped Land Meadow Scrubland / Thick Forest  Notes: (include o.a.: v	n	None Lawn Cropped Land Meadow Scrubland / Thick Forest	ket	None Lawn Cropped Land Meadow Scrubland / Thicket	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ⊠ Forest	n	None Lawn Cropped Land Meadow Scrubland / Thick Forest	ket	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
Om-1.5n  None  Lawn  Cropped Land  Meadow  Scrubland / Thick Forest  Notes: (include o.a.: was barriers to fish migration)  Flow is generated of	cket  water & air temp.; definen; seeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thick Forest  ned banks?; feature whibians; terrestrial crast	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);  upstream section of	
Om-1.5n  None Lawn Cropped Land Meadow Scrubland / Thick Forest  Notes: (include o.a.: was barriers to fish migration the survey starts in	cket  water & air temp.; definant; seeps; ponds; ampon lands to the wen a hardwood wood	None Lawn Cropped Land Meadow Scrubland / Thick Forest  ned banks?; feature whibians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The compline Road. The	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);  upstream section of efeature in the	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ☑ Forest  Notes: (include o.a.: v barriers to fish migratio  Flow is generated of the survey starts in upstream section is	cket  water & air temp.; defining, seeps; ponds; ampon lands to the wen a hardwood woods approximately 0.	None Lawn Cropped Land Meadow Scrubland / Thick Forest  med banks?; feature with the control of	width; wetted width; cuayfish; etc.) vnline Road. The compline Road. The downline Road. The downline Road.	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);  upstream section of e feature in the ature width of 1.75 m.	
Om-1.5n  None  Lawn  Cropped Land  Meadow  Scrubland / Thick  Forest  Notes: (include o.a.: wheat is to fish migration the survey starts in upstream section is Water depths range	cket  water & air temp.; definent; seeps; ponds; ampon lands to the ween a hardwood woods approximately 0.ed from 0.05 to 0.	None Lawn Cropped Land Meadow Scrubland / Thick Forest  med banks?; feature with the control of	width; wetted width; cuayfish; etc.) vnline Road. The cownline Road. The downline Road. The ed width) with a fealocities estimated	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ⋈ Forest  Notes: (include o.a.: water to fish migration) Flow is generated of the survey starts in upstream section is Water depths ranged downstream, the feet	cket  water & air temp.; definen; seeps; ponds; ampon lands to the wen a hardwood woods approximately 0. ed from 0.05 to 0. eature is an unveg	None Lawn Cropped Land Meadow Scrubland / Thick Forest  and banks?; feature with bians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The countine Road. The downline Road. T	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	
Om-1.5n  None  Lawn  Cropped Land  Meadow  Scrubland / Thick  Forest  Notes: (include o.a.: wheat is to fish migration the survey starts in upstream section is Water depths range	cket  water & air temp.; definen; seeps; ponds; ampon lands to the wen a hardwood woods approximately 0. ed from 0.05 to 0. eature is an unveg	None Lawn Cropped Land Meadow Scrubland / Thick Forest  and banks?; feature with bians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The countine Road. The downline Road. T	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ⋈ Forest  Notes: (include o.a.: water to fish migration) Flow is generated of the survey starts in upstream section is Water depths ranged downstream, the feet	cket  water & air temp.; definen; seeps; ponds; ampon lands to the wen a hardwood woods approximately 0. ed from 0.05 to 0. eature is an unveg	None Lawn Cropped Land Meadow Scrubland / Thick Forest  and banks?; feature with bians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The countine Road. The downline Road. T	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ⋈ Forest  Notes: (include o.a.: water to fish migration) Flow is generated of the survey starts in upstream section is Water depths ranged downstream, the feet	cket  water & air temp.; definen; seeps; ponds; ampon lands to the wen a hardwood woods approximately 0. ed from 0.05 to 0. eature is an unveg	None Lawn Cropped Land Meadow Scrubland / Thick Forest  and banks?; feature with bians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The countine Road. The downline Road. T	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	
Om-1.5n  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic ⋈ Forest  Notes: (include o.a.: water to fish migration) Flow is generated of the survey starts in upstream section is Water depths ranged downstream, the feet	cket  water & air temp.; definen; seeps; ponds; ampon lands to the wen a hardwood woods approximately 0. ed from 0.05 to 0. eature is an unveg	None Lawn Cropped Land Meadow Scrubland / Thick Forest  and banks?; feature with bians; terrestrial crast st of Thorold Towdlot at Thorold Towdlot	width; wetted width; cuayfish; etc.) vnline Road. The countine Road. The downline Road. T	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West's (measurements);  Supstream section of the feature in the lature width of 1.75 m. at 0.07 m/s. Moving	

Sta	antec					U	Inconstr Featu	rained H Ire Asse	eadwate ssment	er Draina Field Fo	rm
Photos: 3335, 3332, 3326											



	100001050			A - 1 4 0047		
Project Number:	160961352	Date:	_	April 4, 2017		
Staff Name:	Uskov, Faiella	Time:	<u>-</u>	13:44		
Reach ID (use map):	12	Weathe	er (current):	Overcast		
(Sub)Watershed:		Rainfall	(72 hours prior):			
,	Uppers Quarry		· , <u>-</u>			
Location:	<u>ON)</u>					
Flow Condition						
☐ No Surface Wate	er (dry)		urface Flow Minima			
☐ Standing Water			surface Flow Substa	antial (>0.5 l/s)		
☐ Interstitial Flow (	(subsurface water in t	he voids of a coarse su	ubstrate)			
Feature Type						
☐ Defined Natural	Channel	⊠ V	Vetland			
☐ Channelized		_ C	Online pond outlet			
☐ Multi-Thread (>1	I Channel)	□R	Roadside Ditch			
☐ No Defined Feat	ture	□ T	iled Drainage			
Swale (a shallow	trough-like depression	n that carries water ma	ainly during rainstorm	s or snow melts)		
Pinarian Classificati	ion					
Riparian Classificati 0m-1.5m		1.5m-10m	1	10m-30m		
-		<b>1.5m-10m</b> None		<b>10m-30m</b> None		
0m-1.5m	ı		_			
Om-1.5m  ☐ None ☐ Lawn ☐ Cropped Land	n 	None Lawn Cropped Land		None Lawn Cropped Land		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow		None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic	n	None Lawn Cropped Land Meadow Scrubland / Thicke		None Lawn Cropped Land Meadow Scrubland / Thicket		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow		None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic	n	None Lawn Cropped Land Meadow Scrubland / Thicke		None Lawn Cropped Land Meadow Scrubland / Thicket		
Om-1.5m  None Lawn Cropped Land Meadow Scrubland / Thic	cket	None Lawn Cropped Land Meadow Scrubland / Thicke Forest	t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest		
Om-1.5m  None Lawn Cropped Land Meadow Scrubland / Thic Forest  Notes: (include o.a.: w barriers to fish migration	sket	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray	dth; wetted width; cultifish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration This feature originar	eket	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  ed banks?; feature widhibians; terrestrial cray d feature in the sou	dth; wetted width; culfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration riparian vegetation in the content of the c	eket   rater & air temp.; definition; seeps; ponds; amplites from a wetlandis scrubland/mead	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with this in the soud of	dth; wetted width; cultifish; etc.) uthwest area of the swale has mod	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements); he subject lands. The lerate definition.		
Om-1.5m  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration riparian vegetation in Average wetted wide.)	eket   atter & air temp.; defirent; seeps; ponds; amplites from a wetlandis scrubland/meadith is approximate	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  ed banks?; feature wide hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with wate	dth; wetted width; cul- fish; etc.) uthwest area of the swale has moon	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m.		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration riparian vegetation in Average wetted wid Moving downstream	sket   atter & air temp.; defirent; seeps; ponds; amplites from a wetlandis scrubland/meadith is approximate (north), the feating	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water ure becomes a cro	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration This feature original riparian vegetation in Average wetted widd Moving downstream wetted widths ranging	tes from a wetlandis scrubland/meadith is approximated (north), the feating from 0.75 m to	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water are becomes a croy 0.85 m and depth	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration riparian vegetation in Average wetted wid Moving downstream	tes from a wetlandis scrubland/meadith is approximated (north), the feating from 0.75 m to	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water are becomes a croy 0.85 m and depth	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration This feature original riparian vegetation in Average wetted widd Moving downstream wetted widths ranging	tes from a wetlandis scrubland/meadith is approximated (north), the feating from 0.75 m to	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water are becomes a croy 0.85 m and depth	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration This feature original riparian vegetation in Average wetted widd Moving downstream wetted widths ranging	tes from a wetlandis scrubland/meadith is approximated (north), the feating from 0.75 m to	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water are becomes a croy 0.85 m and depth	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		
Om-1.5m  □ None □ Lawn □ Cropped Land ☑ Meadow □ Scrubland / Thic □ Forest  Notes: (include o.a.: w barriers to fish migration This feature original riparian vegetation in Average wetted widd Moving downstream wetted widths ranging	tes from a wetlandis scrubland/meadith is approximated (north), the feating from 0.75 m to	None Lawn Cropped Land Meadow Scrubland / Thicke Forest  med banks?; feature with hibians; terrestrial cray d feature in the soudow species and the ly 0.5 m with water are becomes a croy 0.85 m and depth	dth; wetted width; cultifish; etc.) uthwest area of the swale has moon reped swale with reped swale with respect swale with res	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  verts? (measurements);  ne subject lands. The lerate definition. om 0.05 m to 0.08 m. no definition with		

