Page 2 of 2

Cross-Section	Wetted Width (m)	5 Depths, equally spaced (cm)	Discharge/Pool/Riffle/Run/Notes
1			A STATE OF THE STA
2		1991	The second second second
3		man and a second se	
4	1		
5			

WATER QUALITY

Water Temp. (°C): 16	D.O. (ppm):	pH: —	Visible Characteristics/Other Parameters:
Air Temp. (°C): 22	D.O. (%):	TDS (ppm):	morky
Time Taken: 1125	Conductivity (µs/cm):		J
Location Taken: @ whert	1		

SITE DRAWING

Include: watercourse and name, flow direction, riffle/pool/run habitat, side tributaries, station location, approx. reach length, channel modifications, adjacent landuse, roads & road names, bridges, culverts, north arrow, etc...

- · fast flow lots of water coming out of tile drains Im/s
- · murky
- " d/s lined w cattails no defined channel
- · bankful width ...2m
- * depth@ culvert 25cm

PHOTOS TAKEN

Photo #	Description	Photo #	Description	
864 0/3	5 (Pacing south) - field	I tile droins		10-11
	66 - tile drains			
867 -	ds (facing north) usew			
868 -	water dis			

GENERAL COMMENTS

Fish observed, unususal conditions, differences from previous site visit, landowner comments, topography, general land use and vegetation, etc.:

no fish observed



HABITAT CHARACTERIZATION

Page 1 of 2

PROJECT (Number & Name):		F	
Field Staff: G. MacVergh			
Station: wc # 3a		Site Locati	ion:
Waterbody: Unknown tri	0	GPS Datur	n: NAD 83 Easting: 0442556
Drainage System: AUSONC			T Northing: 4774646
Location in System: © COO Appr. Reach Length (m):		Municipality Lot & Cond	yStrathroy Caradoc
Survey Date: 20 Cot II	Weather	r Conditions:	
Time Started: 1105	1 196	A 11 TO 10 T	loud Cover (%): 40
Time Finished: 1120	Precipita	Atom	Xii Xii Xii Xii Xii Xii Xii Xii X
ADJACENT LANDS			
	Sentle (< 5°) Moderate	e (5 - 15°) Steep (> 1	5°)
Extent of Natural Veg			0 to 30 30+
		101020 2	0.000
vegetation Type.	grasses, shrubs		
Riparian Flood Plain - extent o	of frequent flood (m):	(0-10) 10 to 20	20 to 30 30+
	grasses herbs, st		
	J. a. 125 3, 164.02 3,	(100)	
Vegetation Density (F	HML): ⊢\		
Canopy Type: Orning		Quality and % shade	: good 6570:
Land agrico (fure			0
Other (groundwater, soils	, pools, vegetation, etc.)		
Notes good flow (10	un), pool als of	culvert Gust non	rth of coldstreamrd)
CHANNEL MORPHOLOGY			
Channel Width (range (m)): 0	5-1.0	G	Gradient (H/M/L):
Bank Height (range (m)): . \ -		N	/leander/Straight
Bank Slope (degrees from surfa		E	Bank Stability: Good
Bank Vegetation Type: Oxos		E	Bank Veg. Density (H/M/L):
CHANNEL SUBSTRATE %			
	Gravel: 25	Boulder:	Muck: 5
annual section in the section is a section in the s	Pebble: 10	Bedrock:	Detritus:
No. of the last of	cobble: 20	Mari:	Other:
INSTREAM HABITAT AND CO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Undercut Banks: V	Carla tatal F	Boulder/Rock:
Pools: V	Woody Debris:	11 courte it ac	
Riffles:	Vegetation: V	higher sh	
INSTREAM VEGETATION	vegetation		Other: wiver
Type (submerg./emerg./floatir	ng) Family/Genus/spec	ries	Description/Abundance
Type (Submergionergineau)	terrestrial gra		
	algae		
CODES: S	WI Surface Water Input	SCS Stream Cross S	ection
	WI Groundwater Input	DOX Dissolved Oxyge	en Stn
· · · · · · · · · · · · · · · · · · ·	IVVI Citatiawatci input	DON BIOCONTON CANY	
	KC Creek Crossing	VSS Visual Survey St	tn
TMP Temp Monitor Stn V			tn

