

CRBC Macroinvertebrate Data Collection Sheet

Date: 9/22/2011

Time: 10:45 a.m.

Collectors: Rebecca Walker, Greer Ramsey, Greg Benge (Clackamas River Basin Council)

Weather: Fair **Location:** WQ Site CLR1 (Clear Creek at Cedarhurst)

GPS Coordinates: 45.33053, 122.428

Type of Habitat Sampled (riffle, pool, glide): Glide (same spot as last year – lower flow this year meant the water was more of a glide as opposed to a riffle).

Notes:

%Dominance = Top three most abundant organisms divided by total # organisms from sample

>23 = No impairment

17 – 23 = Moderate impairment

<17 = Severe impairment, fails assessment

Total Score: 18

Metric	Observed Families	Scoring Criteria			Score (circle)
		5	3	1	
Taxa Richness (total # families)	14	>18	10-18	<10	5 <u>3</u> 1
Mayfly Richness	5	>4	2-4	<2	<u>5</u> 3 1
Stonefly Richness	2	>3	1-3	0	5 <u>3</u> 1
Caddisfly Richness	1	>4	2-4	<2	5 3 <u>1</u>
% Chironomidae	0	<15	15-30	> 30	<u>5</u> 3 1
% Dominance (Top 3 Taxa)	68%	<30	30-50	>50	5 3 <u>1</u>

Organism Family	Mayfly, Stonefly, Caddisfly?	Chironomidae?	# Organisms
Crayfish			1
Small minnow	Mayfly		8
Ameletid	Mayfly		4
Prong Gill	Mayfly		3
Flathead	Mayfly		8
Roach Like	Stonefly		1
Golden	Stonefly		3
Square Gill	Mayfly		5
Worm			16
Midge (Chironomidae)		Yes	1
Net Wing			2
Casemaker	Caddisfly		2
Water Mite			7
Snail			12
Total: 14			Total: 73

* Notes: Entire Caton tray was sampled in order to achieve 300 organism sample.

CRBC Macroinvertebrate Data Collection Sheet

Date: 9/22/2011

Time: 12:30 p.m.

Collectors: Rebecca Walker, Greer Ramsey, Greg Benge (Clackamas River Basin Council)

Weather: Fair

Location: WQ Site 12345

GPS Coordinates: 45.33186, 122.425

Type of Habitat Sampled (riffle, pool, glide): Riffle

Notes:

%Dominance = Top three most abundant organisms divided by total # organisms from sample

>23 = No impairment

17 – 23 = Moderate impairment

<17 = Severe impairment, fails assessment

Total Score: 24

Metric	Observed Families	Scoring Criteria			Score (circle)
		5	3	1	
Taxa Richness (total # families)	19	>18	10-18	<10	<u>5</u> 3 1
Mayfly Richness	5	>4	2-4	<2	<u>5</u> 3 1
Stonefly Richness	4	>3	1-3	0	<u>5</u> 3 1
Caddisfly Richness	3	>4	2-4	<2	5 <u>3</u> 1
% Chironomidae	0.01%	<15	15-30	> 30	<u>5</u> 3 1
% Dominance (Top 3 Taxa)	70%	<30	30-50	>50	5 3 <u>1</u>

Organism Family	Mayfly, Stonefly, Caddisfly?	Chironomidae?	# Organisms
Water Penny			7
Slender	Stonefly		9
Golden	Stonefly		12
Little Green	Stonefly		10
Yellow	Stonefly		11
Small Minnow	Mayfly		183
Spiny Crawler	Mayfly		1
Flathead	Mayfly		11
Prong Gill	Mayfly		33
Green Rockworm	Caddisfly		4
Midge			2
Tubemaker	Caddisfly		3
Blackfly			3
Casemaker	Caddisfly		29
Ameletid	Mayfly		2
Water mite			4
Water Strider			1
Saddle Casemaker	Caddisfly		6
Snail			11
Total: 19			Total: 369

* Notes: Entire Caton tray was sampled in order to achieve 300 organism sample.

CRBC Macroinvertebrate Data Collection Sheet

Date: 9/22/2011

Time: 2:40 p.m.