<b>Stantec</b>							Unconstrained Headwater Drainage Feature Assessment Field Form				
Photos: 3371, 3373, 3376											



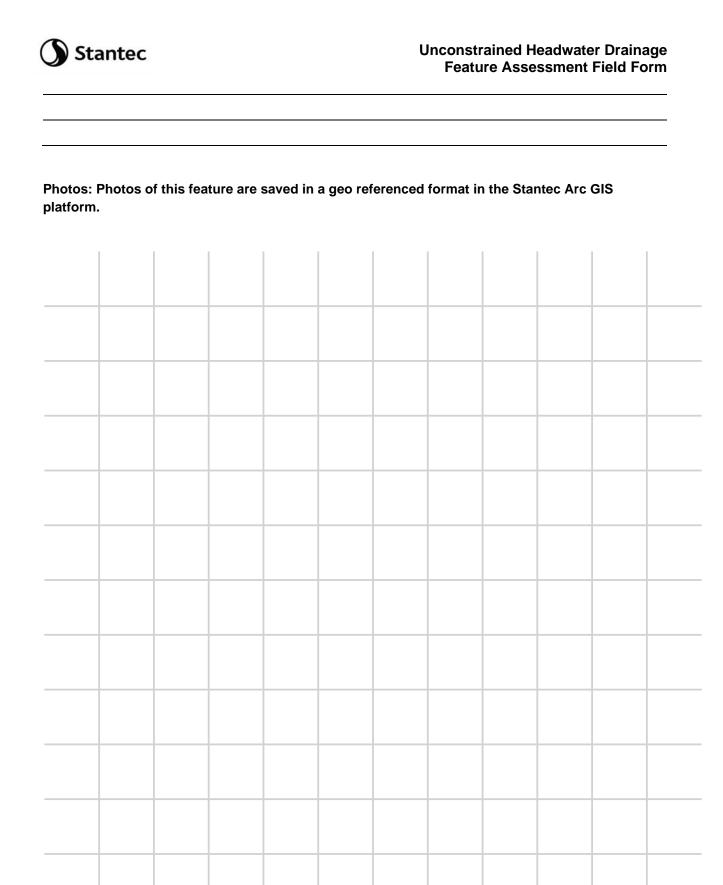
Project Number:		160961352	Date:	_	April 4, 2017		
Staff	Name:	Uskov, Faiella	Time:		14:22		
Read	ch ID (use map):	13	Weather (current):		Overcast,		
(Sub	)Watershed:		Rainfall (72 hours pri	or):			
Uppers		Uppers Quarry		/ _			
Location: ON)							
Flow	/ Condition						
	No Surface Water	(dry)	Surface Flow №	/linima	al (<0.5 l/s)		
	Standing Water		☐ Surface Flow Substantial (>0.5 l/s)				
	Interstitial Flow (su	bsurface water in	the voids of a coarse substrate)				
Feat	ure Type						
	Defined Natural Cl	hannel					
	Channelized		☐ Online pond ou	utlet			
	Multi-Thread (>1 C	Channel)	☐ Roadside Ditch				
	No Defined Featur	·e	☐ Tiled Drainage				
$\boxtimes$	Swale (a shallow tro	ough-like depression	on that carries water mainly during rain	nstorm	s or snow melts)		
Ripa	rian Classification						
	0m-1.5m		1.5m-10m		10m-30m		
	None		None		None		
	Lawn		Lawn		Lawn		
	_		Cropped Land		Cropped Land		
$\boxtimes$	Cropped Land			$\boxtimes$			
	Meadow		Meadow		Meadow		
	Meadow Scrubland / Thicke	et 🗆	Meadow Scrubland / Thicket		Scrubland / Thicket		
	Meadow		Meadow				
	Meadow Scrubland / Thicke Forest	et	Meadow Scrubland / Thicket Forest		Scrubland / Thicket Forest		
Note	Meadow Scrubland / Thicke Forest es: (include o.a.: wate	et	Meadow Scrubland / Thicket Forest  ned banks?; feature width; wetted width		Scrubland / Thicket Forest		
Note	Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; s	et er & air temp.; defin	Meadow Scrubland / Thicket Forest  ned banks?; feature width; wetted widthibians; terrestrial crayfish; etc.)	th; cul	Scrubland / Thicket Forest  verts? (measurements);		
Note barrie	Meadow Scrubland / Thicker Forest  es: (include o.a.: waters to fish migration; survey started at	et   er & air temp.; defii seeps; ponds; amp	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe		
Note barrie	Meadow Scrubland / Thicker Forest  es: (include o.a.: waters to fish migration; sometimes survey started at the feature. The extension of the second of the	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is continuous.	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widehibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widehibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		
Note barrie into	Meadow Scrubland / Thicker Forest  Ses: (include o.a.: water ers to fish migration; some survey started at the feature. The erure is 0.9 m wide	er & air temp.; defineseeps; ponds; amp Uppers Lane wentire reach is cand water dept	Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted widthibians; terrestrial crayfish; etc.) where water flows through a 0.5 considered a cropped swale with is 0.07 m. Velocity is estimate	th; cul	Scrubland / Thicket Forest  verts? (measurements);  astic corrugated pipe imal definition. The		



Photos:	3388, 33	390, 3391					

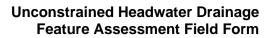


Project Number: 16		160961352		Date	•	April 9, 2021	
	f Name:	Burnett, Faiella		_ Time:		10:25	
	ach ID (use map):	14	Weather (current):			Sun, cloud	
(Sub)Watershed:				_	fall (72 hours prior):		
		Uppers Quarry	/ (Thorold,	- Naiiii	iali (72 fiours prior).		
Loc	ation:	ON)		=			
Flo	w Condition						
$\boxtimes$	No Surface Water	(dry)			Surface Flow Minim	nal (<0.5 l/s)	
	Standing Water				Surface Flow Subs	tantial (>0.5 l/s)	
	Interstitial Flow (su	ıbsurface water in	the voids of a	a coarse	e substrate)		
Fea	ture Type						
	Defined Natural C	hannel			Wetland		
	Channelized		☐ Online pond outlet				
	Multi-Thread (>1 C	•			Roadside Ditch		
	No Defined Featur	-			Tiled Drainage		
$\boxtimes$	Swale (a shallow tro	ough-like depressi	on that carrie	s water	mainly during rainstor	ms or snow melts)	
Rip	arian Classificatio	า					
Rip	0m-1.5m	1		.5m-10	)m	10m-30m	
Rip	0m-1.5m None		None	.5m-10		] None	
	0m-1.5m None Lawn		None Lawn			] None ] Lawn	
	0m-1.5m None Lawn Cropped Land		None Lawn Cropped I			None Lawn Cropped Land	
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped I Meadow	Land		<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li></ul>	
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped I Meadow Scrubland	Land	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li><li>Scrubland / Thicket</li></ul>	
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped I Meadow	Land		None Lawn Cropped Land Meadow Scrubland / Thicket	
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et	None Lawn Cropped I Meadow Scrubland Forest	Land d / Thic	ket	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
Not	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate	et	None Lawn Cropped I Meadow Scrubland Forest	Land d / Thic	ketwidth; wetted width; cu	<ul><li>None</li><li>Lawn</li><li>Cropped Land</li><li>Meadow</li><li>Scrubland / Thicket</li></ul>	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate iers to fish migration; s	et	None Lawn Cropped I Meadow Scrubland Forest ined banks?; phibians; terre	Land  d / Thic	ket   width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate iers to fish migration; so s feature is considered.)	et	None Lawn Cropped I Meadow Scrubland Forest ined banks?; chibians; terre	Land  d / Thic  feature estrial columns	ket  width; wetted width; curayfish; etc.) no defined banks t	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements); hat conveys water	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	et	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre	Land  d / Thic  feature estrial columns with read h	ket  width; wetted width; curayfish; etc.) no defined banks that been recently the	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most	
Not barr This dur like	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	width; wetted width; curayfish; etc.) no defined banks thas been recently that clay. One small	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	
Not barr This	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	ket  width; wetted width; curayfish; etc.) no defined banks that been recently the	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	
Not barr This dur like	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	width; wetted width; curayfish; etc.) no defined banks thas been recently that clay. One small	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	
Not barr This dur like	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	width; wetted width; curayfish; etc.) no defined banks thas been recently that clay. One small	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	
Not barr This dur like	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	width; wetted width; curayfish; etc.) no defined banks thas been recently that clay. One small	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	
Not barr This dur like	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: water iers to fish migration; so s feature is considing spring runoff. The	er & air temp.; defiseeps; ponds; ampered an agriculation for the feature is Consultation substrate is consultation is consultation.	None Lawn Cropped I Meadow Scrubland Forest  ined banks?; phibians; terre Itural swale omprised of	Land  If Thice  If Eature  If Eat	width; wetted width; curayfish; etc.) no defined banks thas been recently that clay. One small	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Werts? (measurements); hat conveys water tilled and will most section of standing	



