

Baseline Macroinvertebrate Monitoring Report 2016-2017 for the Smith River, Meagher and Cascade Counties, MT

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Smith River Macroinvertebrate Monitoring Station #6 out of the Canyon

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All photos in the report were taken by MBS, unless otherwise noted

Executive Summary

UMOWA began the Smith River Baseline Macroinvertebrate Monitoring program in 2016. This study established eight long-term, baseline monitoring sites for sampling benthic macroinvertebrates within the Smith River corridor between Fort Logan and Eden Bridge. Six sites had been previously sampled by MDEQ in 1999 and 2002-2005, since then, very few macroinvertebrate samples have been collected. Therefore, the goals of this study are: 1) to conduct standardized, replicated and quantitative macroinvertebrate surveys to serve as the baseline standards for future monitoring efforts within this Smith River section 2) to revisit and resample six Smith River sites previously sampled by MDEQ (1999-2005) to determine if significant changes have occurred over the last decade or longer, and 3) to understand and assess the Smith River aquatic biological integrity as it relates to Sheep Creek's streamflow input.

In July 2016 and 2017, we collected quantitative, replicated macroinvertebrate samples and habitat data at eight Smith River sites. Streamflow inputs from Sheep, Rock, Tenderfoot, Hound Creek and other tributaries in the permit canyon have significant effects on the water quantity, quality and temperatures of the Smith River. Increased densities and diversity of insect communities, especially mayfly, stonefly and caddisfly taxa (EPT taxa), have been documented in the Smith River below these tributaries. Smith River sites upstream of Sheep Creek reported lower diversity, biological integrity and sensitivity of macroinvertebrates than downstream. The Smith River site at Eden Bridge reported the lowest macroinvertebrate densities of all sites, consistent with the 2002-2005 MDEQ data. Eden Bridge reported low numbers of the salmonfly (*Pteronarcys californica*), golden stonefly (*Hesperoperla pacifica*) and decent populations of the sensitive mayflies, *Rhithrogena* & *Epeorus albertae* in 2005, but these taxa remained undetected in 2016 and 2017.

EPT taxa diversity increases below the Sheep Creek confluence and maintains these values through the canyon section and then declines downstream; although there were some individual site declines in EPT taxa richness between 1999 and 2016, this was not significant overall (T-test, $p=0.07$). EPT taxa increases per site in 2017 were due to more species of tolerant mayflies and caddisflies (micro-caddis) than were previously reported. Twenty-three species of mayflies were recorded throughout the study section with the dominant three, BWO's (*Baetis tricaudatus*), Tricos (*Tricorythodes explicatus*) and Pale Morning Duns (*Ephemerella excrucians*), often exchanging dominance at any one site. Of the 21 total species of caddisflies that were collected in 2016 and 2017, the net-spinning caddisflies, *Hydropsyche occidentalis* and *Cheumatopsyche*, Mother's day caddis *Brachycentrus occidentalis* and the long-horned caddis, *Oecetis avara* were collected across all sites and were the most prevalent. While stonefly taxa are not as common as reported in 1999-2005, 7 taxa were reported across the eight sites. Stonefly diversity and EPT taxa richness, in general, increase with increasing distance from Camp Baker until the Smith River exits the canyon. The Hound Creek and Eden Bridge sites contain unique benthic fauna reporting four mayfly species that were collected nowhere else in the study. The northern crayfish (*Orconectes virilis*), which had not been reported in any MDEQ samples 1999-2005, had densities of 5, 7, 13 and 20 individuals per m^2 in 2016 at Smith River sites #5, #6, Hound Creek and Eden Bridge, respectively. Their upstream detections and numbers have further increased in 2017. This expansion of the northern crayfish upstream into increasingly warmer trout rivers is a pattern we have been documenting across western Montana.

Overall, macroinvertebrate communities collected in 2016/2017 resembled those reported from MDEQ in 1999-2005 with a 50% average taxa similarity across sites; highest between-year taxa similarity was in the permit canyon (avg. 70.5%) and lowest at Hound Creek (32%) and Eden Bridge (35%). Along with shifting taxa composition at these downstream sites, there were some non-

significant increases in % non-insect taxa and % Chironomidae (midges) comprising the samples at some sites. Substantial, but not significant reductions in mayflies, stoneflies and the percentage of EPT taxa in the samples were reported between 1999 and 2016, especially from sites both upstream and downstream of the permit canyon section. The biological integrity as measured by the MDEQ Low Valley MMI has significantly decreased across all sites from 1999 to 2016 (T-test, $p=0.012$) followed by even more significant decreases in 2017 (T-test, $p=0.0004$). This community integrity shift reflects an increase in water temperatures, nutrient concentrations and possible sediment build-up in many gravel and cobble riffle areas of the stream channel.

HBI Scores at all Smith River sites indicate that the macroinvertebrate communities are experiencing some nutrient/organic enrichment, and four of the eight (50%) monitoring sites in 2017 are exhibiting moderate organic pollution (scores 4.5-5.5), only the Eden Bridge site reported HBI scores in this range from 2002-2005. The biological integrity as measured by the HBI has significantly decreased across all sites from 1999 to 2016 (T-test, $p=0.01$), and marginal in 2017 (T-test, $p=0.06$). Smith River sites located below major tributaries reported improvements in the tolerance-level of benthic communities, especially downstream of Sheep Creek, although this was less apparent in 2017. We postulate that decreasing biological health in the Smith River section upstream from the permit canyon (Camp Baker) is substantially improved by Sheep Creek flows, while macroinvertebrate communities downstream of the permit canyon section quickly decline with some increase in biotic metrics corresponding to Hound Creek inputs. Macroinvertebrate metrics in the permit canyon reach have largely maintained similar biological health between 1999 and 2016 with some non-significant decreases in integrity (HBI, MMI) documented in 2017. This maintenance of healthier macroinvertebrate communities can be attributed to numerous tributaries entering the canyon (Rock, Spring, Trout, Tenderfoot Creeks, etc.) improving water temperatures and quality.

Despite observed increases in macroinvertebrate densities, total numbers of taxa and EPT taxa across most sites in 2017, many of these taxa are non-insects and/or are more tolerant to increased sediments and temperature. This is reflected in increases in HBI scores (more tolerant) and decreases in the MMI (lowered aquatic health). Many of these added taxa are more abundant in aquatic vegetation and filamentous algae which can be directly correlated with increasing water temperatures and higher nutrient inputs.

1.0 Introduction

In 2017, UMOWA contracted Montana Biological Survey (MBS) to continue the sampling and analysis of macroinvertebrate communities in the Smith River. This is the 2nd year of baseline macroinvertebrate data collection to resolve the lack of recent baseline data throughout the Smith River basin, but especially around the Sheep Creek confluence area near Camp Baker. The Smith River has been included on the Montana Department of Environmental Quality's (MDEQ) 303(d) list of impaired waters since 2006, from the confluence of the North and South Fork Smith River near White Sulphur Springs downstream to Hound Creek, due to low flow alterations, *Escherichia coli* levels and high total Phosphorus (MDEQ 2016). In 2017, total Nitrogen and Phosphorus levels exceeded the numeric nutrient standard set by MDEQ (Lewis 2018). A search of the MDEQ EDAS database (Jessup 2006, EDAS 2014) indicated that 6 sites in the Smith River basin have been previously sampled for macroinvertebrates (1999-2005), and this data is already well over a decade old (MDEQ 2007). There have been few quantitative macroinvertebrate samples taken in the Smith River basin since then, but see Stagliano 2010. This is surprising given the popularity of the Smith River as a recreational and fishing destination for its permitted multi-day float. UMOWA plans to increase the amount of data in the Smith River basin and near the important Sheep Creek tributary by continuing the Smith River Baseline Monitoring program for benthic macroinvertebrates in 2017 with these objectives: **1)** Quantitatively sample the Smith River above and below the Sheep Creek confluence near Camp Baker to develop a baseline database designed to detect any future changes in macroinvertebrate communities due to proposed mine operations. **2)** Revisit and resample six Smith River sites previously sampled by MDEQ (1999-2005) to determine if changes in benthic communities have occurred over the last decade or longer. **3)** Report our findings on the UMOWA website www.umowa.org and as presentations at UMOWA's annual meeting and Trout Unlimited chapter meetings and **4)** Archive this information in EDAS and STORET formats, so that is available to future public, MDEQ or USEPA inquiries.

2.0 Methods

2.1 Sample Site Selection

MBS quantitatively sampled macroinvertebrates at six previously established (1999-2005) monitoring sites between Fort Logan Bridge and Eden Bridge (MDEQ 2007). We added two sites upstream and downstream of the Sheep Creek confluence near Camp Baker in 2016 that have

not been quantitatively sampled previously (see Stagliano 2010) (**Table 1**). We sampled macroinvertebrates with 24 replicated Hess samples during stable summer flows on July 1st, and between July 5th and July 8th while floating in the Permit Canyon when flows were ~90 cfs at Fort Logan (HWY 360) Bridge and 165 cfs at Eden Bridge (**Table 1, Photo 4**).

MTDEQ used the traveling kick-net technique at five of these six sites. Metrics from this sampling technique are comparable to Hess samples, but cannot be used for quantitative density estimates. Benthic macroinvertebrates had been sampled by MDEQ with the Hess at the Eden Bridge site (Smith River float take-out) for 4 years in a row (2002-2005) with 2004 reporting both a Hess and a kick-net sample taken (MDEQ 2007). The MDEQ stream classification of the Smith River sites is as a low valley stream with elevations throughout the basin <1700m in elevation and having the majority of the upper watershed within the Middle Rockies Ecoregion (MDEQ 2012). Therefore, we used the low valley macroinvertebrate MMI (LVAL MMI) thresholds to determine impairment, but also present the mountain MMI as another useful comparison of the macroinvertebrate trends (see **Section 2.3**, MDEQ 2102).

Table 1. Smith River baseline study sites, date sampled, water parameters measured and flows (Q) on that date. *Sites not sampled by MDEQ. D/S=downstream, U/S=upstream

SITE #	Site Name	MDEQ ID	Latitude	Longitude	Date Coll.	H ₂ O Temp °C	Cond. (µs/cm)	TDS (ppm)	pH	Q (cfs)
1	Smith River D/S HWY 360	BKK 129	46.6758	-111.1444	7/1/2017	20.1	350	220	8.2	90
*2	Smith River U/S Sheep Creek Camp Baker		46.8041	-111.1824	7/1/2017	18.4	380	230	8.2	92
*3	Smith River D/S Sheep Creek		46.804	-111.1841	7/1/2017	16.7	183	122	7.9	132
4	Smith River @ USGS D/S Camp Baker	BKK 130	46.8280	-111.1924	7/5/2017	17.9	255	165	8	135
5	Smith River in permit canyon	BKK 131	47.0122	-111.2924	7/6/2017	23.4	284	175	8	160
6	Smith River D/S out of canyon	BKK 132	47.1551	-111.3307	7/8/2017	20.6	278	185	8	158
7	Smith River D/S of Hound Creek	BKK 133	47.2154	-111.3866	7/8/2017	23.6	332	212	8.1	155
8	Smith River @ Eden Bridge	M10SMTHR01	47.2362	-111.3888	7/8/2017	24.1	330	215	8.1	165

2.2 Habitat and Physical Water Sampling

Temperature and basic physical water parameters (Total Dissolved Solids, pH and Conductivity) were recorded at each site prior to macroinvertebrate sampling using an Oakton 10 water quality multi-meter, calibrated for the lower conductivity range (**Table 1**). A suite of water samples was also collected by the Smith River Habitat Restoration Group 2 weeks prior to macroinvertebrate sampling, according to MDEQ protocols (MDEQ 2012b, Lewis 2018) (pers. comm. with Sherry Meador) and processed at the Energy Laboratories in Helena. A 30 m survey tape was staked from the green-line on the stream bank to record sampling distances to where samples were taken in the stream channel (**Photo 1, Table 2**). Stream channel depths at each Hess sample point (n=3) were recorded at the time of sampling (**Table 2**). Photo points, incidental aquatic species and visual estimates of the habitat were also noted during the field visits (**Table 2**).

2.3 Macroinvertebrate Sampling

Three replicate Hess (33 cm diameter) samples were taken within a designated riffle at each site to quantitatively collect macroinvertebrates at measured distances from the bank (**Photo 1**). Three Hess samples typically capture 90% of the total taxa present in a riffle (Vinson and Hawkins 1996). Each Hess sample constitutes a benthic area of 0.1 m². At each sampling point, the Hess sampler was pushed into the stream bottom to form an effective seal and all cobbles (>64 mm) within the sampler were scrubbed clean of organisms and removed; then the entire area within the sampler frame was raked for one minute until all organic matter and macroinvertebrates were washed into the collection net of the Hess sampler (**Photo 1**). Macroinvertebrates, organic and inorganic matter were composited into a 40 liter bucket. By swirling the bucket with several water washes, organic material was elutriated from the inorganic (cobbles/gravels) portion onto a 500µm sieve, so that only macroinvertebrates and organic matter were transferred into 1 liter

Photo 1. Hess sampling procedure in a Smith River riffle near Hound Creek confluence (BK133). Distance from the greenline to the sampler was measured (redline).



labeled sampling jars filled with 95% ethanol. The inorganic portion of the sample left in the bottom of the bucket was thoroughly examined for caddisfly cases before being discarded.

2.4 Taxonomic Analysis

Samples were processed and analyzed at the Montana Biological Survey laboratory in Helena. Macroinvertebrates were picked from the samples on a random grid pattern until 500 individuals were reached, placed in vials and then identified to the lowest taxonomic level possible (genus/species) with a dissecting microscope (10-40x) following Montana Department of Environmental Quality protocols (MDEQ 2012). MDEQ low valley (LVAL) and mountain (MTN) multi-metric indices (MMIs) and numerous metrics were calculated from the data after it was entered into EDAS (Jessup 2006), including EPT taxa, % EPT, % Non-insect, % Chironomidae and the Hilsenhoff Biotic Index (HBI). The combined mayfly, caddisfly and stonefly species (EPT taxa) and the percentage of these in the sample (% EPT) are always informative metrics, as EPT taxa contain some of the more intolerant aquatic insects, usually requiring clean substrates. Generally, 20 or more EPT taxa collected at a site in the mountain streams of Montana is considered an unimpaired and healthy community (Bukantis 1996). EPT richness metrics typically decrease with increasing sediment (Barbour et al. 1999); although, Tricos (*Tricorythodes* and *Caenis*) and burrowing mayflies (*Ephemera simulans*) are silt tolerant and can increase in numbers with increasing siltation. One informative stand-alone metric is the Hilsenhoff Biotic Index (HBI) which measures the tolerance of a macroinvertebrate community to organic enrichment (Hilsenhoff 1987), but has also been used as a surrogate for sediment tolerance (MTDEQ 2012). Tolerance values are based on a 0-10 scale, where zero-ranked taxa are most sensitive and 10-ranked taxa are most tolerant to pollutants. Values of 0.0-3.5 indicate no apparent organic pollution (excellent), 3.5-4.5 possible slight organic pollution (very good), 4.5-5.5 moderate pollution (good), 5.5-6.5 fairly significant pollution, 6.5-7.5 significant pollution (fairly poor), 7.5-8.5 very significant organic pollution 8.5-10 severe organic pollution.

Table 2. Smith River Hess sample parameters measured in 2017 and incidental species captured: RMSC= Rocky mountain sculpin, LNDA= Longnose dace, ORVI=Northern crayfish.
 *Sites not sampled by MDEQ.

SITE #	Distance from Greenline (m)			Water Depth (cm)			Incidental Species		
	Hess 1	Hess 2	Hess 3	Hess 1	Hess 2	Hess 3	Hess 1	Hess 2	Hess 3
1	8	10	14	22	25	27			
*2	5	6	7	27	22	18			
*3	5	5	5	25	26	28		1 RMSC	
4	6	6	5	25	30	25	1 RMSC		
5	8	9	11	20	25	29	1 ORVI	1 RMSC	1 ORVI
6	11	12	14	22	24	30		1 ORVI	1 ORVI
7	10	12	10	22	30	25	1 ORVI + 1 RMSC	1 ORVI + LNDA	3 ORVI
8	6	8	7	20	30	25	2 ORVI	2 ORVI	1 ORVI

3.0 Results

Overall, 115 unique macroinvertebrate taxa were reported from the 48 macroinvertebrate assessment samples collected between Fort Logan and Eden Bridge in 2016 and 2017 (Appendix A). The cumulative mayfly, caddisfly and stonefly (EPT taxa) species richness across all sites was 51; 42 EPT species were reported in 2016 (Table 3); the additional EPT taxa reported in 2017 were usually found below tributaries. Average macroinvertebrate taxa richness was 33.3 taxa per site in 2016, while 45 taxa per site were reported in 2017 (Figure 1a); this 2017 data was significantly different (increase) from samples collected from 1999-2005 (T-test, $p=0.001$) (Table 4). Macroinvertebrate communities collected in 2016 resembled those reported from MDEQ samples in 1999-2005 with a 58% average taxa similarity across sites; highest between-year taxa similarity was in the permit canyon (avg. 79.5%) and the lowest at Hound Creek (30%) and Eden Bridge (34%). Along with shifting taxa composition at these downstream sites, there were some substantial increases in % non-insect taxa and % Chironomidae (midges) comprising the samples at some sites. Increases in aquatic worms (Lumbricidae and Tubificidae), snails (*Physella*) or fingernail clams (*Pisidium*, *Sphaerium*) were the causes of rising % non-insects in some of the samples (Figure 1b, Appendix A). Loss of taxa from a site is not necessarily indicative of biological impairment, unless the species lost are all sensitive taxa. Between 2005 and 2016, Eden Bridge appears to have lost salmonflies (*Pteronarcys*), the golden stonefly, *Hesperoperla* and the sensitive mayflies, *Epeorus albertae* and *Rhithrogena*. In their place, this site has added more tolerant taxa, such as the crayfish (*Orconectes virilis*), *Cricotopus* midges and Tubificidae worms (Appendix A & D). Likewise at the Hound Creek site in 2016, dominant benthic invertebrate taxa are, in order of abundance, *Hydropsyche morosa* gr., *Choroterpes albiannulata* and *Tricorythodes explicates*, whereas in 1999, BWOs (*Baetis tricaudatus*), the Heptageniid mayfly, *Ecdyonurus simplicioides*, PMD's (*Ephemerella excrucians*), and the mother's day caddis (*Brachycentrus occidentalis*) were dominant. These more-sensitive taxa were not completely lost, but have decreased substantially between 1999 and 2016 samples. Taxa shifts to more dominant tolerant taxa are being documented across most sites and are reflected in higher HBI scores (Figure 2).

Smith River macroinvertebrate densities have been significantly increasing across all sites between 2016 and 2017, except for the two sites below Sheep Creek (Figure 1a). Densities of benthic macroinvertebrates averaged 9,944 individuals per m^2 (SE \pm 1,264) across all sites in 2016, while in 2017 densities averaged 10,381 individuals per m^2 (SE \pm 1,471) and varied significantly spatially with the overall trend of higher densities above Sheep Creek and through the permit canyon and then decreasing downstream to Eden Bridge (Figure 1a). The Smith River at

Eden Bridge reported the lowest macroinvertebrate densities (~4,500 ind. per m²) of all sites, consistent with the 2002-2005 MDEQ data, while the highest average densities of 2017 were documented in the canyon (SM_HOE) at 17,220 ind. per m² and downstream of Sheep Creek (15,260 ind. per m²) in 2016 (Figure 1a). These are extremely high densities of macroinvertebrates, rivaling nutrient-rich aquatic environments, such as spring creeks or the Missouri River below Holter dam (Stagliano 2016). As a comparison, macroinvertebrate densities averaged 3,400 ind. per m² in Sheep Creek approximately 17 miles upstream from the Smith River (Stagliano, unpublished data). We could not compare benthic densities from 1999 across all sites because only Eden Bridge had Hess samples taken (see Section 3.4).

Mayfly (E) and caddisfly (T) taxa were more diverse and abundant than stonefly (P) taxa at all sites (**Table 3, Figure 5**). Highest site EPT richness, 33 and 32 species, was reported at the Smith River in the Canyon (HOE) and downstream of Sheep Creek, respectively. While the lowest cumulative EPT richness (22 spp.) was reported at the Smith River at HWY360 and below the canyon at Eden Bridge (**Table 3**). There were 23 species of mayflies recorded throughout the study section with the dominant three, BWO's (*Baetis tricaudatus*), Tricos (*Tricorythodes explicatus*) and Pale Morning Duns (*Ephemerella excrucians*, previously *Ephemerella inermis/infrequens*), often exchanging dominance at any one site depending on the silt coverage in the riffle sampling area (**Table 3**). Of the 21 total species of caddisflies that were collected in 2016, the net spinning caddisfly, *Hydropsyche occidentalis*, Mother's day caddis *Brachycentrus occidentalis* and the long-horned caddis, *Oecetis avara* were collected across all sites and were the most prevalent (**Table 3**). Populations of other net-spinning caddisflies (*Cheumatopsyche*, *Hydropsyche morosa* gr.), micro-caddis (*Hydroptila*) and snail-cased caddis (*Helicopsyche borealis*) were also common across most sites, but not as abundant (**Table 3**). High percentages of caddisflies comprising the %EPT were documented at sites below the tributaries, Sheep Creek and Hound Creek (Figure 1b). Stonefly (Plecoptera) taxa (5 species) were collected sporadically across the study reaches (**Table 3**).

The Golden Stoneflies, *Hesperoperla pacifica* and *Claassenia sabulosa* were the most widespread taxa found consistently and in higher numbers in the canyon and just downstream, with *C. sabulosa* still occurring in low numbers downstream to Eden Bridge (**Table 2, Appendix B**). In the 2016 samples, *Isoperla* (Green-winged Stoneflies), begin to disappear as you proceed downstream from Camp Baker into the canyon, but in 1999 and 2002-2003 *Isoperla* had been previously collected by MDEQ at Hound Creek and Eden Bridge. Likewise, salmonfly (*Pteronarcys californica*) individuals are still reported at Camp Baker and into the canyon in decent

numbers (Photo 2), and diminishing out of the canyon; whereas in 2004, they were collected all the way D/S to Eden Bridge. Surprisingly, only one stonefly taxa, *Skwala* was collected from the samples downstream of Sheep Creek in 2016, while in 2017 there were 4 stonefly taxa (Table 3). In comparing macroinvertebrate communities sampled at the sites between 1999-2005 and 2016, we can see some trends in decreasing number of EPT taxa and % EPT in the samples across all sites, but these were not significant (T-test, $p=0.29$) and (T-test, $p=0.26$), respectively (Figure 1a). Additionally, these EPT metrics rebounded in 2017



Table 3. The combined mayfly, stonefly and caddisfly (EPT) taxa occurrences and dominance for the entire study reach sampled. x=rare, X=common, XX=abundant, XXX=dominant at site.