Page 2 of 2

Cross-Section	Wetted Width (m)	5 Depths, equally spaced (cm)	Discharge/Pool/R	iffle/Run/Notes
1 2	-			
3				
4				
5				

WATER QUALITY

Water Temp. (°C): 15	D.O. (ppm):	pH:	Visible Characteristics/Other Parameters:
Air Temp. (°C): 20	D.O. (%):	TDS (ppm):	winked
Time Taken: 1115 Location Taken: © Columb	Conductivity (µs/cm):		V

SITE DRAWING

Include: watercourse and name, flow direction, riffle/pool/run habitat, side tributaries, station location, approx. reach length, channel modifications, adjacent landuse, roads & road names, bridges, culverts, north arrow, etc...

· good flow. 71m/10 ser · good fich habital · pool als of culvert 3.5 m wide 5m long . 25m deep · stronglish v changer lized

PHOTOS TAKEN

Photo #	Description	Photo #	Description	
857 -	uls (south foring) view	963	-d/s view	
858 5	with side of coldstrain	parallel		
859+86	0 - charmel #uls o	coulstrained.		
861-00	Wert south side of	d		
	Is view (forms nort			

GENERAL COMMENTS

Fish observed, unususal conditions, differences from previous site visit, landowner comments, topography, general land use and vegetation, etc.:

no fish observed

1231 Bornish wf

p.1 of 13 20 Sept 11 a. Mackeigh

air: 18 wind: 0

Precipi & CC. 30%

WC# 58

17T 0447315 4773576

*soup bean field

·no wc/grassed waterway present

· photo 822 - facing west (springbank id)
823 - facing east

WC#54

WWW RiteintheRain com

17T 0445539 4775067

· drainage ditch - patches of water

· agricultural pond on east side of Dentre

°Cottails, goldenrod, grasses 14°C

· murky water - flow through 3m wide box culvert under road - due to rain

*channel not really defined - overgrown w plants

· photo 824 west (d/s) side

826 - east (u/s) side

827 - online-pond u/s side

WC# 55 17T 0445383 4774393 ·ful assessment · murky, in flow, runs along flelds (shought). · photo's 828 - 833 17T 0445293 WC # 56 -east side grassed waterway - west side roodside ditch - in water due to rain photos: 834 - ditch/culvert east (u/s side) 835 - grassed waterway (u/s) 836-837 - ditch (a/s) west side 177 0444721 4771425 W2#51 egrassed waterway "catails present@albert owater present @ road/culvert photos: 838 + 839 d/s (west) view 840 + 841 U/S (east) view WC#43 17T 0442935 4772847 ono water/wc

photo 842 - upstream (east side) view
843 - west (d/s) view
844 - culvert + grate d/s ride (west)

p.3 of 13.

mainly underground 4773638
-south through soya field
-north swath through corn
photos: 845 - view d/s (north) through
cornfield
846 - south (u/s) mainly under soyafield
847 - portion in channel exposed (u/s)

#36 17T 0443270

of III assessment 477 4286

slow flow, murky

opol. flow habitat

photos 848-852

17T 0443037
4774535

·d/s of #36 @ coldstream rol.

·d/s side is lined w rocks

photos: 853 - u/s (south) view

854 - "/s (facing north) view

856 - d/s (facing north) view

17 044256 • full assessment • photos 857 - 863

ofull assessment photos 868 - 868	177 044 1916 4774790
-full assessment · lots of water - flow p · deeper pools - open 4m photos 869 - 873	uide box culvert.
wc # 30a (59) 1= · d/s of #29 · photos 874 + 875 - 876 + 877 - 0	
of 11 assessment photos 878 - 88 fish observed "	17T 0440710 4775081
· full assessment · fish observed	T 0440085 4775233
photos 882-888	vide only flowing through Im

