Comparative Sediment Rating Curves for Two Gage Stations In the Upper Salt River Basin of Arizona

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Data collection was only possible due to the efforts of ADEQ staff in more than 20 field visits to install equipment and conduct monitoring at the gage stations and conduct geomorphology surveys across the West Fork Black River and Beaver Creek watersheds. Many thanks go to Susan Fitch, Cheri Horsley, Hans Huth, Lee Johnson, Sara Konrad, Lin Lawson, Doug McCarty, Chris Notgrass, Matt Oller, Greg Olsen, Patricia Olsen, Kyle Palmer, Steve Pawlowski, Sam Rector, Bob Scalamera, Jason Sutter, Linda Taunt, and Roland Williams.

Special thanks go to Greg Olsen of ADEQ for designing autosampling stations, tailored to the US Forest Service gage stations. This study would never have left the ground without Greg's efforts to install the monitoring equipment, design a datalogging program that worked with the several monitoring instruments and maintain the stations over the 3-year study period. His assistance in analyzing the data has also been invaluable.

Executive Summary

Excess sediment is a major stressor in aquatic ecosystems of the United States; causing impairment of 31% of perennial stream miles, according to the USEPA (2002). Protecting aquatic life from the detrimental effects of excess "clean" sediment in streams is an important issue for states that manage water quality. This study sought to determine if sediment rating curves could be used to compare "reference" and study sites to set sediment targets for sediment reduction in sediment impaired streams.

Rosgen-style sediment rating curves, using manual and autosampler collected data provide a good comparative tool for examining sediment transport differences. This can be valuable data in setting general targets for stream restoration, where more detailed data is lacking. In this study the stream types were very similar, so the sediment rating curves were not dramatically different. However the slope of the regression lines were different and indicated that sediment transport is greater in Beaver Creek.

This result was somewhat contradicted when we examined "turbidity-estimated" Suspended Sediment Concentration (SSC) loads. The annual sediment load for Beaver Creek was less than half the load for West Fork Black River. However, the flows for Beaver Creek were only 40% of flows in West Fork during the study period, so less sediment transport was occurring due to low flow. Bank erosion data will be examined in a final report on the Upper Salt River Sediment Project to compare sediment contributions from bank material in both channels. It is unclear at this point whether we can set sediment targets for Beaver Creek based upon West Fork Black River sediment transport rates. This question will be investigated in the final report.

Another finding of this study was that sediment loads can be more accurately and comprehensively estimated through automatic sampling of turbidity and flow data at gaging stations. The turbidity-estimated sediment load was 2-1000 times greater than the flow-estimated sediment load. This preliminary finding suggests that wherever feasible, sediment transport studies that require intensive data for standards development and Total Maximum Daily Load (TMDL) purposes should consider installing remote autosampling equipment at gaging stations.

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Introduction

The focus of this project was to test Rosgen methods for comparing sediment rating curves to set targets for sediment reduction. This approach involved developing sediment rating curves for a "reference" reach on the West Fork Black River and an impaired reach of Beaver Creek, both C-type channels, in the Upper Salt River basin. Rosgen's methods for developing sediment rating curves (flow versus Suspended Sediment Concentration (SSC) regressions) and comparing stream reaches with differing sediment transport rates was adapted for this study. We modified Rosgen's method by using recording turbidity and flow sensors, and autosampling equipment at two existing Forest Service stream gage stations to make detailed data collections for potentially more accurate sediment loading estimates. This project was undertaken with grant assistance from the USEPA Wetlands Grant Section 104(b)(3) Program and this report fulfills the deliverable for the ADEQ Wetlands 8 Grant, Task #3. The broader objective of this Grant was to develop physical integrity assessment methodologies for stream ecosystem integrity.

The stated objective of the Wetlands 8 Grant was as follows: To develop sediment rating curves at the West Fork Black River Forest Service stream gage station (reference reach) and at the Beaver Creek Forest Service stream gage station (impacted reach) which might be used to develop sediment criteria for these drainages. The stated deliverable was as follows: A report containing sediment rating curves for the West Fork Black River and Beaver Creek gage station sites. This report constitutes that deliverable.

On the basis of a 303d listing of Beaver Creek for turbidity, and a cursory survey of stream bank conditions, we hypothesized that there would be less sediment loading at the West Fork Black River gage than the Beaver Creek gage and therefore we could set sediment targets based on the reference data. The "reference" sediment data, along with fisheries information, could also be used for developing local water quality standards for SSC.

Background/Study area

The West Fork Black River and Beaver Creek watersheds are located in the Upper Salt River Basin of eastern Arizona's White Mountains (Figure 1). The West Fork Black River and Beaver Creek watersheds are suitable for comparative studies because they are similar in drainage area, stream type, and valley type (Table 1). The watersheds also share similar soil types, vegetative communities and land use. In addition, Forest Service stream gage stations are located near the mouth of each watershed, providing historic flow data and an ideal location to install monitoring equipment. The West Fork Black River (WFB) channel appears to be in relatively good condition, with low to moderate amounts of bank erosion occurring throughout the stream network. As such, WFB was deemed appropriate to use as a "reference" or background site for comparison to Beaver Creek. Beaver Creek (BVR) was determined to be in poor condition due to a majority of its stream length and stream network having moderate to severe bank erosion problems. In addition, Beaver Creek is lacking riparian vegetation and its water quality was listed as impaired due to turbidity.

Table 1. Location information for West Fork Black River and Beaver Creek Gage stations in the Salt River Basin of Arizona.

Parameter	West Fork Black River at Gage	Beaver Creek at Gage
Drainage area (mi^2)	48	58
Elevation (ft)	7560	7490
Rosgen Stream type	C4	C4
Valley type	VII	VII
Latitude/longitude (DMS)	33.45.37, 109.22.33	33.44.17, 109.20.25
County	Apache	Greenlee
Hydrologic Unit Code	15060101-048	15060101-008

