



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report

Station Information

Station Number: S-674 River Basin: Androscoggin
Waterbody: Wild River - Station 674 HUC8 Name: Lower Androscoggin
Town: Batchelders Grant Twp Latitude: 44 22 14.12 N
Directions: NEAR FIRST WHITE MOUNTAINS NATIONAL FOREST SIGN Longitude: 70 59 35.74 W
Stream Order: 4

Sample Information

Log Number: 2838 Type of Sample: ROCK BAG Date Deployed: 8/21/2020
Subsample Factor: X4 Replicates: 3 Date Retrieved: 8/21/2020

Classification Attainment

Statutory Class: A Final Determination: C Date: 3/3/2022
Model Result with $P \geq 0.6$: C Reason for Determination: Model
Date Last Calculated: 10/19/2021 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.05	Class A, B, or C	1.00
Class B	0.64	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	0.22	Class A	0.12
Class C or Non-Attainment	0.78	Class B or C or Non-Attainment	0.88

Model Variables

01 Total Mean Abundance	1592.00	18 Relative Abundance Ephemeroptera	0.04
02 Generic Richness	36.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	17.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	24.00
04 Ephemeroptera Mean Abundance	62.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	2.99	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	261.33
06 Hilsenhoff Biotic Index	4.61	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	9.33
07 Relative Abundance - Chironomidae	0.37	28 EP Generic Richness/14	0.57
08 Relative Generic Richness Diptera	0.47	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	772.00		
11 <i>Cheumatopsyche</i> Abundance	37.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.94		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	17.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	34.67		
17 Chironomini Abundance (Family Functional Group)	65.33		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	48.49
2	<i>Cricotopus</i>	12.73
3	<i>Tvetenia</i>	8.71
4	<i>Polypedilum</i>	3.85
5	<i>Simulium</i>	2.85



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Number: S-674	Town: Batchelders Grant Twp	Date Deployed: 8/21/2020
Log Number: 2838	Waterbody: Wild River - Station 674	Date Retrieved: 8/21/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	18.7 deg C
Dissolved Oxygen:	9.85 mg/l
Dissolved Oxygen Saturation:	108.4 %
Specific Conductance:	17.3 uS/cm
Velocity:	39.6 cm/s
pH:	6.74
Wetted Width:	28 m
Bankfull Width:	36 m
Depth:	26 cm

Waterbody Information - Retrieval

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Mountainous
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Logging	Minimally Disturbed	Boulder 40 %
		Gravel 10 %
		Rubble/Cobble 40 %
		Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	10655	High Int. Dev. %	0.0	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4
Total Land (ac)	10650	High Int. Dev. %	0.0	Water %	N/A	Non-vegetated %	N/A
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4

Sample Comments



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Paragnetina</i>	09020209049	1.33	5.33	1	PR	0.1	0.3
<i>Paragnetina immarginata</i>	09020209049149	4.00			--	0.3	
<i>Aagnetina</i>	09020209050		12.00	2	PR		0.8
<i>Aagnetina capitata</i>	09020209050152	12.00		2	PR	0.8	
<i>Baetis</i>	09020401001	1.33	6.67	4	CG	0.1	0.4
<i>Baetis flavistriga</i>	09020401001004	2.67			--	0.2	
<i>Baetis phuto</i>	09020401001009	1.33			--	0.1	
<i>Baetis tricaudatus</i>	09020401001012	1.33			--	0.1	
<i>Acerpenna</i>	09020401007		4.00	5	CG		0.3
<i>Acerpenna macdunnoughi</i>	09020401007001	4.00			--	0.3	
<i>Plauditus</i>	09020401012	40.00	40.00		CG	2.5	2.5
<i>Maccaffertium</i>	09020402015	9.33	9.33	4	SC	0.6	0.6
<i>Serratella</i>	09020410037		1.33	2	CG		0.1
<i>Serratella serratoides</i>	09020410037124	1.33			--	0.1	
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.1	0.1
<i>Dolophilodes</i>	09020601001		32.00	0	CF		2.0
<i>Dolophilodes distincta</i>	09020601001001	32.00			--	2.0	
<i>Chimarra</i>	09020601003	4.00	4.00	2	CF	0.3	0.3
<i>Neureclipsis</i>	09020603008	6.67	6.67	7	CF	0.4	0.4
<i>Arctopsyche</i>	09020604012		1.33		CF		0.1
<i>Arctopsyche ladogensis</i>	09020604012022	1.33			--	0.1	
<i>Cheumatopsyche</i>	09020604015	37.33	37.33	5	CF	2.3	2.3
<i>Hydropsyche</i>	09020604016	458.67	772.00	4	CF	28.8	48.5
<i>Hydropsyche morosa</i>	09020604016030	116.00			--	7.3	
<i>Hydropsyche slossonae</i>	09020604016031	45.33			--	2.8	
<i>Hydropsyche sparna</i>	09020604016032	152.00			--	9.5	
<i>Rhyacophila</i>	09020605019		5.33	2	PR		0.3
<i>Rhyacophila acutiloba</i>	09020605019056	1.33			PR	0.1	
<i>Rhyacophila fuscula</i>	09020605019060	2.67			PR	0.2	
<i>Rhyacophila minora</i>	09020605019063	1.33			PR	0.1	