Order	Species	HWY 360	Camp Baker	DS_Sheep Cr	DS_CMBaker	Mid-Canyon	DS_Canyon	DS_Hound	Eden Bridge
Mayflies	Ephemeroptera								
Baetidae	<i>Acerpenna pygmaea</i>					x		X	x
Baetidae	<i>Acentrella turbida</i>	X	x	x	x	X	x	X	X
Baetidae	<i>Baetis intercalaris</i>						x	x	x
Baetidae	<i>Baetis tricaudatus</i>	XX	x	XX	XX	X	X	X	x
Baetidae	<i>Diphetero hageni</i>		x	x		X	X	x	x
Baetidae	<i>Plauditus punctiventris</i>	x		x		x		X	
Baetidae	<i>Fallceon quilleri</i>	x						x	
Leptophlebiidae	<i>Choroterpes albiannulata</i>						x	XX	x
Leptophlebiidae	<i>Paraleptophlebia bicornuta</i>					x	x	x	x
Leptophlebiidae	<i>Paraleptophlebia sp.</i>	x	X	X	X	X	x	x	x
Leptohiphidae	<i>Tricorythodes explicatus</i>	X	XX	XX	XX	XX	X	X	x
Ephemerellidae	<i>Attenella margarita</i>		X	X			x	X	x
Ephemerellidae	<i>Ephemerella excrucians</i>	x		X	X	X			x
Ephemerellidae	<i>Caudatella heterocaudata</i>			x	x	X			
Ephemerellidae	<i>Drunella coloradensis</i>		x	X	x	X			
Ephemerellidae	<i>Drunella grandis</i>				x	X			
Ephemerellidae	<i>Serratella tibialis</i>			x	x	X			
Ephemeridae	<i>Ephemera simulans</i>	X	x			x		x	
Heptageniidae	<i>Epeorus albertae</i>			x		X	x		
Heptageniidae	<i>Leucrocuta</i>			X			X	x	
Heptageniidae	<i>Ecdyonurus simplicoides</i>	x				X			x
Heptageniidae	<i>Maccaffertium terminatum</i>					x			x
Heptageniidae	<i>Rhithrogena sp.</i>				x	x	x		
Stoneflies	Plecoptera								
Perlodidae	<i>Isoperla mormona</i>	x	x	x	x				
Perlodidae	<i>Skwala</i>	x		x				X	x
Pteronarcidae	<i>Pteronarcys californica</i>		X	X	x	X			
Pteronarcidae	<i>Pteronarcella badia</i>		x	x	x				
Perlidae	<i>Hesperoperla pacifica</i>		x		x	x	X	x	
Perlidae	<i>Claassenia sabulosa</i>		x			x	X	x	x
Nemouridae	<i>Zapada cinctipes</i>		x				x		
Caddisflies	Trichoptera								
Brachycentridae	<i>Amiocentrus aspilus</i>			x	x	x			
Brachycentridae	<i>Brachycentrus americanus</i>			x	x				
Brachycentridae	<i>Brachycentrus occidentalis</i>	X	XX	XX	X	x	x	X	x
Hydropsychidae	<i>Arctopsyche grandis</i>			x					
Hydropsychidae	<i>Cheumatopsyche</i>	X	X	X		X	XX	XX	X
Hydropsychidae	<i>Hydropsyche occidentalis</i>	X	X	X	X	X	X	x	x
Hydropsychidae	<i>Hydropsyche morosa gr.</i>	X		x				X	X
Hydropsychidae	<i>Hydropsyche slossonae</i>		x	x				X	X
Hydroptilidae	<i>Agraylea</i>		x				x	x	
Hydroptilidae	<i>Hydroptila</i>		X	X	X	X	X	X	
Hydroptilidae	<i>Mayatrachia ayama</i>		x			x	X	X	X
Hydroptilidae	<i>Neotrichia</i>		x			x	x	x	
Hydroptilidae	<i>Ochrotrichia</i>	x		x				x	
Lepidostomatidae	<i>Lepidostoma</i>	x		x	X	x			
Leptoceridae	<i>Ceraclea</i>	X							
Leptoceridae	<i>Oecetis avara</i>	X	X	X	XX	X	X	x	x
Limnephilidae	<i>Dicosmoecus gilvipes</i>	x		x		x			
Limnephilidae	<i>Onocomoecus unicolor</i>	x	x	x					
Helicopsychidae	<i>Helicopsyche borealis</i>	X	x	XX	XX	X		X	
Philopotamidae	<i>Dolophilodes</i>						X	X	
Psychomyiidae	<i>Psychomyia cf. flavida</i>							x	
	Total EPT per site	22	25	32	22	33	24	31	22

Figure 1a. Macroinvertebrate metric averages for 2016/2017 sample sites. Error bars are SE. Blue arrows are tributaries entering the Smith River. Sites arranged in upstream (l) to downstream orientation.

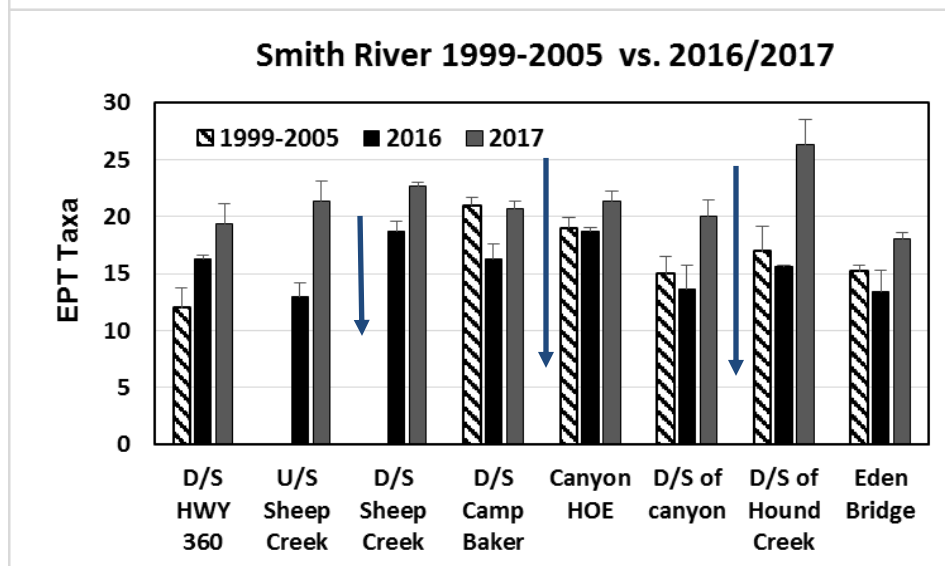
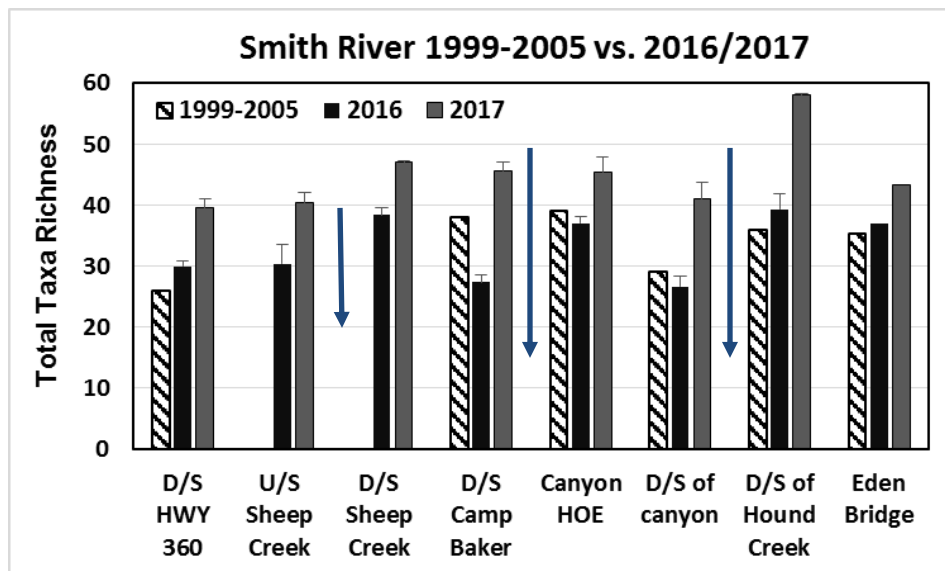
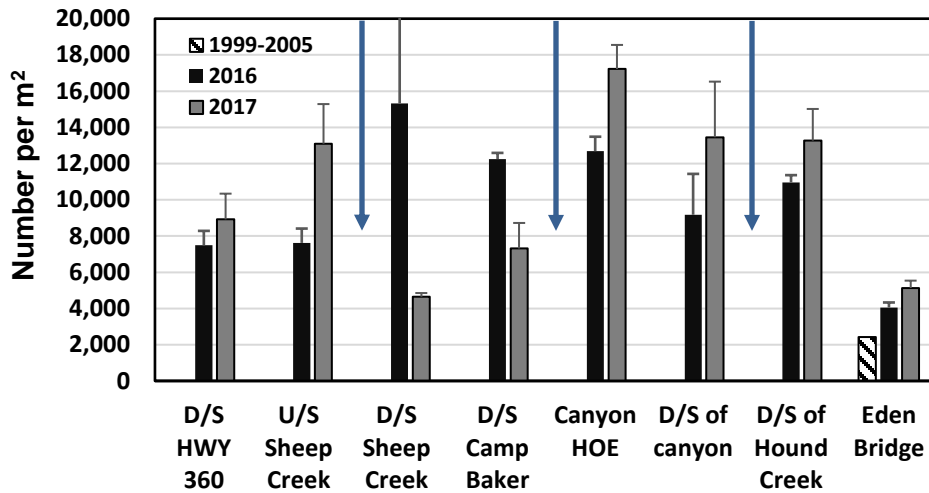


Figure 1b. Macroinvertebrate metric averages for 2017 sample sites. Error bars are SE. Blue arrows are tributaries entering. Sites arranged in upstream to downstream orientation.

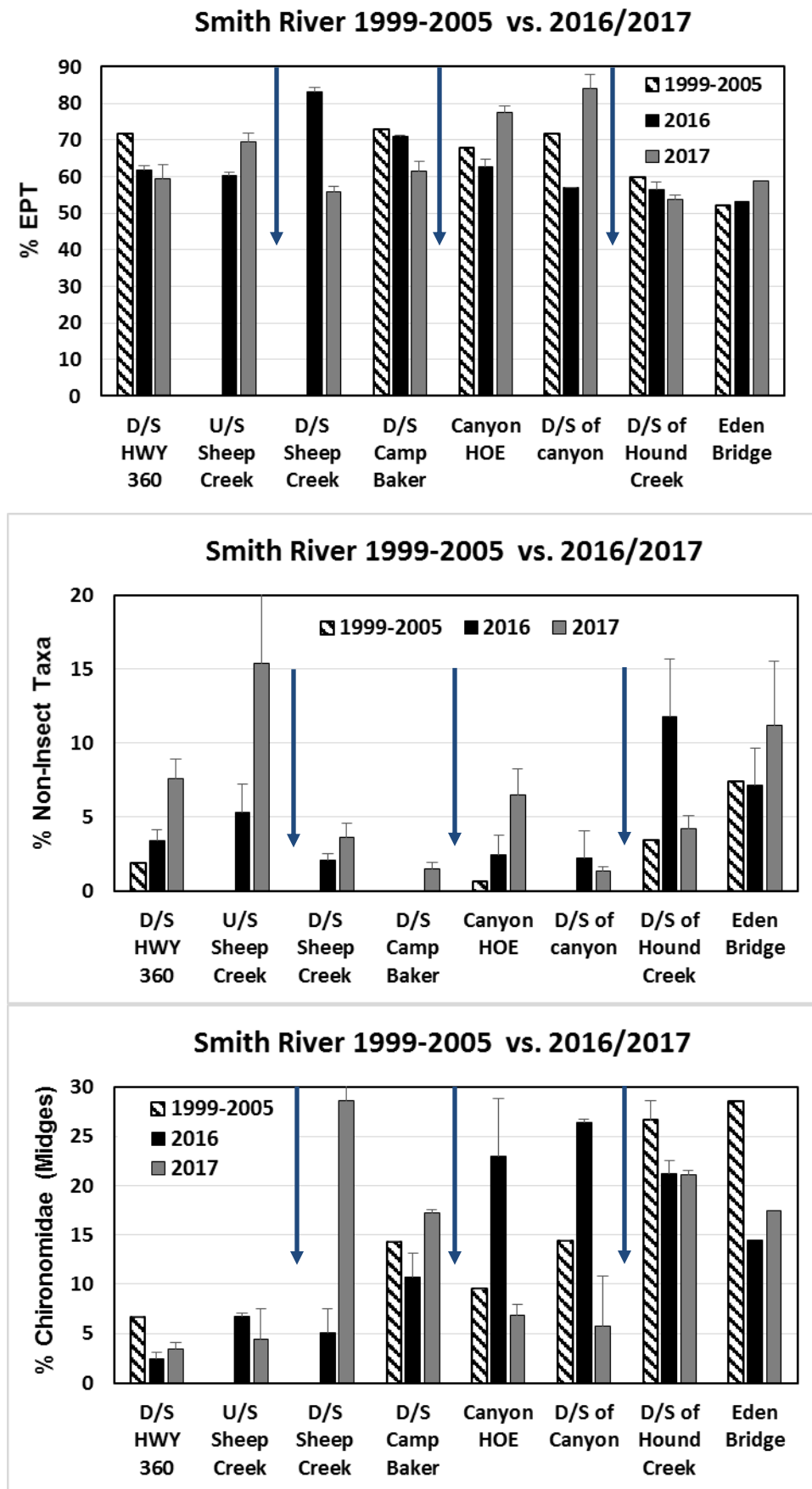
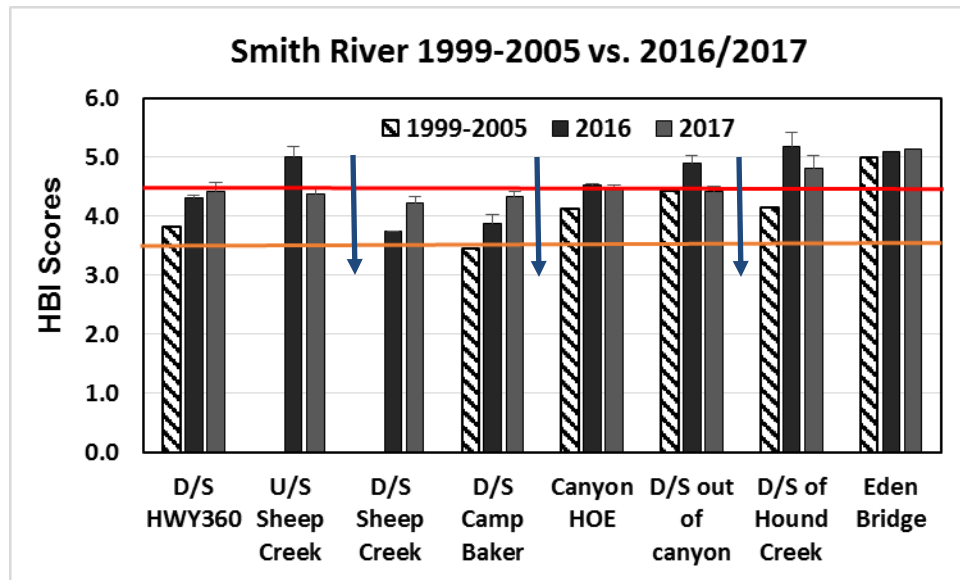


Figure 2. Macroinvertebrate HBI averages for the sample sites. Error bars are SE. Blue arrows are tributaries. Sites arranged upstream (l) to downstream (r). — Impairment Thresholds



HBI scores (>3.5) indicate that macroinvertebrate communities at all Smith River sites are experiencing some nutrient/organic enrichment, and four of the eight (50%) monitoring sites in 2017 are exhibiting moderate organic pollution (scores 4.5-5.5); these are all downstream of Rock and Tenderfoot Creeks. Only the Eden Bridge site had HBI scores in this range from 1999-2005 (Figure 2). Largest site increases in the HBI and decreases in the MMI scores between 1999 and 2017 were at HWY 360 (16%) and downstream of Camp Baker (25%) (Table 4).

Figure 3. Macroinvertebrate Low Valley MMI scores for 1999-2005 and 2016/2017 sample sites. Error bars are SE. Blue arrows are tributaries. Redline is the impairment threshold.

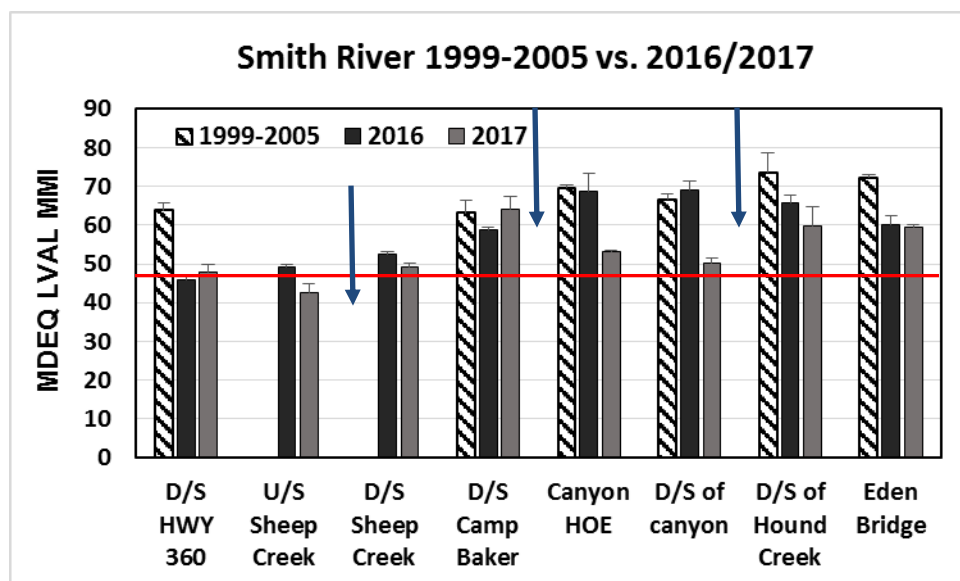
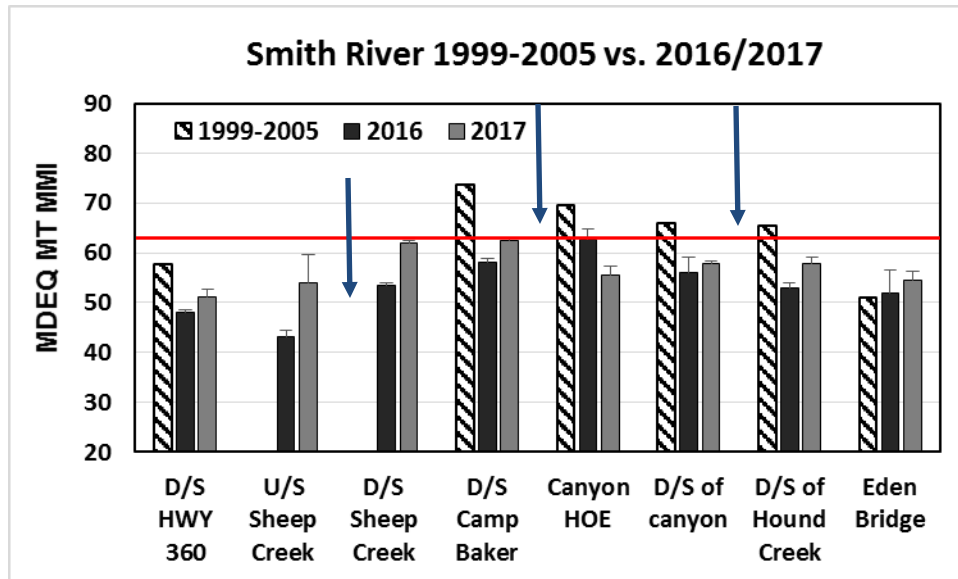


Figure 4. Macroinvertebrate Mountain MMI scores for 1999-2005 and 2016/2017 sample sites. Error bars are SE. Blue arrows are major tributaries. Redline is the impairment threshold.



Largest site decreases in the DEQ LVAL MMI scores between 1999 and 2017 were observed at HWY 360 (-28%), downstream in the permit canyon HOE (-25%), out of the canyon (-24%) and Eden Bridge (-17%) (Figure 3, Table 4). These decreases in the canyon below Tenderfoot Creek (#5 HOE & #6 out of the canyon) may be caused by the dense filamentous algae in 2017 (Photo 4). Using the MDEQ Mountain MMI which calculates a different set of metrics, not one of the 2016 or 2017 samples ranked unimpaired, whereas four of the permit canyon samples from 1999 ranked unimpaired (Figure 4). Smith River sites upstream and downstream of Sheep Creek remain impaired with this MMI, but have improved between 2016 and 2017 (Figure 4). Overall, MDEQ Mountain MMI scores decreased significantly (T-test, $p=0.0003$) on average by 13.1% between 1999 and 2017; only Eden Bridge experienced no change (Figure 4). The Smith River site below Sheep Creek showed improvements in the tolerance-level of its benthic community compared to upstream (Figure 2). Overall, the Smith River monitoring section HBI scores increased by 12.2% between 1999 and 2016; this was a significant shift (T-test, $p=0.011$) (Table 4) in the tolerance-level of benthic communities, indicating decreasing biological health. Likewise, MDEQ Low Valley MMI scores decreased on average by 10.1% between 1999 and 2016; this was also a significant shift (T-test, $p=0.012$) (Table 4).