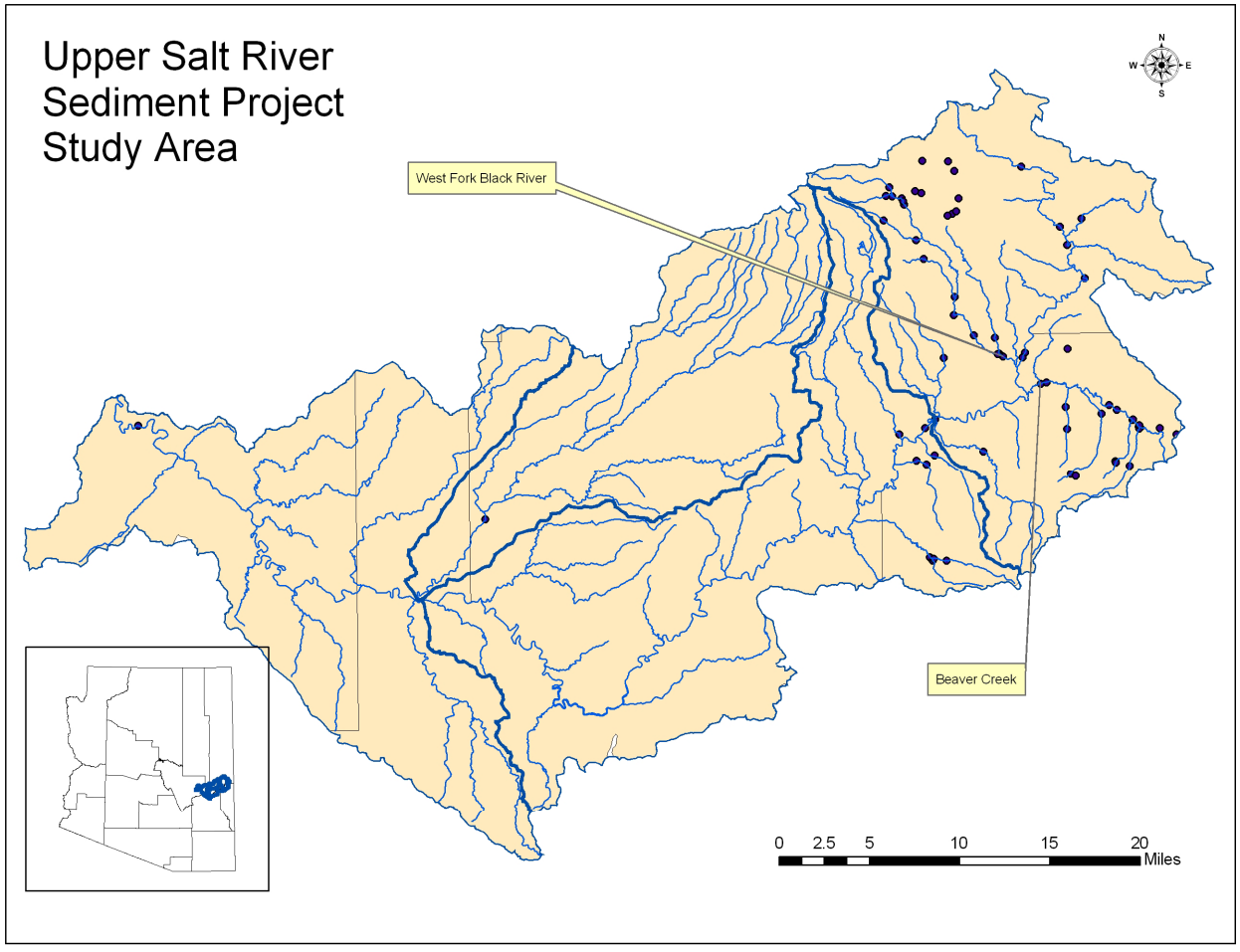

Figure 1. Upper Salt River Basin Sediment Project Study Area, 2002-2004.

In order to construct sediment rating curves, we needed to collect intensive suspended sediment concentration (SSC), turbidity, bedload, and discharge data at WFB and BVR Forest Service gage stations to obtain at least a one-year flow record. Geomorphology surveys were conducted on several reaches of both Beaver Creek and West Fork Black River to obtain estimates of sediment loading from stream bank erosion. With these data, we can determine how much of the sediment loading at the gage stations was contributed by bank erosion, which at this time, is thought to be the primary source. While only the sediment rating curves are required for this Wetlands 8 Grant deliverable, a complete report incorporating the geomorphology survey data will be produced by the end of the year.

Methods

Data were collected at the two US Forest Service gaging stations from December 2001 to October 2004 to characterize the hydrology during different runoff events. Sediment rating curves were then developed by conducting regressions of SSC and bedload to discharge, for both stream reaches. More specifically the following approach was taken:

Auto-sampling, monitoring, and data-logging equipment was installed at the two Forest Service Gage stations to collect intensive temperature, turbidity, suspended sediment concentration (SSC), bedload, discharge and weather data over the course of a year for purposes of developing paired reference and impacted sediment rating curves. The general approach for monitoring activities was as follows:

a. Automatically monitor stream stage, turbidity, water temperature, and precipitation at both stream gages at 15-minute intervals. Additionally, monitor air temperature, relative humidity, solar radiation, wind speed and soil temperature at the West Fork Black River gage at 15-minute intervals.
b. Automatically collect suspended sediment concentration (SSC) samples at variable intervals based on stream stage, turbidity, air and water temperatures to characterize different flows.
~~c.~~ Manually collect water samples, bedload samples and field parameters during high flow events and regular maintenance visits
d. Schedule maintenance trips to calibrate turbidity sensors, exchange SSC bottle sets, download water quality and weather data, and submit SSC samples to the State Laboratory.

Threshold Turbidity Sampling (TTS) Station Description

The West Fork Black River and Beaver Creek gage stations were equipped with Threshold Turbidity Sampling (TTS) Stations (Figures 2-6). The TTS stations are ADEQ modified versions of the designs and programs developed by the USFS Redwoods Sciences Laboratory in Arcata, CA. Basically, the TTS station utilizes a Campbell CR10X data logger to acquire and record stream stage and turbidity values every 15 minutes. The program then determines if the turbidity has risen (or fallen) across certain thresholds. If the threshold is crossed for two 15-minute intervals, the logger triggers an automatic sampler to collect a 1 L sample for laboratory analysis of SSC.

Figure 2. West Fork Black River - USFS Stream Gage with ADEQ Threshold Turbidity Sampling Station (Automatic monitoring and sampling equipment)

Figure 3. Beaver Creek -USFS Stream gage with Threshold Turbidity Sampling Station

Figure 4. West Fork Black River – ADEQ Threshold Turbidity Sampling Station. The Automatic Sampler, Solar Panel, Weather Instruments and Data Logger are in/on Green Equipment Box. The Turbidity Probe and Sample Intake Boom is Suspended from Cableway at Mid-stream of Gage Weir. The WFB Station Records; Stream Stage, Turbidity, Water Temp., Air Temp., Relative Humidity, Precipitation, Wind Speed, Solar Radiation, and Soil Temp.

Figure 5. West Fork Black River – ADEQ TTS Station - American Sigma Automatic Sampler with 24 1L Bottles and Campbell Scientific CR10X Data Logger

Figure 6. West Fork Black River – Close up of ADEQ Turbidity Probe Mounting and Sample Intake

While the basic function of the TTS program sounds straightforward, the programming required to handle numerous special conditions results in a complex program, some 60 pages in length. Issues such as – if the air temperature is cold enough to freeze the water sample line, don't trigger the sampler (to avoid damaging the pump), or, - if the stage is so low that turbidity probe is out of the water or water temperature so low that the probe is likely in solid ice, suspend the wiper mechanism on the turbidity probe (to avoid scratching the sensor or damaging the wiper motor.

The stations were built and programmed in the fall of 2001. They were deployed to the gage stations in December 2001. The stations initially used the Hydrolab Quanta water quality probe (Figure 7), which was later replaced with a new technology DTS-12 turbidity sensor (Figure 8). We encountered several problems including a temperature drift issue (later corrected by Hydrolab) and chronic fouling of the sensor optics, which rendered biased data within 5 days after each cleaning and maintenance visit.

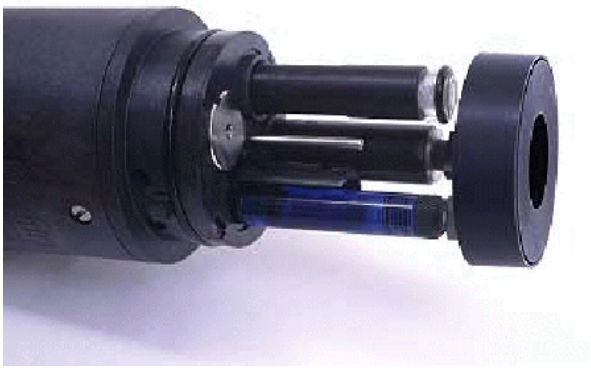

Figure 7. Hydrolab Quanta Water Quality Probe, Deployed from Dec. 2001 to June 2003

In June of 2003 we changed out the turbidity probe along with a substantial revision in the system programming. The new turbidity probe was a DTS-12 manufactured by Forest Technology Systems (Figure 8). The probe features an automatic wiper which is actuated immediately prior to each 15-minute reading. After wiping, the probe it takes 100 turbidity readings in six seconds, and returns a packet of statistics to the data logger. The DTS-12 proved to be an extremely reliable instrument throughout the remainder of the study, consistently agreeing with manual Hach turbidity meter readings taken during station maintenance.

Figure 8. Forest Technology Systems - DTS-12 Turbidity Probe, Deployed from June 2003 to Oct. 2004. The Probe Features an Automatic Wiper, Actuated Immediately Prior to Each 15-Minute Reading

Automated Data Collection by TTS Stations:

As shown in Table 2 below, the TTS stations successfully recorded much of the 35,136 available 15-minute observation periods during a 366 day year (2004 was a leap year). The major errors that occurred were due to a variety of software and hardware glitches:

- The WFB station had a period of diurnal power failures. The station would operate during daylight hours, off the solar panel, but the storage battery failed to hold adequate charge thru the nighttime periods.