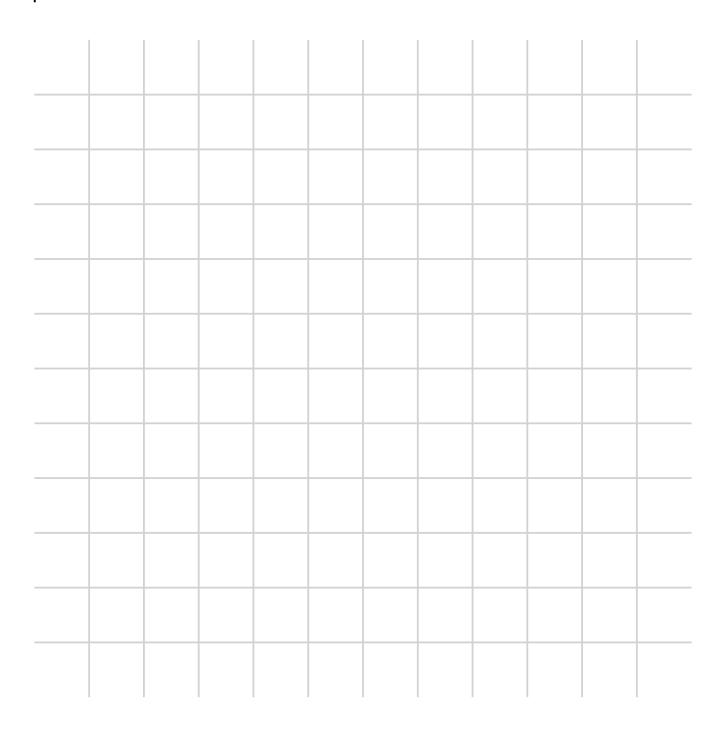


Project Number:	16096135	52	Date:	April 9, 2021			
Staff Name:	Burnett, F	aiella	_	10:51			
	. 15		_ Time:	Sun, cloud			
Reach ID (use map	D):		_ Weather (current):				
(Sub)Watershed:	Unners O	uarry (Thorold	Rainfall (72 hours p	prior):			
Uppers Quarry (Thorold, ON)		<u> </u>					
Elece O en l'étres							
Flow Condition  ☑ No Surface W	/ater (dry)		☐ Surface Flow	Minimal (<0.5 l/s)			
☐ Standing Wat	· • ·			Substantial (>0.5 l/s)			
☐ Interstitial Flo	w (subsurface wat	ter in the voids of	a coarse substrate)				
Feature Type							
☐ Defined Natur	ral Channel		☐ Wetland				
☐ Channelized			□ Online pond				
☐ Multi-Thread	•		<ul><li>☐ Roadside Ditch</li><li>☐ Tiled Drainage</li><li>es water mainly during rainstorms or snow melts)</li></ul>				
No Defined Formula (a shall be		raccion that carri					
	ow trough-like dep	ression that carri	es water mainly during to	ainstorms of snow metts)			
Riparian Classific			1 5m-10m	10m-30m			
Riparian Classific 0m-1.		□ None	1.5m-10m	<b>10m-30m</b> □ None			
0m-1.			1.5m-10m				
Om-1.5  □ None □ Lawn □ Cropped Land	5m	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped</li></ul>	Land	<ul><li>☐ None</li><li>☐ Lawn</li><li>☒ Cropped Land</li></ul>			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow	<b>5m</b>	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped</li><li>□ Meadow</li></ul>	Land	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li><li>□ Meadow</li></ul>			
Om-1.5  None Lawn Cropped Land Meadow Scrubland / T	<b>5m</b>	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped</li><li>□ Meadow</li><li>□ Scrublar</li></ul>	Land	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li><li>□ Scrubland / Thicket</li></ul>			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow	<b>5m</b>	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped</li><li>□ Meadow</li></ul>	Land	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li><li>□ Meadow</li></ul>			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  nd / Thicket  ; feature width; wetted w. restrial crayfish; etc.)	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrator) This feature is co	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);  unks that conveys water			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);  unks that conveys water			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);			
Om-1.5  □ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / T □ Forest  Notes: (include o.a. barriers to fish migrators) This feature is conduring spring run	5m d hicket : water & air temp. tion; seeps; ponds nsidered an ag off. The swale l	□ None □ Lawn □ Cropped □ Meadow □ Scrublar □ Forest  .; defined banks? c; amphibians; ter gricultural swal	Land  Ind / Thicket  If feature width; wetted with restrial crayfish; etc.)  If with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  idth; culverts? (measurements);			



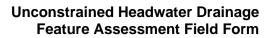


Photos: Photos of this feature are saved in a geo referenced format in the Stantec Arc GIS platform.



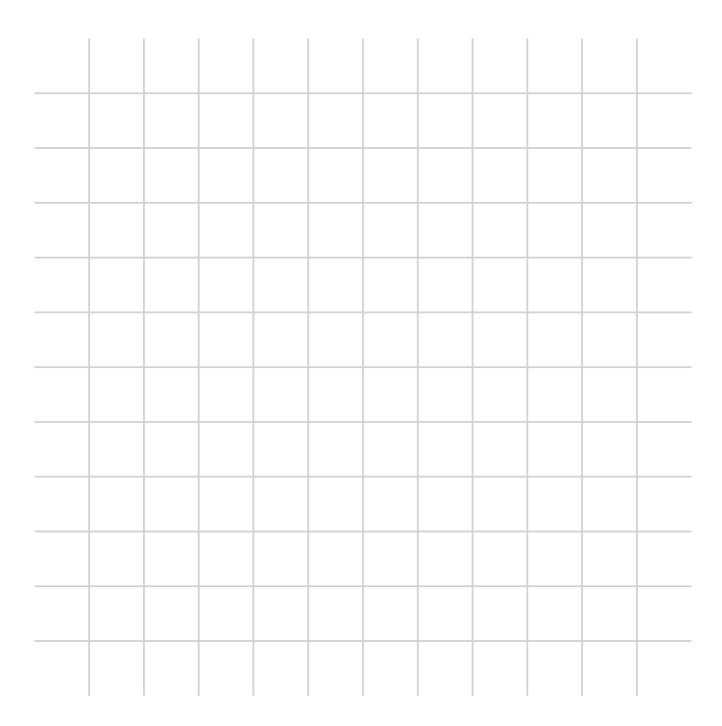


Project Number:		160961352		Date:		April 9, 2021	
•	Name:	Burnett, Faiella		_ Time:		11:00	
	ch ID (use map):				her (current):	Sun, cloud	
(Sub)Watershed:			,		all (72 hours prior):		
		Uppers Quarry		Nallilla	ali (72 flours prior).		
Location: ON)							
Flow	v Condition						
$\boxtimes$	No Surface Water	(dry)			Surface Flow Minim	· ·	
	Standing Water				Surface Flow Subs	tantial (>0.5 l/s)	
	Interstitial Flow (su	ibsurface water in	the voids of a co	oarse	substrate)		
Feat	ure Type						
	Defined Natural C	hannel			Wetland		
	Channelized				Online pond outlet		
	Multi-Thread (>1 C	•		_	Roadside Ditch		
	No Defined Featur	-	on that carries w	☐ Tiled Drainage es water mainly during rainstorms or snow melts)			
	Swale (a shallow the	ougii-like depressit	on that cames w	wateri	mainly during rainston	ns of show mens)	
Dina	wien Classification						
Ripa	ırian Classificatioı 0m-1.5m	n	1.5r	m-10ı	m	10m-30m	
Ripa	rian Classification 0m-1.5m None	n 🗆	1.5r None	m-10ı	<b>m</b>	<b>10m-30m</b> None	
Ripa	0m-1.5m		None Lawn		<b>m</b>	None Lawn	
Ripa	0m-1.5m None Lawn Cropped Land		None Lawn Cropped Lai			None Lawn Cropped Land	
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped La Meadow	ınd		None  Lawn  Cropped Land  Meadow	
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped Lan Meadow Scrubland	ınd	cet	None Lawn Cropped Land Meadow Scrubland / Thicket	
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped La Meadow	ınd		None Lawn Cropped Land Meadow Scrubland / Thicket	
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et	None Lawn Cropped Lar Meadow Scrubland / Forest	nd Thick	ket	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
Note	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et	None Lawn Cropped Lai Meadow Scrubland / Forest	nd Thick	ket	None Lawn Cropped Land Meadow Scrubland / Thicket	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateers to fish migration; seems)	er & air temp.; defineseeps; ponds; amp	None Lawn Cropped Lai Meadow Scrubland / Forest  ned banks?; fea	nnd Thick ature v	ket □ width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate ers to fish migration; so	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	
Note barrie	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: waters to fish migration; so feature is considing spring runoff.	er & air temp.; defineseeps; ponds; ampered an agricul	None Lawn Cropped Lai Meadow Scrubland / Forest  med banks?; fea shibians; terresti tural swale w	Thick	width; wetted width; cuayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ilverts? (measurements);	



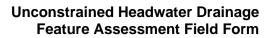


Photos: Photos of this feature are saved in a geo referenced format in the Stantec Arc GIS platform.