Figure 5. Macroinvertebrate Ordinal Composition for 2017 sample sites

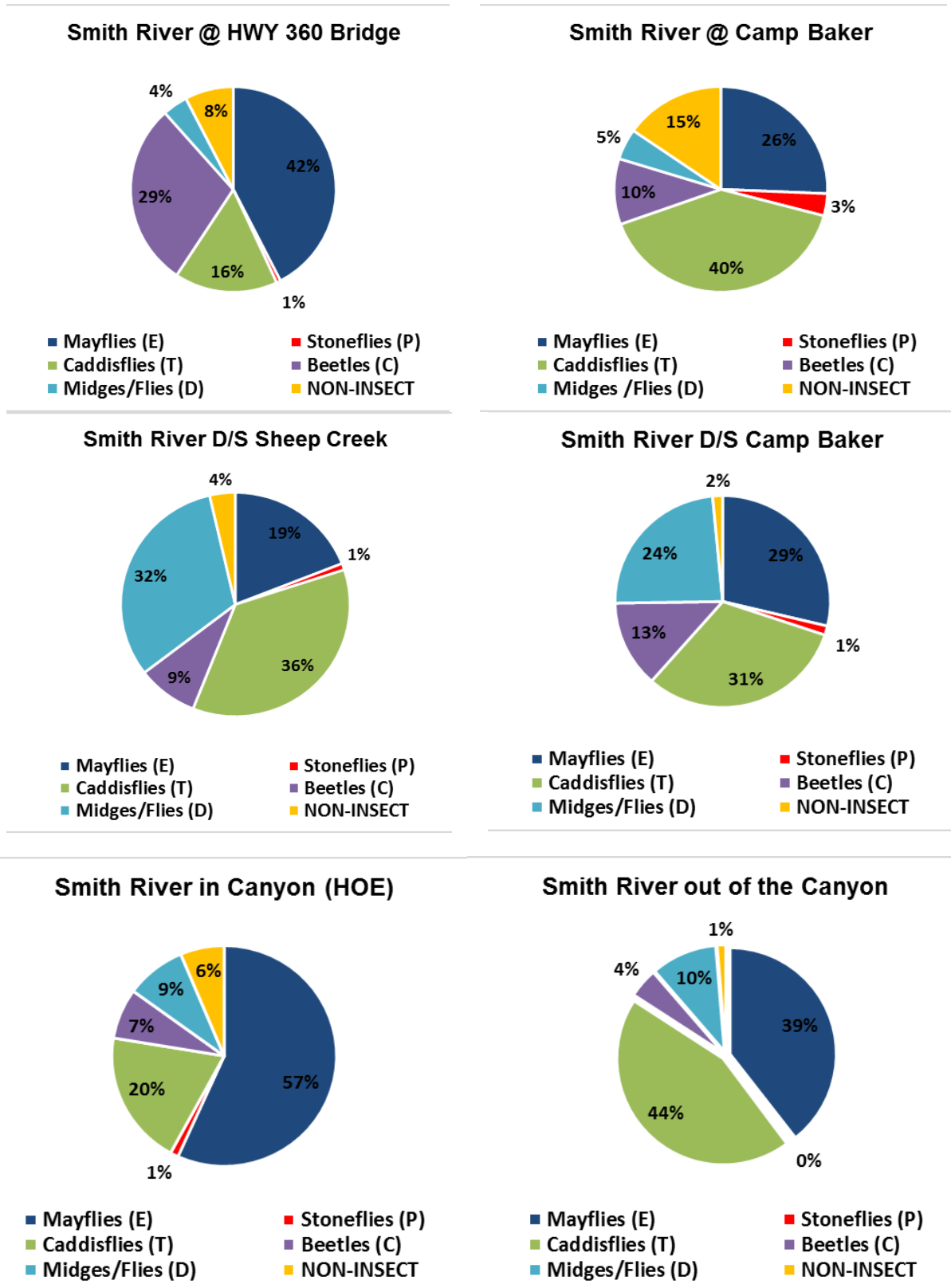
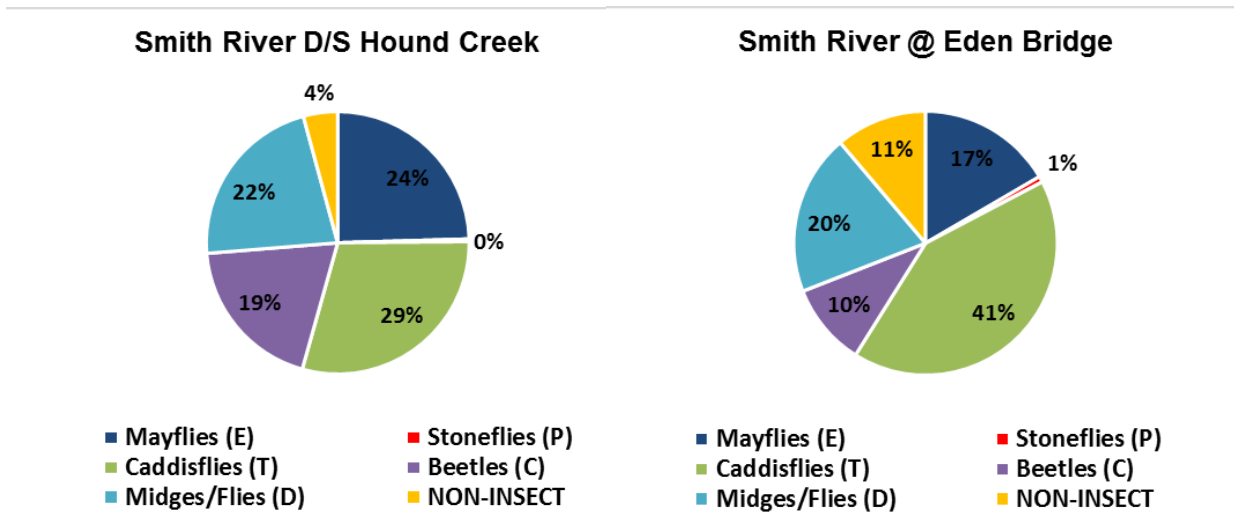


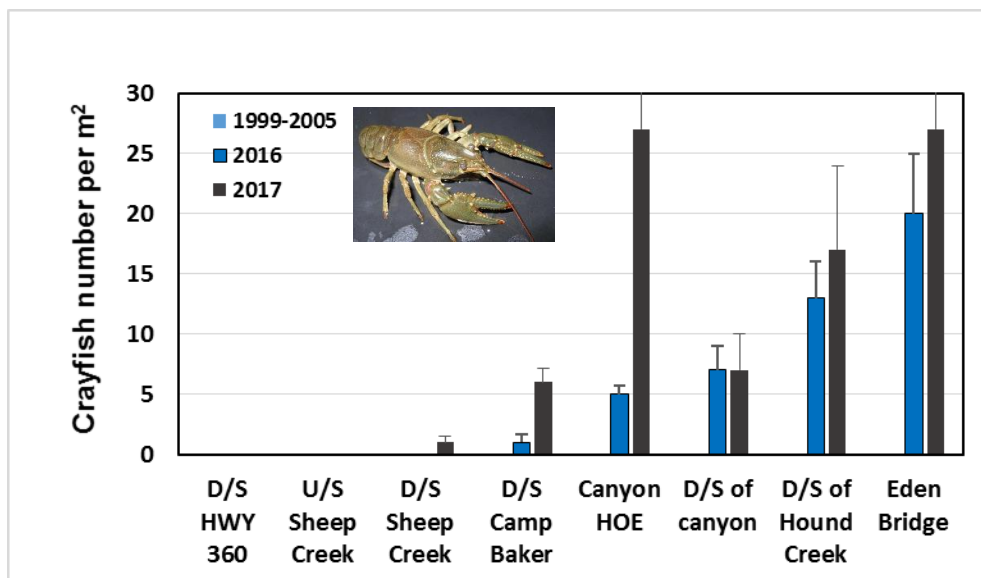
Figure 5 cont. Macroinvertebrate Ordinal Composition for 2017 sample sites.



Significant increases in the densities of Chironomidae (Midges) were detected at particular sites since 1999, especially in the canyon, D/S of Sheep Creek and just downstream of the canyon section, but this was not consistent or significant across all sites (T-test, $p > 0.05$) (Figure 1b). The large increases in midges in the Smith River below Sheep Creek in 2017 was due to the midge, *Cricotopus nostococladius* found in the cyanobacteria colonies, *Nostoc* (Appendix A, Figure 1b).

The northern crayfish (*Orconectes virilis*), which had not been reported in any MDEQ samples 1999-2005, had densities of 5, 7, 13 and 20 individuals per m^2 in 2016 at Smith River sites #5, #6, Hound Creek #7 and Eden Bridge #8, respectively (Figure 6). Their upstream detections and numbers per m^2 have further increased in 2017 (Figure 6).

Figure 6. Crayfish densities reported for 1999-2017 Smith River sample sites.



We evaluated the macroinvertebrates tolerance to increasing temperatures found in the 2017 samples. Increasing maximum temperature tolerance to ~25°C at Smith River sites at the HWY 360 and out of the canyon reflect a shift from more cool-water to warmer water species (Figure 7). The Smith River D/S of Sheep Creek is maintaining a more cool-water macroinvertebrate community because of the colder water influx (Figure 7).

Figure 7. Macroinvertebrate Community Optimal (blue) and Maximum (red) Temperatures for 2017.

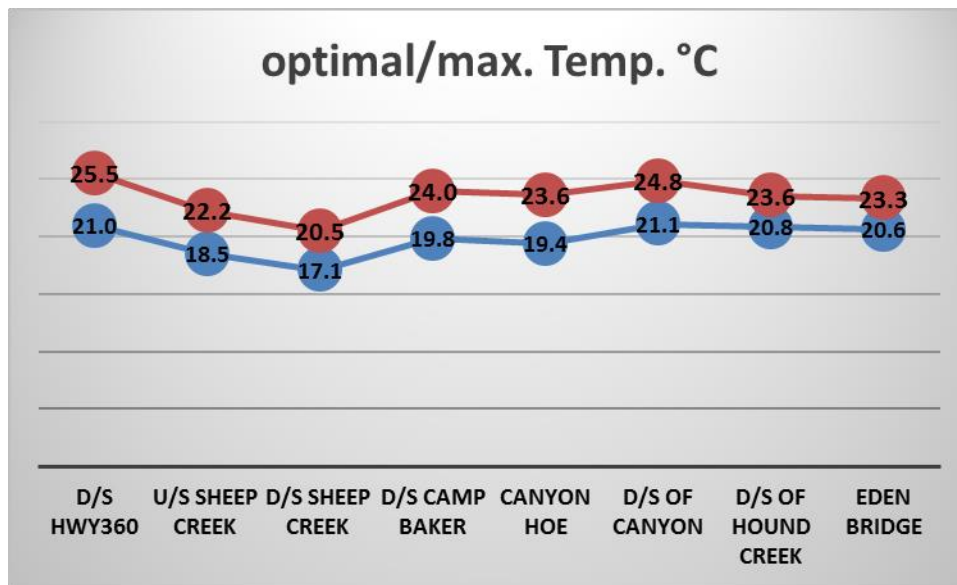


Table 4. Macroinvertebrate percentage changes (Δ) for 1999-2005 and 2016/2017 sample sites. P-values significant at <0.05 . na = no samples collected prior to 2016 for comparison.

SITE #	Site Name	1999-2005 vs. 2016/2017					
		% Taxa Similarity		Δ HBI Scores		Δ Low Val MMI Scores	
		2016	2017	2016	2017	2016	2017
1	HWY 360	43.6	41.1	13.0	16.0	-28.0	-24.9
2*	U/S Sheep Creek	na	na	na	na	na	na
3*	D/S Sheep Creek	na	na	na	na	na	na
4	D/S Camp Baker	61.5	59	12.6	25.3	-6.9	1.2
5	In Permit Canyon (HOE)	94.8	79.4	10.0	9.0	-1.5	-24.0
6	D/S out of canyon	84.4	65.8	10.5	-0.2	3.5	-24.6
7	D/S Hound Creek	30.1	33.2	25.0	16.1	-10.9	-18.8
8	@ Eden Bridge	34.7	35.2	2.1	2.9	-16.7	-17.8
	T-test, p-value result			0.011	0.06	0.012	0.0004

Photo 3. Smith River riffle downstream from HWY 360 (Fort Logan Bridge). Distance from the greenline to the sampler was measured.



3.1 Smith River at HWY 360 Bridge (BKK129)

The macroinvertebrate community at the Smith River downstream of the HWY 360 Bridge, MDEQ 1999 site code BKK129, reported the 2nd lowest benthic invertebrate densities of all sites, averaging ~7,500 individuals per meter², which are still very abundant compared to other rivers (Figure 1a). Total taxa and EPT taxa richness has increased at this site since the 1999 sampling, but the % EPT in the samples has decreased (Figure 1b). Correspondingly, the HBI score has increased since 1999 indicating that the community is becoming more tolerant (Figure 1c), and the benthic community at this site was the only that ranked impaired with the Low Valley MMI in 2016, a significant decline in biological integrity (28%) since 1999 (Figure 2, Table 4).

Dominant insect taxa at the HWY 360 Bridge site, in order of abundance, were the riffle beetle, *Optioservus quadrimaculatus* (avg. 1,933 per m²), the snail-cased caddis, *Helicopsyche borealis* (avg. 850 per m²), the net-spinning caddisflies, *Cheumatopsyche* spp. and *Hydropsyche occidentalis* and the Trico mayfly, *Tricorythodes explicates* (avg. 600 per m²). Mother's day caddisflies, *Brachycentrus occidentalis* also were represented in good numbers in the samples.

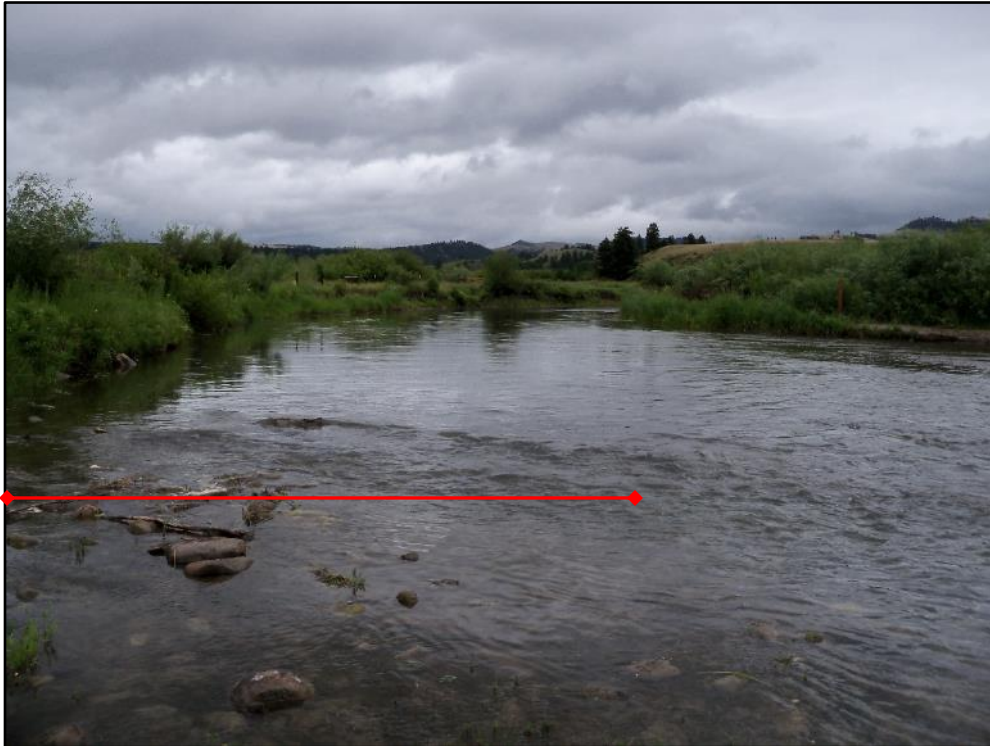
3.2 Smith River at Camp Baker upstream & downstream of Sheep Creek

Smith River benthic macroinvertebrate densities downstream of the Sheep Creek confluence have significantly higher abundance compared to upstream (Figure 1a, Appendix A) and were the highest densities reported from all sites (15,260 ind. per m²) (Figure 1a). We do not have previously collected samples from this site, except salmonfly abundance reports compiled during the 1990's (Stagliano 2010), so we do not have long-term comparisons to report. I do have documented reductions of the salmonfly, *Pteronarcys*. The sites above the Camp Baker put-in have shown a significant decreasing trend in habitat conditions and salmonfly populations for the 20 years of data examined (M. Canfield, unpublished, Stagliano pers. observation), while populations downriver in the canyon may be experiencing less of a decline because numerous tributaries below Camp Baker (Sheep, Spring, Rock and Tenderfoot Creek) add significant streamflows (Stagliano 2010). The benthic macroinvertebrate species richness, EPT taxa richness and %EPT comprising the samples were all significantly higher downstream of Sheep Creek than upstream (Figure 1a & 1b). Cumulative EPT richness for the Smith River D/S of Sheep Creek (32 spp.) was the 2nd highest reported of all sites in the study. Biological integrity as measured by the HBI, Low Valley and Mountain MMIs were also higher downstream of Sheep Creek (Figure 1b, 2 and 3), but still ranked impaired by the MDEQ MT MMI (Figure 4).

Dominant insect taxa at the Smith River Camp Baker site, in order of abundance, were the Trico mayfly, *Tricorythodes explicatus* (avg. 1,290 per m²), blackfly larvae, *Simulium* (avg. 810 per m²), the net-spinning caddisflies, *Hydropsyche occidentalis* (avg. 1,004 per m²), and *Cheumatopsyche* spp. (avg. 570 per m²) and the riffle beetle, *Optioservus quadrimaculatus* (avg. 710 per m²) (Appendix A). The Mother's day caddisfly, *Brachycentrus occidentalis* was also well represented in the benthic samples.

Dominant insect taxa at the Smith River below Sheep Creek, in order of abundance, were the Trico mayfly, *Tricorythodes explicatus* (avg. 3,980 per m²), the PMD mayfly, *Attenella margarita* (avg. 1,320 per m²), the Mother's day caddisfly, *Brachycentrus occidentalis* (1,810 per m²), the BWO mayfly, *Baetis tricaudatus* (920 per m²), the net-spinning caddisflies, *Hydropsyche occidentalis* (avg. 750 per m²), and the snail-cased caddisfly, *Helicopsyche borealis* (avg. 630 per m²). The dominance shift downstream of Sheep Creek to include the Ephemerellidae mayfly, *Attenella*, the caddisfly, *Brachycentrus* and BWOs indicates a significant improvement in the sensitivity of taxa in the benthic community. Subsequently, we observed a 26% decline in the HBI scores (Figure 2) and a 7% increase in the MDEQ Low Valley MMI score (Figure 3).

Photo 4. Smith River riffle downstream from Camp Baker. Distance from the greenline to the Hess sampler was measured.



3.3 Smith River in the Permit Canyon D/S Camp Baker (BKK 130,131,132)

The macroinvertebrate communities collected at the 3 sites downstream of Camp Baker were the most stable in terms of taxa similarity (Table 4) and biological integrity, but the first site downstream (BKK130) did report substantial losses of total taxa and EPT richness compared to the 1999 samples collected there in 2016, but these rebounded in 2017 (Figure 1a, 1b). We documented very similar macroinvertebrate communities in 2016 to those reported from 1999, averaging 80% taxa similarity (Table 4). Although, the % of EPT taxa comprising the samples has decreased across all canyon sites between 1999 and 2016, but increased in 2017 (Figure 1b). The % of Chironomidae (midges) comprising the samples has significantly increased at the Heaven on Earth reach (Canyon HOE) and just downstream from the canyon (Figure 1b). Macroinvertebrate community changes in the Low Valley MMI were the lowest reported for all sites, even increasing slightly (3.5%) at the downstream site out of the canyon (Table 4). The sites above the Camp Baker put-in have shown a significant decreasing trend in habitat conditions and salmonfly populations for the 20 years of data examined (M. Canfield, unpublished, Stagliano pers. observation), while populations downriver in the canyon may be experiencing less of a decline because numerous tributaries below Camp Baker (Sheep, Spring, Rock and Tenderfoot Creek) add significant cold-water flows (Stagliano 2010). This statement is true for this study as

well, since salmonflies, golden stones and sensitive mayflies (*Epeorus* and *Rhithrogena*) have been reported in similar numbers in 2016 as they had in 1999.

Photo 5. Smith River upstream from Heaven on Earth Ranch (BKK131). Huge blooms of filamentous algae were observed at this site in July 2017.



3.4 Smith River near Hound Creek (BKK 133)

The macroinvertebrate community collected at this cobble riffle of the Smith River downstream of Hound Creek was highly influenced by abundant filamentous algae (Photo 6, Appendix A). Due to the larger cobble substrate in this riffle, crayfish (*Orconectes virilis*) and the benthic minnow, longnose dace (*Rhinichthys cataractae*) were collected in the Hess samples averaging 13.0 and 3.0 individuals per m², respectively (Table 2, Appendix A). Dominant benthic invertebrate taxa at this site in 2016 were, in order of abundance, *Hydropsyche morosa* gr., the mayflies, *Choroterpes albiannulata* and *Tricos* (Table 3); while in 2017, the *Cricotopus* midges, net-spinning caddis, *Hydropsyche morosa* gr and riffle beetles were the dominant taxa (Appendix A). MDEQ's summer 1999 sample reported the dominant benthic taxa, in order of abundance, as BWOs (*Baetis tricaudatus*), the Heptageniid mayfly, *Ecdyonurus simplicioides*, PMD's (*Ephemerella excrucians*), and the mother's day caddis (*Brachycentrus occidentalis*). These silt-sensitive taxa have decreased substantially in the 2016 and 2017 samples, and thus the HBI scores increased since 1999 to reflect a moderately-impaired community (Figure 2). Cumulative total EPT for this

site was the 2nd highest of the sites at 31 species (Table 3), and EPT species such as golden stones and salmonflies are persisting at this site probably due to a cooler flow from Hound Creek. Net-spinning and micro-caddis and Tricos were low in abundance and more tolerant to sediment. Benthic invertebrate abundance was in the high-range for this study section averaging ~10,500 individuals per m² in 2016 and ~13,300 in 2017 (Figure 1a).

Photo 6. Underwater view of the dense filamentous algae at Smith River at the confluence of Hound Creek, in July 2017.



3.5 Smith River near Eden Bridge (M10SMTHR01)

The macroinvertebrate communities collected at the Smith River Eden Bridge FAS site were the lowest in density, but the third most taxa rich (averaging 40.0 total taxa) (Figure 1a). This site reported one of the lowest average EPT taxa richness across the sites in 2016 (avg. EPT taxa = 13.5 species) and this was on a declining trend since 2002-2005, but then EPT richness jumped up to 18 taxa in 2017 (Figure 1b). The benthic community tolerance values (HBI) of >5.0 reported at this site in 2016 and 2017 indicates moderate organic pollution, and these were the highest values reported since 2002 (Figure 7). Non-impaired HBI scores (<3.5) were only reported at this site in 2003 (Figure 7). High HBI scores can also be indicative of high sediment loads in the substrate. Macroinvertebrate communities sampled at Eden Bridge in 2016 and 2017 are further declining towards “impaired” as calculated with the MDEQ Low Valley MMI (Figure 8). This was the first time at this site that the HBI scores and the MMI scores have diverged (Figure 8); this

indicates that not only is the shift towards a more tolerant community, but also a loss of some of the more sensitive EPT taxa.