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Brachycentrus</i>	09020609043		14.67	0	CF		0.9
<i>Brachycentrus appalachia</i>	09020609043096	14.67			--	0.9	
<i>Nigronia</i>	09020701003		1.33	0	PR		0.1
<i>Nigronia serricornis</i>	09020701003003	1.33			--	0.1	
<i>Hexatoma</i>	09021001008	1.33	1.33	2	PR	0.1	0.1
<i>Thienemannimyia</i>	09021011020		34.67	3	PR		2.2
<i>Thienemannimyia group</i>	09021011020041	34.67			--	2.2	
<i>Brillia</i>	09021011033	5.33	5.33	5	SH	0.3	0.3
<i>Corynoneura</i>	09021011036	18.67	18.67	7	CG	1.2	1.2
<i>Cricotopus</i>	09021011037	13.33	202.67	7	SH	0.8	12.7
<i>Cricotopus bicinctus</i>	09021011037057	189.33			--	11.9	
<i>Orthocladius</i>	09021011050	5.33	10.67	6	CG	0.3	0.7
<i>Orthocladius annectens</i>	09021011050092	5.33			--	0.3	
<i>Parametriocnemus</i>	09021011053	21.33	21.33	5	CG	1.3	1.3
<i>Rheocricotopus</i>	09021011057	2.67	2.67	6	CG	0.2	0.2
<i>Tvetenia</i>	09021011065		138.67	5	CG		8.7
<i>Tvetenia vitracies</i>	09021011065113	114.67			--	7.2	
<i>Tvetenia paucunca</i>	09021011065114	24.00			--	1.5	
<i>Micropsectra</i>	09021011070	24.00	24.00	7	CG	1.5	1.5
<i>Rheotanytarsus</i>	09021011072		40.00	6	CF		2.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	29.33			CF	1.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	10.67			CF	0.7	
<i>Tanytarsus</i>	09021011076	21.33	21.33	6	CF	1.3	1.3
<i>Microtendipes</i>	09021011094		4.00	6	CF		0.3
<i>Microtendipes rydalensis group</i>	09021011094168	4.00			--	0.3	
<i>Polypedilum</i>	09021011102		61.33	6	SH		3.9
<i>Polypedilum aviceps</i>	09021011102181	56.00			--	3.5	
<i>Polypedilum tritum</i>	09021011102191	5.33			--	0.3	
<i>Simulium</i>	09021012047	45.33	45.33	4	CF	2.8	2.8
<i>Atherix</i>	09021015055	1.33	1.33	2	PR	0.1	0.1
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.1	0.1



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Optioservus</i>	09021113067		1.33	3	SC		0.1
<i>Optioservus tardella</i>	09021113067052	1.33			--	0.1	
<i>Promoresia</i>	09021113069	1.33	1.33		--	0.1	0.1



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Waterbody: Wild River - Station 674 HUC8 Name: Lower Androscoggin
Town: Batchelders Grant Twp Latitude: 44 22 14.12 N
Directions: NEAR FIRST WHITE MOUNTAINS NATIONAL FOREST SIGN Longitude: 70 59 35.74 W
Stream Order: 4

Sample Information

Log Number: 2838 Type of Sample: ROCK BAG Date Deployed: 8/21/2020
Subsample Factor: X4 Replicates: 3 Date Retrieved: 8/21/2020

Classification Attainment

Statutory Class: A Final Determination: C Date: 3/3/2022
Model Result with $P \geq 0.6$: C Reason for Determination: Model
Date Last Calculated: 10/19/2021 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.05	Class A, B, or C	1.00
Class B	0.64	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	0.22	Class A	0.12
Class C or Non-Attainment	0.78	Class B or C or Non-Attainment	0.88