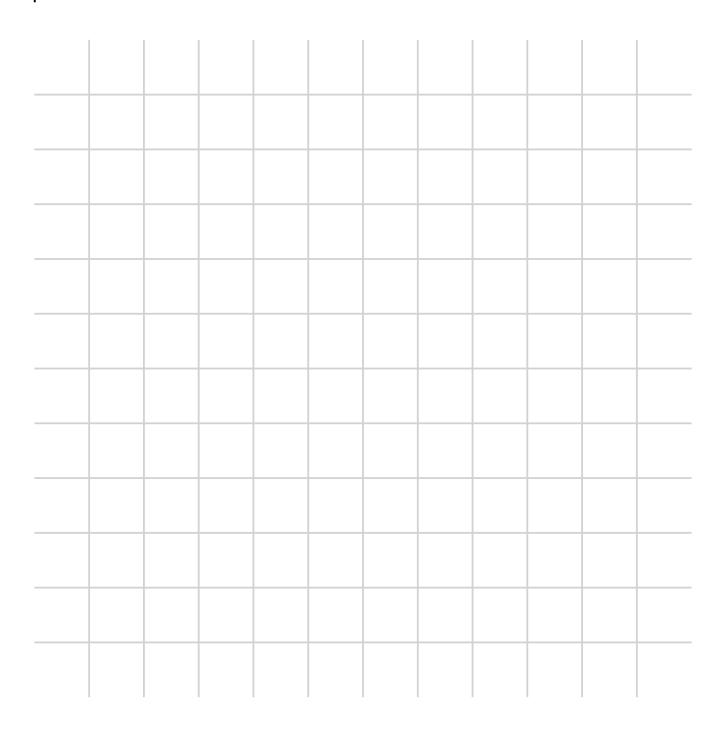


		160961352		April 9, 2021
Pro	ject Number:	·	Date:	·
Staf	ff Name:	Burnett, Faiella	Time:	11:00
Reach ID (use map): 17			Weather (cur	rent):
(Sul	b)Watershed:		Rainfall (72 h	ours prior):
·	átion:	Uppers Quarry (ON)		. ,
200	auon.			
Flo	w Condition No Surface Water	(dry)	□ Surface	e Flow Minimal (<0.5 l/s)
	Standing Water	(diy)		Flow Substantial (>0.5 l/s)
	•	bsurface water in th	ne voids of a coarse substrat	• • •
Fea	ture Type			
	Defined Natural C	hannel	☐ Wetlan	
	Channelized			pond outlet
	Multi-Thread (>1 C	,	_	de Ditch
	No Defined Featur			rainage
$\boxtimes$	Swale (a shallow tro	ougn-like depression	n that carries water mainly di	uring rainstorms or snow melts)
Rip	arian Classificatio	1		
Rip	arian Classificatioı 0m-1.5m	า	1.5m-10m	10m-30m
Rip	<b>0m-1.5m</b> None		None	□ None
	<b>0m-1.5m</b> None Lawn		None Lawn	□ None □ Lawn
	0m-1.5m None Lawn Cropped Land		None Lawn Cropped Land	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped Land Meadow Scrubland / Thicket	<ul> <li>□ None</li> <li>□ Lawn</li> <li>☑ Cropped Land</li> <li>□ Meadow</li> <li>□ Scrubland / Thicket</li> </ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li></ul>
Not	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate	et	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements);
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate iers to fish migration; s	et & air temp.; definiteeeps; ponds; amph	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   etted width; culverts? (measurements); tc.)
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements);
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; edural swale with no defin	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; definite seeps; ponds; amphered an agricultu	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  ed banks?; feature width; we ibians; terrestrial crayfish; et ural swale with no defineen tilled and has previ	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest   exted width; culverts? (measurements); tc.)  ed banks that conveys water



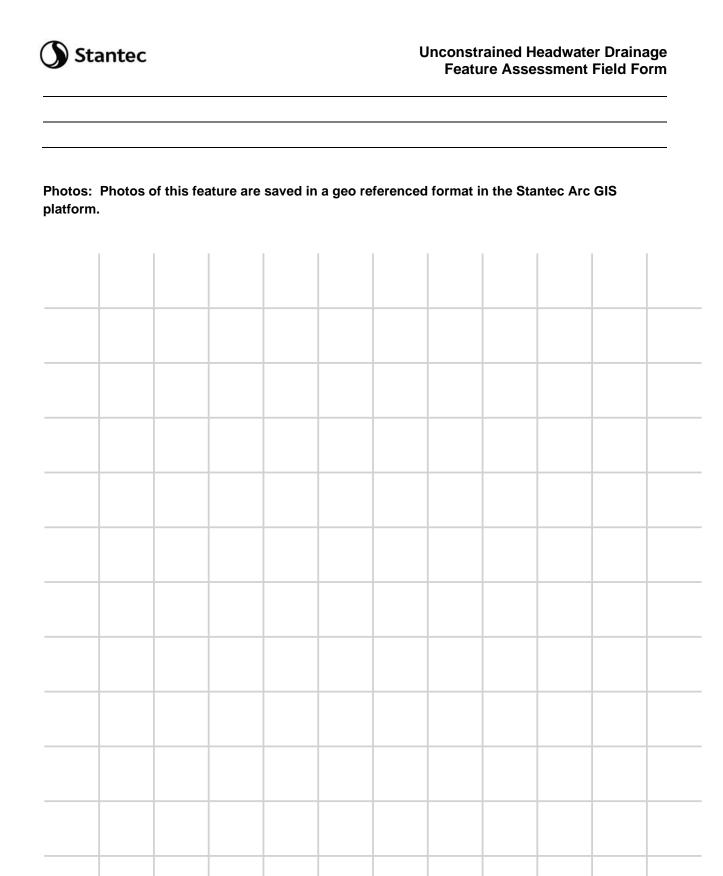


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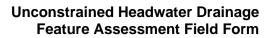


		160961352			April 9, 2021	
Project Number:		Burnett, Faiella	Date:		11:00	
Staf	f Name:		Tim	e:		
(Sub)Watershed:		18	We	ather (current):	Sun, cloud	
			Rai	nfall (72 hours prior):		
		Uppers Quarry	(Thorold,			
Location: ON)						
Flov	v Condition					
$\boxtimes$	No Surface Water	(dry)		Surface Flow Minin	nal (<0.5 l/s)	
	Standing Water			tantial (>0.5 l/s)		
	Interstitial Flow (su	bsurface water in	the voids of a coar	se substrate)		
<b>-</b>						
reat	t <b>ure Type</b> Defined Natural Cl	nannel	П	Wetland		
	Channelized	anner		Online pond outlet		
	Multi-Thread (>1 C	channel)		Roadside Ditch		
	No Defined Featur	•		Tiled Drainage		
$\boxtimes$	Swale (a shallow tro	ough-like depression	on that carries wate	er mainly during rainstor	ms or snow melts)	
Dine	arian Classification					
Kipe	0m-1.5m	•	1.5m-1	0m	10m-30m	
	None		None		None	
	Lawn		Lawn			
	Cropped Land		Cropped Land		• • •	
	Meadow		Meadow			
	Scrubland / Thicker Forest	et	Scrubland / Th Forest	cket	Scrubland / Thicket Forest	
Ш	roiesi		roiesi	L	Forest	
	es: (include o.a.: wate ers to fish migration; s				ılverts? (measurements);	
	•	• • • •		,		
				no defined banks t		
	• •			nas previously been	is located at Uppers	
Lan		is siit ariu ciay.	A 0.4 III piasii	corrugated cuivert	is located at Oppers	
	С.					
Lan	<b>6.</b>					
	<u>.                                    </u>					
	<b>G</b> .					
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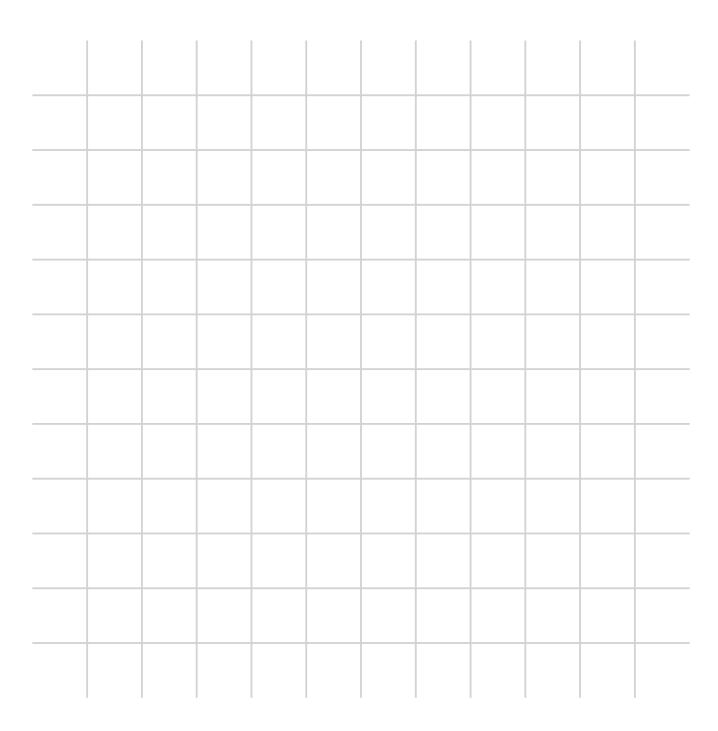