Figure 7. Macroinvertebrate HBI scores for Eden Bridge samples. Error bars are SE. Yellow and redline are the low and moderate impairment thresholds

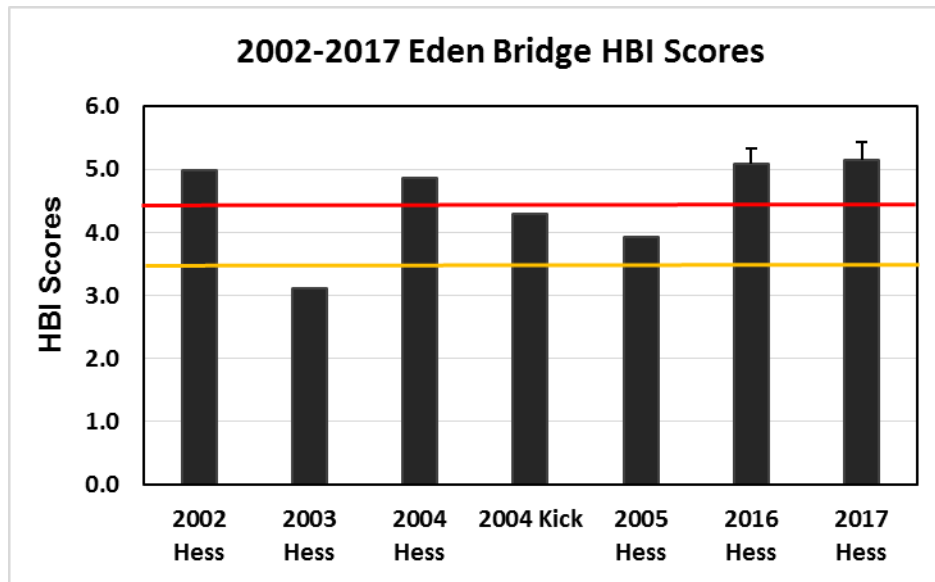
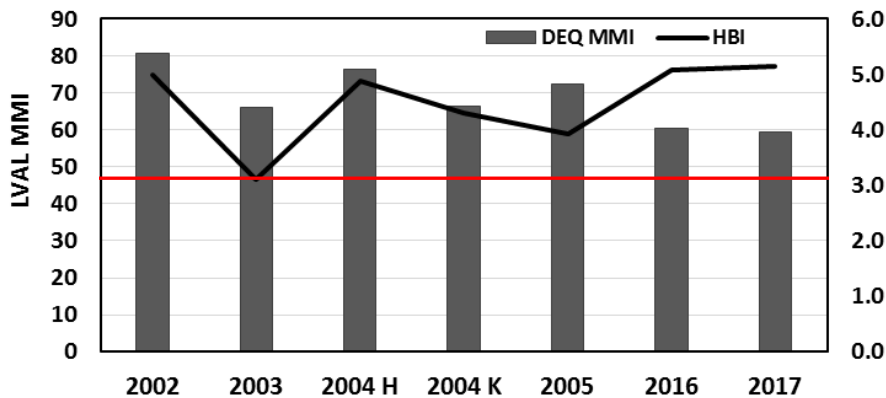


Figure 8. Relationship between the MDEQ Low Valley MMI and the HBI scores for Eden Bridge samples. Redline is the MMI impairment threshold.



Several mayfly taxa occurring here were specific to only this site or the Hound Creek site (~4 miles upstream) including, *Ecdyonurus simpliciodes*, *Choroterpes albiannulata*, and *Acerpenna pygmaea* (Appendix A) which are more tolerant of warmer waters. Moderate densities (avg. 25 per m²) of the invading northern crayfish (*Orconectes virilis*) were collected here during the 2016 and 2017 sampling (Figure 6), but never reported in samples collected by MDEQ from 2002-2005.

Photo 7. Riffle sampled at Eden Bridge during the summer sampling period looking downstream (l) and upstream (r).



4.0 Conclusions

This 2016-2017 dataset represents two years of macroinvertebrate community sampling from monitoring sites on the Smith River since 1999-2005, and provides a significant baseline dataset for future monitoring efforts. Although this sampling was performed with a Hess sampler during the summer season, our results can be compared with previously collected MDEQ Kick-net and Hess samples (Eden Bridge). Very important spatial information concerning the macroinvertebrate communities of the Smith River has been generated, including benthic insect densities, diversity and sensitivity across multiple sites, and the important role that tributary streams have on the health of Smith River macroinvertebrate communities.

- 1) MTDEQ MMI values calculated using both the mountain and low valley scoring thresholds and the HBI have corroborated to document substantial declines in the biological integrity across most sites on the Smith River since 1999-2005. Declines and/or loss of sensitive insect taxa, especially stoneflies and mayflies continues to be documented, as well as the increased densities or expansion of non-insect taxa, such as aquatic worms and the northern crayfish. Only one site in the middle of the permit canyon section approached a non-impaired rank with the Mountain MMI in 2016, while all sites except the Smith River at HWY 360 Bridge were above the Low Valley MMI threshold impairment.
- 2) Tolerance scores of the benthic macroinvertebrate communities calculated with the HBI have increased on average by 12% since 1999, indicating slight organic or sediment

enrichment at all sites, and four of the eight (50%) monitoring sites in 2017 are exhibiting moderate organic pollution. Only the Eden Bridge site had HBI scores of moderate impairment from the previous MDEQ sampling in 1999-2005.

- 3) Tributary stream discharge from Sheep, Eagle, Rock, Tenderfoot, Hound Creek and others tend to increase the health of the Smith River insect communities below their confluences. Sampling sites in the heart of the permit canyon reported the most stable and biologically healthy insect communities since being sampled in 1999, but even these sites are exhibiting some declining trends in macroinvertebrates in 2017.
- 4) Despite observed increases in macroinvertebrate densities, total numbers of taxa and EPT taxa across most sites in 2017, many of these taxa are non-insects, midges and/or are EPT species more tolerant to increased sediments and temperature. This is reflected in increases in HBI scores (to more tolerant) and decreases in the MMI (lowered aquatic health).
- 5) The expansion and increased abundance of the northern crayfish upstream into the Smith River basin is a similar pattern that we have been documenting across western Montana as once cold-water trout rivers are increasingly warming (Madison River: McGuire 2016, Yellowstone River: Stagliano, unpublished data).
- 6) We conclude this analysis by saying that multiple lines of evidence from the benthic macroinvertebrate communities are corroborating to document the declining biological health of the Smith River, especially upstream of Sheep Creek, in the permit canyon and as it exits the canyon. Reasons for these ecological changes observed can be causally linked to increasing average water temperatures, overall elevated nutrient levels, sediment and low flow alterations. These are some of the major factors why the Smith River was added to the MDEQ 303(d) list of Impaired Waters from White Sulphur Spring to Hound Creek. These factors are likely linked to the massive increases in filamentous algae observed in the canyon from 2016 to 2017.

5.0 Literature Cited

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Appendix A. Macroinvertebrate taxa list and abundance 2016/2017.

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker **Benthic Sample ID:** 18249
Station ID: BKK130_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T10-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 1200

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	200			
Coleoptera	Optioservus	Optioservus	132	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	24	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	36	3	CG	CN
Diptera	Chironominae	Polypedilum	16	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	8	4	CG	sp
Diptera	Hexatoma	Hexatoma	8	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	56		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	16		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	8	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	56		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	72	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella excrucians	44	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	8	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	8	0	CG	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	4	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	4	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	152	1	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	72	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	140	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	24	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	32	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	64	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18250

Station ID: BKK130_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T11-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1292

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	276			
Coleoptera	Optioservus	Optioservus	104	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	44	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	36	3	CG	CN
Diptera	Chironominae	Polypedilum	20	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	8	4	CG	sp
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	84		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	8		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	28	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	56		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	88	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	4	0	CG	CN
Ephemeropte	Drunella grandis	Drunella grandis	4	2	PR	"CN/75%, SP/25%"
Ephemeropte	Ephemerella	Ephemerella excrucians	32	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	24	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	12	0	CG	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Isoperla	Isoperla fulva	4	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	4	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	8	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	92	1	CF	CN
Trichoptera	Culoptila	Culoptila	4	2	SC	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	88	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	96	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	64	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	48	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	36	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18251

Station ID: BKK130_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T12-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1184

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	84			
		Tricorythodes explicatus	136			
Coleoptera	Optioservus	Optioservus	44	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	12	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	20	3	CG	CN
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	4	4	CG	sp
Diptera	Hexatoma	Hexatoma	12	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	24		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	52	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	28		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	24	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	164	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella excrucians	88	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	36	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	20	0	CG	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Isoperla	Isoperla fulva	4	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	12	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	68	1	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	104	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	48	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	28	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	56	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	100	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18252

Station ID: BKK131_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T13-T500-M

Site Classification:

Collection Date: 09/18/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1396

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillus	8			
		Tricorythodes explicatus	132			
Coleoptera	Optioservus	Optioservus	84	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	68	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	16	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	12	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cladotanytarsus	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Paratanytarsus	12	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	108	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	56	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	24	6	PR	SP
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	44		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	48		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	32	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	128	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	4	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	92	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella grandis	Drunella grandis	4	2	PR	"CN/75%, SP/25%"
Ephemeropte	Epeorus	Epeorus albertae	4	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	32	2	CG	CN/SW
Ephemeropte	Rhithrogena	Rhithrogena	12	0	CG	CN
Haplotaxida	Oligochaeta	Enchytraeidae	8	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	4	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	16	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	88	1	CF	CN
Trichoptera	Culoptila	Culoptila	4	2	SC	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	44	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	136	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18252

Station ID: BKK131_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T13-T500-M

Site Classification:

Collection Date: 09/18/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1396

Trichoptera	Hydroptila	Hydroptila	84	6	PH	CN
Trichoptera	Oecetis	Oecetis	44	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18253

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collection Date: 09/18/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1122

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillus	8			
		Tricorythodes explicatus	8			
Coleoptera	Optioservus	Optioservus	4	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	0	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	12	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	12	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cladotanytarsus	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Paratanytarsus	12	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	108	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	20	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	24	6	PR	SP
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	24		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	24		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia	88		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	4	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	36	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	16	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	176	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella	Drunella	40	1	SC/PR	"CN/75%, SP/25%"
Ephemeropte	Epeorus	Epeorus albertae	10	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	4	2	CG	CN/SW
Ephemeropte	Rhithrogena	Rhithrogena	12	0	CG	CN
Haplotaxida	Oligochaeta	Enchytraeidae	8	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	48	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	16	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	8	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	88	1	CF	CN
Trichoptera	Culoptila	Culoptila	8	2	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18253

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collection Date: 09/18/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1122

Trichoptera	Helicopsyche	Helicopsyche borealis	44	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	112	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	80	6	PH	CN
Trichoptera	Oecetis	Oecetis	16	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River at County Line **Benthic Sample ID:** 18254
Station ID: BKK131_d3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T15-T500-M
Site Classification: **Collection Date:** 09/18/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 1276

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	60			
		Tricorythodes explicatus	84			
Coleoptera	Optioservus	Optioservus	160	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	24	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	0	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	0	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cladotanytarsus	0	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Paratanytarsus	16	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	16	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	24	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	0	6	PR	SP
Diptera	Hexatoma	Hexatoma	28	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	16		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	132		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	24		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia	8		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	88	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	20	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	88	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella	Drunella	4	1	SC/PR	"CN/75%, SP/25%"
Ephemeropte	Epeorus	Epeorus	36	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	84	2	CG	CN/SW
Ephemeropte	Rhithrogena	Rhithrogena	4	0	CG	CN
Haplotaxida	Oligochaeta	Enchytraeidae	4	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	16	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	16	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	20	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	16	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	28	1	CF	CN
Trichoptera	Culoptila	Culoptila	4	2	SC	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	20	3	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18254

Station ID: BKK131_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T15-T500-M

Site Classification:

Collection Date: 09/18/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1276

Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	132	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	28	6	PH	CN
Trichoptera	Oecetis	Oecetis	52	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon **Benthic Sample ID:** 18255
Station ID: BKK132_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T16-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 1436

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	24			
		Tricorythodes explicatus	88			
Coleoptera	Optioservus	Optioservus	16	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	8	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	4		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	112	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus	68		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	28		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	16	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	20		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	12	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	356	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	4	0	CG	CN
Ephemeropte	Choroterpes	Choroterpes	20	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	20	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	4	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	84	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	48	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	4	0	CG	CN
Haplotaxida	Oligochaeta	Lumbricina	80	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	16	1	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	52	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	132	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	72	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	60	6	PH	CN
Trichoptera	Oecetis	Oecetis	56	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18256

Station ID: BKK132_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T17-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 876

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	8			
		Tricorythodes explicatus	92			
Coleoptera	Optioservus	Optioservus	64	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	16	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Polypedilum	48	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	72	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus	44		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	12		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	8	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	4		PR	SP/BU
Ephemeropte	Baetis	Baetis tricaudatus	16	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	4	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	4	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	68	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	40	1	CG	SW/CN/SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	4	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	152	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	132	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	8	6	PH	CN
Trichoptera	Oecetis	Oecetis	28	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon **Benthic Sample ID:** 18257
Station ID: BKK132_d3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T18-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 460

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillus	16			
		Tricorythodes explicatus	8			
Coleoptera	Optioservus	Optioservus	64	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	4	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	4		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Polypedilum	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	40	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	16	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus	64		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	44	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	4		PR	SP/BU
Ephemeropte	Dipheter	Dipheter hageni	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	36	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	4	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia temporalis	16	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	4	0	CG	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	60	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	8	6	PH	CN
Trichoptera	Oecetis	Oecetis	8	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek **Benthic Sample ID:** 18258
Station ID: BKK133_ds1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T19-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 526

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Mayatrichia ayama	10			
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	30			
Basommatop	Ferrissia	Ferrissia rivularis	8	6	SC	CN
Basommatop	Lymnaeidae	Stagnicola	24	8	CG	CN
Coleoptera	Optioservus	Optioservus	8	5	SC	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Antocha	Antocha	8	3	CG	CN
Diptera	Atherix	Atherix	8	5	PR	SP/BU
Diptera	Ceratopogoninae	Probezzia	24	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	20	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	12	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Diamesa	8	4	CG	sp
Diptera	Diamesinae	Pagastia	8	4	CG	sp
Diptera	Limnophila	Limnophila	2	3	PR	BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	40		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	4	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	8		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	16	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	2		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	12	3	CG	CN
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	12	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	40	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemera	Ephemera simulans	2	2	CG	BU
Ephemeropte	Paraleptophlebia	Paraleptophlebia	4	1	CG	SW/CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	16	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	32	4	CG/PR	SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	2	1	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	24	1	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18258

Station ID: BKK133_ds1

Rep. Num 0

Reference Status:

STORET Activity ID: T19-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 526

Trichoptera	Cheumatopsyche	Cheumatopsyche	36	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	2	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	32	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	2	6	PH	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
Trichoptera	Wormaldia	Wormaldia	18	0	CF	CN
Veneroida	Pisidiidae	Sphaerium	16	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18259

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 530

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Mayatrichia ayama	6			
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	64			
Coleoptera	Optioservus	Optioservus	18	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia parvula	10	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	8	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	16	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	14	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	14	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus trifascia	24		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	32		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	12		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	16	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	2		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	12	3	CG	CN
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	60	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	10	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	8	1	CG	SW/CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	14	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	12	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	24	4	CG/PR	SP
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Skwala	Skwala	8	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	28	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	16	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	4	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	40	5	CF	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
Trichoptera	Psychomyia	Psychomyia	4	2	CG	CN
Trichoptera	Wormaldia	Wormaldia	6	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18259

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 530

Veneroida	Pisidiidae	Sphaerium	8	8	CF	BU
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Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek **Benthic Sample ID:** 18260
Station ID: BKK133_ds3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T21-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 546

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Mayatrichia ayama	6			
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	64			
Coleoptera	Optioservus	Optioservus	18	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia parvula	10	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	12		CG	"SP/75%, BU/25%"
Diptera	Antocha	Antocha	8	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	16	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	14	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	14	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus trifascia	24		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	32		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	12		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	16	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	2		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	12	3	CG	CN
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	60	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	10	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	8	1	CG	SW/CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	14	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	12	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	24	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus	4	2	PR	BU
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Plecoptera	Skwala	Skwala	8	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	28	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	16	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	4	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	40	5	CF	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18260

Station ID: BKK133_ds3

Rep. Num 2

Reference Status:

STORET Activity ID: T21-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 546

Trichoptera	Psychomyia	Psychomyia	4	2	CG	CN
Trichoptera	Wormaldia	Wormaldia	6	0	CF	CN
Veneroida	Pisidiidae	Sphaerium	8	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge **Benthic Sample ID:** 18261
Station ID: M10SMTHR01a **Rep. Num** 0
Reference Status: **STORET Activity ID:** T22-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 400

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Ecdyonurus simplicioides	6			
		Mayatrichia ayama	22			
		Microcylloepus pusillis	4			
		Tricorythodes explicatus	34			
Coleoptera	Optioservus	Optioservus	6	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	4	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	6	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	12	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	28	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	2	6	PR	SP
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	14	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	4		PR	SP/BU
Ephemeropte	Acerpenna	Acerpenna pygmaea	2		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	8	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	6	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	16	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella excrucians	2	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	2	5	SC	"SW/10%, CN/90%"
Ephemeropte	Rhithrogena	Rhithrogena	4	0	CG	CN
Haplotaxida	Oligochaeta	Tubificidae	82	8	CG	BU
Odonata	Gomphidae	Ophiogomphus	2	2	PR	BU
Plecoptera	Skwala	Skwala	4	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	8	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	70	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18261

Station ID: M10SMTHR01a

Rep. Num 0

Reference Status:

STORET Activity ID: T22-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 400

Trichoptera	Hydropsyche_Cera	Hydropsyche	6	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	8	5	CF	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
Trichoptera	Wormaldia	Wormaldia	4	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge **Benthic Sample ID:** 18262
Station ID: M10SMTHR01b **Rep. Num** 1
Reference Status: **STORET Activity ID:** T23-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 456

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Ecdyonurus simplicioides	4			
		Mayatrichia ayama	6			
		Microcylloepus pusillis	2			
		Tricorythodes explicatus	32			
Amphipoda	Hyaella	Hyaella	2	8	CG	SW/SP
Coleoptera	Optioservus	Optioservus	50	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	22	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	4		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	16	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	12	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	2	6	PR	SP
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	6	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	2		PR	SP/BU
Ephemeropte	Attenella	Attenella margarita	12	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	18	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	18	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	4	5	CG	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	4	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	8	4	CG/PR	SP
Plecoptera	Hesperoperla	Hesperoperla pacifica	2	1	PR	CN
Plecoptera	Skwala	Skwala	8	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	10	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	108	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	8	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	70	5	CF	CN
Trichoptera	Wormaldia	Wormaldia	2	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge **Benthic Sample ID:** 18263
Station ID: M10SMTHR01c **Rep. Num** 2
Reference Status: **STORET Activity ID:** T24-T500-M
Site Classification: **Collection Date:** 07/10/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 360

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Baetis intercalarus	2			
		Ecdyonurus simplicioides	4			
		Mayatrichia ayama	2			
		Microcylloepus pusillis	2			
		Tricorythodes explicatus	8			
Coleoptera	Optioservus	Optioservus	56	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	30	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Bezzia	4	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	20	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	2	6	PR	SP
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	8	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	16		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	4	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	10	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	12	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	10	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella excrucians	6	2	CG	CN/SW
Ephemeropte	Plauditus	Plauditus	2	5	SC	"SW/10%, CN/90%"
Ephemeropte	Rhithrogena	Rhithrogena	2	0	CG	CN
Haplotaxida	Oligochaeta	Tubificidae	14	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	4	4	CG/PR	SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	4	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	2	1	PR	CN
Plecoptera	Skwala	Skwala	2	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	8	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	56	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18263

Station ID: M10SMTHR01c

Rep. Num 2

Reference Status:

STORET Activity ID: T24-T500-M

Site Classification:

Collection Date: 07/10/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 360

Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	32	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	2	5	CF	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
Trichoptera	Wormaldia	Wormaldia	4	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker **Benthic Sample ID:** 18264
Station ID: SM_CMPBk1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T04-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 752

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	24			
		Tricorythodes explicatus	140			
Basommatop	Ferrissia	Ferrissia rivularis	4	6	SC	CN
Basommatop	Lymnaeidae	Stagnicola	12	8	CG	CN
Coleoptera	Optioservus	Optioservus	92	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia parvula	16	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	4	3	CG	CN
Diptera	Atherix	Atherix	4	5	PR	SP/BU
Diptera	Ceratopogoninae	Probezzia	12	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Diamesa	4	4	CG	sp
Diptera	Diamesinae	Pagastia	4	4	CG	sp
Diptera	Hexatoma	Hexatoma	12	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	40	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	8		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	16	5	CG	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	28	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	16	4	CG/PR	SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	4	3	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	4	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	48	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	32	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	8	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	108	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	52	6	PH	CN
Trichoptera	Oecetis	Oecetis	16	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	8	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker **Benthic Sample ID:** 18265
Station ID: SM_CMPBk2 **Rep. Num** 1
Reference Status: **STORET Activity ID:** T05-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 904

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	16			
		Tricorythodes explicatus	132			
Coleoptera	Optioservus	Optioservus	72	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia parvula	28	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	4	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	8	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus trifascia	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	16		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	144	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	32		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	36	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	4	1	CG	SW/CN/SP
Haplotaxida	Oligochaeta	Tubificidae	20	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	12	4	CG/PR	SP
Plecoptera	Hesperoperla	Hesperoperla pacifica	4	1	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	20	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	112	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	4	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	140	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	44	6	PH	CN
Trichoptera	Neotrichia	Neotrichia	4	2	SC	CN
Trichoptera	Oecetis	Oecetis	4	8	PR	CN/SP
Trichoptera	Onocosmoecus	Onocosmoecus unicolor	4	3	SH	"SP/75%, CG/25%"
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker **Benthic Sample ID:** 18266
Station ID: SM_CMPBk3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T06-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 630

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Mayatrichia ayama	2			
		Microcylloepus pusillis	40			
		Tricorythodes explicatus	116			
Basommatop	Ferrissia	Ferrissia rivularis	2	6	SC	CN
Coleoptera	Optioservus	Optioservus	50	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia parvula	10	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	2	3	CG	CN
Diptera	Atherix	Atherix	2	5	PR	SP/BU
Diptera	Ceratopogoninae	Probezzia	2	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus trifascia	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	60	6	CF	CN
Diptera	Tanypodinae	Paramerina	4		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	10		PR	SP/BU
Ephemeropte	Attenella	Attenella margarita	4	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	16	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	2	5	CG	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	10	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	4	4	CG/PR	SP
Plecoptera	Isoperla	Isoperla fulva	2	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	6	2	SH	CN
Trichoptera	Agraylea	Agraylea	4	8	PH	CM
Trichoptera	Brachycentrus	Brachycentrus occidentalis	36	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	26	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	2	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	66	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	110	6	PH	CN
Trichoptera	Neotrichia	Neotrichia	8	2	SC	CN
Trichoptera	Oecetis	Oecetis	6	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	2	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek **Benthic Sample ID:** 18267
Station ID: SM_DSSHP1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T07-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 2236