Model Variables

01 Total Mean Abundance	1592.00	18 Relative Abundance Ephemeroptera	0.04
02 Generic Richness	36.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	17.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	24.00
04 Ephemeroptera Mean Abundance	62.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	2.99	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	261.33
06 Hilsenhoff Biotic Index	4.61	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	9.33
07 Relative Abundance - Chironomidae	0.37	28 EP Generic Richness/14	0.57
08 Relative Generic Richness Diptera	0.47	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	772.00		
11 <i>Cheumatopsyche</i> Abundance	37.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.94		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	17.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	34.67		
17 Chironomini Abundance (Family Functional Group)	65.33		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	48.49
2	<i>Cricotopus</i>	12.73
3	<i>Tvetenia</i>	8.71
4	<i>Polypedilum</i>	3.85
5	<i>Simulium</i>	2.85



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Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Number: S-674	Town: Batchelders Grant Twp	Date Deployed: 8/21/2020
Log Number: 2838	Waterbody: Wild River - Station 674	Date Retrieved: 8/21/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	18.7 deg C
Dissolved Oxygen:	9.85 mg/l
Dissolved Oxygen Saturation:	108.4 %
Specific Conductance:	17.3 uS/cm
Velocity:	39.6 cm/s
pH:	6.74
Wetted Width:	28 m
Bankfull Width:	36 m
Depth:	26 cm

Waterbody Information - Retrieval

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Mountainous
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Logging	Minimally Disturbed	Boulder 40 %
		Gravel 10 %
		Rubble/Cobble 40 %
		Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	10655	High Int. Dev. %	0.0	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4
Total Land (ac)	10650	High Int. Dev. %	0.0	Water %	N/A	Non-vegetated %	N/A
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4

Sample Comments



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Paragnetina</i>	09020209049	1.33	5.33	1	PR	0.1	0.3
<i>Paragnetina immarginata</i>	09020209049149	4.00			--	0.3	
<i>Aagnetina</i>	09020209050		12.00	2	PR		0.8
<i>Aagnetina capitata</i>	09020209050152	12.00		2	PR	0.8	
<i>Baetis</i>	09020401001	1.33	6.67	4	CG	0.1	0.4
<i>Baetis flavistriga</i>	09020401001004	2.67			--	0.2	
<i>Baetis phuto</i>	09020401001009	1.33			--	0.1	
<i>Baetis tricaudatus</i>	09020401001012	1.33			--	0.1	
<i>Acerpenna</i>	09020401007		4.00	5	CG		0.3
<i>Acerpenna macdunnoughi</i>	09020401007001	4.00			--	0.3	
<i>Plauditus</i>	09020401012	40.00	40.00		CG	2.5	2.5
<i>Maccaffertium</i>	09020402015	9.33	9.33	4	SC	0.6	0.6
<i>Serratella</i>	09020410037		1.33	2	CG		0.1
<i>Serratella serratoides</i>	09020410037124	1.33			--	0.1	
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.1	0.1
<i>Dolophilodes</i>	09020601001		32.00	0	CF		2.0
<i>Dolophilodes distincta</i>	09020601001001	32.00			--	2.0	
<i>Chimarra</i>	09020601003	4.00	4.00	2	CF	0.3	0.3
<i>Neureclipsis</i>	09020603008	6.67	6.67	7	CF	0.4	0.4
<i>Arctopsyche</i>	09020604012		1.33		CF		0.1
<i>Arctopsyche ladogensis</i>	09020604012022	1.33			--	0.1	
<i>Cheumatopsyche</i>	09020604015	37.33	37.33	5	CF	2.3	2.3
<i>Hydropsyche</i>	09020604016	458.67	772.00	4	CF	28.8	48.5
<i>Hydropsyche morosa</i>	09020604016030	116.00			--	7.3	
<i>Hydropsyche slossonae</i>	09020604016031	45.33			--	2.8	
<i>Hydropsyche sparna</i>	09020604016032	152.00			--	9.5	
<i>Rhyacophila</i>	09020605019		5.33	2	PR		0.3
<i>Rhyacophila acutiloba</i>	09020605019056	1.33			PR	0.1	
<i>Rhyacophila fuscula</i>	09020605019060	2.67			PR	0.2	
<i>Rhyacophila minora</i>	09020605019063	1.33			PR	0.1	