		160961352				April 9, 2021		
Project Number:		-		Date	:	11:47		
Stat	ff Name:	Burnett, Faiella		_ Time:				
Reach ID (use map):		19	Weather (curren		ther (current):	Sun, cloud		
(Su	b)Watershed:			Rain	fall (72 hours prior):			
Loc	ation:	Uppers Quarry ON)	(Thorold,	•				
LOC	ation.							
Flo	w Condition No Surface Water Standing Water	(dry)			Surface Flow Minin Surface Flow Subs	,		
	Interstitial Flow (su	bsurface water in t	he voids of a	_		iailiai (20.5 1/5)		
	meratilar riow (se	bodilace water in t	ine voids of a	COUIS	o substrate)			
Fea	ture Type							
	Defined Natural C	hannel			Wetland			
	Channelized				Online pond outlet			
	Multi-Thread (>1 C	Channel)			Roadside Ditch			
	No Defined Featur				Tiled Drainage			
$\boxtimes$	Swale (a shallow tro	ough-like depression	on that carries	s water	mainly during rainstor	ms or snow melts)		
Rip	arian Classificatio	1	_					
	0m-1.5m	_		.5m-1(	_	10m-30m		
	<b>0m-1.5m</b> None		None	.5m-10		None		
	0m-1.5m None Lawn		None Lawn			None Lawn		
	0m-1.5m None Lawn Cropped Land		None Lawn Cropped L			None Lawn Cropped Land		
	0m-1.5m None Lawn		None Lawn	₋and		None Lawn Cropped Land		
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped L Meadow	₋and		None Lawn Cropped Land Meadow Scrubland / Thicket		
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped L Meadow Scrubland	₋and	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	None Lawn Cropped Land Meadow Scrubland / Thicket		
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et	None Lawn Cropped L Meadow Scrubland Forest	and / Thic	ket	None Lawn Cropped Land Meadow Scrubland / Thicket		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate iers to fish migration; s	et	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi	and / Thic	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  Ulverts? (measurements);		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	ket	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wate iers to fish migration; s s feature is consid	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; so feature is considing spring runoff.	er & air temp.; defir seeps; ponds; amp. ered an agricult	None Lawn Cropped L Meadow Scrubland Forest  med banks?; fi hibians; terrest tural swale	and / Thice feature strial co	width; wetted width; curayfish; etc.)	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  West (measurements); hat conveys water		

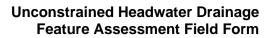




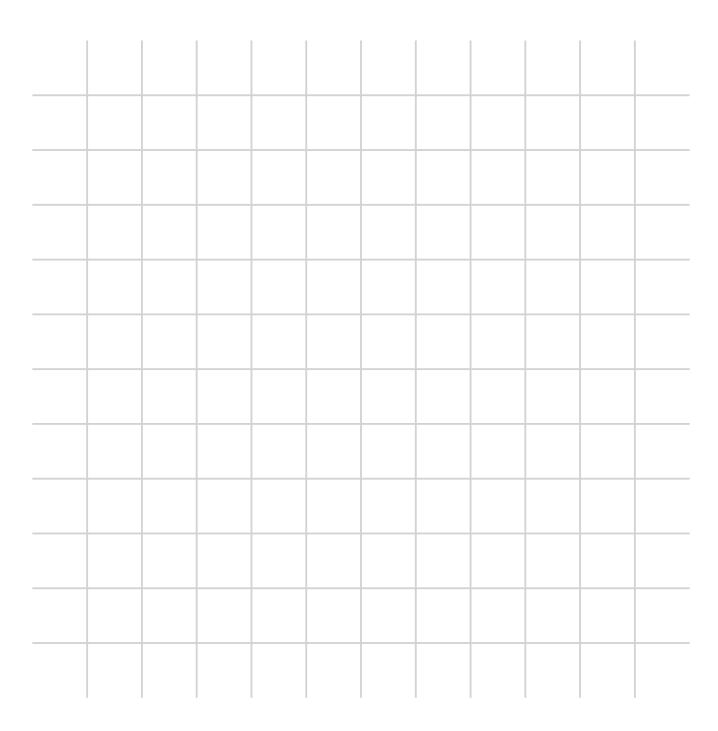




Project Number:		160961352	Date:	April 9, 2021
	f Name:	Burnett, Faiella		12:25
	ach ID (use map):	20	Weather (current):	Sun, cloud
	b)Watershed:		Rainfall (72 hours	
(Su	b)vvatersned.	Uppers Quarry		prior).
Location: ON)				
Flo	w Condition			
$\boxtimes$	No Surface Water	(dry)		v Minimal (<0.5 l/s)
	Standing Water			v Substantial (>0.5 l/s)
	Interstitial Flow (su	ıbsurface water in t	the voids of a coarse substrate)	
Fea	ture Type			
	Defined Natural C	hannel		
	Channelized		□ Online pond	
	Multi-Thread (>1 (	,	☐ Roadside D	
	No Defined Featur	_	☐ Tiled Draina	•
	Swale (a shallow th	ougn-like depressio	on that carries water mainly during	rainstorms or snow meits)
Dia.	anian Olasaitiaatia	_		
Rip	arian Classificatio 0m-1.5m	n	1.5m-10m	10m-30m
Rip		n 🗆	<b>1.5m-10m</b> None	<b>10m-30m</b> □ None
Rip	0m-1.5m			
Rip	<b>0m-1.5m</b> None Lawn Cropped Land		None Lawn Cropped Land	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li><li>□ Meadow</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped Land Meadow Scrubland / Thicket	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li><li>□ Meadow</li><li>□ Scrubland / Thicket</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li><li>□ Meadow</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et 🗆	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	<ul> <li>□ None</li> <li>□ Lawn</li> <li>☑ Cropped Land</li> <li>□ Meadow</li> <li>□ Scrubland / Thicket</li> <li>□ Forest</li> </ul>
Not	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat	et	None Lawn Cropped Land Meadow Scrubland / Thicket	<ul> <li>□ None</li> <li>□ Lawn</li> <li>☑ Cropped Land</li> <li>□ Meadow</li> <li>□ Scrubland / Thicket</li> <li>□ Forest</li> </ul>
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration;	et	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.)	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);
Not barn	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; is s feature is considered.)	et	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted wetted the second seco	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; is s feature is considered.)	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; of the second of	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; of the second of	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; of the second of	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; of the second of	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wat iers to fish migration; of the second of	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined b	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water