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	16			
		Nostococladius	64			
		Tricorythodes explicatus	904			
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Coleoptera	Optioservus	Optioservus	36	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	4	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	12	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	20	6	PR/CG	SP/BU/SW
Diptera	Chelifera_Metachel	Chelifera	4	5	unk	SP
Diptera	Chironominae	Polypedilum	56	7	CG/CF/PR	BU/CN/SP
Diptera	Diametinae	Pagastia	8	4	CG	sp
Diptera	Diametinae	Potthastia	12	4	CG	sp
Diptera	Hexatoma	Hexatoma	8	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	20		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	4		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	144	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	88	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella excrucians	8	2	CG	CN/SW
Ephemeropte	Leucrocuta	Leucrocuta	12	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	28	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus punctiventris	12	5	SC	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	4	8	CG	BU
Hemiptera	Corixidae	Corixidae	8	9	PH/PR	SW
Plecoptera	Skwala	Skwala	8	3	PR	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	4	3	CG	CN
Trichoptera	Arctopsyche	Arctopsyche grandis	28	2	CF	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	8	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	380	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	12	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	100	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	64	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	48	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	12	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	60	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18267

Station ID: SM_DSSHP1

Rep. Num 0

Reference Status:

STORET Activity ID: T07-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 2236

Veneroida	Pisidiidae	Pisidium	12	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	12	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18268

Station ID: SM_DSSHP2

Rep. Num 1

Reference Status:

STORET Activity ID: T08-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1408

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Nostococladus	12			
		Tricorythodes explicatus	432			
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Basommatop	Planorbidae	Gyraulus	4	6	CG	CN
Coleoptera	Optioservus	Optioservus	36	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	8	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	4	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	4	6	PR/CG	SP/BU/SW
Diptera	Chelifera_Metachel	Chelifera	8	5	unk	SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	8	4	CG	sp
Diptera	Diamesinae	Potthastia	8	4	CG	sp
Diptera	Hexatoma	Hexatoma	28	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	36		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	12		PR	SP/BU
Ephemeropte	Attenella	Attenella margarita	112	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	112	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	28	5	CG	"SW/10%, CN/90%"
Ephemeropte	Leucrocuta	Leucrocuta	48	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	4	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus punctiventris	4	5	SC	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	4	8	CG	BU
Plecoptera	Skwala	Skwala	8	3	PR	CN
Trichoptera	Arctopsyche	Arctopsyche grandis	12	2	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	128	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	28	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	60	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	120	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	60	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	4	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	40	8	PR	CN/SP
Trichoptera	Onocosmoecus	Onocosmoecus unicolor	4	3	SH	"SP/75%, CG/25%"
Veneroida	Pisidiidae	Pisidium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18268

Station ID: SM_DSSHP2

Rep. Num 1

Reference Status:

STORET Activity ID: T08-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 1408

Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU
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Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek **Benthic Sample ID:** 18269
Station ID: SM_DSSHP3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T09-T500-M
Site Classification: **Collection Date:** 07/11/2016
Latitude: **Collection Method:** MAC-T-500
Longitude: **Total Number of Individuals in Sample:** 960

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Heliphorus	4			
		Mayatrichia ayama	0			
		Microcylloepus pusillis	0			
		Nostococladius	40			
		Tricorythodes explicatus	184			
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Basommatop	Planorbidae	Gyraulus	4	6	CG	CN
Coleoptera	Optioservus	Optioservus	68	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	8	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	8	3	CG	CN
Diptera	Ceratopogoninae	Probezzia	4	6	PR/CG	SP/BU/SW
Diptera	Chelifera_Metachel	Chelifera	0	5	unk	SP
Diptera	Chironominae	Microtendipes	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	0	4	CG	sp
Diptera	Diamesinae	Potthastia	4	4	CG	sp
Diptera	Hexatoma	Hexatoma	8	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	20		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	4		PR	SP/BU
Ephemeropte	Attenella	Attenella margarita	140	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	92	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Leucrocuta	Leucrocuta	16	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	80	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus punctiventris	4	5	SC	"SW/10%, CN/90%"
Haplotaxida	Oligochaeta	Tubificidae	8	8	CG	BU
Plecoptera	Skwala	Skwala	4	3	PR	CN
Trichoptera	Arctopsyche	Arctopsyche grandis	8	2	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	36	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	56	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	28	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	8	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	20	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18269

Station ID: SM_DSSHP3

Rep. Num 2

Reference Status:

STORET Activity ID: T09-T500-M

Site Classification:

Collection Date: 07/11/2016

Latitude:

Collection Method: MAC-T-500

Longitude:

Total Number of Individuals in Sample: 960

Trichoptera	Hydroptila	Hydroptila	16	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	4	1	SH	CM/SP
Trichoptera	Ochrotrichia	Ochrotrichia	12	4	CG	CN
Trichoptera	Oecetis	Oecetis	32	8	PR	CN/SP
Trichoptera	Onocosmoecus	Onocosmoecus unicolor	0	3	SH	"SP/75%, CG/25%"
Veneroida	Pisidiidae	Pisidium	4	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge **Benthic Sample ID:** 18347
Station ID: BKK129_dms17 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T01-T500-M
Site Classification: **Collection Date:** 07/01/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 572

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Amphipoda	Hyalella	Hyalella azteca	1	8	CG	SW/SP
Basommatop	Ferrissia	Ferrissia	4	6	SC	CN
Basommatop	Physa_Physella	Physella	3	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	13	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	167	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	17	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Orthoclaadiinae	Cricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	1	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	6		PR	SP/BU
Diptera	Tipula	Tipula	1	4	SH	BU
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	109	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	28	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Ephemera	Ephemera simulans	6	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella excrucians	16	2	CG	CN/SW
Ephemeropte	Fallceon	Fallceon quilleri	5	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	14	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	31	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	22	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	20	8	CG	BU
Odonata	Gomphidae	Ophiogomphus	1	2	PR	BU
Plecoptera	Isoperla	Isoperla	2	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	19	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	3	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	54	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	1	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	7	5	CF	CN
Trichoptera	Oecetis	Oecetis	6	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18347

Station ID: BKK129_dms17

Rep. Num 0

Reference Status:

STORET Activity ID: T01-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 572

Veneroida	Pisidiidae	Pisidium	2	8	CF	BU
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Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18348

Station ID: BKK129_dms27

Rep. Num 1

Reference Status:

STORET Activity ID: T02-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 568

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Amphipoda	Gammarus	Gammarus	1	4	CG	"SW/50%, SP/50%"
Basommatop	Ferrissia	Ferrissia	3	6	SC	CN
Coleoptera	Microcylloepus	Microcylloepus	7	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	131	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	26	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cardiocladus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	3		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	1		PR	SP/BU
Diptera	Tipula	Tipula	2	4	SH	BU
Ephemeropte	Baetis	Baetis tricaudatus	146	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	15	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	2			
Ephemeropte	Ephemera	Ephemera simulans	14	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella excrucians	5	2	CG	CN/SW
Ephemeropte	Fallceon	Fallceon quilleri	7	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	1	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	1	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	63	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	6	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	30	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	1	7	SH	CM
Odonata	Gomphidae	Ophiogomphus	1	2	PR	BU
Plecoptera	Isoperla	Isoperla	6	2	PR	CN
Plecoptera	Skwala	Skwala	1	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	16	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	2	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	51	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	2	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	5	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18348

Station ID: BKK129_dms27

Rep. Num 1

Reference Status:

STORET Activity ID: T02-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 568

Trichoptera	Ochrotrichia	Ochrotrichia	1	4	CG	CN
Trichoptera	Oecetis	Oecetis avara	5	8	PR	CN/SP
Trichoptera	Onocosmoecus	Onocosmoecus unicolor	1	3	SH	"SP/75%, CG/25%"
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge **Benthic Sample ID:** 18349
Station ID: BKK129_dms37 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T03-T500-M
Site Classification: **Collection Date:** 07/01/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 551

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Dubiraphia minima	4			
Amphipoda	Gammarus	Gammarus	1	4	CG	"SW/50%, SP/50%"
Amphipoda	Hyalella	Hyalella azteca	1	8	CG	SW/SP
Coleoptera	Microcyloepus	Microcyloepus	3	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	98	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	25	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Phaenopsectra	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	1	4	CG	sp
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	3		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	1	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	11		PR	SP/BU
Diptera	Tipula	Tipula	2	4	SH	BU
Ephemeropte	Acentrella	Acentrella turbida	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	111	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	21	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Ephemera	Ephemera simulans	9	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella excrucians	11	2	CG	CN/SW
Ephemeropte	Fallceon	Fallceon quilleri	9	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	9	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	78	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	4	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	27	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Isoperla	Isoperla	2	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	15	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	1	5	CF	CN
Trichoptera	Dicosmoecus	Dicosmoecus gilvipes	1	2	SC	SP
Trichoptera	Helicopsyche	Helicopsyche borealis	63	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	5	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18349

Station ID: BKK129_dms37

Rep. Num 2

Reference Status:

STORET Activity ID: T03-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 551

Trichoptera	Hydropsyche_Cera	Hydropsyche slossonae	1	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	6	6	PH	CN
Trichoptera	Neotrichia	Neotrichia	3	2	SC	CN
Trichoptera	Ochrotrichia	Ochrotrichia	3	4	CG	CN
Trichoptera	Oecetis	Oecetis avara	2	8	PR	CN/SP
Trichoptera	Onocosmoecus	Onocosmoecus unicolor	1	3	SH	"SP/75%, CG/25%"
Veneroida	Pisidiidae	Pisidium	1	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker **Benthic Sample ID:** 18350
Station ID: BKK130_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T10-T500-M
Site Classification: **Collection Date:** 07/05/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 326

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Pagastia sp	2			
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	8	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	30	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	6	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	9	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	10	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	4	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Diamesa	2	4	CG	sp
Diptera	Hexatoma	Hexatoma	3	2	PR	BU
Diptera	Limnophila	Limnophila	1	3	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	4	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	6		PR	SP/BU
Diptera	Tipula	Tipula	1	4	SH	BU
Ephemeropte	Acentrella	Acentrella turbida	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	24	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Ephemerella	Ephemerella excrucians	16	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	3	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes minutus	44	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Non-Insecta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Isoperla	Isoperla	2	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18350

Station ID: BKK130_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T10-T500-M

Site Classification:

Collection Date: 07/05/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 326

Trichoptera	Brachycentrus	Brachycentrus americanus	2	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	29	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	2	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	18	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	2	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	33	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	4	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	7	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	15	8	PR	CN/SP
Veneroida	Pisidiidae	Pisidium	2	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18351

Station ID: BKK130_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T11-T500-M

Site Classification:

Collection Date: 07/05/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 358

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	7	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	25	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	7	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	12	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	12	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	14	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	6	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Diamesa	2	4	CG	sp
Diptera	Diamesinae	Pagastia	3	4	CG	sp
Diptera	Limnophila	Limnophila	2	3	PR	BU
Diptera	Orthoclaadiinae	Cardiocladius	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus	11		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	5		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	7	6	CF	CN
Diptera	Tanypodinae	Pentaneura	4		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	12		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	5	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	16	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	2			
Ephemeropte	Ephemerella	Ephemerella excrucians	5	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	1	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	63	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	1	7	SH	CM
Non-Insect ta	Turbellaria	Turbellaria	2	4	CG/PR	SP
Plecoptera	Isoperla	Isoperla	6	2	PR	CN
Plecoptera	Skwala	Skwala	1	3	PR	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18351

Station ID: BKK130_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T11-T500-M

Site Classification:

Collection Date: 07/05/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 358

Trichoptera	Brachycentrus	Brachycentrus americanus	2	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	16	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	4	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	22	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	2	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	25	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	11	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	8	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	12	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker **Benthic Sample ID:** 18352
Station ID: BKK130_d3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T12-T500-M
Site Classification: **Collection Date:** 07/05/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 374

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Microcylloepus pusillis	5			
Coleoptera	Optioservus	Optioservus	41	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	12	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	8	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	2	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	7	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Diamesa	4	4	CG	sp
Diptera	Diamesinae	Pagastia	1	4	CG	sp
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	15	6	CF	CN
Diptera	Tanypodinae	Pentaneura	3		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	11		PR	SP/BU
Diptera	Tipula	Tipula	1	4	SH	BU
Ephemeropte	Acentrella	Acentrella turbida	4	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	22	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Ephemerella	Ephemerella excrucians	18	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	9	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	1	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	55	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	1	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Isoperla	Isoperla	2	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	2	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	3	1	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18352

Station ID: BKK130_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T12-T500-M

Site Classification:

Collection Date: 07/05/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 374

Trichoptera	Brachycentrus	Brachycentrus occidentalis	18	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	6	5	CF	CN
Trichoptera	Dicosmoecus	Dicosmoecus gilvipes	1	2	SC	SP
Trichoptera	Helicopsyche	Helicopsyche borealis	33	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	1	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	28	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	6	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	12	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis avara	7	8	PR	CN/SP
Veneroida	Pisidiidae	Pisidium	1	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at County Line **Benthic Sample ID:** 18353
Station ID: BKK131_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T13-T500-M
Site Classification: **Collection Date:** 07/06/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 463

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	1	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Microcylloepus	Microcylloepus pusillus	8	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	19	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	12	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	3		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	5	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	5	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	15		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	5	6	CF	CN
Diptera	Tanypodinae	Nilotanypus	1		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	6		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	1		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	94	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	14	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	6			
Ephemeropte	Ephemerella	Ephemerella excrucians	2	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	7	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	1	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	1	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	132	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	1	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	32	8	CG	BU
Plecoptera	Pteronarcys	Pteronarcys californica	8	2	SH	CN
Plecoptera	Skwala	Skwala	1	3	PR	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18353

Station ID: BKK131_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T13-T500-M

Site Classification:

Collection Date: 07/06/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 463

Trichoptera	Brachycentrus	Brachycentrus occidentalis	1	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	15	5	CF	CN
Trichoptera	Dicosmoecus	Dicosmoecus gilvipes	1	2	SC	SP
Trichoptera	Helicopsyche	Helicopsyche borealis	1	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	33	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	7	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	9	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	2	1	SC	CN
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18354

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collection Date: 07/06/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 645

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
		Macaffertium	1			
		Thienemannimyia gp.	5			
Basommatop	Physa_Physella	Physella	3	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	3	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	9	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	49	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	1		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	8	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladius	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	3	6	CF	CN
Ephemeropte	Acentrella	Acentrella turbida	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	2	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	147	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	13	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	8			
Ephemeropte	Ephemera	Ephemera simulans	1	2	CG	BU
Ephemeropte	Paraleptophlebia	Paraleptophlebia	7	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	20	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	165	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	1	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	22	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus	1	2	PR	BU
Plecoptera	Pteronarcella	Pteronarcella badia	1	4	SH	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18354

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collection Date: 07/06/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 645

Trichoptera	Cheumatopsyche	Cheumatopsyche	7	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	1	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	88	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	3	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	13	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	6	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	10	2	SC	CN
Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	3	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at County Line **Benthic Sample ID:** 18355
Station ID: BKK131_d3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T15-T500-M
Site Classification: **Collection Date:** 07/06/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 506

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
		Thienemannimyia gp.	2			
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	1	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	6	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	11	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	4		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	5	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	5		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladius	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	10		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	1	6	CF	CN
Ephemeropte	Acentrella	Acentrella turbida	8	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	2		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	69	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemera	Ephemera simulans	1	2	CG	BU
Ephemeropte	Paraleptophlebia	Paraleptophlebia	5	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	1	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	198	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	23	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	1	2	PR	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	1	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18355

Station ID: BKK131_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T15-T500-M

Site Classification:

Collection Date: 07/06/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 506

Plecoptera	Pteronarcys	Pteronarcys californica	4	2	SH	CN
Plecoptera	Skwala	Skwala	2	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	4	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	14	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	2	0	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	1	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	70	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	10	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	6	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	1	1	SH	CM/SP
Trichoptera	Mayatrichia	Mayatrichia	9	1	SC	CN
Trichoptera	Oecetis	Oecetis avara	1	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon **Benthic Sample ID:** 18356
Station ID: BKK132_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T16-T500-M
Site Classification: **Collection Date:** 07/08/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 574

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Basommatop	Ferrissia	Ferrissia	1	6	SC	CN
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	1	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Microcylloepus	Microcylloepus pusillus	3	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	4	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	12	5	SC/CG	"CN/50%, BU/50%"
Diptera	Atherix	Atherix	2	5	PR	SP/BU
Diptera	Chironominae	Cryptochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	3	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Parametriocnemus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	10		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	7	6	CF	CN
Diptera	Tanypodinae	Nilotanypus	1		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	3		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	3	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	154	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	2	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	12	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Ephemerella	Ephemerella excrucians	2	2	CG	CN/SW
Ephemeropte	Leucrocuta	Leucrocuta	2	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	10	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	5	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	46	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18356

Station ID: BKK132_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T16-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 574

Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Trichoptera	Cheumatopsyche	Cheumatopsyche	169	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	4	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	4	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	10	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	76	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	1	2	SC	CN
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18357

Station ID: BKK132_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T17-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 619

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Microcyloepus	Microcyloepus pusillus	4	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	5	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	13	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	1		CG	"SP/75%, BU/25%"
Diptera	Atherix	Atherix	1	5	PR	SP/BU
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cryptochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	2	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	1	4	CG	sp
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Eukiefferiella	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	59	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	2		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	4	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	216	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	1	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	13	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	2	2	CG	CN
Ephemeropte	Leucrocuta	Leucrocuta	7	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	1	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	30	4	CG	CN/SP
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Chloroperlidae	Chloroperlinae	1	1	PR	CN
Plecoptera	Claassenia sabulos	Claassenia sabulosa	1	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Trichoptera	Agraylea	Agraylea	3	8	PH	CM

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18357

Station ID: BKK132_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T17-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 619

Trichoptera	Cheumatopsyche	Cheumatopsyche	130	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	1	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	1	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	16	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	20	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	42	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	4	2	SC	CN
Trichoptera	Oecetis	Oecetis avara	1	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon **Benthic Sample ID:** 18358
Station ID: BKK132_d3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T18-T500-M
Site Classification: **Collection Date:** 07/08/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 559

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Microcylloepus	Microcylloepus pusillus	3	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	2	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	31	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	1		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cryptochironomus	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	3	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Eukiefferiella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	16		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	5	6	CF	CN
Diptera	Tanypodinae	Nilotanypus	1		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	10		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	113	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	1	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Leucrocuta	Leucrocuta	4	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	5	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	1	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	40	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	6	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Plecoptera	Zapada	Zapada cinctipes	1	2	SH	CN
Trichoptera	Agraylea	Agraylea	3	8	PH	CM
Trichoptera	Cheumatopsyche	Cheumatopsyche	172	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	8	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	3	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	12	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	7	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	81	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	3	2	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18358

Station ID: BKK132_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T18-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 559

Trichoptera	Oecetis	Oecetis avara	1	8	PR	CN/SP
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Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18359

Station ID: BKK133_ds1

Rep. Num 0

Reference Status:

STORET Activity ID: T19-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 720

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Amphipoda	Hyalella	Hyalella azteca	11	8	CG	SW/SP
Basommatop	Physa_Physella	Physella	2	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	4	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Microcyloepus	Microcyloepus pusillus	18	5	CG	"CN/50%, BU/50%"
Coleoptera	Narpus	Narpus	2	2	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	87	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	2	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	41	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	1		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cryptochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Pseudochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	10	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	16	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	4	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Limnophila	Limnophila	1	3	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	65		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	13	6	CF	CN
Diptera	Tanypodinae	Nilotanypus	2		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	8		PR	SP/BU
Diptera	Tipula	Tipula	1	4	SH	BU
Ephemeropte	Acentrella	Acentrella turbida	6	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	20		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	1	3	CG	CN
Ephemeropte	Baetis	Baetis intercalaris	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	28	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	22	2	CG	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18359

Station ID: BKK133_ds1

Rep. Num 0

Reference Status:

STORET Activity ID: T19-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 720

Ephemeropte	Dipheter	Dipheter hageni	23	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella	16	2	CG	CN/SW
Ephemeropte	Fallceon	Fallceon quilleri	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Leucrocuta	Leucrocuta	2	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	2	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	55	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	23	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	5	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	6	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	9	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	1	2	PR	BU
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Trichoptera	Agraylea	Agraylea	1	8	PH	CM
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	15	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	46	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	3	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	12	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	3	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche slossonae	1	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	55	6	PH	CN
Trichoptera	Lepidostoma	Lepidostoma	1	1	SH	CM/SP
Trichoptera	Mayatrichia	Mayatrichia	29	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	8	2	SC	CN
Trichoptera	Ochrotrichia	Ochrotrichia	7	4	CG	CN
Trichoptera	Oecetis	Oecetis avara	1	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	2	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18360

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 516

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	2	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Microcylloepus	Microcylloepus pusillus	9	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	57	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	1	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	11	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes	1		CG	"SP/75%, BU/25%"
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Pseudochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	22	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	2	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Potthastia	1	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Limnophila	Limnophila	2	3	PR	BU
Diptera	Orthoclaadiinae	Cardiocladus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus	83		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Parakiefferiella	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	8	6	CF	CN
Diptera	Tanypodinae	Nilotanypus	7		PR	SP/BU
Diptera	Tanypodinae	Thienemannimyia Gr.	27		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	5	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	21		SC	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	32	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	30	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	12	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	2			
Ephemeropte	Fallceon	Fallceon quilleri	5	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	4	1	CG	SW/CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18360

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 516

Ephemeropte	Plauditus	Plauditus	20	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	17	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	10	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	1	7	SH	CM
Non-Insect ta	Turbellaria	Turbellaria	6	4	CG/PR	SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	1	3	PR	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	2	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	16	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	1	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	4	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	1	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	25	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	38	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	2	2	SC	CN
Trichoptera	Ochrotrichia	Ochrotrichia	3	4	CG	CN
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18361

Station ID: BKK133_ds3

Rep. Num 2

Reference Status:

STORET Activity ID: T21-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 658