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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
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<i>Brachycentrus appalachia</i>	09020609043096	14.67			--	0.9	
<i>Nigronia</i>	09020701003		1.33	0	PR		0.1
<i>Nigronia serricornis</i>	09020701003003	1.33			--	0.1	
<i>Hexatoma</i>	09021001008	1.33	1.33	2	PR	0.1	0.1
<i>Thienemannimyia</i>	09021011020		34.67	3	PR		2.2
<i>Thienemannimyia group</i>	09021011020041	34.67			--	2.2	
<i>Brillia</i>	09021011033	5.33	5.33	5	SH	0.3	0.3
<i>Corynoneura</i>	09021011036	18.67	18.67	7	CG	1.2	1.2
<i>Cricotopus</i>	09021011037	13.33	202.67	7	SH	0.8	12.7
<i>Cricotopus bicinctus</i>	09021011037057	189.33			--	11.9	
<i>Orthocladius</i>	09021011050	5.33	10.67	6	CG	0.3	0.7
<i>Orthocladius annectens</i>	09021011050092	5.33			--	0.3	
<i>Parametriocnemus</i>	09021011053	21.33	21.33	5	CG	1.3	1.3
<i>Rheocricotopus</i>	09021011057	2.67	2.67	6	CG	0.2	0.2
<i>Tvetenia</i>	09021011065		138.67	5	CG		8.7
<i>Tvetenia vitracies</i>	09021011065113	114.67			--	7.2	
<i>Tvetenia paucunca</i>	09021011065114	24.00			--	1.5	
<i>Micropsectra</i>	09021011070	24.00	24.00	7	CG	1.5	1.5
<i>Rheotanytarsus</i>	09021011072		40.00	6	CF		2.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	29.33			CF	1.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	10.67			CF	0.7	
<i>Tanytarsus</i>	09021011076	21.33	21.33	6	CF	1.3	1.3
<i>Microtendipes</i>	09021011094		4.00	6	CF		0.3
<i>Microtendipes rydalensis group</i>	09021011094168	4.00			--	0.3	
<i>Polypedilum</i>	09021011102		61.33	6	SH		3.9
<i>Polypedilum aviceps</i>	09021011102181	56.00			--	3.5	
<i>Polypedilum tritum</i>	09021011102191	5.33			--	0.3	
<i>Simulium</i>	09021012047	45.33	45.33	4	CF	2.8	2.8
<i>Atherix</i>	09021015055	1.33	1.33	2	PR	0.1	0.1
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.1	0.1



Maine Department of Environmental Protection **Biological Monitoring Program** **Aquatic Life Taxonomic Inventory Report**

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Optioservus</i>	09021113067		1.33	3	SC		0.1
<i>Optioservus tardella</i>	09021113067052	1.33			--	0.1	
<i>Promoresia</i>	09021113069	1.33	1.33		--	0.1	0.1



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Information

Station Number: S-674	River Basin:	Androscoggin	
Waterbody:	Wild River - Station 674	HUC8 Name:	Lower Androscoggin
Town:	Batchelders Grant Twp	Latitude:	44 22 14.12 N
Directions:	NEAR FIRST WHITE MOUNTAINS NATIONAL FOREST SIGN	Longitude:	70 59 35.74 W
		Stream Order:	4

Sample Information

Log Number: 2838	Type of Sample:	ROCK BASKET	Date Deployed:	7/24/2020	
Subsample Factor:	X4	Replicates:	3	Date Retrieved:	7/24/2020

Classification Attainment

Statutory Class: A	Final Determination: C	Date:	3/3/2022
Model Result with $P \geq 0.6$:	C	Reason for Determination:	Model
Date Last Calculated:	10/19/2021	Comments:	

Model Probabilities

<u>First Stage Model</u>		<u>C or Better Model</u>	
Class A	0.05	Class C	0.31
Class B	0.64	NA	0.00
<u>B or Better Model</u>		<u>A Model</u>	
Class A or B	0.22	Class A	0.12
Class C or Non-Attainment	0.78	Class B or C or Non-Attainment	0.88

Model Variables

01 Total Mean Abundance	1592.00	18 Relative Abundance Ephemeroptera	0.04
02 Generic Richness	36.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	17.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	24.00
04 Ephemeroptera Mean Abundance	62.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	2.99	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	261.33
06 Hilsenhoff Biotic Index	4.61	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	9.33
07 Relative Abundance - Chironomidae	0.37	28 EP Generic Richness/14	0.57
08 Relative Generic Richness Diptera	0.47	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	772.00		
11 <i>Cheumatopsyche</i> Abundance	37.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.94		
13 Relative Abundance - Oligochaeta	0.00	Five Most Dominant Taxa	
15 Perlidae Mean Abundance (Family Functional Group)	17.33	Rank	Taxon Name
16 Tanypodinae Mean Abundance (Family Functional Group)	34.67	1	<i>Hydropsyche</i>
17 Chironomini Abundance (Family Functional Group)	65.33	2	<i>Cricotopus</i>
		3	<i>Tvetenia</i>
		4	<i>Polypedilum</i>
		5	<i>Simulium</i>
			Percent
			48.49
			12.73
			8.71
			3.85
			2.85