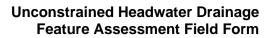




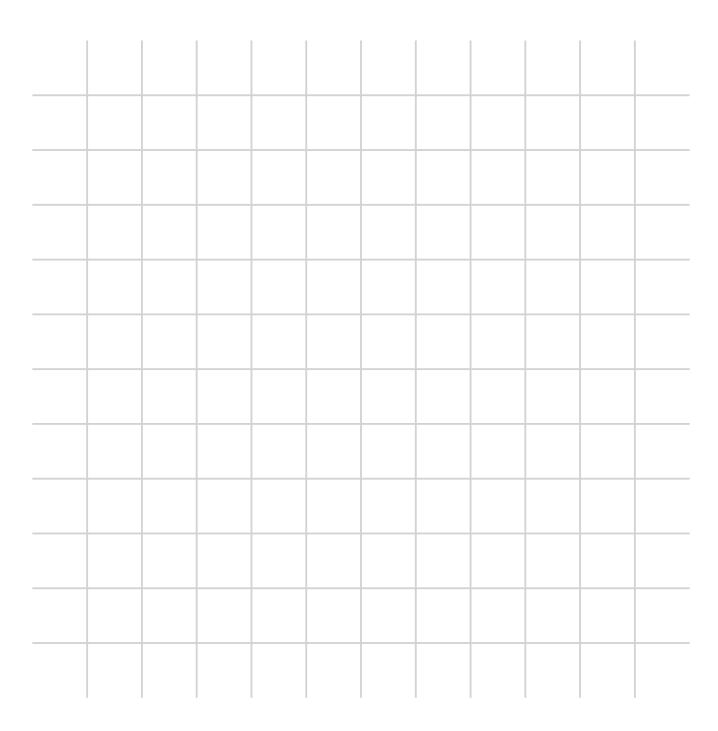




Project Number:		160961352	Date:	April 9, 2021
	ff Name:	Burnett, Faiella		12:45
	ach ID (use map):	21	Weather (current):	Sun, cloud
	b)Watershed:		Rainfall (72 hours p	
(Su	b)watersneu.	Uppers Quarry		priorj.
Loc	ation:	ON)		
Flo	w Condition			
$\boxtimes$	No Surface Water	(dry)		v Minimal (<0.5 l/s)
	Standing Water			v Substantial (>0.5 l/s)
	Interstitial Flow (su	ubsurface water in t	the voids of a coarse substrate)	
Fea	ture Type			
	Defined Natural C	hannel	☐ Wetland	
	Channelized		☐ Online pond	
	Multi-Thread (>1 (	,	☐ Roadside Dit	
	No Defined Featur	_	☐ Tiled Draina	•
	Swale (a shallow th	ougn-like depressio	on that carries water mainly during r	ainstorms or snow meits)
D:	orion Classification	_		
Rip	arian Classificatio	n	1.5m-10m	10m-30m
Rip		n 🗆	<b>1.5m-10m</b> None	<b>10m-30m</b> □ None
Rip	0m-1.5m			
Rip	<b>0m-1.5m</b> None Lawn Cropped Land		None Lawn Cropped Land	<ul><li>□ None</li><li>□ Lawn</li><li>⊠ Cropped Land</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke	et	None Lawn Cropped Land Meadow Scrubland / Thicket	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li><li>□ Scrubland / Thicket</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	<ul><li>□ None</li><li>□ Lawn</li><li>☑ Cropped Land</li><li>□ Meadow</li></ul>
	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et 🗆	None Lawn Cropped Land Meadow Scrubland / Thicket Forest	<ul> <li>□ None</li> <li>□ Lawn</li> <li>□ Cropped Land</li> <li>□ Meadow</li> <li>□ Scrubland / Thicket</li> <li>□ Forest</li> </ul>
Not	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et	None Lawn Cropped Land Meadow Scrubland / Thicket	<ul> <li>□ None</li> <li>□ Lawn</li> <li>□ Cropped Land</li> <li>□ Meadow</li> <li>□ Scrubland / Thicket</li> <li>□ Forest</li> </ul>
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  ces: (include o.a.: wateriers to fish migration;	et	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.)	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  vidth; culverts? (measurements);
Not barn	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; is feature is considered.)	et	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted w	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; is feature is considered.)	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest  es: (include o.a.: wateriers to fish migration; as feature is considing spring runoff.	er & air temp.; definseeps; ponds; amp	None Lawn Cropped Land Meadow Scrubland / Thicket Forest  med banks?; feature width; wetted whibians; terrestrial crayfish; etc.) tural swale with no defined ba	□ None □ Lawn □ Cropped Land □ Meadow □ Scrubland / Thicket □ Forest  width; culverts? (measurements);  anks that conveys water

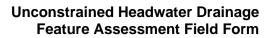




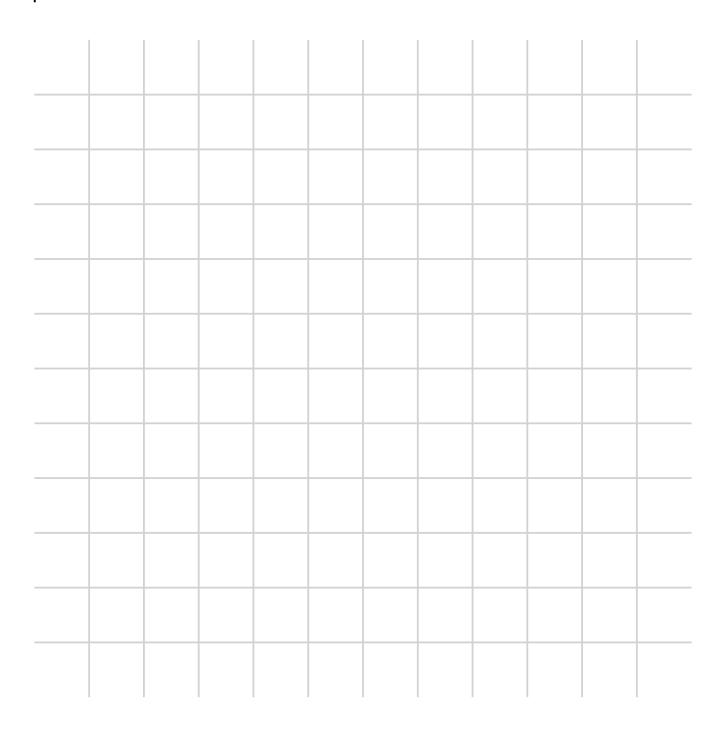




Project Number: Staff Name: Reach ID (use map): (Sub)Watershed: Location:	160961352  Burnett, Faiella  22  Uppers Quarry (Thorold, ON)	_ Date: _ Time: _ Weather (current): _ Rainfall (72 hours prior):	April 9, 2021 12:42 Sun, cloud	
Flow Condition  ⊠ No Surface Water  □ Standing Water  □ Interstitial Flow (so	(dry) ubsurface water in the voids of a	☐ Surface Flow Minir☐ Surface Flow Subsacoarse substrate)	· ,	
Feature Type  ☐ Defined Natural C ☐ Channelized ☐ Multi-Thread (>1 C ☐ No Defined Feature ☐ Swale (a shallow trees)	Channel)	<ul><li>☐ Wetland</li><li>☐ Online pond outlet</li><li>☐ Roadside Ditch</li><li>☐ Tiled Drainage</li><li>s water mainly during rainstor</li></ul>		
Riparian Classification Om-1.5m  None Lawn Cropped Land Meadow Scrubland / Thicket Forest	1 □ None □ Lawn ⊠ Cropped □ Meadow	.5m-10m  Land  d / Thicket	Cropped Land	
barriers to fish migration; This feature is consid	er & air temp.; defined banks?; seeps; ponds; amphibians; terro lered an agricultural swale The swale has been tilled is silt and clay.	estrial crayfish; etc.) e with no defined banks t	hat conveys water	