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Amphipoda	Hyalella	Hyalella azteca	13	8	CG	SW/SP
Coleoptera	Microcylloepus	Microcylloepus pusillus	9	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	97	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	3	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	24	5	SC/CG	"CN/50%, BU/50%"
Diptera	Ceratopogoninae	Ceratopogoninae	2	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cryptochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	5	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	10	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Pseudochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	5	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Stempellina	9	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	9	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Potthastia	1	4	CG	sp
Diptera	Orthoclaadiinae	Cricotopus	35		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	5		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	2	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	8		PR	SP/BU
Diptera	Tipula	Tipula	1	4	SH	BU
Ephemeropte	Acentrella	Acentrella turbida	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Acerpenna	Acerpenna pygmaea	15		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	2	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	15	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	17	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	3	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	1			
Ephemeropte	Fallceon	Fallceon quilleri	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Leucrocuta	Leucrocuta	1	1	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	1	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	23	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	24	4	CG	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18361

Station ID: BKK133_ds3

Rep. Num 2

Reference Status:

STORET Activity ID: T21-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 658

Haplotaxida	Oligochaeta	Lumbricidae	2	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	1	8	CG	BU
Hemiptera	Corixidae	Corixidae	2	9	PH/PR	SW
Lepidoptera	Lepidoptera	Petrophila	1	7	SH	CM
Non-Insecta	Turbellaria	Turbellaria	5	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	1	2	PR	BU
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Plecoptera	Skwala	Skwala	2	3	PR	CN
Trichoptera	Agraylea	Agraylea	2	8	PH	CM
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	18	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	51	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	21	0	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	8	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	145	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	3	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche slossonae	1	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	17	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	13	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	1	2	SC	CN
Trichoptera	Ochrotrichia	Ochrotrichia	2	4	CG	CN
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge **Benthic Sample ID:** 18362
Station ID: M10SMTHR01a **Rep. Num** 0
Reference Status: **STORET Activity ID:** T22-T500-M
Site Classification: **Collection Date:** 07/08/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 510

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Amphipoda	Hyalella	Hyalella azteca	1	8	CG	SW/SP
Basommatop	Ferrissia	Ferrissia	2	6	SC	CN
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	4	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	17	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	4	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	8	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	10	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	22	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus	21		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	15		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	6		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	14	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	5		PR	SP/BU
Ephemeropte	Acerpenna	Acerpenna pygmaea	6		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	4	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	7	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	19	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	4	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	6			
Ephemeropte	Ephemerella	Ephemerella	2	2	CG	CN/SW
Ephemeropte	Fallceon	Fallceon quilleri	2	5	CG	"SW/10%, CN/90%"
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	2	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	25	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	65	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	2	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	2	2	PR	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18362

Station ID: M10SMTHR01a

Rep. Num 0

Reference Status:

STORET Activity ID: T22-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 510

Plecoptera	Skwala	Skwala	2	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	8	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	125	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	4	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	33	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	6	5	CF	CN
Trichoptera	Mayatrichia	Mayatrichia	21	1	SC	CN
Trichoptera	Oecetis	Oecetis	6	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18363

Station ID: M10SMTHR01b

Rep. Num 1

Reference Status:

STORET Activity ID: T23-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 511

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Amphipoda	Hyalella	Hyalella azteca	2	8	CG	SW/SP
Basommatop	Ferrissia	Ferrissia	1	6	SC	CN
Basommatop	Lymnaeidae	Fossaria	3	8	CG	CN
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	2	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	33	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	1	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	16	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	4		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Microtendipes	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polydillum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	21	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	17	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	2	6	PR	SP
Diptera	Orthoclaadiinae	Cricotopus	13		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladius	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	12		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	6	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	6		PR	SP/BU
Ephemeropte	Acerpenna	Acerpenna pygmaea	1		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	8	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	22	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	18	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	7	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	5			
Ephemeropte	Plauditus	Plauditus	1	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	15	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	23	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	7	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	1	2	PR	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	2	3	PR	CN
Plecoptera	Skwala	Skwala	3	3	PR	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18363

Station ID: M10SMTHR01b

Rep. Num 1

Reference Status:

STORET Activity ID: T23-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 511

Trichoptera	Brachycentrus	Brachycentrus occidentalis	12	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	99	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	2	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	88	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	5	5	CF	CN
Trichoptera	Mayatrichia	Mayatrichia	13	1	SC	CN
Trichoptera	Oecetis	Oecetis	11	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge **Benthic Sample ID:** 18364
Station ID: M10SMTHR01c **Rep. Num** 2
Reference Status: **STORET Activity ID:** T24-T500-M
Site Classification: **Collection Date:** 07/08/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 519

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
Amphipoda	Hyalella	Hyalella azteca	2	8	CG	SW/SP
Basommatop	Ferrissia	Ferrissia	3	6	SC	CN
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	6	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	42	5	SC	"CN/50%, BU/50%"
Coleoptera	Stenelmis	Stenelmis	1	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	22	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Chironominae	Microtendipes	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	8	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	11	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	16	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	13	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	3	6	PR	SP
Diptera	Orthocladiinae	Cricotopus	24		CG/SC	SP/BU
Diptera	Orthocladiinae	Eukiefferiella	4		CG/SC	SP/BU
Diptera	Orthocladiinae	Orthocladius	2		CG/SC	SP/BU
Diptera	Orthocladiinae	Tvetenia	7		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	6	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	2		PR	SP/BU
Ephemeropte	Acerpenna	Acerpenna pygmaea	5		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	12	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	18	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	22	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	5	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	7			
Ephemeropte	Paraleptophlebia	Paraleptophlebia	2	1	CG	SW/CN/SP
Ephemeropte	Plauditus	Plauditus	2	5	SC	"SW/10%, CN/90%"
Ephemeropte	Tricorythodes	Tricorythodes	22	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	14	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	11	4	CG/PR	SP
Odonata	Gomphidae	Ophiogomphus severus	1	2	PR	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	2	3	PR	CN
Plecoptera	Skwala	Skwala	2	3	PR	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18364

Station ID: M10SMTHR01c

Rep. Num 2

Reference Status:

STORET Activity ID: T24-T500-M

Site Classification:

Collection Date: 07/08/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 519

Trichoptera	Brachycentrus	Brachycentrus occidentalis	10	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	111	5	CF	CN
Trichoptera	Dolophilodes	Dolophilodes	1	0	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	70	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	8	5	CF	CN
Trichoptera	Mayatrichia	Mayatrichia	5	1	SC	CN
Trichoptera	Oecetis	Oecetis	1	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18365

Station ID: SM_CMPBk1

Rep. Num 0

Reference Status:

STORET Activity ID: T04-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1131

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Cricotopus nostococladus	8			
		Dubiraphia minima	4			
		Hydracarina	1			
		Hydropsyche sp. 1	4			
		Thienemannimyia gp.	28			
Basommatop	Ferrissia	Ferrissia	12	6	SC	CN
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	28	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	24	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	12	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Microtendipes	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polydellum	4	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Limnophila	Limnophila	1	3	PR	BU
Diptera	Orthoclaadiinae	Eukiefferiella	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	4		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	4	6	CF	CN
Ephemeropte	Attenella	Attenella margarita	44	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	108	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	16	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	32			
Ephemeropte	Ephemerella	Ephemerella simulans	24	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella excrucians	12	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	20	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	36	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	132	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	4	7	SH	CM
Non-Insect ta	Turbellaria	Turbellaria	12	4	CG/PR	SP
Plecoptera	Pteronarcys	Pteronarcys californica	8	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	292	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	28	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	24	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	4	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	44	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18365

Station ID: SM_CMPBk1

Rep. Num 0

Reference Status:

STORET Activity ID: T04-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1131

Trichoptera	Hydroptila	Hydroptila	8	6	PH	CN
Trichoptera	Oecetis	Oecetis	4	8	PR	CN/SP
Trichoptera	Psychoglypha	Psychoglypha	4	0	CG	SP
Veneroida	Pisidiidae	Pisidium	8	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	108	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18366

Station ID: SM_CMPBk2

Rep. Num 1

Reference Status:

STORET Activity ID: T05-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1745

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Hydracarina	1			
		Hydropsyche sp1	12			
Basommatop	Ferrissia	Ferrissia	4	6	SC	CN
Basommatop	Lymnaeidae	Stagnicola	4	8	CG	CN
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Dubiraphia	Dubiraphia	20	6	SC/CG	"CN/50%, BU/50%"
Coleoptera	Microcylloepus	Microcylloepus pusillus	64	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	96	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	60	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chelifera_Metachel	Chelifera	4	5	unk	SP
Diptera	Chironominae	Microtendipes	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polydellum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Hexatoma	Hexatoma	4	2	PR	BU
Diptera	Limnophila	Limnophila	2	3	PR	BU
Diptera	Orthoclaadiinae	Tvetenia	24		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	4	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	20		PR	SP/BU
Ephemeropte	Attenella	Attenella margarita	28	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	164	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	36	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	28			
Ephemeropte	Ephemerella	Ephemerella simulans	12	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella excrucians	16	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	48	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	128	4	CG	CN/SP
Haptotaxida	Oligochaeta	Tubificidae	140	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	4	7	SH	CM
Plecoptera	Claassenia sabulos	Claassenia sabulosa	4	3	PR	CN
Plecoptera	Isoperla	Isoperla	12	2	PR	CN
Plecoptera	Pteronarcella	Pteronarcella badia	4	4	SH	CN
Plecoptera	Pteronarcys	Pteronarcys californica	44	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	400	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	88	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	24	3	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18366

Station ID: SM_CMPBk2

Rep. Num 1

Reference Status:

STORET Activity ID: T05-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1745

Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	64	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	8	6	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	8	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	64	2	SC	CN
Trichoptera	Oecetis	Oecetis avara	4	8	PR	CN/SP
Trichoptera	Protoptila	Protoptila	4	1	SC	CN
Veneroida	Pisidiidae	Pisidium	4	8	CF	BU
Veneroida	Pisidiidae	Sphaerium	80	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18367

Station ID: SM_CMPBk3

Rep. Num 2

Reference Status:

STORET Activity ID: T06-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1054

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Cricotopus nostococladus	6			
		Hydracarina	1			
		Hydropsyche sp1	6			
Coleoptera	Microcylloepus	Microcylloepus	11	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	57	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	29	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Microtendipes	5	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Phaenopsectra	4	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	11	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Eukiefferiella	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	23		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	6	6	CF	CN
Ephemeropte	Attenella	Attenella margarita	17	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	126	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	17	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ecdyonurus	Ecdyonurus	6			
Ephemeropte	Ephemera	Ephemera simulans	6	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella	12	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Paraleptophlebia	Paraleptophlebia bicornuta	6	1	CG	SW/CN/SP
Ephemeropte	Serratella	Serratella tibialis	6	2	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	51	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	17	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	6	7	SH	CM
Plecoptera	Hesperoperla	Hesperoperla pacifica	6	1	PR	CN
Plecoptera	Isoperla	Isoperla	6	2	PR	CN
Plecoptera	Pteronarcella	Pteronarcella badia	6	4	SH	CN
Plecoptera	Pteronarcys	Pteronarcys californica	46	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	166	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	63	5	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	6	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche morosa gr.	40	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	120	5	CF	CN
Trichoptera	Mayatrichia	Mayatrichia	11	1	SC	CN
Trichoptera	Neotrichia	Neotrichia	46	2	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18367

Station ID: SM_CMPBk3

Rep. Num 2

Reference Status:

STORET Activity ID: T06-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 1054

Trichoptera	Oecetis	Oecetis avara	34	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	63	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek **Benthic Sample ID:** 18368
Station ID: SM_DSSHP1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T07-T500-M
Site Classification: **Collection Date:** 07/01/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 431

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Cricotopus nostococladus	40			
		Hydracarina	1			
		Hydropsyche sp1	3			
Basommatop	Ferrissia	Ferrissia	2	6	SC	CN
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Optioservus	Optioservus	26	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	16	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes virilis	2		CG	"SP/75%, BU/25%"
Diptera	Antocha	Antocha	4	3	CG	CN
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	3	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Eukiefferiella	19		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	5		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	19		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	7	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	6		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	10	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	26	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	1	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	6	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella coloraden	Drunella coloradensis	6	1	SC	"CN/75%, SP/25%"
Ephemeropte	Ecdyonurus	Ecdyonurus	7			
Ephemeropte	Epeorus	Epeorus albertae	3	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	3	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	13	1	CG	SW/CN/SP
Ephemeropte	Serratella	Serratella tibialis	1	2	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	11	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	3	7	SH	CM
Plecoptera	Pteronarcys	Pteronarcys californica	3	2	SH	CN
Plecoptera	Zapada	Zapada cinctipes	1	2	SH	CN

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18368

Station ID: SM_DSSHP1

Rep. Num 0

Reference Status:

STORET Activity ID: T07-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 431

Trichoptera	Arctopsyche	Arctopsyche grandis	3	2	CF	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	10	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	75	1	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	12	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	42	5	CF	CN
Trichoptera	Lepidostoma	Lepidostoma	14	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis avara	8	8	PR	CN/SP
Trichoptera	Protophila	Protophila	2	1	SC	CN
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek **Benthic Sample ID:** 18369
Station ID: SM_DSSHP2 **Rep. Num** 1
Reference Status: **STORET Activity ID:** T08-T500-M
Site Classification: **Collection Date:** 07/01/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 502

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Cricotopus nostococladus	61			
		Hydracarina	1			
		Hydropsyche sp1	1			
Basommatop	Ferrissia	Ferrissia	1	6	SC	CN
Basommatop	Lymnaeidae	Fossaria	3	8	CG	CN
Basommatop	Physa_Physella	Physella	8	8	CG	CN
Coleoptera	Optioservus	Optioservus	15	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	16	5	SC/CG	"CN/50%, BU/50%"
Decapoda	Cambaridae	Orconectes	1		CG	"SP/75%, BU/25%"
Diptera	Antocha	Antocha	1	3	CG	CN
Diptera	Chironominae	Polypedilum	5	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	2	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	2	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	3	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Hexatoma	Hexatoma	3	2	PR	BU
Diptera	Orthoclaadiinae	Eukiefferiella	24		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Lopescladius	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Parametricnemus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	12		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	39		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	8	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia Gr.	3		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	4	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	37	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	9	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella coloraden	Drunella coloradensis	16	1	SC	"CN/75%, SP/25%"
Ephemeropte	Ecdyonurus	Ecdyonurus	14			
Ephemeropte	Ephemerella	Ephemerella excrucians	4	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	4	1	CG	SW/CN/SP
Ephemeropte	Serratella	Serratella tibialis	1	2	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	20	4	CG	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18369

Station ID: SM_DSSHP2

Rep. Num 1

Reference Status:

STORET Activity ID: T08-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 502

Haplotaxida	Oligochaeta	Tubificidae	5	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	1	7	SH	CM
Plecoptera	Isoperla	Isoperla	1	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	4	2	SH	CN
Plecoptera	Skwala	Skwala	1	3	PR	CN
Plecoptera	Zapada	Zapada cinctipes	1	2	SH	CN
Trichoptera	Arctopsyche	Arctopsyche grandis	2	2	CF	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	13	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	29	1	CF	CN
Trichoptera	Dicosmoecus	Dicosmoecus gilvipes	2	2	SC	SP
Trichoptera	Helicopsyche	Helicopsyche borealis	30	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	40	5	CF	CN
Trichoptera	Lepidostoma	Lepidostoma	31	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis avara	10	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	4	8	CF	BU

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek **Benthic Sample ID:** 18370
Station ID: SM_DSSHP3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T09-T500-M
Site Classification: **Collection Date:** 07/01/2017
Latitude: **Collection Method:** HESS
Longitude: **Total Number of Individuals in Sample:** 461

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
		Cricotopus nostococladus	88			
		Hydracarina	1			
		Hydropsyche sp1	3			
		Thienemannimyia gp.	2			
Basommatop	Ferrissia	Ferrissia	3	6	SC	CN
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Optioservus	Optioservus	24	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	22	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	7	3	CG	CN
Diptera	Chironominae	Polypedilum	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	9	4	CG	sp
Diptera	Diamesinae	Potthastia	2	4	CG	sp
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Eukiefferiella	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladus	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Parametriocnemus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Paraphaenocladus	7		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	10		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	3	6	CF	CN
Ephemeropte	Acentrella	Acentrella turbida	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	4	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	28	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	1	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	5	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella coloraden	Drunella coloradensis	14	1	SC	"CN/75%, SP/25%"
Ephemeropte	Ecdyonurus	Ecdyonurus	2			
Ephemeropte	Epeorus	Epeorus albertae	2	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella excrucians	2	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia	2	1	CG	SW/CN/SP
Ephemeropte	Tricorythodes	Tricorythodes	4	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	3	7	SH	CM

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18370

Station ID: SM_DSSHP3

Rep. Num 2

Reference Status:

STORET Activity ID: T09-T500-M

Site Classification:

Collection Date: 07/01/2017

Latitude:

Collection Method: HESS

Longitude:

Total Number of Individuals in Sample: 461

Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Isoperla	Isoperla	1	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys californica	1	2	SH	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	10	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	52	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	1	5	CF	CN
Trichoptera	Dicosmoecus	Dicosmoecus gilvipes	1	2	SC	SP
Trichoptera	Helicopsyche	Helicopsyche borealis	20	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche occidentalis	52	5	CF	CN
Trichoptera	Lepidostoma	Lepidostoma	26	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis avara	8	8	PR	CN/SP
Veneroida	Pisidiidae	Sphaerium	1	8	CF	BU

Appendix B. Macroinvertebrate MDEQ Low Valley MMI calculations

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18249

Station ID: BKK130_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T10-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1200

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="58.8"/>	EPT % no Hydr or Baet:	34.7	48.8
	Midge Percent:	12.7	31.7
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	2	75.9
	Predator Percent:	12.3	37.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18250

Station ID: BKK130_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T11-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1292

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="57.4"/>	EPT % no Hydr or Baet:	33.1	46.7
	Midge Percent:	13.6	34.1
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	2	76.4
	Predator Percent:	9.9	30.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18251

Station ID: BKK130_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T12-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1184

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="60.2"/>	EPT % no Hydr or Baet:	43.9	61.9
	Midge Percent:	5.7	14.4
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	1	85.7
	Predator Percent:	12.8	38.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18252

Station ID: BKK131_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T13-T500-M

Site Classification:

Collect. Date: 09/18/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1396

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="67.0"/>	EPT % no Hydr or Baet:	24.9	35.1
	Midge Percent:	21.5	53.7
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	1	86.0
	Predator Percent:	19.8	59.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18253

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collect. Date: 09/18/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1122

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="77.7"/>	EPT % no Hydr or Baet:	31.6	44.4
	Midge Percent:	27.8	69.5
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	1	85.8
	Predator Percent:	29.2	88.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18254

Station ID: BKK131_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T15-T500-M

Site Classification:

Collect. Date: 09/18/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1276

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
Low Valley MMI: <input type="text" value="61.3"/>	EPT % no Hydr or Baet:	26.3	37.1
	Midge Percent:	19.7	49.4
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :	1	85.8
	Predator Percent:	11.3	34.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18255

Station ID: BKK132_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T16-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1436

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="64.6"/>	EPT % no Hydr or Baet:	24.8	34.9
	Midge Percent:	17.5	43.9
	Crustacea+Mollusca %:	0.3	98.6
	Shredder Taxa :		100.0
	Predator Percent:	15.0	45.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18256

Station ID: BKK132_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T17-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 876

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="68.8"/>	EPT % no Hydr or Baet:	19.2	27.0
	Midge Percent:	24.2	60.5
	Crustacea+Mollusca %:		100.0
	Shredder Taxa :		100.0
	Predator Percent:	18.7	56.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon	Benthic Sample ID: 18257
Station ID: BKK132_d3	Rep. Num 2
Reference Status:	STORET Activity ID: T18-T500-M
Site Classification:	Collect. Date: 07/10/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 460
Latitude: GIS_LAT:	Longitude: GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
Low Valley MMI: <input type="text" value="73.3"/>	EPT % no Hydr or Baet:	17.4	24.5
	Midge Percent:	37.4	93.5
	Crustacea+Mollusca %:	0.9	95.7
	Shredder Taxa :		100.0
	Predator Percent:	17.4	52.7

Predictive Model Results

O/E_p>0.5: Model Test:
Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18258

Station ID: BKK133_ds1

Rep. Num 0

Reference Status:

STORET Activity ID: T19-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 526

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="62.0"/>	EPT % no Hydr or Baet:	22.1	31.1
	Midge Percent:	20.5	51.3
	Crustacea+Mollusca %:	9.5	52.5
	Shredder Taxa :		100.0
	Predator Percent:	24.7	74.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18259

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 530

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="68.8"/>	EPT % no Hydr or Baet:	25.7	36.1
	Midge Percent:	21.9	54.7
	Crustacea+Mollusca %:	1.5	92.5
	Shredder Taxa :		100.0
	Predator Percent:	20.0	60.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18260

Station ID: BKK133_ds3

Rep. Num 2

Reference Status:

STORET Activity ID: T21-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 546

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="66.2"/>	EPT % no Hydr or Baet:	24.9	35.1
	Midge Percent:	21.2	53.1
	Crustacea+Mollusca %:	3.7	81.7
	Shredder Taxa :		100.0
	Predator Percent:	20.1	61.1

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18261

Station ID: M10SMTHR01a

Rep. Num 0

Reference Status:

STORET Activity ID: T22-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 400

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="61.3"/>	EPT % no Hydr or Baet:	13.5	19.0
	Midge Percent:	16.0	40.0
	Crustacea+Mollusca %:	0.5	97.5
	Shredder Taxa :		100.0
	Predator Percent:	16.5	50.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18262

Station ID: M10SMTHR01b

Rep. Num 1

Reference Status:

STORET Activity ID: T23-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 456

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="56.1"/>	EPT % no Hydr or Baet:	11.4	16.1
	Midge Percent:	11.8	29.6
	Crustacea+Mollusca %:	1.3	93.4
	Shredder Taxa :		100.0
	Predator Percent:	13.6	41.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18263

Station ID: M10SMTHR01c

Rep. Num 2

Reference Status:

STORET Activity ID: T24-T500-M

Site Classification:

Collect. Date: 07/10/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 360

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
Low Valley MMI: <input type="text" value="63.4"/>	EPT % no Hydr or Baet:	14.4	20.3
	Midge Percent:	15.6	38.9
	Crustacea+Mollusca %:	0.6	97.2
	Shredder Taxa :		100.0
	Predator Percent:	20.0	60.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18264

Station ID: SM_CMPBk1

Rep. Num 0

Reference Status:

STORET Activity ID: T04-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 752

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="48.3"/>	EPT % no Hydr or Baet:	17.6	24.7
	Midge Percent:	5.9	14.6
	Crustacea+Mollusca %:	3.2	84.0
	Shredder Taxa :	1	87.6
	Predator Percent:	10.1	30.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18265