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Number: S-674	Town: Batchelders Grant Twp	Date Deployed: 7/24/2020
Log Number: 2838	Waterbody: Wild River - Station 674	Date Retrieved: 7/24/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature:	19.7 deg C
Dissolved Oxygen:	9.59 mg/l
Dissolved Oxygen Saturation:	106.8 %
Specific Conductance:	14.2 uS/cm
Velocity:	73.2 cm/s
pH:	6.57
Wetted Width:	31 m
Bankfull Width:	36 m
Depth:	44.3 cm

Waterbody Information - Retrieval

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Mountainous
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Logging	Minimally Disturbed	Boulder 40 %
		Gravel 10 %
		Rubble/Cobble 40 %
		Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	10655	High Int. Dev. %	0.0	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4
Total Land (ac)	10650	High Int. Dev. %	0.0	Water %	N/A	Non-vegetated %	N/A
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4

Sample Comments



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Paragnetina</i>	09020209049	1.33	5.33	1	PR	0.1	0.3
<i>Paragnetina immarginata</i>	09020209049149	4.00			--	0.3	
<i>Aagnetina</i>	09020209050		12.00	2	PR		0.8
<i>Aagnetina capitata</i>	09020209050152	12.00		2	PR	0.8	
<i>Baetis</i>	09020401001	1.33	6.67	4	CG	0.1	0.4
<i>Baetis flavistriga</i>	09020401001004	2.67			--	0.2	
<i>Baetis phuto</i>	09020401001009	1.33			--	0.1	
<i>Baetis tricaudatus</i>	09020401001012	1.33			--	0.1	
<i>Acerpenna</i>	09020401007		4.00	5	CG		0.3
<i>Acerpenna macdunnoughi</i>	09020401007001	4.00			--	0.3	
<i>Plauditus</i>	09020401012	40.00	40.00		CG	2.5	2.5
<i>Maccaffertium</i>	09020402015	9.33	9.33	4	SC	0.6	0.6
<i>Serratella</i>	09020410037		1.33	2	CG		0.1
<i>Serratella serratoides</i>	09020410037124	1.33			--	0.1	
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.1	0.1
<i>Dolophilodes</i>	09020601001		32.00	0	CF		2.0
<i>Dolophilodes distincta</i>	09020601001001	32.00			--	2.0	
<i>Chimarra</i>	09020601003	4.00	4.00	2	CF	0.3	0.3
<i>Neureclipsis</i>	09020603008	6.67	6.67	7	CF	0.4	0.4
<i>Arctopsyche</i>	09020604012		1.33		CF		0.1
<i>Arctopsyche ladogensis</i>	09020604012022	1.33			--	0.1	
<i>Cheumatopsyche</i>	09020604015	37.33	37.33	5	CF	2.3	2.3
<i>Hydropsyche</i>	09020604016	458.67	772.00	4	CF	28.8	48.5
<i>Hydropsyche morosa</i>	09020604016030	116.00			--	7.3	
<i>Hydropsyche slossonae</i>	09020604016031	45.33			--	2.8	
<i>Hydropsyche sparna</i>	09020604016032	152.00			--	9.5	
<i>Rhyacophila</i>	09020605019		5.33	2	PR		0.3
<i>Rhyacophila acutiloba</i>	09020605019056	1.33			PR	0.1	
<i>Rhyacophila fuscula</i>	09020605019060	2.67			PR	0.2	
<i>Rhyacophila minora</i>	09020605019063	1.33			PR	0.1	



