



APPENDIX A

Summary of Results from Winter 2010 Stream Flow Monitoring Program

Stream Guaging Data Form

STREAM NAME: Millstream Creek
SITE NO: D0H5
Elevation: 166 m
UTM COORDINATES: 0462566E, 5372937N
GPS ACCURACY: +/- 6m
MEASUREMENT BY: NG/TL
COMPUTATIONS BY: TL
PICTURE NUMBERS : 3168-3176

PROJECT NUMBER : 07-1414-0014-3000
MEASUREMENT DATE: March 4, 2010
METER NUMBER: FP101
MEASUREMENT START TIME: 10:36 am
MEASUREMENT END TIME:
COMMENTS: Measurement location 20m upstream from original survey location. Vertical left and right banks.

Station No.	Measured Distance (m)	Distance From Bank (m)	Depth (m)	Velocity			Width (m)	Discharge (m ³ /s)
				0.2 Depth (m/s)	0.8 Depth (m/s)	0.6 Depth (m/s)		
LB	0.2	0	0.32			0		
1	0.4	0.20	0.546			0.04	0.2	0.004
2	0.6	0.40	0.628			0.1	0.2	0.013
3	0.8	0.60	0.64			0.13	0.2	0.017
4	1	0.80	0.66			0.12	0.2	0.016
5	1.2	1.00	0.68			0.09	0.2	0.012
6	1.4	1.20	0.586			0	0.2	0.000
7	1.6	1.40	0.53			0	0.2	0.000
8	1.8	1.60	0.41			0	0.2	0.000
RB	2	1.80	0.33			0		
TOTAL DISCHARGE :								0.062

Stream Gauging Data Form

STREAM NAME: Craigflower Creek	PROJECT NUMBER : 07-1414-0014-3000
SITE NO: DOH10	MEASUREMENT DATE: March 4, 2010
Elevation: 41m	METER NUMBER: N/A
UTM COORDINATES: 0465762E, 5369684N	MEASUREMENT START TIME: 4:55 pm
GPS ACCURACY: +/- 6.0m	MEASUREMENT END TIME:
MEASUREMENT BY: NG/TL	COMMENTS: Site is east of bridge on Highland Road, flat land on creek sides, cobbles, sand and gravel creek base.
COMPUTATIONS BY: NG	
PICTURE NUMBERS : 3202 - 3204	

Station No.	Measured Distance (m)	Distance From Bank (m)	Depth (m)	Velocity			Width (m)	Discharge (m ³ /s)
				0.2 Depth (m/s)	0.8 Depth (m/s)	0.6 Depth (m/s)		
LB	0.5		0.14			0		
1	0.6	0.10	0.15			0	0.1	0.000
2	0.7	0.20	0.192			0	0.1	0.000
3	0.8	0.30	0.208			0	0.1	0.000
4	0.9	0.40	0.236			0.04	0.1	0.001
5	1	0.50	0.27			0	0.1	0.000
6	1.1	0.60	0.286			0.06	0.1	0.002
7	1.2	0.70	0.268			0.07	0.1	0.002
8	1.3	0.80	0.326			0.07	0.1	0.002
9	1.4	0.90	0.29			0.07	0.1	0.002
10	1.5	1.00	0.312			0.08	0.1	0.002
11	1.6	1.10	0.334			0.11	0.1	0.004
12	1.7	1.20	0.332			0.11	0.1	0.004
13	1.8	1.30	0.346			0.11	0.1	0.004
14	1.9	1.40	0.334			0.11	0.1	0.004
15	2	1.50	0.31			0.12	0.1	0.004
16	2.1	1.60	0.28			0.13	0.1	0.004
17	2.2	1.70	0.322			0.12	0.1	0.004
18	2.3	1.80	0.308			0.13	0.1	0.004
19	2.4	1.90	0.336			0.14	0.1	0.005
20	2.5	2.00	0.328			0.13	0.1	0.004
21	2.6	2.10	0.286			0.15	0.1	0.004
22	2.7	2.20	0.3			0.14	0.1	0.004
23	2.8	2.30	0.338			0.14	0.1	0.005
24	2.9	2.40	0.329			0.13	0.1	0.004
25	3	2.50	0.304			0.14	0.1	0.004
26	3.1	2.60	0.308			0.15	0.1	0.005
27	3.2	2.70	0.298			0.14	0.1	0.004
28	3.3	2.80	0.318			0.13	0.1	0.004
29	3.4	2.90	0.276			0.12	0.1	0.003
30	3.5	3.00	0.256			0.13	0.1	0.003
31	3.6	3.10	0.282			0.03	0.1	0.001
32	3.7	3.20	0.15			0.12	0.1	0.002
RB	3.8	3.30	0			0		
TOTAL DISCHARGE :								0.094



APPENDIX B

Photographs of Monitoring Well Upgrade



APPENDIX B

Monitoring Well Upgrades



Photograph 1: Pre-existing condition of monitoring well DOH-04A. The well was completed in a well pit and the casing did not extend a minimum of 0.3 m above the floor of the pit, as required under the BC Ground Water Protection Regulation.



Photograph 2: The well casing was extended so that the top of casing would be greater than 0.3 m above ground surface adjacent to the well following removal of the retaining walls and regrading of the area.



APPENDIX B

Monitoring Well Upgrades



Photograph 3: The area around the well casing was excavated and a form was placed around the casing. Bentonite was placed in the excavation and the form and hydrated to establish a seal around the well casing. The well was secured with a lockable cap.



Photograph 4: The wooden retaining walls were removed and the well pit was filled with clean fill materials. Ground surface was graded to convey surface water away from the wellhead. A well identification plate was attached to the well casing.