- The automatic sampler at the Beaver Creek TTS station had a chronic malfunction of the liquid sensor, where the sample bottles would either overfill or not draw a sample at all, even though the data logger record indicates it attempted to trigger the sampler.

- The largest gap in the stage data was the result of a programming error where the loggers at both stations only recorded the "stage offset" variable, thus failing to record the actual stream stage from July 7, 2004 to October 8, 2004. On the basis of the precipitation record discussed below, this data gap occurred during a period of significantly below normal precipitation, thus no large runoff events are believed to have been missed.

Table 2. Percentage of 35,136 Potential Automated Data Observations Successfully Recorded During Study Year 2003 – 2004.

TTS Station	% of Stage/Discharge Data Collected	% of Turbidity Data Collected
West Fork Black Gage	62%	88%
Beaver Creek Gage	60%	91%

Data gaps within the 2003-2004 study period were addressed as follows. Missing or erroneous stream stage values were replaced with data derived from historic daily flows observed by the USFS from 1971 – 1993. In most instances, the 1st quartile of average daily flow was used, as this very closely matched actual field measured stream discharges. This seems quite reasonable as Arizona had been experiencing significant drought conditions for at least three years prior to the study period. The exception to this was a small set of missing data during the spring 2004 peak snowmelt runoff period, where the historic average daily discharge was observed to be very close to actual field measured stream discharges. During this timeframe, the historic average daily flow was used.

Missing or erroneous turbidity observations were replaced with data derived from blocks of observed data collected on days prior to or following the data omissions. The turbidity data was further censored by negating all data recorded whenever water temperatures were lower than -3 degrees C. At these low water temperatures, the water and or probe were presumed to be frozen over and the data deemed extraneous.

RESULTS

A brief description of the flows that occurred during the study period is relevant to the sediment loading we observed. Sediment rating curves for each gage station are presented, then a comparison of the regression between the two gage stations was conducted, following Rosgen's method for comparing sediment loading between a reference and study site (Rosgen, 1996). Then a comparison of loads between the two stations was conducted by estimating SSC based on 15-minute interval turbidity data to obtain a more comprehensive estimate of sediment loading.

Snow, Precipitation and Streamflow

Flows were extremely low, approx at the 25%ile of normal during drought period of the study in 2002-3 (Figure 9). In 2004, winter snow pack and spring runoff approached the normal "30 year average" flow conditions. Precipitation thru the 2003-4 study period tracked the 30 year average very well until June 2004, where precipitation fell to below normal for the remainder of the year.

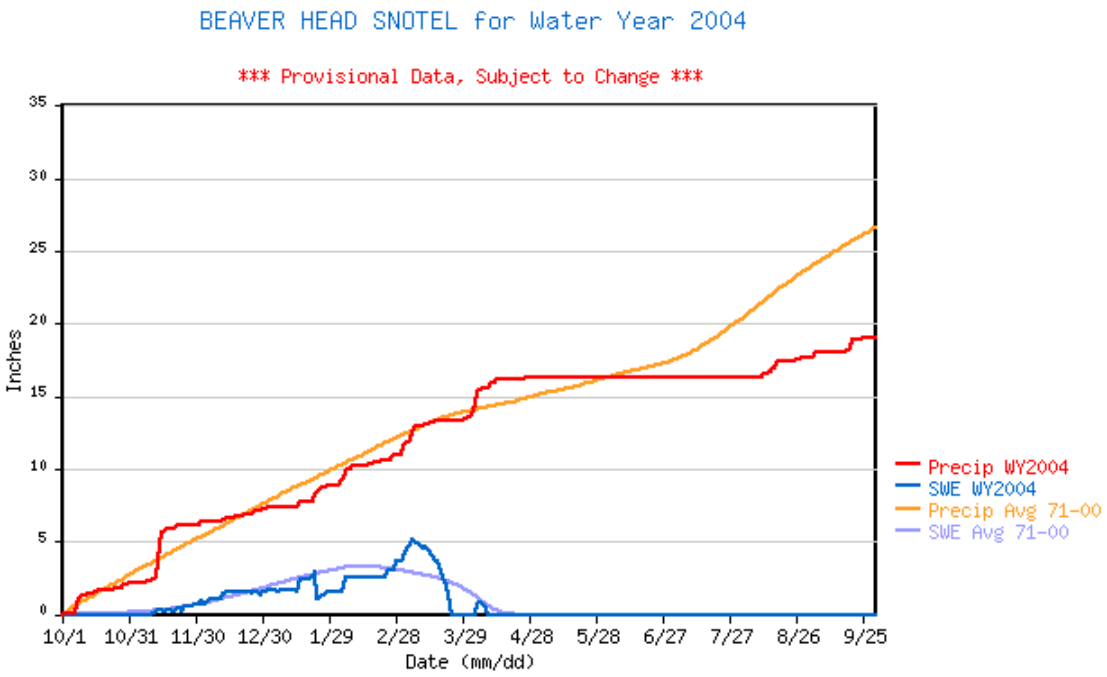

Figure9. Precipitation and Snow Water Equivalent Data from NRCS Beaver Head SNOTEL Station for Water Year 2004

Source:http://www.wcc.nrcs.usda.gov/cgibin/wygraph-multi.pl?wateryear=2004&state=AZ&stationidname=09s06s-BEAVER+HEAD

Sediment Rating Curves for Each Gage Station, Using Measured Data, (Rosgen Method)

The sediment rating curve for the West Fork Black River gage station presents suspended sediment concentration (SSC) data collected over a range of flows (Figure 10). We collected 197 measurements of SSC with corresponding instantaneous flow data over several seasons from 2002 to 2004; approximately 20 were manually collected samples and the remainder were collected using the remote level logger and autosampling equipment. SSC and flow were poorly correlated (R^2=0.28). Sediment concentrations ranged from low (<10mg/L) to high (60mg/L) even at low flow (<10cfs). This is likely due to early melting of ice with associated increase in turbidity due to mixing and the freeze/thaw cleaving off of stream bank material in spring 2002. The 2002 study period was over-represented in the early data, as a result of low thresholds for sampling and fouling problems with the Quanta turbidity probe.

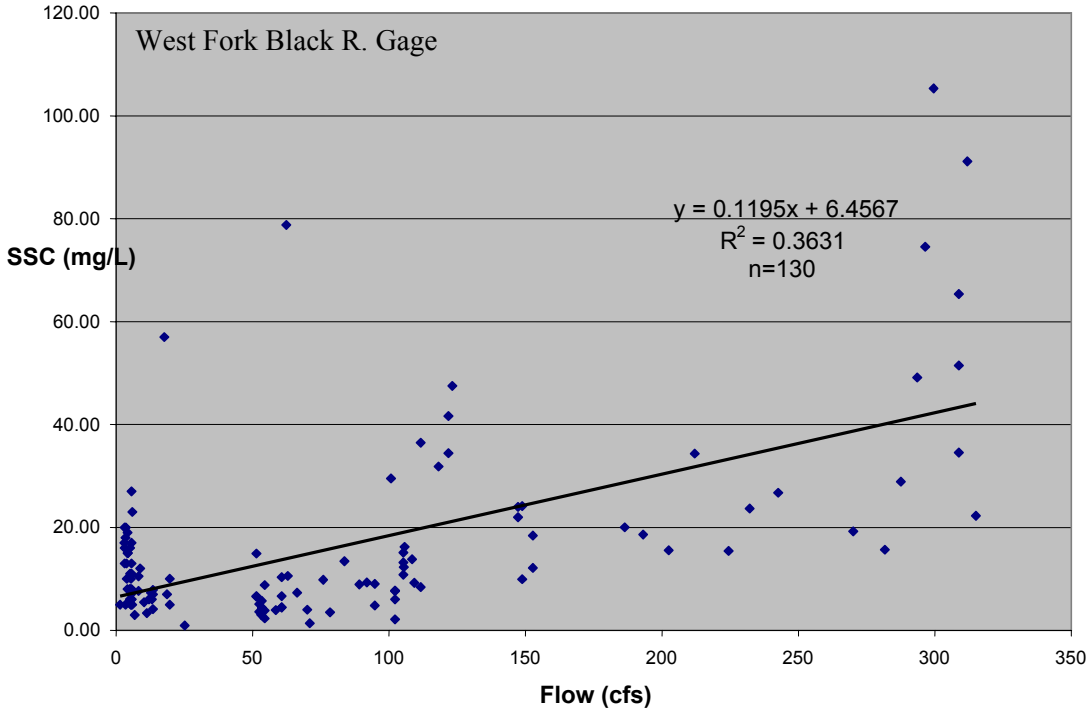

Figure 10. West Fork Black River Gage SSC-Flow regression, manual and autosampler field collected values from March 2003-October 2004 (n=130).