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Brachycentrus</i>	09020609043		14.67	0	CF		0.9
<i>Brachycentrus appalachia</i>	09020609043096	14.67			--	0.9	
<i>Nigronia</i>	09020701003		1.33	0	PR		0.1
<i>Nigronia serricornis</i>	09020701003003	1.33			--	0.1	
<i>Hexatoma</i>	09021001008	1.33	1.33	2	PR	0.1	0.1
<i>Thienemannimyia</i>	09021011020		34.67	3	PR		2.2
<i>Thienemannimyia group</i>	09021011020041	34.67			--	2.2	
<i>Brillia</i>	09021011033	5.33	5.33	5	SH	0.3	0.3
<i>Corynoneura</i>	09021011036	18.67	18.67	7	CG	1.2	1.2
<i>Cricotopus</i>	09021011037	13.33	202.67	7	SH	0.8	12.7
<i>Cricotopus bicinctus</i>	09021011037057	189.33			--	11.9	
<i>Orthocladius</i>	09021011050	5.33	10.67	6	CG	0.3	0.7
<i>Orthocladius annectens</i>	09021011050092	5.33			--	0.3	
<i>Parametriocnemus</i>	09021011053	21.33	21.33	5	CG	1.3	1.3
<i>Rheocricotopus</i>	09021011057	2.67	2.67	6	CG	0.2	0.2
<i>Tvetenia</i>	09021011065		138.67	5	CG		8.7
<i>Tvetenia vitracies</i>	09021011065113	114.67			--	7.2	
<i>Tvetenia paucunca</i>	09021011065114	24.00			--	1.5	
<i>Micropsectra</i>	09021011070	24.00	24.00	7	CG	1.5	1.5
<i>Rheotanytarsus</i>	09021011072		40.00	6	CF		2.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	29.33			CF	1.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	10.67			CF	0.7	
<i>Tanytarsus</i>	09021011076	21.33	21.33	6	CF	1.3	1.3
<i>Microtendipes</i>	09021011094		4.00	6	CF		0.3
<i>Microtendipes rydalensis group</i>	09021011094168	4.00			--	0.3	
<i>Polypedilum</i>	09021011102		61.33	6	SH		3.9
<i>Polypedilum aviceps</i>	09021011102181	56.00			--	3.5	
<i>Polypedilum tritum</i>	09021011102191	5.33			--	0.3	
<i>Simulium</i>	09021012047	45.33	45.33	4	CF	2.8	2.8
<i>Atherix</i>	09021015055	1.33	1.33	2	PR	0.1	0.1
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.1	0.1



Maine Department of Environmental Protection **Biological Monitoring Program** **Aquatic Life Taxonomic Inventory Report**

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Optioservus</i>	09021113067		1.33	3	SC		0.1
<i>Optioservus tardella</i>	09021113067052	1.33			--	0.1	
<i>Promoresia</i>	09021113069	1.33	1.33		--	0.1	0.1



Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report

Station Information

Station Number: S-674 River Basin: Androscoggin
Waterbody: Wild River - Station 674 HUC8 Name: Lower Androscoggin
Town: Batchelders Grant Twp Latitude: 44 22 14.12 N
Directions: NEAR FIRST WHITE MOUNTAINS NATIONAL FOREST SIGN Longitude: 70 59 35.74 W
Stream Order: 4

Sample Information

Log Number: 2838 Type of Sample: ROCK BASKET Date Deployed: 7/24/2020
Subsample Factor: X4 Replicates: 3 Date Retrieved: 7/24/2020

Classification Attainment

Statutory Class: A Final Determination: C Date: 3/3/2022
Model Result with $P \geq 0.6$: C Reason for Determination: Model
Date Last Calculated: 10/19/2021 Comments:

Model Probabilities

First Stage Model		C or Better Model	
Class A	0.05	Class A, B, or C	1.00
Class B	0.64	Non-Attainment	0.00
B or Better Model		A Model	
Class A or B	0.22	Class A	0.12
Class C or Non-Attainment	0.78	Class B or C or Non-Attainment	0.88

Model Variables

01 Total Mean Abundance	1592.00	18 Relative Abundance Ephemeroptera	0.04
02 Generic Richness	36.00	19 EPT Generic Richness	16.00
03 Plecoptera Mean Abundance	17.33	21 Sum of Abundances: <i>Dicrotendipes</i> , <i>Micropsectra</i> , <i>Parachironomus</i> , <i>Helobdella</i>	24.00
04 Ephemeroptera Mean Abundance	62.67	23 Relative Generic Richness- Plecoptera	0.06
05 Shannon-Wiener Generic Diversity	2.99	25 Sum of Abundances: <i>Cheumatopsyche</i> , <i>Cricotopus</i> , <i>Tanytarsus</i> , <i>Ablabesmyia</i>	261.33
06 Hilsenhoff Biotic Index	4.61	26 Sum of Abundances: <i>Acroneuria</i> , <i>Maccaffertium</i> , <i>Stenonema</i>	9.33
07 Relative Abundance - Chironomidae	0.37	28 EP Generic Richness/14	0.57
08 Relative Generic Richness Diptera	0.47	30 Presence of Class A Indicator Taxa/7	0.43
09 <i>Hydropsyche</i> Abundance	772.00		
11 <i>Cheumatopsyche</i> Abundance	37.33		
12 EPT Generic Richness/ Diptera Generic Richness	0.94		
13 Relative Abundance - Oligochaeta	0.00		
15 Perlidae Mean Abundance (Family Functional Group)	17.33		
16 Tanypodinae Mean Abundance (Family Functional Group)	34.67		
17 Chironomini Abundance (Family Functional Group)	65.33		