Collectors: Rebecca Walker, Greer Ramsey, Greg Benge (Clackamas River Basin Council)

Weather: Fair

Location: WQ Site FC1 (Foster Creek)

GPS Coordinates: 45.38317, 122.448

Type of Habitat Sampled (riffle, pool, glide): Riffle

Notes:

%Dominance = Top three most abundant organisms divided by total # organisms from sample

Chironomidae include: The family is divided into eleven subfamilies: [Aphroteniinae](#), [Buchonomyiinae](#), [Chilenomyiinae](#), [Chironominae](#), [Diamesinae](#), [Orthocladiinae](#), [Podonominae](#), [Prodiamesinae](#), [Tanypodinae](#), [Telmatogetoninae](#), [Usambaromyiinae](#).^{[8][9]}

>23 = No impairment

17 – 23 = Moderate impairment

<17 = Severe impairment, fails assessment

Total Score: 20

Metric	Observed Families	Scoring Criteria			Score (circle)
		5	3	1	
Taxa Richness (total # families)	16	>18	10-18	<10	5 <u>3</u> 1
Mayfly Richness	4	>4	2-4	<2	5 <u>3</u> 1
Stonefly Richness	3	>3	1-3	0	5 <u>3</u> 1
Caddisfly Richness	3	>4	2-4	<2	5 <u>3</u> 1
% Chironomidae	0.01%	<15	15-30	> 30	<u>5</u> 3 1
% Dominance (Top 3 Taxa)	66%	<30	30-50	>50	5 3 <u>1</u>

Organism Family	Mayfly, Stonefly, Caddisfly?	Chironomidae?	# Organisms
Yellow	Stonefly		2
Worm			7
Small Minnow	Mayfly		44
Green Rock Worm	Caddisfly		12
Water Penny			1
Casemaker	Caddisfly		11
Midge		x	1
Blackfly			1
Riffle Beetle			3
Golden	Stonefly		1
Little Green	Stonefly		1
Water Mite			1
Prong Gill	Mayfly		12
Square Gill	Mayfly		1
Tubemaker	Caddisfly		3
Flathead	Mayfly		1
Total: 16			Total: 102

* Notes: Entire tray of invertebrates was sampled in an attempt to reach 300 organisms.

CRBC Macroinvertebrate Data Collection Sheet

Date: 9/22/2011

Time: 9:45 a.m.

Collectors: Rebecca Walker, Greer Ramsey, Greg Benge (Clackamas River Basin Council)

Weather: Fair **Location:** WQ Site NFD1 (Boring Trailhead, N. Fork Deep Creek)

GPS Coordinates: 45.3941, 122.42

Type of Habitat Sampled (riffle, pool, glide): Riffle/Glide – water level low

Notes:

%Dominance = Top three most abundant organisms divided by total # organisms from sample

>23 = No impairment

17 – 23 = Moderate impairment

<17 = Severe impairment, fails assessment

Total Score: 10

Chironomidae include: The family is divided into eleven

Metric	Observed Families	Scoring Criteria			Score (circle)
		5	3	1	
Taxa Richness (total # families)	6	>18	10-18	<10	5 3 <u>1</u>
Mayfly Richness	1	>4	2-4	<2	5 3 <u>1</u>
Stonefly Richness	0	>3	1-3	0	5 3 <u>1</u>
Caddisfly Richness	0	>4	2-4	<2	5 3 <u>1</u>
% Chironomidae	9%	<15	15-30	> 30	<u>5</u> 3 1
% Dominance (Top 3 Taxa)	78%	<30	30-50	>50	5 3 <u>1</u>

Organism Family	Mayfly, Stonefly, Caddisfly?	Chironomidae?	# Organisms
Water Mite (Hydracarina)			2
Scud (Amphipoda)			2
Snail (Gastropoda)			6
Small Minnow (Ephemeroptera)	Mayfly		5
Midge (Chironomidae)		Yes	2
Worm (Oligochaeta)			11
Total: 6			Total: 28

* Notes: Entire sample collected was analyzed. Saw sculpin on-site.