The sediment rating curve for the Beaver Creek gage station (Figure 11) presents suspended sediment concentration data collected over a range of flows during 2003-2004. We collected 93 measurements of SSC with corresponding instantaneous flow data over several seasons from 2002 to 2004; approximately 15 were manually collected samples and the remainder were collected using the remote level logger and autosampling equipment. SSC and flow were poorly correlated for Beaver Creek as well (R^2=0.27). There was high variability in SSC values ranging from 0-22 mg/L at <1 cfs in flow. We removed the 2002 data to avoid over-representing that period of time, however it did not make a difference in the regression (R^2=0.27; Figure 2). The reasons for the low correlation are similar as for the WFB regression; early melting of ice with associated increase in turbidity due to mixing and the freeze/thaw cleaving off of stream bank material during spring thaws causes irregular spikes of sediment in stream.

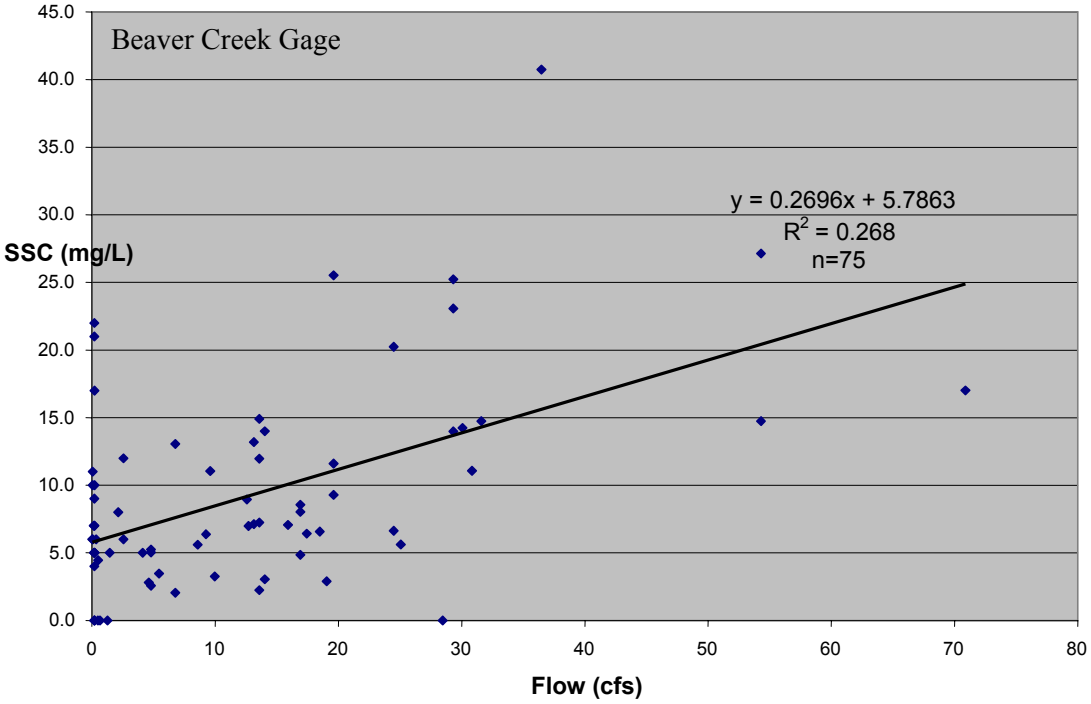

Figure 11. Beaver Creek Gage SSC-Flow regression, manual and autosampler field collected values from February 2003-October 2004 (n=75).

When plotted together, the differences between the sediment rating curves for the two gage stations became evident (Figure 12). The slope of the BVR regression line was more than twice the slope for the WFB gage station, indicative of much greater sediment transport at low flows. As indicated by Rosgen (1996), a shift in the slope or intercept of the sediment rating curve regression line indicates that sediment loads are increased in the stream or its watershed. If stream changes are significant enough, they can potentially lead to a change in stream type. Based on our data collection efforts so far, it appears that both Beaver and West Fork Black River are Rosgen stream type C4, meandering, low gradient, gravel dominant streams. Beaver Creek has not adjusted to the point of changing stream type, however the more severe bank erosion within the Beaver Creek channel and its tributaries supports the conclusion that sediment loads are greater than those of West Fork Black River.

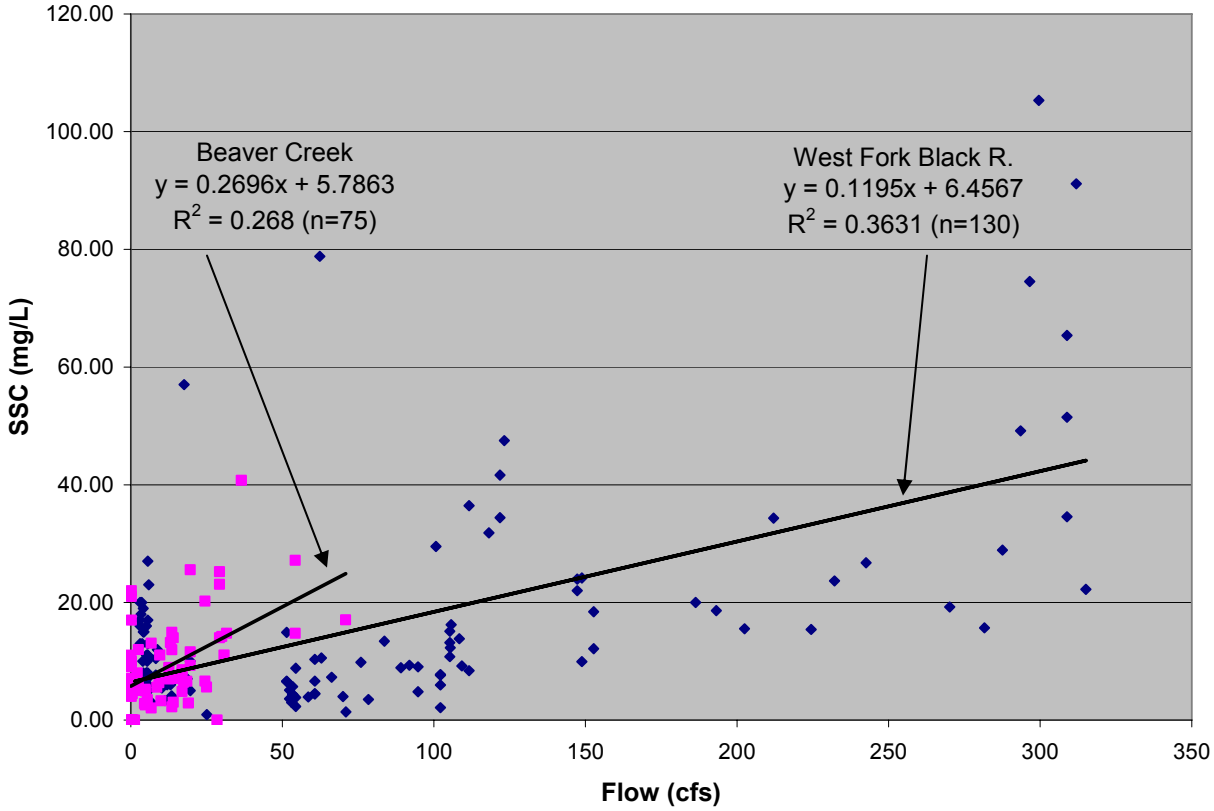

Figure 12. Comparative sediment rating curves for West Fork Black R. and Beaver Creek, measured values 2003-04.