Five Most Dominant Taxa		
Rank	Taxon Name	Percent
1	<i>Hydropsyche</i>	48.49
2	<i>Cricotopus</i>	12.73
3	<i>Tvetenia</i>	8.71
4	<i>Polypedilum</i>	3.85
5	<i>Simulium</i>	2.85



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Classification Attainment Report**

Station Number: S-674

Town: Batchelders Grant Twp

Date Deployed: 7/24/2020

Log Number: 2838

Waterbody: Wild River - Station 674

Date Retrieved: 7/24/2020

Sample Collection and Processing Information

Sampling Organization: BIOMONITORING UNIT

Taxonomist: MICHAEL COLE

Waterbody Information - Deployment

Temperature: 19.7 deg C
Dissolved Oxygen: 9.59 mg/l
Dissolved Oxygen Saturation: 106.8 %
Specific Conductance: 14.2 uS/cm
Velocity: 73.2 cm/s
pH: 6.57
Wetted Width: 31 m
Bankfull Width: 36 m
Depth: 44.3 cm

Waterbody Information - Retrieval

Water Chemistry

Summary of Habitat Characteristics

<u>Landuse Name</u>	<u>Canopy Cover</u>	<u>Terrain</u>
Upland Conifer	Open	Mountainous
Upland Hardwood		
<u>Potential Stressor</u>	<u>Location</u>	<u>Substrate</u>
Logging	Minimally Disturbed	Boulder 40 % Gravel 10 % Rubble/Cobble 40 % Sand 10 %

Landcover Summary - 2004 Data

Total Area (ac)	10655	High Int. Dev. %	0.0	Water %	0.0	Non-vegetated %	0.0
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4
Total Land (ac)	10650	High Int. Dev. %	0.0	Water %	N/A	Non-vegetated %	N/A
		Med Int. Dev. %	0.0	Wetland %	0.5	Tilled Agriculture %	0.0
		Low Int. Dev. %	0.2	Upland Woody %	99.2	Grassland %	0.0
		Development %	0.3	Natural %	99.7	Human Altered %	0.3
						Impervious %	0.4

Sample Comments



**Maine Department of Environmental Protection
Biological Monitoring Program
Aquatic Life Taxonomic Inventory Report**

Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021
Station Number: S-674	Waterbody: Wild River - Station 674	Town: Batchelders Grant Twp
Log Number: 2838	Subsample Factor: X4 Replicates: 3	Calculated: 10/19/2021

Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Paragnetina</i>	09020209049	1.33	5.33	1	PR	0.1	0.3
<i>Paragnetina immarginata</i>	09020209049149	4.00			--	0.3	
<i>Aagnetina</i>	09020209050		12.00	2	PR		0.8
<i>Aagnetina capitata</i>	09020209050152	12.00		2	PR	0.8	
<i>Baetis</i>	09020401001	1.33	6.67	4	CG	0.1	0.4
<i>Baetis flavistriga</i>	09020401001004	2.67			--	0.2	
<i>Baetis phuto</i>	09020401001009	1.33			--	0.1	
<i>Baetis tricaudatus</i>	09020401001012	1.33			--	0.1	
<i>Acerpenna</i>	09020401007		4.00	5	CG		0.3
<i>Acerpenna macdunnoughi</i>	09020401007001	4.00			--	0.3	
<i>Plauditus</i>	09020401012	40.00	40.00		CG	2.5	2.5
<i>Maccaffertium</i>	09020402015	9.33	9.33	4	SC	0.6	0.6
<i>Serratella</i>	09020410037		1.33	2	CG		0.1
<i>Serratella serratoides</i>	09020410037124	1.33			--	0.1	
<i>Tricorythodes</i>	09020411038	1.33	1.33	4	CG	0.1	0.1
<i>Dolophilodes</i>	09020601001		32.00	0	CF		2.0
<i>Dolophilodes distincta</i>	09020601001001	32.00			--	2.0	
<i>Chimarra</i>	09020601003	4.00	4.00	2	CF	0.3	0.3
<i>Neureclipsis</i>	09020603008	6.67	6.67	7	CF	0.4	0.4
<i>Arctopsyche</i>	09020604012		1.33		CF		0.1
<i>Arctopsyche ladogensis</i>	09020604012022	1.33			--	0.1	
<i>Cheumatopsyche</i>	09020604015	37.33	37.33	5	CF	2.3	2.3
<i>Hydropsyche</i>	09020604016	458.67	772.00	4	CF	28.8	48.5
<i>Hydropsyche morosa</i>	09020604016030	116.00			--	7.3	
<i>Hydropsyche slossonae</i>	09020604016031	45.33			--	2.8	
<i>Hydropsyche sparna</i>	09020604016032	152.00			--	9.5	
<i>Rhyacophila</i>	09020605019		5.33	2	PR		0.3
<i>Rhyacophila acutiloba</i>	09020605019056	1.33			PR	0.1	
<i>Rhyacophila fuscula</i>	09020605019060	2.67			PR	0.2	
<i>Rhyacophila minora</i>	09020605019063	1.33			PR	0.1	