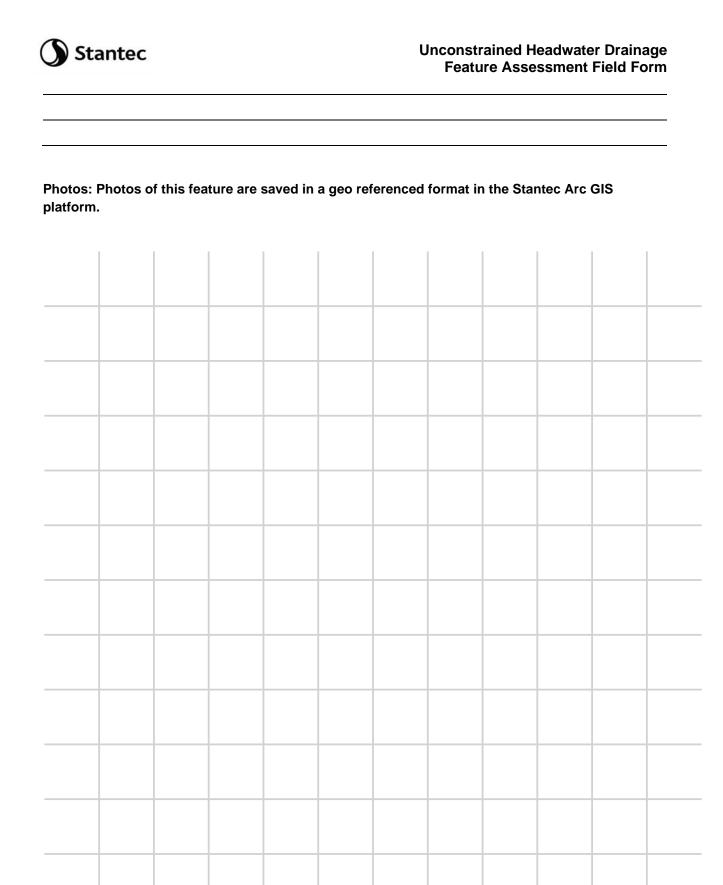






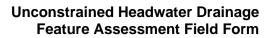


Project Number:		160961352	Date:		April 9, 2021	
-	f Name:	Burnett, Faiella		_	13:04	
	ch ID (use map):	23	Weather (current):	_	Sun, cloud	
	b)Watershed:		Rainfall (72 hours p	orior):		
(Sur	nyvatersned.	Uppers Quarry		piloi)	_	
Location: ON)						
Flov	v Condition					
$\boxtimes$	No Surface Water	(dry)	☐ Surface Flow	/ Minima	al (<0.5 l/s)	
	Standing Water			/ Substa	ntial (>0.5 l/s)	
	Interstitial Flow (su	ıbsurface water in t	he voids of a coarse substrate)			
Feat	ture Type					
	Defined Natural C	hannel				
	Channelized		☐ Online pond	outlet		
	Multi-Thread (>1 C	•	☐ Roadside Dit			
	No Defined Featur		☐ Tiled Draina	•		
$\boxtimes$	Swale (a shallow tro	ough-like depression	on that carries water mainly during r	ainstorm	s or snow melts)	
	arian Classificatio	1				
Ripa	arian Ciassincano					
Ripa	0m-1.5m		1.5m-10m		10m-30m	
	0m-1.5m None		None		None	
	0m-1.5m None Lawn		None Lawn		None Lawn	
	0m-1.5m None Lawn Cropped Land		None Lawn Cropped Land		None Lawn Cropped Land	
	Om-1.5m None Lawn Cropped Land Meadow		None Lawn		None Lawn	
	0m-1.5m None Lawn Cropped Land		None Lawn Cropped Land Meadow		None Lawn Cropped Land Meadow	
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Note	Om-1.5m None Lawn Cropped Land Meadow Scrubland / Thicke Forest	et \( \times \)	None Lawn Cropped Land Meadow Scrubland / Thicket		None Lawn Cropped Land Meadow Scrubland / Thicket Forest	
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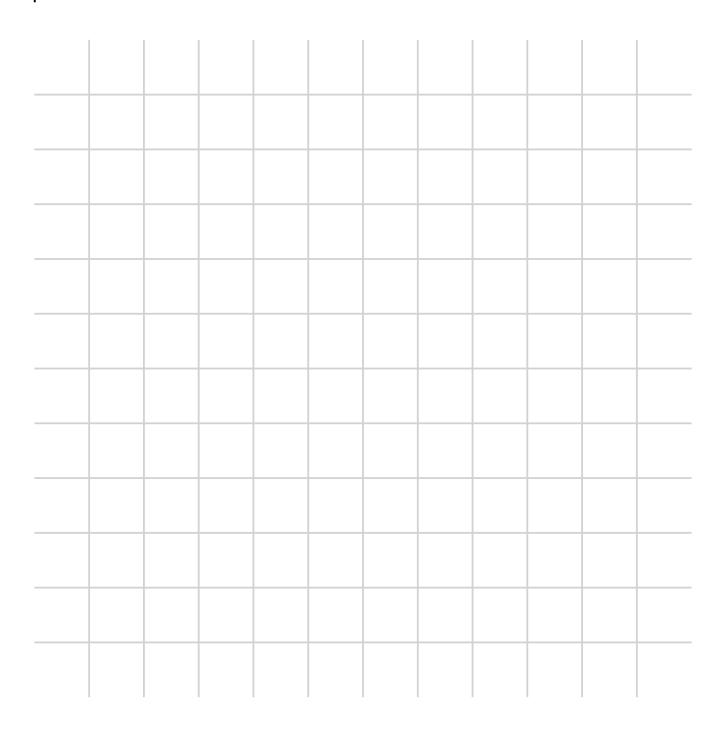




Project Number:		160961352		Date		April 9, 202	21
-	Name:	Burnett, Faiella	<u> </u>	Time		13:20	
	h ID (use map):	24		_ Time. Weather (current):		Sun, cloud	
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` ,		Uppers Quarry		Italiii	ali (12 fiodis prior).		
Locat	tion:	ON)					
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	Interstitial Flow (su	ıbsurface water in t	the voids of a	_		antiai (>0.5	1/3)
	<b>ure Type</b> Defined Natural Cl	hannel			Wetland		
	Channelized				Online pond outlet		
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	owaic (a shallow th	Jugii-like depressio	on that cames	water	mainly during rainston	113 OF 3110W 111	cito)
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	0m-1.5m None	n 🗆	None	5m-10	) <b>m</b>	None	n-30m
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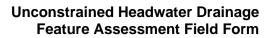




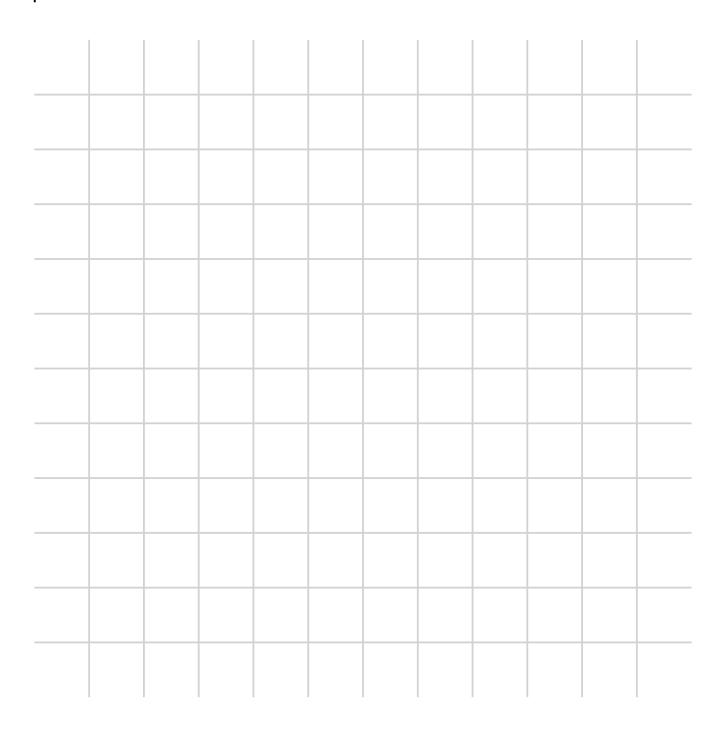




Project Number:		160961352	г	Date:		April 9, 2021	
-	Name:	Burnett, Faiella	1	Time:		13:42	
		25				Sun, cloud	
	ch ID (use map):				her (current):		
(Sub)	)Watershed:	Uppers Quarry		Kainī	all (72 hours prior):		
Location: ON)							
Flow	Condition						
	No Surface Water	(dry)			Surface Flow Minim	,	
	Standing Water	ibaurface water in t			Surface Flow Substantal	antial (>0.5 l/s	)
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	ure Type	h a a a a l			Mada ad		
_	Defined Natural C Channelized	nannei			Wetland Online pond outlet		
_	Multi-Thread (>1 C	Channel)			Roadside Ditch		
	No Defined Featur	,			Tiled Drainage		
$\boxtimes$	Swale (a shallow tro	ough-like depressio	on that carries w	water	mainly during rainstor	ns or snow melt	s)
Ripa	rian Classificatio	n					
-	rian Classification 0m-1.5m	n _		m-10		10m-	30m
	0m-1.5m None		None	m-10		None	30m
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Stantec Consutting Ltd.
70 Southgate Drive, Suite 1, Guelph ON N1G 4P5

## Photograph Log

Project Number: \	84902902	NAMES OF THE PERSON OF THE PER	Project Name: What Land Quinny
Date: ₫	UE 92)]]		Project Name: What Long Query Field Personnel: N. Lyngth, M. Kaiglia:
Weather Conditions:	930C	1 None	
(current)	TEMP (°C)	PRECIPITATION	

Photo No.	Time site.	Photo Description & Comments
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3689-3083	feature 1	Bry culvery (Feature 12 if gry esperesult).
	Epotole fatur	eb-dry-as noted from A4-planted Field
3584	featurel-at	Tool-dry.
3585-86	feature2 -u	
3587-3588	Frature 13 -	WS, 113-914.
3589.	Faiture 1-F	non rood-played rield - Dry
3590	feature 5 - tak	en near mie dory into field - dr
3591-3592	featurey-w	sen near born sked structure - dry

☐ check box if log is continued on reverse side of this form

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Quality Control:

This form is complete  $\square$  & legible  $\square$ 

Print Name & Initial:

(field notes QA/QC personnel) AQUAT. FORM 020 / REV: 2014-04-25



Photo 1: April 4, 2017 - Feature 1. Upstream location facing upstream of Uppers Lane (south)



Photo 2: April 4, 2017 - Feature 1. At Uppers Lane facing downstream (north)



Photo 3: April 4, 2017 - Feature 1. Downstream location at north property boundary facing downstream (north)



Photo 4: April 4, 2017 - Feature 1. Downstream location at north property boundary facing downstream (north)



Photo 5: April 4, 2017 - Feature 2. Upstream location facing upstream (south)



Photo 6: April 4, 2017 - Feature 2. Upstream location facing upstream (south)



Walker Aggregates Inc. Uppers Lane Quarry HDFA

 Appendix
 Page

 A
 1 of 16



Photo 7: April 4, 2017 - Feature 2. Downstream location at north property boundary facing downstream (north)



Photo 8: April 4, 2017 - Feature 3. Upstream location facing upstream



Photo 9: April 4, 2017 - Feature 3. Mid-section facing upstream (east)



Photo 10: April 4, 2017 - Feature 3. Downstream section at confluence with Feature 4.