Sediment Load Comparison of Measured and Estimated SSC Loads

The sediment rating curves shown in Figure 12 provide a good initial comparison of sediment loads between two stations and they are a valuable method to use where no gage stations and remote sampling equipment is available. However, we had the advantage of remote sampling and data logging equipment installed at two gage stations placed in similarly-sized watersheds. We collected flow, turbidity, and other measurements in 15-minute intervals during the study period of 2002-2004, and used thresholds of turbidity to trigger autosampling equipment to collect water samples. A more comprehensive dataset was obtained by monitoring at 15-minute intervals, than by manual collection; with only 20 manual samples collected at WFB gage compared to over 26,000 turbidity and flow records and approximately 250 SSC samples remotely collected in 2004 alone. We hypothesized that a better SSC load regression and more accurate annual SSC loads could be calculated with the remotely collected data, than with "actual measured data" if a good correlation existed between turbidity and SSC. With those data, a better comparison of sediment loading comparison could be made between "impaired" Beaver Creek and "reference" West Fork Black River reaches.

A regression analysis of turbidity and suspended sediment concentration was conducted for each gage station to determine if these two sediment variables were well correlated (Figure 13). Turbidity and SSC were highly correlated at both gage stations, with R^2 values of 0.88 and 0.83 for West Fork and Beaver Creek, respectively. We used only manually collected data from the 3-year study period to avoid problems with over-representing low flow data collected by the autosampling equipment. The regressions indicated significant correlations between turbidity and SSC, which we would expect. The silt/clay soils of the stream banks in meadow areas contribute to sediment in the water column and there is little organic material (algae, macrophytes) that would interfere with turbidity readings. We expect the R^2 values to be similar because the WFB and Beaver watersheds are very similar in geology, soil types and stream types and contain similar meadow reaches.

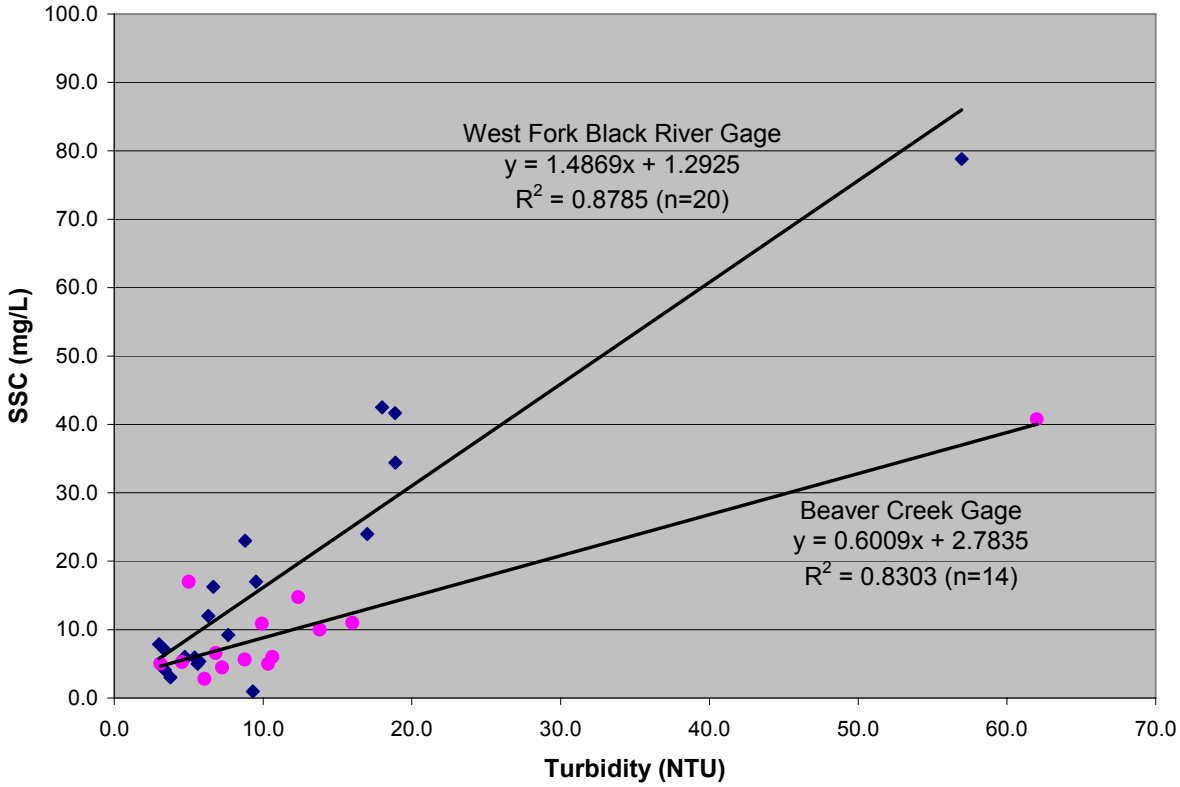

Figure 13. SSC and Turbidity correlation between W. Fork Black River and Beaver Creek Gages, 2002-04 manually collected data

Since a good correlation exists between turbidity and SSC, we hypothesized that a better SSC load regression and more accurate annual SSC loads could be calculated with the remotely collected data, than with "actual measured data." The turbidity-SSC regression formulas from Figure 13 were applied to the 15-minute interval turbidity data collected by the in-situ DTS-12 turbidity probe to calculate "estimated" SSC values. A plot of predicted versus measured SSC was created to check the accuracy of the estimated SSC values (Figure14). There was excellent agreement between measured and predicted values for the West Fork Gage (R^2=0.98)and relatively good agreement for the Beaver Creek gage (R^2=0.82). So the turbidity-predicted SSC values are sufficiently accurate for conducting loading estimates.

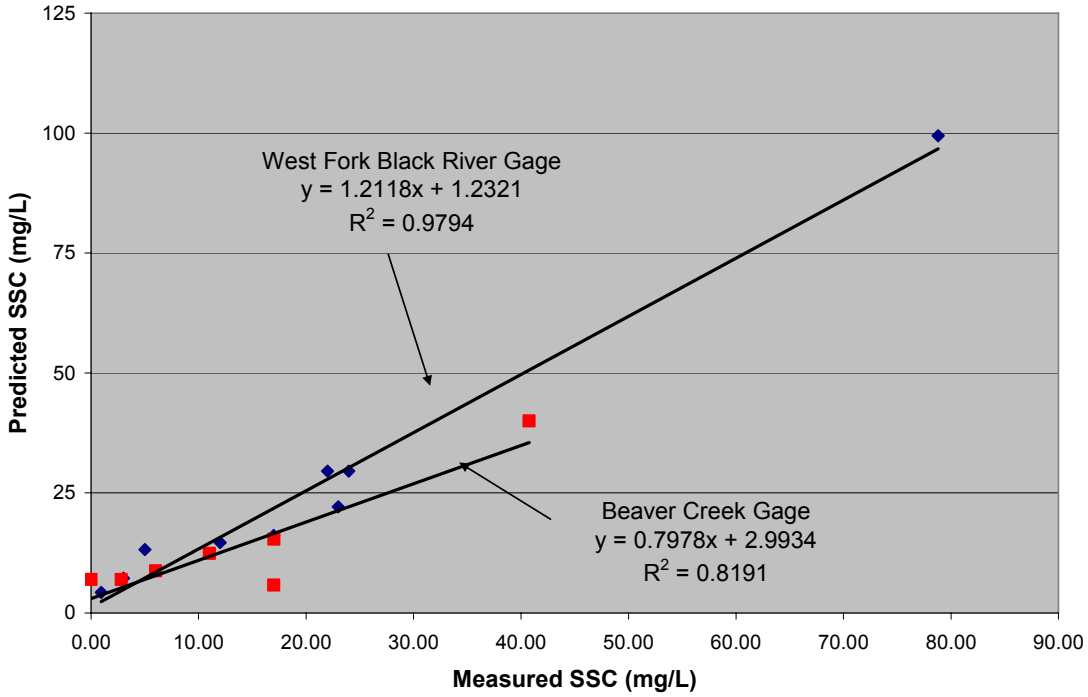

Figure 14. Regression of predicted and manually measured SSC values at West Fork Black River and Beaver Creek gage stations, 2003-04.