Maine Department of Environmental Protection **Biological Monitoring Program** **Aquatic Life Taxonomic Inventory Report**

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Taxon	Maine Taxonomic Code	Count (Mean of Samplers)		Hilsenhoff Biotic Index	Functional Feeding Group	Relative Abundance %	
		Actual	Adjusted			Actual	Adjusted
<i>Brachycentrus</i>	09020609043		14.67	0	CF		0.9
<i>Brachycentrus appalachia</i>	09020609043096	14.67			--	0.9	
<i>Nigronia</i>	09020701003		1.33	0	PR		0.1
<i>Nigronia serricornis</i>	09020701003003	1.33			--	0.1	
<i>Hexatoma</i>	09021001008	1.33	1.33	2	PR	0.1	0.1
<i>Thienemannimyia</i>	09021011020		34.67	3	PR		2.2
<i>Thienemannimyia group</i>	09021011020041	34.67			--	2.2	
<i>Brillia</i>	09021011033	5.33	5.33	5	SH	0.3	0.3
<i>Corynoneura</i>	09021011036	18.67	18.67	7	CG	1.2	1.2
<i>Cricotopus</i>	09021011037	13.33	202.67	7	SH	0.8	12.7
<i>Cricotopus bicinctus</i>	09021011037057	189.33			--	11.9	
<i>Orthocladius</i>	09021011050	5.33	10.67	6	CG	0.3	0.7
<i>Orthocladius annectens</i>	09021011050092	5.33			--	0.3	
<i>Parametriocnemus</i>	09021011053	21.33	21.33	5	CG	1.3	1.3
<i>Rheocricotopus</i>	09021011057	2.67	2.67	6	CG	0.2	0.2
<i>Tvetenia</i>	09021011065		138.67	5	CG		8.7
<i>Tvetenia vitracies</i>	09021011065113	114.67			--	7.2	
<i>Tvetenia paucunca</i>	09021011065114	24.00			--	1.5	
<i>Micropsectra</i>	09021011070	24.00	24.00	7	CG	1.5	1.5
<i>Rheotanytarsus</i>	09021011072		40.00	6	CF		2.5
<i>Rheotanytarsus exiguus group</i>	09021011072127	29.33			CF	1.8	
<i>Rheotanytarsus pellucidus</i>	09021011072128	10.67			CF	0.7	
<i>Tanytarsus</i>	09021011076	21.33	21.33	6	CF	1.3	1.3
<i>Microtendipes</i>	09021011094		4.00	6	CF		0.3
<i>Microtendipes rydalensis group</i>	09021011094168	4.00			--	0.3	
<i>Polypedilum</i>	09021011102		61.33	6	SH		3.9
<i>Polypedilum aviceps</i>	09021011102181	56.00			--	3.5	
<i>Polypedilum tritum</i>	09021011102191	5.33			--	0.3	
<i>Simulium</i>	09021012047	45.33	45.33	4	CF	2.8	2.8
<i>Atherix</i>	09021015055	1.33	1.33	2	PR	0.1	0.1
<i>Hemerodromia</i>	09021016057	1.33	1.33	3	PR	0.1	0.1



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		Actual	Adjusted			Actual	Adjusted
<i>Optioservus</i>	09021113067		1.33	3	SC		0.1
<i>Optioservus tardella</i>	09021113067052	1.33			--	0.1	
<i>Promoresia</i>	09021113069	1.33	1.33		--	0.1	0.1