1231 Bornish WF p5.413
Sept 21, 2011 G. Hackeigh
air: 22°C@1235 CC:30
Wind: Ø Precip: Ø

efull assessment 4775592

caus in stream

crosion on banks

hotos 889-893

UC #3

17 T 4775347

• U/S of #2, south of coldstream on Roddick

• dissappears into saya field

• photo 894 - saya field (facing SE)

895 - road (facing N)

of through field nothing there 4774498

photos: 398 facing north (parallel to Roddick)

899-facing south

photo 896+897-ditch along roddick

clast side of road)

WC#15 17T 0438980 015 of #9 4773800

photos 900+901-d/s view (f. north)
902-facing south-field

171 0438653 · no we observed 4772504 ophoto 903 - facing east 904 - west vew 17T 6438571 grassed waterway (south) 4771989.

photo: 905-facing south from elimitreered

906-facing north from "" Un # 20 177 0438342

Photo 907 Pacing north 4772048

908 facing south egrassed/soya field 4770301

photo 909 - facing north (from elimtree rall)

910 - facing south "" 177 9444039 · full assessment · photos 911'-917

p. 70f13 21 Sept 11 3-Mackeigh

Air: 17 Wind: 3 Pracip: Ø CC: 100%

W2#49

17T 0444054

·non existent · sough field

4771789

e photo

918 north view

920 South view

WC#50

175 4771514

· non existent - cornfield

· photos - 920-921

wr # 53

8-FO JAPO TE1 BB4FF4

· full assessment

· photos 922-926

wc#38

17 OH4411

full assessment

4774689

· nice through forest

· loses definition through field

· photos 927-932

L DARLING CORP. TACOMA, WA 98424-1017 www.RiteintheRaln.com

2.2/2

wc# 35 Soupfield - non exister photos: 933 - lacing a 934 - facing	177 0412629 14776067 12031 west
wc #33 •full assessment •photos 935-946	177 0442490 4775608
com/soya fields non existent photo 942-facing 143-facing	17T 0443163 4771953 north
· non existent · Photos 944 facing 945 facing	17T 6443264 4771760 east South
e full assessment photos 946-947	177 0442673 4772016

p.9 of 13

1031 Bornish WK 21 Sept p10+13 WC# 26 FT 0439682 pond 477 2769 canada goose, frogs photo 958 - facing east 7 middle of 959 - focing west pond FT 0438656 · through sayafield 4773419 · motorway · moto 960 - south 961 - north WC#18 AT 0438569 ofull assessment 4773576 opockets of water-mainly dry photos 962-966

p. 11 of 13 1230 Bornish WF 20 Sept 11 Aquatics CC: 70 air: 17 wind: 1 Precip: 0 ophoto 967 - facing south(u/s) 4774663 ono water 969 - channel · grass_lined. *proto 970-facing north fields - nonexistent WC# 11 o nonexistent-field
o photo 972 - south 4774470

WC#12

HT 0439647

· full assessment

· no water

· photos 974 - 977

1231 Bornish WF 22 Sept 11

6. Hackigh

WC#13	177 0499885
·full assessment	4774436
-photos 978-9:82	drain
efull a ssessment · walter present · no flow · photos 983 - 986	9T 0440242 4774340
· fields - wic neverthent · proto 987 - facing n 988 - 11 11 50	FFT 0438816 4774677 orth
full assessment "alls of #7 "lile drain flowing photos 989-991	177 0138515 4771763
ofoll assessment ophotos 992-995	17T 0438893 4774741

supposed to be full assessment
but just a grassed waterury.

photo 1000 - Southnew (u/s)

too1 - d/s (north)

too3 - west view abercia joins

UC#23
O438953
Ograssed waterway
Photos_104-dls (north)
105-u/s (south)
106-channel

ING CORE TACOMA WA 98424-101

Appendix II Site Investigation Photographs	

1231 Bornish Wind Energy Centre Water Body Photographs

Ptsebe Creek



Figure 1 WB16/TribC facing upstream to the southwest.



Figure 2 WB4/TribD facing downstream and north.



Figure 3 WB17/TribD facing downstream and north.



Figure 4 WB3/TribE facing north.