The sediment loading at each gage station can then be compared using the two different methods of estimation. The Flow-SSC regression equations from Figure 12 was applied to the 15-minute interval flow data from the gage stations to determine "SSC load estimated by flow regression" in Table 3. The Turbidity-SSC regression equations were applied to the 15-minute interval flow data from the gage stations to determine "SSC load estimated by turbidity regression" in Table 3. The flow-estimated sediment load underestimated the total annual sediment load significantly for both gage stations. The flow-estimated load at WFB was less than half the turbidity-estimated load (43%). The flow-estimated load at BVR was 3 orders of magnitude less than the turbidity-estimated load (0.08%).

The reason for this disparity is twofold: 1) sediment loading is not necessarily best correlated with elevated flows, and 2) in meadow streams with silt/clay soils turbidity correlated very well with SSC. First, sediment loading from stream banks occurs not only with elevated flows but also with freeze/thaw and saturation/desiccation cycles leading to cleaving of bank material and by wind and ungulate trampling of banks. These other modes of bank erosion cause spikes in sediment loading during other times than when flow is high, leading to irregular scatter plots and poor regression values. Second, the turbidity-SSC correlation was excellent in these high-elevation meadow streams with silt/clay soils, which produced better regressions and greater estimates of sediment loading. These montane streams do not experience the heavy algal growth that occurs in desert streams, which leads to greater turbidity values from cellular material in the

water column. As a result, there is a strong correlation between the eroding soils and the suspended sediment in the water column. Therefore, it is reasonable to assume that the turbidity-estimated SSC loads are more accurate than the flow-estimated SSC loads.

Table 3. Annual Sediment Loading Comparison using two methods of estimation for Beaver Creek and West Fork Black River of Arizona, Oct 2003-Oct 2004

Stream Gage	SSC Load, estimated by flow regression (tons/yr)	SSC Load, estimated by turbidity regression (tons/yr)	Percentage similarity
West Fork Black River	304	709	43%
Beaver Creek	0.25	290	0.08%

A comparison of loading between the two gage stations can also be made with these SSC loading estimates. The SSC load at Beaver Creek was only 41% of the load at West Fork Black River. This seems contrary to our hypothesis that Beaver would have more sediment loading by comparison to the "reference" West Fork Black River watershed. However, there are several reasons why the sediment loads at the Beaver Creek gage station were so low and why they were so much higher at West Fork. First, Beaver Creek is an intermittently-flowing channel and experienced drought conditions during the majority of the study period, except spring of 2004. The Beaver Creek watershed does not produce as much flow as West Fork, and therefore does not transport as much sediment in the water column. Banks are more deeply cut and occur more frequently in Beaver Creek and its tributaries, but the lesser flows in Beaver Creek do not transport the bank material as readily. This is evidenced by bank slumps, side bars and other features of excess sediment in Beaver Creek.

West Fork on the other hand has relatively more of its watershed occurring at higher elevation, including flows off the east side of Mt. Baldy at 11,000' elevation. The greater snow pack probably produces the greater flows experienced at the West Fork gage. The greater flows in West Fork both erode banks and transport the sediment more readily than Beaver Creek. Bank erosion is also occurring in West Fork and some of its higher elevation tributaries, but not to the extent and severity as in Beaver Creek. How much sediment loading is occurring from bank erosion in Beaver Creek and West Fork? What is the contribution of sediment loading from bank erosion in each drainage? We hope to answer these questions in the final report on the "Sediment Project". In the final report, stability assessments and bank erosion estimates for the main stem West Fork Black River and Beaver Creek and some of the eroding tributaries will be presented. It is hypothesized that more bank erosion is occurring in the Beaver Creek watershed but that the sediment is stored within the channel as excess bar formations and is only transported during extreme flood events.

Discussion

Excess sediment is a major stressor in aquatic ecosystems of the United States; causing impairment of 31% of perennial stream miles, according to the USEPA (2002). Protecting aquatic life from the detrimental effects of excess "clean" sediment in streams is an important issue for states that manage water quality. This study sought to determine if sediment rating curves could be used to compare "reference" and study sites to set sediment targets for sediment reduction in sediment impaired streams. We found that the Rosgen-style sediment rating curves, using manual and autosampler collected data do provide a good comparative tool for examining sediment transport differences. This can be valuable data in setting general targets for stream restoration, where more detailed data is lacking. In this study the stream types were very similar, so the sediment rating curves were not dramatically different. However the slope of the regression lines were different and indicated that sediment transport is greater in Beaver Creek.

This result was somewhat contradicted when we examined "turbidity-estimated" SSC loads. The annual sediment load for Beaver Creek was less than half the load for West Fork Black River. However, the flows for Beaver Creek were only 40% of flows in West Fork during the study period, so less sediment transport was occurring due to low flow. Bank erosion data will be examined in a final report on the Upper Salt River Sediment Project to compare sediment contributions from bank material in both channels. It is unclear at this point whether we can set sediment targets for Beaver Creek based upon West Fork Black River sediment transport rates. This question will be investigated in the final report.

Another finding of this study was that sediment loads can be more accurately and comprehensively estimated through automatic sampling of turbidity and flow data at gaging stations. The turbidity-estimated sediment load was 2-1000 times greater than the flow-estimated sediment load. This preliminary finding suggests that wherever feasible, sediment transport studies that require intensive data for standards development and TMDL purposes should consider installing remote autosampling equipment at gaging stations.

While not a specific objective of this study, another topic of interest was the development of sediment criteria or standards for waterbodies in the Upper Salt River Basin. It has yet to be determined whether West Fork Black River is an adequate "reference" condition stream to use for setting sediment targets in the region. The overall stream condition will be evaluated in the final sediment report, using geomorphic stability surveys two key locations on WFB and using bank erosion information. If WFB is determined to be a sufficient reference site for the region, and if fish community data indicate that a viable native trout population is being sustained in WFB, then sediment criteria can be developed.

The following analyses of data collected during this Upper Salt River Basin Sediment Project will be conducted and presented in a final report.

1. Conduct Rosgen Stability assessments using geomorphology survey data from 9 sites
2. Calculate bank erosion estimates for eroding meadow stream banks throughout the stream networks of the WFB and BVR watersheds
3. Compare sediment loading estimates; bank erosion vs. gage loads
4. Compare BEHI estimated bank erosion to actual measured erosion
5. Evaluate bedload movement and bar samples left on weir aprons as indicator of stream competence to move sediment
6. Develop local curves for identifying bankfull
7. Evaluate the methods used in this study for future TMDL and standards research

References: Protocols for this work are referenced in the Wetlands 8 QAPP and are listed below:

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Appendix A:

Manual and autosampler collected Suspended Sediment Concentration (SSC) and Turbidity data from Beaver Creek and West Fork Black River Gage Stations, 2001-2004