Station ID: SM_CMPBk2

Rep. Num 1

Reference Status:

STORET Activity ID: T05-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 904

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="48.3"/>	EPT % no Hydr or Baet:	9.7	13.7
	Midge Percent:	8.0	19.9
	Crustacea+Mollusca %:	0.4	97.8
	Shredder Taxa :	1	88.6
	Predator Percent:	7.1	21.5

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18266

Station ID: SM_CMPBk3

Rep. Num 2

Reference Status:

STORET Activity ID: T06-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 630

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="50.8"/>	EPT % no Hydr or Baet:	28.3	39.8
	Midge Percent:	6.3	15.9
	Crustacea+Mollusca %:	0.6	96.8
	Shredder Taxa :	1	86.0
	Predator Percent:	5.1	15.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18267

Station ID: SM_DSSHP1

Rep. Num 0

Reference Status:

STORET Activity ID: T07-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 2236

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="53.1"/>	EPT % no Hydr or Baet:	36.3	51.1
	Midge Percent:	4.5	11.2
	Crustacea+Mollusca %:	1.4	92.8
	Shredder Taxa :	1	88.2
	Predator Percent:	7.3	22.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18268

Station ID: SM_DSSHP2

Rep. Num 1

Reference Status:

STORET Activity ID: T08-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 1408

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.4"/>	EPT % no Hydr or Baet:	33.2	46.8
	Midge Percent:	5.7	14.2
	Crustacea+Mollusca %:	1.4	92.9
	Shredder Taxa :	1	82.4
	Predator Percent:	6.8	20.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18269

Station ID: SM_DSSHP3

Rep. Num 2

Reference Status:

STORET Activity ID: T09-T500-M

Site Classification:

Collect. Date: 07/11/2016

Four Code HUC:

Collect Method: MAC-T-500

TMDL Plan. Area:

Total Indiv. in Sample: 960

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="53.0"/>	EPT % no Hydr or Baet:	38.3	54.0
	Midge Percent:	5.0	12.5
	Crustacea+Mollusca %:	2.1	89.6
	Shredder Taxa :	1	88.9
	Predator Percent:	6.7	20.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18347

Station ID: BKK129_dms17

Rep. Num 0

Reference Status:

STORET Activity ID: T01-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 572

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="47.6"/>	EPT % no Hydr or Baet:	26.2	36.9
	Midge Percent:	2.8	7.0
	Crustacea+Mollusca %:	1.7	91.3
	Shredder Taxa :	1	92.5
	Predator Percent:	3.3	10.1

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18348

Station ID: BKK129_dms27

Rep. Num 1

Reference Status:

STORET Activity ID: T02-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 568

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="45.2"/>	EPT % no Hydr or Baet:	29.2	41.2
	Midge Percent:	2.6	6.6
	Crustacea+Mollusca %:	0.9	95.6
	Shredder Taxa :	2	73.8
	Predator Percent:	3.0	9.1

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S 360 Bridge

Benthic Sample ID: 18349

Station ID: BKK129_dms37

Rep. Num 2

Reference Status:

STORET Activity ID: T03-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 551

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.2"/>	EPT % no Hydr or Baet:	37.2	52.4
	Midge Percent:	4.7	11.8
	Crustacea+Mollusca %:	0.7	96.4
	Shredder Taxa :	1	80.9
	Predator Percent:	4.7	14.3

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18350

Station ID: BKK130_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T10-T500-M

Site Classification:

Collect. Date: 07/05/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 326

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="60.4"/>	EPT % no Hydr or Baet:	44.5	62.6
	Midge Percent:	14.4	36.0
	Crustacea+Mollusca %:	0.9	95.4
	Shredder Taxa :	3	59.4
	Predator Percent:	16.0	48.3

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18351

Station ID: BKK130_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T11-T500-M

Site Classification:

Collect. Date: 07/05/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 358

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="70.7"/>	EPT % no Hydr or Baet:	43.3	61.0
	Midge Percent:	22.9	57.3
	Crustacea+Mollusca %:	0.6	97.2
	Shredder Taxa :	2	73.7
	Predator Percent:	21.2	64.3

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker

Benthic Sample ID: 18352

Station ID: BKK130_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T12-T500-M

Site Classification:

Collect. Date: 07/05/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 374

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="60.8"/>	EPT % no Hydr or Baet:	45.7	64.4
	Midge Percent:	13.9	34.8
	Crustacea+Mollusca %:	0.5	97.3
	Shredder Taxa :	3	62.8
	Predator Percent:	14.7	44.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18353

Station ID: BKK131_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T13-T500-M

Site Classification:

Collect. Date: 07/06/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 463

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="53.4"/>	EPT % no Hydr or Baet:	37.1	52.3
	Midge Percent:	7.6	18.9
	Crustacea+Mollusca %:	1.1	94.6
	Shredder Taxa :	1	85.7
	Predator Percent:	5.2	15.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18354

Station ID: BKK131_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T14-T500-M

Site Classification:

Collect. Date: 07/06/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 645

Latitude: GIS_LAT:

Longitude: GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.7"/>	EPT % no Hydr or Baet:	36.7	51.8
	Midge Percent:	5.6	14.0
	Crustacea+Mollusca %:	1.1	94.6
	Shredder Taxa :	1	86.7
	Predator Percent:	3.9	11.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line

Benthic Sample ID: 18355

Station ID: BKK131_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T15-T500-M

Site Classification:

Collect. Date: 07/06/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 506

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="53.7"/>	EPT % no Hydr or Baet:	47.0	66.2
	Midge Percent:	6.3	15.8
	Crustacea+Mollusca %:	1.2	94.1
	Shredder Taxa :	2	77.6
	Predator Percent:	4.9	15.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18356

Station ID: BKK132_d1

Rep. Num 0

Reference Status:

STORET Activity ID: T16-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 574

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.4"/>	EPT % no Hydr or Baet:	27.9	39.3
	Midge Percent:	5.4	13.5
	Crustacea+Mollusca %:	1.0	94.8
	Shredder Taxa :		100.0
	Predator Percent:	3.1	9.5

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18357

Station ID: BKK132_d2

Rep. Num 1

Reference Status:

STORET Activity ID: T17-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 619

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="47.4"/>	EPT % no Hydr or Baet:	19.7	27.8
	Midge Percent:	4.0	10.1
	Crustacea+Mollusca %:	0.8	96.0
	Shredder Taxa :	0	93.1
	Predator Percent:	3.4	10.3

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon

Benthic Sample ID: 18358

Station ID: BKK132_d3

Rep. Num 2

Reference Status:

STORET Activity ID: T18-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 559

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.8"/>	EPT % no Hydr or Baet:	27.9	39.3
	Midge Percent:	7.9	19.7
	Crustacea+Mollusca %:	0.2	99.1
	Shredder Taxa :	1	84.7
	Predator Percent:	5.4	16.3

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18359

Station ID: BKK133_ds1

Rep. Num 0

Reference Status:

STORET Activity ID: T19-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 720

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="57.0"/>	EPT % no Hydr or Baet:	26.1	36.8
	Midge Percent:	17.4	43.4
	Crustacea+Mollusca %:	2.2	88.9
	Shredder Taxa :	1	88.1
	Predator Percent:	9.2	27.8

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18360

Station ID: BKK133_ds2

Rep. Num 1

Reference Status:

STORET Activity ID: T20-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 516

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="69.3"/>	EPT % no Hydr or Baet:	24.4	34.4
	Midge Percent:	31.2	78.0
	Crustacea+Mollusca %:	0.6	97.1
	Shredder Taxa :	1	91.7
	Predator Percent:	14.9	45.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek

Benthic Sample ID: 18361

Station ID: BKK133_ds3

Rep. Num 2

Reference Status:

STORET Activity ID: T21-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 658

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="53.1"/>	EPT % no Hydr or Baet:	20.2	28.5
	Midge Percent:	14.9	37.2
	Crustacea+Mollusca %:	2.1	89.4
	Shredder Taxa :	1	80.5
	Predator Percent:	9.9	29.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18362

Station ID: M10SMTHR01a

Rep. Num 0

Reference Status:

STORET Activity ID: T22-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 510

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
Low Valley MMI: <input type="text" value="59.2"/>	EPT % no Hydr or Baet:	20.2	28.4
	Midge Percent:	17.5	43.6
	Crustacea+Mollusca %:	2.5	87.3
	Shredder Taxa :		100.0
	Predator Percent:	12.2	36.8

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18363

Station ID: M10SMTHR01b

Rep. Num 1

Reference Status:

STORET Activity ID: T23-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 511

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="58.4"/>	EPT % no Hydr or Baet:	17.4	24.5
	Midge Percent:	16.6	41.6
	Crustacea+Mollusca %:	4.3	78.5
	Shredder Taxa :		100.0
	Predator Percent:	15.7	47.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge

Benthic Sample ID: 18364

Station ID: M10SMTHR01c

Rep. Num 2

Reference Status:

STORET Activity ID: T24-T500-M

Site Classification:

Collect. Date: 07/08/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 519

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="60.6"/>	EPT % no Hydr or Baet:	16.6	23.3
	Midge Percent:	18.3	45.8
	Crustacea+Mollusca %:	2.3	88.4
	Shredder Taxa :		100.0
	Predator Percent:	15.0	45.5

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18365

Station ID: SM_CMPBk1

Rep. Num 0

Reference Status:

STORET Activity ID: T04-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 1131

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="38.5"/>	EPT % no Hydr or Baet:	44.9	63.3
	Midge Percent:	1.9	4.6
	Crustacea+Mollusca %:	12.0	39.9
	Shredder Taxa :	2	76.8
	Predator Percent:	2.7	8.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18366

Station ID: SM_CMPBk2

Rep. Num 1

Reference Status:

STORET Activity ID: T05-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 1745

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="45.3"/>	EPT % no Hydr or Baet:	47.9	67.5
	Midge Percent:	2.9	7.2
	Crustacea+Mollusca %:	5.5	72.5
	Shredder Taxa :	2	70.6
	Predator Percent:	3.0	9.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker

Benthic Sample ID: 18367

Station ID: SM_CMPBk3

Rep. Num 2

Reference Status:

STORET Activity ID: T06-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 1054

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="44.0"/>	EPT % no Hydr or Baet:	41.5	58.4
	Midge Percent:	4.6	11.6
	Crustacea+Mollusca %:	6.0	70.1
	Shredder Taxa :	3	61.0
	Predator Percent:	6.3	19.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18368

Station ID: SM_DSSHP1

Rep. Num 0

Reference Status:

STORET Activity ID: T07-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 431

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="47.6"/>	EPT % no Hydr or Baet:	41.8	58.8
	Midge Percent:	13.0	32.5
	Crustacea+Mollusca %:	2.8	86.1
	Shredder Taxa :	4	48.0
	Predator Percent:	4.2	12.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18369

Station ID: SM_DSSHP2

Rep. Num 1

Reference Status:

STORET Activity ID: T08-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 502

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="51.1"/>	EPT % no Hydr or Baet:	36.9	51.9
	Midge Percent:	19.5	48.8
	Crustacea+Mollusca %:	3.4	83.1
	Shredder Taxa :	3	54.7
	Predator Percent:	5.6	16.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek

Benthic Sample ID: 18370

Station ID: SM_DSSHP3

Rep. Num 2

Reference Status:

STORET Activity ID: T09-T500-M

Site Classification:

Collect. Date: 07/01/2017

Four Code HUC:

Collect Method: HESS

TMDL Plan. Area:

Total Indiv. in Sample: 461

Latitude:

GIS_LAT:

Longitude:

GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Low Valley MMI:</i> <input type="text" value="48.4"/>	EPT % no Hydr or Baet:	32.5	45.8
	Midge Percent:	12.4	30.9
	Crustacea+Mollusca %:	1.7	91.3
	Shredder Taxa :	3	62.7
	Predator Percent:	3.7	11.2

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Appendix C. Macroinvertebrate MDEQ Mountain MMI calculations

Montana Bioassessment Report

Waterbody Name: Smith River 360 Bridge	Benthic Sample ID: 18246
Station ID: BKK129_dms1	Rep. Num 0
Reference Status:	STORET Activity ID: T01-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 666

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	5	52.2
	Plecoptera Taxa:	1	10.0
	EPT Percent:	59.2	65.7
	Non-Insect Percent:	2.4	91.4
	Predator Percent:	3.3	8.5
	Burrower Taxa %:	38.7	62.3
	HBI:	4.29	53.5

49.1

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River 360 Bridge	Benthic Sample ID: 18247
Station ID: BKK129_dms2	Rep. Num 1
Reference Status:	STORET Activity ID: T02-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 672

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	5	48.1
	Plecoptera Taxa:	1	13.0
	EPT Percent:	46.4	51.6
	Non-Insect Percent:	4.8	83.0
	Predator Percent:	6.5	16.8
	Burrower Taxa %:	40.1	60.4
	HBI:	4.24	54.3

46.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker **Benthic Sample ID:** 18249
Station ID: BKK130_d1 **Rep. Num** 0
Reference Status: **STORET Activity ID:** T10-T500-M
Site Classification: **Collect. Date:** 07/11/2016
Four Code HUC: **Collect Method:** MAC-T-500
TMDL Plan. Area: **Total Indiv. in Sample:** 1200

Latitude: GIS_LAT **Longitude:** GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i> <input type="text" value="56.5"/>	Ephemeroptera Taxa:	5	47.0
	Plecoptera Taxa:	1	19.5
	EPT Percent:	53.0	58.9
	Non-Insect Percent:		100.0
	Predator Percent:	12.3	31.6
	Burrower Taxa %:	27.5	78.2
	HBI:	3.88	60.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker	Benthic Sample ID: 18250
Station ID: BKK130_d2	Rep. Num 1
Reference Status:	STORET Activity ID: T11-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 1292

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	6	61.4
	Plecoptera Taxa:	2	28.0
	EPT Percent:	48.0	53.3
	Non-Insect Percent:		100.0
	Predator Percent:	9.9	25.4
	Burrower Taxa %:	24.3	82.7
	HBI:	3.88	60.3

58.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Camp Baker	Benthic Sample ID: 18251
Station ID: BKK130_d3	Rep. Num 2
Reference Status:	STORET Activity ID: T12-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 1184

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	5	50.0
	Plecoptera Taxa:	1	19.7
	EPT Percent:	63.9	70.9
	Non-Insect Percent:		100.0
	Predator Percent:	12.8	32.9
	Burrower Taxa %:	27.2	78.6
	HBI:	3.89	60.2

58.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name:	Smith River at County Line	Benthic Sample ID:	18252
Station ID:	BKK131_d1	Rep. Num	0
Reference Status:		STORET Activity ID:	T13-T500-M
Site Classification:		Collect. Date:	09/18/2016
Four Code HUC:		Collect Method:	MAC-T-500
TMDL Plan. Area:		Total Indiv. in Sample:	1396

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	7	68.1
	Plecoptera Taxa:	2	35.1
	EPT Percent:	52.7	58.6
	Non-Insect Percent:	0.9	96.9
	Predator Percent:	19.8	50.7
	Burrower Taxa %:	29.6	75.2
	HBI:	4.72	46.3

61.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line	Benthic Sample ID: 18253
Station ID: BKK131_d2	Rep. Num 1
Reference Status:	STORET Activity ID: T14-T500-M
Site Classification:	Collect. Date: 09/18/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 1122

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	7	73.5
	Plecoptera Taxa:	3	37.5
	EPT Percent:	60.8	67.5
	Non-Insect Percent:	5.0	82.2
	Predator Percent:	29.2	75.0
	Burrower Taxa %:	24.5	82.5
	HBI:	4.61	48.1

66.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at County Line	Benthic Sample ID: 18254
Station ID: BKK131_d3	Rep. Num 2
Reference Status:	STORET Activity ID: T15-T500-M
Site Classification:	Collect. Date: 09/18/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 1276

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	7	69.7
	Plecoptera Taxa:	3	37.7
	EPT Percent:	50.8	56.4
	Non-Insect Percent:	1.6	94.4
	Predator Percent:	11.3	28.9
	Burrower Taxa %:	28.5	76.8
	HBI:	4.26	53.9

59.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name:	Smith River DS of the Canyon	Benthic Sample ID:	18255
Station ID:	BKK132_d1	Rep. Num	0
Reference Status:		STORET Activity ID:	T16-T500-M
Site Classification:		Collect. Date:	07/10/2016
Four Code HUC:		Collect Method:	MAC-T-500
TMDL Plan. Area:		Total Indiv. in Sample:	1436

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	8	77.5
	Plecoptera Taxa:	2	26.1
	EPT Percent:	66.0	73.4
	Non-Insect Percent:	5.8	79.1
	Predator Percent:	15.0	38.6
	Burrower Taxa %:	29.2	75.7
	HBI:	4.88	43.6

59.1

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of the Canyon	Benthic Sample ID: 18256
Station ID: BKK132_d2	Rep. Num 1
Reference Status:	STORET Activity ID: T17-T500-M
Site Classification:	Collect. Date: 07/10/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 876

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	6	55.9
	Plecoptera Taxa:	2	25.4
	EPT Percent:	54.3	60.4
	Non-Insect Percent:		100.0
	Predator Percent:	18.7	48.0
	Burrower Taxa %:	26.8	79.1
	HBI:	4.85	44.2

59.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek	Benthic Sample ID: 18259
Station ID: BKK133_ds2	Rep. Num 1
Reference Status:	STORET Activity ID: T20-T500-M
Site Classification:	Collect. Date: 07/10/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 530

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	7	68.1
	Plecoptera Taxa:	2	28.1
	EPT Percent:	43.4	48.2
	Non-Insect Percent:	10.9	60.9
	Predator Percent:	20.0	51.3
	Burrower Taxa %:	31.4	72.7
	HBI:	4.25	54.1

54.8

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River DS of Hound Creek	Benthic Sample ID: 18260
Station ID: BKK133_ds3	Rep. Num 2
Reference Status:	STORET Activity ID: T21-T500-M
Site Classification:	Collect. Date: 07/10/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 546

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	7	68.0
	Plecoptera Taxa:	2	28.0
	EPT Percent:	42.1	46.8
	Non-Insect Percent:	12.8	54.2
	Predator Percent:	20.1	51.7
	Burrower Taxa %:	36.3	65.7
	HBI:	4.23	54.5

52.7

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name:	Smith River at Eden Bridge	Benthic Sample ID:	18261
Station ID:	M10SMTHR01a	Rep. Num	0
Reference Status:		STORET Activity ID:	T22-T500-M
Site Classification:		Collect. Date:	07/10/2016
Four Code HUC:		Collect Method:	MAC-T-500
TMDL Plan. Area:		Total Indiv. in Sample:	400

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	9	87.5
	Plecoptera Taxa:	1	14.2
	EPT Percent:	37.5	41.7
	Non-Insect Percent:	21.0	25.0
	Predator Percent:	16.5	42.3
	Burrower Taxa %:	37.1	64.6
	HBI:	5.58	32.1

43.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Eden Bridge	Benthic Sample ID: 18263
Station ID: M10SMTHR01c	Rep. Num 2
Reference Status:	STORET Activity ID: T24-T500-M
Site Classification:	Collect. Date: 07/10/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 360

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	8	79.4
	Plecoptera Taxa:	3	42.1
	EPT Percent:	45.0	50.0
	Non-Insect Percent:	5.6	80.2
	Predator Percent:	20.0	51.3
	Burrower Taxa %:	32.3	71.5
	HBI:	4.84	44.3

59.8

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name:	Smith River at Camp Baker	Benthic Sample ID:	18264
Station ID:	SM_CMPBk1	Rep. Num	0
Reference Status:		STORET Activity ID:	T04-T500-M
Site Classification:		Collect. Date:	07/11/2016
Four Code HUC:		Collect Method:	MAC-T-500
TMDL Plan. Area:		Total Indiv. in Sample:	752

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	2	19.8
	Plecoptera Taxa:	2	24.9
	EPT Percent:	39.4	43.7
	Non-Insect Percent:	9.0	67.7
	Predator Percent:	10.1	25.9
	Burrower Taxa %:	38.6	62.5
	HBI:	5.01	41.5

40.9

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker	Benthic Sample ID: 18265
Station ID: SM_CMPBk2	Rep. Num 1
Reference Status:	STORET Activity ID: T05-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 904

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	4	37.2
	Plecoptera Taxa:	1	11.4
	EPT Percent:	43.4	48.2
	Non-Insect Percent:	4.0	85.8
	Predator Percent:	7.1	18.2
	Burrower Taxa %:	34.2	68.7
	HBI:	5.17	38.8

44.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River at Camp Baker **Benthic Sample ID:** 18266
Station ID: SM_CMPBk3 **Rep. Num** 2
Reference Status: **STORET Activity ID:** T06-T500-M
Site Classification: **Collect. Date:** 07/11/2016
Four Code HUC: **Collect Method:** MAC-T-500
TMDL Plan. Area: **Total Indiv. in Sample:** 630

Latitude: GIS_LAT **Longitude:** GIS_LONG:

	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i> <input type="text" value="44.9"/>	Ephemeroptera Taxa:	3	26.5
	Plecoptera Taxa:	2	24.4
	EPT Percent:	45.7	50.8
	Non-Insect Percent:	2.9	89.8
	Predator Percent:	5.1	13.0
	Burrower Taxa %:	34.0	69.1
	HBI:	5.07	40.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name:	Smith River D/S Sheep Creek	Benthic Sample ID:	18267
Station ID:	SM_DSSHP1	Rep. Num	0
Reference Status:		STORET Activity ID:	T07-T500-M
Site Classification:		Collect. Date:	07/11/2016
Four Code HUC:		Collect Method:	MAC-T-500
TMDL Plan. Area:		Total Indiv. in Sample:	2236

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i>	Ephemeroptera Taxa:	6	60.0
	Plecoptera Taxa:	1	9.8
	EPT Percent:	45.8	50.9
	Non-Insect Percent:	1.6	94.2
	Predator Percent:	7.3	18.8
	Burrower Taxa %:	27.2	78.6
	HBI:	3.41	68.2

54.4

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek	Benthic Sample ID: 18268
Station ID: SM_DSSHP2	Rep. Num 1
Reference Status:	STORET Activity ID: T08-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 1408

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i> <input style="border: 1px solid black; width: 80px; height: 20px; text-align: center;" type="text" value="53.2"/>	Ephemeroptera Taxa:	5	52.3
	Plecoptera Taxa:	1	12.2
	EPT Percent:	54.8	60.9
	Non-Insect Percent:	1.7	93.9
	Predator Percent:	6.8	17.5
	Burrower Taxa %:	29.2	75.8
	HBI:	3.90	60.0