Photo 11: April 4, 2017 - Feature 3. Downstream section.



Photo 12: April 4, 2017 - Feature 4. Upstream location facing upstream (southeast)



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Photo 133: April 4, 2017 - Feature 4. Upstream location facing downstream (northwest)



Photo 14: April 4, 2017 - Feature 4. Exposed tile drain. Facing downstream (northwest) at field crossover



Photo 15: April 4, 2017 - Feature 4. At downstream section facing downstream (northwest)



Photo 16: April 4, 2017 - Feature 5. At upstream location facing downstream (west)



Photo 17: April 4, 2017 - Feature 5. Downstream location near main channel, facing downstream (west)



Photo 18: April 4, 2017 - Feature 5. Downstream location near main channel facing upstream (east)



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Photo 19: April 4, 2017 - Feature 6. At upstream location



Photo 20: April 4, 2017 - Feature 6. At mid-section facing upstream (east)



Photo 21: April 4, 2017 - Feature 6. At downstream section facing upstream (east)



Photo 22: April 4, 2017 - Feature 7. At upstream section facing downstream (east)



Photo 23: April 4, 2017 - Feature 7. At Thorold Townline Road facing north



Photo 24: April 4, 2017 - Feature 7. At downstream section facing downstream (east)



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Photo 25: April 4, 2017 - Feature 8. At Thorold Townline Road.



Photo 26: April 4, 2017 - Feature 8. At upstream section facing downstream (east)



Photo 27: April 4, 2017 - Feature 8. At mid-section facing downstream (southeast)



Photo 28: April 4, 2017 - Feature 8. At confluence with main channel



Photo 29: April 4, 2017 - Feature 9. At upstream location facing upstream (northeast)



Photo 30: April 4, 2017 - Feature 9. At downstream location at confluence with main channel



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Photo 31: April 4, 2017 - Feature 9. At mid-section facing upstream (northwest)



Photo 32: April 4, 2017 - Feature 10. At Thorold Townline Road.



Photo 33: April 4, 2017 - Feature 10. At upstream section facing upstream (west)



Photo 34: April 4, 2017 - Feature 10. At upstream section facing downstream (east)



Photo 35: April 4, 2017 - Feature 10. Downstream section facing upstream (west)



Photo 36: April 4, 2017 - Feature 11. At Thorold Townline Road



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Photo 37: April 4, 2017 - Feature 11. Upstream section in woodlot facing downstream (east)



Photo 38: April 4, 2017 - Feature 11. Mid-section looking upstream (west) at woodlot



Photo 39: April 4, 2017 - Feature 12. At confluence with Feature 7 facing upstream (north)



Photo 40: April 4, 2017 - Feature 12. At mid-section



Photo 41: April 4, 2017 - Feature 12. At mid-section



Photo 42: April 4, 2017 - Feature 13. Immediately upstream of Uppers Lane facing upstream (south)



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Photo 43: April 4, 2017 - Feature 13. At upstream section facing downstream (north)



Photo 44: April 4, 2017 - Feature 13. At upstream section facing upstream (south)



Photo 45: June 22, 2017 – Feature 1. At north property boundary facing downstream (north)



Photo 46: June 22, 2017 – Feature 1. Facing north from Uppers Lane



Photo 47: June 22, 2017 – Feature 2. At north property boundary facing downstream (north)



Photo 48: June 22, 2017 - Feature 3. Mid-section facing east



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Photo 49: June 22, 2017 – Feature 4. Upstream section facing downstream (west)



Photo 50: June 22, 2017 – Feature 4. Upstream section facing downstream (northwest)



Photo 51: June 22, 2017 - Feature 5. Mid-section



Photo 52: June 22, 2017 - Feature 7. At Thorold Townline Road



Photo 53: June 22, 2017 – Feature 7. At Thorold Townline Road, looking east



Photo 54: June 22, 2017 – Feature 8. Main channel area looking upstream (west) at feature location



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Photo 55: June 22, 2017 – Feature 8. At Thorold Townline Road facing downstream (east)



Photo 56: June 22, 2017 - Feature 9. Mid-section facing north



Photo 57: June 22, 2017 – Feature 10. Looking at east side of Thorold Townline Road facing upstream (west)



Photo 58: June 22, 2017 – Feature 10. At Thorold Townline Road facing downstream (east)



Photo 59: June 22, 2017 – Feature 11. Mid-section facing upstream (west) into woodlot



Photo 60: June 22, 2017 – Feature 11. Mid-section facing downstream (east)



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Photo 61: June 22, 2017 – Feature 13. At Uppers Lane facing upstream (south) of road



Photo 62: June 22, 2017 – Feature 13. At Uppers Lane facing downstream (north) of road



Photo 63: April 9, 2021 - Feature 14. Facing upstream (east)



Photo 64: April 9, 2021 – Feature 14. Feature 14. Looking upstream (east) from edge of field near main channel



Photo 65: April 9, 2021 – Feature 14 looking west near main channel.



Photo 66: April 9, 2021 – Feature 15, which is upstream end of Feature 16, facing east.



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Photo 67: April 9, 2021 - Feature 15 end Facing upstream (west)



Photo 68: April 9, 2021 – Feature 16. Downstream section facing upstream (west)



Photo 69: April 9, 2021 – Feature 16. Upstream section facing downstream (east)



Photo 70: April 9, 2021 - Feature 16. At confluence with Feature 1



Photo 71: April 9, 2021 – Feature 17. Looking downstream at Uppers Lane from south of road



Photo 72: April 9, 2021 – Feature 17. Approximately 100 m downstream (west) of Beechwood Road, facing downstream (north)



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Photo 73: April 9, 2021 – Feature 17. At middle section facing upstream (south)



Photo 74: April 9, 2021 – Feature 18. At confluence with Feature 3 facing upstream (north)



Photo 75: April 9, 2021 – Feature 18. At upstream location facing downstream (south)



Photo 76: April 9, 2021 - Feature 18. Uppers Lane culvert



Photo 77: April 9, 2021 – Feature 19. At downstream location facing upstream (east)



Photo 78: April 9, 2021 – Feature 19. At mid-section facing upstream (east)



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Photo 79: April 9, 2021 – Feature 19. At upstream location facing upstream (east)



Photo 80: April 9, 2021 – Feature 20. At upstream location facing east



Photo 81: April 9, 2021 – Feature 20. At upstream location facing west



Photo 82: April 9, 2021 – Feature 20. Downstream end looking east at main channel



Photo 83: April 9, 2021 – Feature 21. At downstream section facing west



Photo 84: April 9, 2021 – Feature 21. Facing east towards confluence with Feature 20



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Photo 85: April 9, 2021 - Feature 21. Facing upstream (southwest)



Photo 86: April 9, 2021 – Feature 22. At downstream section near main channel, facing upstream (west)



Photo 87: April 9, 2021 – Feature 22. Facing upstream (northwest)



Photo 88: April 9, 2021 – Feature 22. At downstream section looking down stream (east) at main channel



Photo 89: April 9, 2021 – Feature 23. Upstream (west) side of Thorold Townline Road



Photo 90: April 9, 2021 – Feature 23. Looking upstream (west) of Thorold Townline Road



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Photo 91: April 9, 2021 – Feature 24. From Thorold Townline Road, facing downstream (northeast)



Photo 92: April 9, 2021 – Feature 24. At upstream section looking upstream (southwest) at Thorold Townline Road



Photo 93: April 9, 2021 – Feature 24. At middle section facing downstream (northeast)



Photo 94: April 9, 2021 – Feature 25. At downstream location looking east across )



Photo 95: April 9, 2021 – Feature 25. Downstream section looking upstream (south)



Photo 96: April 9, 2021 - Feature 25. Upstream (south) end.



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