Beaver Creek Gage Station, Manual and autosampler data collection, March 2002- October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	SSC Coarse Unit	SSCcoarse_0.5DL	SSC-Total-no DLs	Turbidity, field (ntu)
Beaver Cr @ gage	BVR1	4/15/2003	17:30	ACT	BK04914	5.08	mg/l	0.54	mg/l		5.6	8.8
Beaver Cr @ gage	BVR1	4/16/2003	18:30	ACT	BK04920	5.57	mg/l	1.00	mg/l		6.6	6.8
Beaver Cr @ gage	BVR1	5/6/2003	11:30	ACT	BK04954	5.16	mg/l	0.08	mg/l		5.2	4.5
Beaver Cr @ gage	BVR1	5/6/2003	11:50	ACT	BK04955	3.66	mg/l	1.37	mg/l		5.0	3.1
Beaver Cr @ gage	BVR1-AS-GRAB	5/6/2003	11:35	ACT	BK04956	0.67	mg/l	1.90	mg/l		2.6	4.5
Beaver Cr @ gage	BVR1	6/3/2003	10:55	ASLS	66912	5.00	mg/l			2.5	5.0	10.3
Beaver Cr @ gage	BVR1	8/28/2003	8:00	ASLS	67368	6.00	mg/l			2.5	6.0	10.6
Beaver Cr @ gage	BVR1	8/28/2003	8:00	ASLS	67360						0.0	
Beaver Cr abv gage	BVR1	6/20/2003	14:00	ASLS	66913	10.00	mg/l			2.5	10.0	13.8
Beaver Cr abv gage	BVR1	6/20/2003	14:00	ASLS	66606						0.0	
Beaver Creek @ Gage	BVR1	4/21/2004	8:15	ACT	BL04445					0.05	0.0	6.0
Beaver Creek @ gage	BVR1	5/5/2004	16:40	ACT	BL04448	2.81	mg/l			0.05	2.8	6.1
BVR @ gage	BC-A-1	3/15/2002	11:32	ASLS	63319					2.5	0.0	
BVR @ gage	BC-A-2	3/15/2002	12:17	ASLS	63320					2.5	0.0	
BVR @ gage	BC-A-5	3/17/2002	12:02	ASLS	63321					2.5	0.0	
BVR @ gage	BC-A-6	3/17/2002	12:32	ASLS	63322					2.5	0.0	
BVR @ gage	BC-A-10	3/18/2002	1:02	ASLS	63325					2.5	0.0	
BVR @ gage	BC-A-8	3/18/2002	12:02	ASLS	63323					2.5	0.0	
BVR @ gage	BC-A-9	3/18/2002	12:32	ASLS	63324					2.5	0.0	
BVR @ gage	BC-B-1	3/29/2002	11:32	ASLS	63401	6.0	mg/l			2.5	6.0	6
BVR @ gage	BC-B-2	3/31/2002	13:17	ASLS	63402					2.5	0.0	9
BVR @ gage	BC-B-3	3/31/2002	15:02	ASLS	63403					2.5	0.0	10
BVR @ gage	BC-B-5	4/1/2002	12:17	ASLS	63404					2.5	0.0	10
BVR @ gage	BC-B-6	4/2/2002	14:32	ASLS	63405					2.5	0.0	
BVR @ gage	BC-B-7	4/3/2002	10:02	ASLS	63406					2.5	0.0	
BVR @ gage	BC-B-8	4/3/2002	11:47	ASLS	63407					2.5	0.0	
BVR @ gage	BC-B-9	4/3/2002	15:02	ASLS	63408	5.0	mg/l			2.5	5.0	
BVR @ gage	BC-B-10	4/4/2002	8:02	ASLS	63409					2.5	0.0	
BVR @ gage	BC-B-11	4/4/2002	11:47	ASLS	63410					2.5	0.0	
BVR @ gage	BC-B-12	4/4/2002	18:02	ASLS	63411	6.0	mg/l			2.5	6.0	
BVR @ gage	BC-B-13	4/5/2002	13:17	ASLS	63412					2.5	0.0	
BVR @ gage	BC-B-14	4/6/2002	10:17	ASLS	63413					2.5	0.0	
BVR @ gage	BC-B-15	4/6/2002	15:47	ASLS	63414	5.0	mg/l	5.0	mg/l		10.0	
BVR @ gage	BC-B-16	4/6/2002	17:17	ASLS	63415	8.0	mg/l			2.5	8.0	
BVR @ gage	BC-B-17	4/7/2002	12:47	ASLS	63416	13.0	mg/l	8.0	mg/l		21.0	
BVR @ gage	BC-B-18	4/7/2002	18:47	ASLS	63417	5.0	mg/l	6.0	mg/l		11.0	
BVR @ gage	BVR1	8/27/2002	8:35	ACT	BK04965	10.03	mg/l	0.84	mg/l		10.9	9.92
BVR @ gage	BVR1	2/6/2003	13:20	ACT	BK04900	4.27	mg/l	0.18	mg/l		4.5	7.25
BVR @ gage	BVR1	3/27/2003	13:30	ACT	BK04902	13.21	mg/l	1.53	mg/l		14.7	12.4
BVR @ gage	BVR1-AS-GRAB	3/27/2003	14:45	ACT	BK04903	21.90	mg/l	5.24	mg/l		27.1	12.4
BVR @ gage	BC-G-1	3/30/2003	18:47	ACT	BK04976	14.64	mg/l	0.10	mg/l		14.7	23

Beaver Creek Gage Station, Manual and autosampler data collection, March 2002- October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	SSC Coarse Unit	SSCcoarse_0.5DL	SSC-Total-no DLs	Turbidity, field (ntu)
BVR @ gage	BC-G-2	3/30/2003	19:17	ACT	BK04977	10.91	mg/l	0.15	mg/l		11.1	18
BVR @ gage	BC-G-3	3/31/2003	9:47	ACT	BK04978	24.25	mg/l	0.98	mg/l		25.2	
BVR @ gage	BC-G-4	3/31/2003	10:17	ACT	BK04979	13.58	mg/l	0.40	mg/l		14.0	
BVR @ gage	BC-G-5	4/2/2003	19:47	ACT	BK04980	20.75	mg/l	2.33	mg/l		23.1	
BVR @ gage	BC-G-6	4/2/2003	20:17	ACT	BK04981	13.19	mg/l	1.04	mg/l		14.2	
BVR @ gage	BC-G-8	4/7/2003	11:17	ACT	BK04982	6.03	mg/l	0.39	mg/l		6.4	
BVR @ gage	BC-G-9	4/8/2003	20:32	ACT	BK04983	8.97	mg/l	2.99	mg/l		12.0	
BVR @ gage	BC-G-10	4/12/2003	10:02	ACT	BK04984	4.86	mg/l			0.05	4.9	
BVR @ gage	BC-G-11	4/12/2003	16:02	ACT	BK04985	12.06	mg/l	1.93	mg/l		14.0	
BVR @ gage	BC-G-12	4/12/2003	23:47	ACT	BK04986	8.46	mg/l	0.10	mg/l		8.6	
BVR @ gage	BC-G-13	4/13/2003	9:32	ACT	BK04987	2.89	mg/l			0.05	2.9	
BVR @ gage	BC-G-14	4/13/2003	20:17	ACT	BK04988	8.04	mg/l			0.05	8.0	
BVR @ gage	BC-G-15	4/14/2003	18:47	ACT	BK04989	23.01	mg/l	2.52	mg/l		25.5	
BVR @ gage	BC-G-16	4/14/2003	19:17	ACT	BK04990	9.29	mg/l			0.05	9.3	
BVR @ gage	BC-G-17	4/15/2003	4:17	ACT	BK04991	19.38	mg/l	0.86	mg/l		20.2	
BVR @ gage	BC-H-1	4/15/2003	18:32	ACT	BK04992	5.03	mg/l	1.60	mg/l		6.6	3
BVR @ gage	BC-H-2	4/16/2003	20:47	ACT	BK04993	10.56	mg/l	1.04	mg/l		11.6	4
BVR @ gage	BC-H-3	4/17/2003	22:02	ACT	BK04994	7.06	mg/l			0.05	7.1	4
BVR @ gage	BC-H-4	4/21/2003	21:32	ACT	BK04995	9.43	mg/l	1.62	mg/l		11.1	
BVR @ gage	BC-H-5	4/22/2003	21:47	ACT	BK04996	6.23	mg/l	0.14	mg/l		6.4	
BVR @ gage	BC-H-6	4/23/2003	10:02	ACT	BK04997	3.12	mg/l	0.14	mg/l		3.3	
BVR @ gage	BC-H-7	4/23/2003	20:17	ACT	BK04998	4.93	mg/l	0.67	mg/l		5.6	
BVR @ gage	BC-H-8	4/25/2003	16:32	ACT	BK04999	2.81	mg/l	0.24	mg/l		3.1	
BVR @ gage	BC-H-10	4/26/2003	17:32	ACT	BK05001	1.87	mg/l	0.37	mg/l		2.2	
BVR @ gage	BC-H-9	4/26/2003	17:02	ACT	BK05000	5.37	mg/l	1.75	mg/l		7.1	
BVR @ gage	BC-H-11	4/27/2003	15:47	ACT	BK05002	14.91	mg/l			0.05	14.9	
BVR @ gage	BC-H-12	4/27/2003	16:17	ACT	BK05003	7.24	mg/l			0.05	7.2	
BVR @ gage	BC-H-13	4/27/2003	18:47	ACT	BK05004	12.90	mg/l	0.29	mg/l		13.2	
BVR @ gage	BC-H-14	4/29/2003	23:02	ACT	BK05005	6.66	mg/l	0.33	mg/l		7.0	
BVR @ gage	BC-H-15	4/30/2003	9:47	ACT	BK05006	8.05	mg/l	0.90	mg/l		9.0	
BVR @ gage	BC-H-16	5/3/2003	16:47	ACT	BK05007	12.06	mg/l	1.00	mg/l		13.1	
BVR @ gage	BC-H-17	5/3/2003	18:32	ACT	BK05008	1.84	mg/l	0.21	mg/l		2.1	
BVR @ gage	BC-H-18	5/5/2003	16:17	ACT	BK05009	3.00	mg/l	0.46	mg/l		3.5	
BVR @ gage	BC-I-2	5/8/2003	9:17	ASLS	66851	5.00	mg/l			2.5	5.0	10
BVR @ gage	BC-I-3	5/9/2003	20:32	ASLS	66852	12.00	mg/l			2.5	12.0	22
BVR @ gage	BC-I-4	5/9/2003	21:32	ASLS	66853	6.00	mg/l			2.5	6.0	17
BVR @ gage	BC-I-5	5/10/2003	19:02	ASLS	66854	8.00	mg/l			2.5	8.0	
BVR @ gage	BC-I-6	5/13/2003	0:31	ASLS	66855	5.00	mg/l			2.5	5.0	
BVR @ gage	BC-I-7	5/14/2003	3:01	ASLS	66856					2.5	0.0	
BVR @ gage	BC-I-8	5/16/2003	18:16	ASLS	66857					2.5	0.0	
BVR @ gage	BC-I-9	5/18/2003	11:31	ASLS	66858					2.5	0.0	
BVR @ gage	BC-I-10	5/20/2003	22:31	ASLS	66859	6.00	mg/l			2.5	6.0	