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Montana Bioassessment Report

Waterbody Name: Smith River D/S Sheep Creek	Benthic Sample ID: 18269
Station ID: SM_DSSHP3	Rep. Num 2
Reference Status:	STORET Activity ID: T09-T500-M
Site Classification:	Collect. Date: 07/11/2016
Four Code HUC:	Collect Method: MAC-T-500
TMDL Plan. Area:	Total Indiv. in Sample: 960

Latitude:	GIS_LAT	Longitude:	GIS_LONG:
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	<i>Metric:</i>	<i>Value</i>	<i>Score</i>
<i>Mountain MMI:</i> <input style="border: 1px solid black; padding: 2px 10px;" type="text" value="53.0"/>	Ephemeroptera Taxa:	6	55.5
	Plecoptera Taxa:	1	11.1
	EPT Percent:	58.3	64.8
	Non-Insect Percent:	2.9	89.6
	Predator Percent:	6.7	17.1
	Burrower Taxa %:	31.1	73.1
	HBI:	3.93	59.6

Predictive Model Results

O/E_p>0.5:

Model Test:

Total Individuals

Appendix D. MDEQ Macroinvertebrate Data Taxa list 1999-2005

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11283
Station ID: BKK129 **Rep. Num** 0
Reference Status: **STORET Activity ID:** SN1CN60
Site Classification: Plains **Collection Date:** 06/15/1999
Latitude: 46.6758 **Collection Method:** KICK
Longitude: -111.1444 **Total Number of Individuals in Sample:** 313

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Basommatop	Physa_Physella	Physella	1	8	CG	CN
Coleoptera	Optioservus	Optioservus	56	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	3	5	SC/CG	"CN/50%, BU/50%"
Diptera	Atherix	Atherix	2	5	PR	SP/BU
Diptera	Ceratopogoninae	Ceratopogoninae	1	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Microtendipes	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	5	7	CG/CF/PR	BU/CN/SP
Diptera	Diamasinae	Pagastia	1	4	CG	sp
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	4		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia	6		PR	SP/BU
Ephemeropte	Baetis	Baetis tricaudatus	7	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella	75	2	CG	CN/SW
Ephemeropte	Nixe	Nixe simplicioides	1	4	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	6	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	6	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	71	4	CG	CN/SP
Haplotaxida	Oligochaeta	Lumbricidae	4	8	CG	BU
Non-Insect ta	Turbellaria	Turbellaria	1	4	CG/PR	SP
Plecoptera	Isoperla	Isoperla fulva	2	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	2	1	CF	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	14	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	34	5	CF	CN
Trichoptera	Oecetis	Oecetis	5	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11284
Station ID: BKK130 **Rep. Num** 0
Reference Status: **STORET Activity ID:** SN1CN61
Site Classification: Plains **Collection Date:** 06/16/1999
Latitude: 46.828 **Collection Method:** KICK
Longitude: -111.1924 **Total Number of Individuals in Sample:** 314

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Microcylloepus	Microcylloepus	1	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	16	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	7	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	13	3	CG	CN
Diptera	Chironominae	Polypedilum	3	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	1	4	CG	sp
Diptera	Hexatoma	Hexatoma	1	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	15		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella pseudomontana	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	14		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia discoloripes	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	2	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	6		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	7	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	1	0	CG	CN
Ephemeropte	Drunella	Drunella	23	1	SC/PR	"CN/75%, SP/25%"
Ephemeropte	Drunella grandis	Drunella grandis	1	2	PR	"CN/75%, SP/25%"
Ephemeropte	Ephemerella	Ephemerella	17	2	CG	CN/SW
Ephemeropte	Leptophlebiidae	Leptophlebiidae	1	2	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	1	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	2	4	CG	CN/SP
Plecoptera	Cultus	Cultus	2	2	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Isoperla	Isoperla fulva	1	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	2	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	4	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus americanus	10	1	CF	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	22	1	CF	CN
Trichoptera	Culoptila	Culoptila	9	2	SC	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	29	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	77	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	3	6	PH	CN

Montana Bioassessment Report

Waterbody Name: Smith River

Benthic Sample ID: 11284

Station ID: BKK130

Rep. Num 0

Reference Status:

STORET Activity ID: SN1CN61

Site Classification: Plains

Collection Date: 06/16/1999

Latitude: 46.828

Collection Method: KICK

Longitude: -111.1924

Total Number of Individuals in Sample: 314

Trichoptera	Lepidostoma	Lepidostoma	6	1	SH	CM/SP
Trichoptera	Oecetis	Oecetis	8	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11285
Station ID: BKK131 **Rep. Num** 0
Reference Status: **STORET Activity ID:** SN1CN62
Site Classification: Plains **Collection Date:** 06/17/1999
Latitude: 47.0106 **Collection Method:** KICK
Longitude: -111.2892 **Total Number of Individuals in Sample:** 314

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Microcylloepus	Microcylloepus	1	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	28	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	32	5	SC/CG	"CN/50%, BU/50%"
Diptera	Antocha	Antocha	2	3	CG	CN
Diptera	Ceratopogoninae	Ceratopogoninae	3	6	PR/CG	SP/BU/SW
Diptera	Chironominae	Cladotanytarsus	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Microtendipes	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Paratanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Diamesinae	Pagastia	1	4	CG	sp
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	4		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	10		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	1		CG/SC	SP/BU
Diptera	Tanypodinae	Thienemannimyia	3		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	13	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	9	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	5	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Drunella	Drunella	6	1	SC/PR	"CN/75%, SP/25%"
Ephemeropte	Epeorus	Epeorus	2	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella	54	2	CG	CN/SW
Ephemeropte	Rhithrogena	Rhithrogena	5	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	39	4	CG	CN/SP
Haplotaxida	Oligochaeta	Enchytraeidae	1	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	1	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	2	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	3	1	PR	CN
Plecoptera	Pteronarcys	Pteronarcys dorsata	1	2	SH	CN
Trichoptera	Amiocentrus	Amiocentrus aspilus	1	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	8	1	CF	CN
Trichoptera	Culoptila	Culoptila	2	2	SC	CN

Montana Bioassessment Report

Waterbody Name: Smith River

Benthic Sample ID: 11285

Station ID: BKK131

Rep. Num 0

Reference Status:

STORET Activity ID: SN1CN62

Site Classification: Plains

Collection Date: 06/17/1999

Latitude: 47.0106

Collection Method: KICK

Longitude: -111.2892

Total Number of Individuals in Sample: 314

Trichoptera	Helicopsyche	Helicopsyche borealis	11	3	SC	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	11	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	6	6	PH	CN
Trichoptera	Oecetis	Oecetis	34	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11286
Station ID: BKK132 **Rep. Num** 0
Reference Status: **STORET Activity ID:** SN1CN63
Site Classification: LowValley **Collection Date:** 06/18/1999
Latitude: 47.1551 **Collection Method:** KICK
Longitude: -111.3307 **Total Number of Individuals in Sample:** 332

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Microcyloepus	Microcyloepus	9	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	17	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	13	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Polypedilum	5	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	21	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	6		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella pseudomontana	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Rheocricotopus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	1		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	7	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	7		PR	SP/BU
Ephemeropte	Baetis	Baetis tricaudatus	40	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	4	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	4	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella	28	2	CG	CN/SW
Ephemeropte	Paraleptophlebia	Paraleptophlebia temporalis	2	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	9	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	24	4	CG	CN/SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	16	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	2	1	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	6	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	4	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	90	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	1	6	PH	CN
Trichoptera	Oecetis	Oecetis	7	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11287
Station ID: BKK133 **Rep. Num** 0
Reference Status: **STORET Activity ID:** SN1CN64
Site Classification: LowValley **Collection Date:** 06/18/1999
Latitude: 47.2154 **Collection Method:** KICK
Longitude: -111.3866 **Total Number of Individuals in Sample:** 319

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Basommatop	Physa_Physella	Physella	4	8	CG	CN
Coleoptera	Microcylloepus	Microcylloepus	3	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	4	5	SC	"CN/50%, BU/50%"
Coleoptera	Ordobrevia	Ordobrevia nubifera	14	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	3	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Paratanytarsus	9	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	10	7	CG/CF/PR	BU/CN/SP
Diptera	Hemerodromia	Hemerodromia	4	6	PR	SP
Diptera	Orthoclaadiinae	Cricotopus bicinctus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	9		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	13		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia discoloripes	3		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	4	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	21		PR	SP/BU
Ephemeropte	Acentrella	Acentrella turbida	7	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	50	5	CG	"SW/10%, CN/90%"
Ephemeropte	Caudatella	Caudatella heterocaudata	1	0	CG	CN
Ephemeropte	Dipheter	Dipheter hageni	8	5	CG	"SW/10%, CN/90%"
Ephemeropte	Ephemerella	Ephemerella	31	2	CG	CN/SW
Ephemeropte	Nixe	Nixe simplicioides	44	4	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia temporalis	3	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	1	0	CG	CN
Ephemeropte	Stenonema	Stenonema	1	4	SC	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	5	4	CG	CN/SP
Haplotaxida	Oligochaeta	Enchytraeidae	5	8	CG	BU
Lumbriculida	Oligochaeta	Lumbriculidae	2	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	3	3	PR	CN
Plecoptera	Isoperla	Isoperla fulva	5	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	26	1	CF	CN
Trichoptera	Culoptila	Culoptila	1	2	SC	CN
Trichoptera	Helicopsyche	Helicopsyche borealis	2	3	SC	CN
Trichoptera	Hydroptila	Hydroptila	1	6	PH	CN

Montana Bioassessment Report

Waterbody Name: Smith River

Benthic Sample ID: 11287

Station ID: BKK133

Rep. Num 0

Reference Status:

STORET Activity ID: SN1CN64

Site Classification: LowValley

Collection Date: 06/18/1999

Latitude: 47.2154

Collection Method: KICK

Longitude: -111.3866

Total Number of Individuals in Sample: 319

Trichoptera	Oecetis	Oecetis	2	8	PR	CN/SP
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Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 11411
Station ID: M10SMTHR01 **Rep. Num** 0
Reference Status: **STORET Activity ID:** 02-S124-M
Site Classification: Plains **Collection Date:** 08/08/2002
Latitude: 47.23615 **Collection Method:** HESS
Longitude: -111.3888 **Total Number of Individuals in Sample:** 297

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Optioservus	Optioservus	7	5	SC	"CN/50%, BU/50%"
Coleoptera	Ordobrevia	Ordobrevia	3	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	9	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Microtendipes	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Paratanytarsus	74	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	2	7	CG/CF/PR	BU/CN/SP
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	20		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus bicinctus	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	5		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella brehmi	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladius	5		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Parametricnemus	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	22	6	CF	CN
Ephemeropte	Acentrella	Acentrella	2	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	14	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	43	2	CG	CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	13	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes minutus	9	4	CG	CN/SP
Haplotaxida	Oligochaeta	Enchytraeidae	22	8	CG	BU
Lepidoptera	Lepidoptera	Petrophila	4	7	SH	CM
Plecoptera	Isogenoides	Isogenoides	2	3	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	11	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	1	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	15	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 15040
Station ID: M10SMTHR01 **Rep. Num** 0
Reference Status: **STORET Activity ID:** 03-S102-M
Site Classification: Plains **Collection Date:** 06/17/2003
Latitude: 47.23615 **Collection Method:** HESS
Longitude: -111.3888 **Total Number of Individuals in Sample:** 201

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Optioservus	Optioservus	1	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	3	5	SC/CG	"CN/50%, BU/50%"
Diptera	CALOPARYPHUS/	Caloparyphus	1	7	CG	SP
Diptera	CALOPARYPHUS/	Euparyphus	1	7	CG	SP
Diptera	Chironominae	Cryptochironomus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	1	7	CG/CF/PR	BU/CN/SP
Diptera	Empididae	Empididae	1	6	PR	SP
Diptera	Simuliidae	Simulium	11	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	3		PR	SP/BU
Ephemeropte	Acentrella	Acentrella	3	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	25	5	CG	"SW/10%, CN/90%"
Ephemeropte	Diphedor	Diphedor hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	31	2	CG	CN
Ephemeropte	Ephemerella	Ephemerella inermis	7	2	CG	CN/SW
Ephemeropte	Heptagenia	Heptagenia	2	4	SC	CN
Ephemeropte	Nixe	Nixe	34	4	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	10	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	6	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	7	4	CG	CN/SP
Plecoptera	Claassenia sabulos	Claassenia sabulosa	2	3	PR	CN
Plecoptera	Isoperla	Isoperla	7	2	PR	CN
Trichoptera	Amiocentrus	Amiocentrus	1	3	CG	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	35	1	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	6	5	CF	CN
Trichoptera	Oecetis	Oecetis	1	8	PR	CN/SP

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 15346
Station ID: M10SMTHR01 **Rep. Num** 0
Reference Status: **STORET Activity ID:** S2087-M
Site Classification: Plains **Collection Date:** 07/07/2005
Latitude: 47.23615 **Collection Method:** UNKNOWN
Longitude: -111.3888 **Total Number of Individuals in Sample:** 323

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Amphipoda	Hyalella	Hyalella	1	8	CG	SW/SP
Basommatop	Lymnaeidae	Stagnicola	1	8	CG	CN
Basommatop	Physidae	Physidae	1	8	CG	CN
Coleoptera	Microcyloepus	Microcyloepus	1	5	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	3	5	SC	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	1	5	SC/CG	"CN/50%, BU/50%"
Diptera	CALOPARYPHUS/	Euparyphus	2	7	CG	SP
Diptera	Ceratopogoninae	Ceratopogoninae	2	6	PR/CG	SP/BU/SW
Diptera	Chironomidae	Chironomidae	2	10	CG/PR	BU/SP
Diptera	Chironominae	Microtendipes	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	3	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	19	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Tanytarsus	8	7	CG/CF/PR	BU/CN/SP
Diptera	Cryptolabis	Cryptolabis	2		unk	BU
Diptera	Diamesinae	Pagastia	3	4	CG	sp
Diptera	Empididae	Empididae	2	6	PR	SP
Diptera	Hemerodromia	Hemerodromia	1	6	PR	SP
Diptera	Ormosia	Ormosia	1	6	CG	BU
Diptera	Orthoclaadiinae	Cricotopus (Cricotopus)	15		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella brehmi	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	8		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella gracei	2		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthoclaadiinae	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia bavarica	8		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	7	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	8		PR	SP/BU
Diptera	Tipulidae	Tipulidae	6	3	SH	BU
Ephemeropte	Acerpenna	Acerpenna	1		SC	"SW/10%, CN/90%"
Ephemeropte	Attenella	Attenella margarita	4	3	CG	CN
Ephemeropte	Baetis	Baetis tricaudatus	26	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	3	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	17	2	CG	CN
Ephemeropte	Ephemera	Ephemera	4	2	CG	BU
Ephemeropte	Ephemerella	Ephemerella inermis	3	2	CG	CN/SW

Montana Bioassessment Report

Waterbody Name: Smith River

Benthic Sample ID: 15346

Station ID: M10SMTHR01

Rep. Num 0

Reference Status:

STORET Activity ID: S2087-M

Site Classification: Plains

Collection Date: 07/07/2005

Latitude: 47.23615

Collection Method: UNKNOWN

Longitude: -111.3888

Total Number of Individuals in Sample: 323

Ephemeropte	Nixe	Nixe	29	4	SC	CN
Ephemeropte	Paraleptophlebia	Paraleptophlebia	3	1	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	1	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	50	4	CG	CN/SP
Haplotaxida	Oligochaeta	Enchytraeidae	1	8	CG	BU
Haplotaxida	Oligochaeta	Naididae	1	8	CG	BU
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Odonata	Gomphidae	Gomphidae	1	2	PR	BU
Odonata	Gomphidae	Ophiogomphus	1	2	PR	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	2	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	1	1	PR	CN
Plecoptera	Isoperla	Isoperla	2	2	PR	CN
Trichoptera	Brachycentrus	Brachycentrus occidentalis	43	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	1	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	4	5	CF	CN
Trichoptera	Hydropsychidae	Hydropsychidae	1	4	CF	CN
Trichoptera	Hydroptila	Hydroptila	2	6	PH	CN
Trichoptera	Hydroptilidae	Hydroptilidae	4	4	PH	CN
Trichoptera	Mayatrichia	Mayatrichia	1	1	SC	CN
Trichoptera	Oecetis	Oecetis	1	8	PR	CN/SP
Trichoptera	Wormaldia	Wormaldia	3	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 16032
Station ID: M10SMTHR01 **Rep. Num** 0
Reference Status: **STORET Activity ID:** S2036-M
Site Classification: Plains **Collection Date:** 07/14/2004
Latitude: 47.23615 **Collection Method:** HESS
Longitude: -111.3888 **Total Number of Individuals in Sample:** 302

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Elmidae	Elmidae	3	4	CG	"CN/50%, BU/50%"
Coleoptera	Optioservus	Optioservus	7	5	SC	"CN/50%, BU/50%"
Coleoptera	Ordobrevia	Ordobrevia nubifera	2	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	17	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Polypedilum	16	7	CG/CF/PR	BU/CN/SP
Diptera	Orthocladiinae	Cardiocladius	5		CG/SC	SP/BU
Diptera	Orthocladiinae	Cricotopus bicinctus	3		CG/SC	SP/BU
Diptera	Orthocladiinae	Cricotopus trifascia	49		CG/SC	SP/BU
Diptera	Orthocladiinae	Eukiefferiella devonica	41		CG/SC	SP/BU
Diptera	Orthocladiinae	Eukiefferiella gracei	2		CG/SC	SP/BU
Diptera	Orthocladiinae	Orthocladius	6		CG/SC	SP/BU
Diptera	Orthocladiinae	Tvetenia vitracies	18		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	38	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	2		PR	SP/BU
Ephemeropte	Baetidae	Baetidae	7	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	16	5	CG	"SW/10%, CN/90%"
Ephemeropte	Choroterpes	Choroterpes	2	2	CG	CN/SP
Ephemeropte	Dipheter	Dipheter hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	1	2	CG	CN
Ephemeropte	Leptophlebiidae	Leptophlebiidae	1	2	CG	SW/CN/SP
Ephemeropte	Rhithrogena	Rhithrogena	4	0	CG	CN
Ephemeropte	Tricorythodes	Tricorythodes	1	4	CG	CN/SP
Haplotaxida	Oligochaeta	Tubificidae	2	8	CG	BU
Lumbriculida	Oligochaeta	Lumbriculidae	1	8	CG	BU
Non-Insect ta	Nematoda	Nematoda	2	5	unk	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	1	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	2	1	PR	CN
Plecoptera	Perlidae	Perlidae	1	2	PR	CN
Plecoptera	Perlodidae	Perlodidae	1	2	PR	CN
Plecoptera	Pteronarcys	Pteronarcys	1	2	SH	CN
Plecoptera	Skwala	Skwala	1	3	PR	CN
Trichoptera	Agraylea	Agraylea	4	8	PH	CM
Trichoptera	Brachycentrus	Brachycentrus occidentalis	5	1	CF	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	4	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	11	5	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River

Benthic Sample ID: 16032

Station ID: M10SMTHR01

Rep. Num 0

Reference Status:

STORET Activity ID: S2036-M

Site Classification: Plains

Collection Date: 07/14/2004

Latitude: 47.23615

Collection Method: HESS

Longitude: -111.3888

Total Number of Individuals in Sample: 302

Trichoptera	Hydropsychidae	Hydropsychidae	3	4	CF	CN
Trichoptera	Hydroptila	Hydroptila	13	6	PH	CN
Trichoptera	Wormaldia	Wormaldia	8	0	CF	CN

Montana Bioassessment Report

Waterbody Name: Smith River **Benthic Sample ID:** 16033
Station ID: M10SMTHR01 **Rep. Num** 0
Reference Status: **STORET Activity ID:** S2037-M
Site Classification: Plains **Collection Date:** 07/14/2004
Latitude: 47.23615 **Collection Method:** KICK
Longitude: -111.3888 **Total Number of Individuals in Sample:** 151

Sample Taxa List

<i>Order:</i>	<i>OTU name:</i>	<i>FinalID:</i>	<i>Individuals</i>	<i>Tol Val:</i>	<i>FFG:</i>	<i>Habit:</i>
Coleoptera	Optioservus	Optioservus	5	5	SC	"CN/50%, BU/50%"
Coleoptera	Ordobrevia	Ordobrevia nubifera	3	5	SC/CG	"CN/50%, BU/50%"
Coleoptera	Zaitzevia	Zaitzevia	8	5	SC/CG	"CN/50%, BU/50%"
Diptera	Chironominae	Micropsectra	1	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Polypedilum	6	7	CG/CF/PR	BU/CN/SP
Diptera	Chironominae	Rheotanytarsus	3	7	CG/CF/PR	BU/CN/SP
Diptera	Cryptolabis	Cryptolabis	2		unk	BU
Diptera	Hexatoma	Hexatoma	2	2	PR	BU
Diptera	Orthoclaadiinae	Cardiocladius	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Cricotopus trifascia	13		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Eukiefferiella devonica	11		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Orthocladus	3		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Thienemanniella	1		CG/SC	SP/BU
Diptera	Orthoclaadiinae	Tvetenia vitracies	2		CG/SC	SP/BU
Diptera	Simuliidae	Simulium	11	6	CF	CN
Diptera	Tanypodinae	Thienemannimyia	1		PR	SP/BU
Diptera	Tipulidae	Tipulidae	13	3	SH	BU
Ephemeropte	Acentrella	Acentrella	1	4	CG	"SW/10%, CN/90%"
Ephemeropte	Baetis	Baetis tricaudatus	13	5	CG	"SW/10%, CN/90%"
Ephemeropte	Dipheter	Dipheter hageni	1	5	CG	"SW/10%, CN/90%"
Ephemeropte	Epeorus	Epeorus albertae	3	2	CG	CN
Ephemeropte	Heptagenia	Heptagenia	2	4	SC	CN
Ephemeropte	Nixe	Nixe	13	4	SC	CN
Ephemeropte	Rhithrogena	Rhithrogena	2	0	CG	CN
Haplotaxida	Oligochaeta	Lumbricidae	2	8	CG	BU
Plecoptera	Claassenia sabulos	Claassenia sabulosa	8	3	PR	CN
Plecoptera	Hesperoperla	Hesperoperla pacifica	3	1	PR	CN
Plecoptera	Skwala	Skwala	3	3	PR	CN
Trichoptera	Cheumatopsyche	Cheumatopsyche	2	5	CF	CN
Trichoptera	Hydropsyche_Cera	Hydropsyche	6	5	CF	CN
Trichoptera	Hydroptila	Hydroptila	2	6	PH	CN
Trichoptera	Wormaldia	Wormaldia	4	0	CF	CN