Beaver Creek Gage Station, Manual and autosampler data collection, March 2002- October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	SSC Coarse Unit	SSCcoarse_0.5DL	SSC-Total-no DLs	Turbidity, field (ntu)
BVR @ gage	BC-I-11	5/25/2003	3:01	ASLS	66860	10.00	mg/l			2.5	10.0	
BVR @ gage	BC-I-12	5/25/2003	14:46	ASLS	66861	5.00	mg/l			2.5	5.0	
BVR @ gage	BC-I-13	5/25/2003	21:46	ASLS	66862	7.00	mg/l			2.5	7.0	
BVR @ gage	BC-I-14	5/26/2003	4:31	ASLS	66863	7.00	mg/l			2.5	7.0	
BVR @ gage	BC-I-15	5/26/2003	7:01	ASLS	66864					2.5	0.0	
BVR @ gage	BC-I-16	5/26/2003	9:31	ASLS	66865					2.5	0.0	
BVR @ gage	BC-I-17	5/26/2003	20:16	ASLS	66866	7.00	mg/l			2.5	7.0	
BVR @ gage	BC-I-18	5/27/2003	3:16	ASLS	66867	5.00	mg/l			2.5	5.0	
BVR @ gage	BC-I-19	5/27/2003	7:46	ASLS	66868					2.5	0.0	
BVR @ gage	BC-I-20	5/28/2003	3:16	ASLS	66869			4.00	mg/l		4.0	
BVR @ gage	BC-I-21	5/30/2003	7:31	ASLS	66870			5.00	mg/l		5.0	
BVR @ gage	BC-I-22	5/30/2003	15:31	ASLS	66871	22.00	mg/l			2.5	22.0	
BVR @ gage	BC-I-23	5/30/2003	20:16	ASLS	66872	21.00	mg/l			2.5	21.0	
BVR @ gage	BC-I-24	5/30/2003	22:31	ASLS	66873	9.00	mg/l			2.5	9.0	
BVR @ gage	BVR1	3/9/2004	13:00	ACT	BL03631	39.2	mg/l	1.55	mg/l		40.8	62.00
BVR @ gage	BVR1	3/23/2004	16:15	ACT	BL03570	15.9	mg/l	1.11	mg/l		17.0	
BVR @ gage	BVR1	3/23/2004	16:15	ASLS	69274						0.0	21.00
BVR @ gage	BVR1	3/23/2004	16:30	ACT	BL03608						0.0	21.00
BVR @ gage	BVR1	8/30/2004	12:35	ASLS	70832	17.00	mg/l			2.5	17.0	5.00
BVR @ gage	BVR1	10/7/2004	11:40	ASLS	70830	11.00	mg/l			2.5	11.0	16.00
BVR @ gage	BVR1	10/26/2004	17:15	ASLS	71011	6.00	mg/l			2.5	6.0	0.00

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-B-9	1/9/2002	12:32	ASLS	63058					0.0	
WFB @ gage	WFB-B-10	1/9/2002	19:02	ASLS	63059	6.0	mg/l			6.0	0
WFB @ gage	WFB-B-11	1/11/2002	11:02	ASLS	63060	22.0	mg/l	13.0	mg/l	35.0	6
WFB @ gage	WFB-B-12	1/11/2002	11:32	ASLS	63061	28.0	mg/l	14.0	mg/l	42.0	16
WFB @ gage	WFB-B-13	1/11/2002	12:02	ASLS	63062	16.0	mg/l	10.0	mg/l	26.0	8
WFB @ gage	WFB-B-14	1/11/2002	12:32	ASLS	63063	11.0	mg/l	6.0	mg/l	17.0	3
WFB @ gage	WFB-B-15	1/11/2002	17:02	ASLS	63064					0.0	
WFB @ gage	WFB-B-16	1/12/2002	11:32	ASLS	63065	17.0	mg/l	11.0	mg/l	28.0	
WFB @ gage	WFB-B-17	1/12/2002	12:02	ASLS	63066	27.0	mg/l	15.0	mg/l	42.0	
WFB @ gage	WFB-B-18	1/12/2002	12:47	ASLS	63067	20.0	mg/l	11.0	mg/l	31.0	
WFB @ gage	WFB-B-19	1/12/2002	14:02	ASLS	63068	19.0	mg/l	8.0	mg/l	27.0	
WFB @ gage	WFB-B-20	1/12/2002	18:07	ASLS	63069					0.0	
WFB @ gage	WFB-B-21	1/13/2002	11:32	ASLS	63070	36.0	mg/l	20.0	mg/l	56.0	
WFB @ gage	WFB-B-22	1/13/2002	12:17	ASLS	63071	25.0	mg/l	9.0	mg/l	34.0	
WFB @ gage	WFB-B-23	1/13/2002	13:02	ASLS	63072	16.0	mg/l	7.0	mg/l	23.0	
WFB @ gage	WFB-B-24	1/14/2002	12:02	ASLS	63073	12.0	mg/l	6.0	mg/l	18.0	
WFB @ gage	WFB-B-1	1/14/2002	12:32	ASLS	63074	31.0	mg/l	11.0	mg/l	42.0	
WFB @ gage	WFB-B-2	1/14/2002	13:17	ASLS	63075	34.0	mg/l	15.0	mg/l	49.0	
WFB @ gage	WFB-B-3	1/14/2002	13:47	ASLS	63076	18.0	mg/l	11.0	mg/l	29.0	
WFB @ gage	WFB-B-4	1/14/2002	14:47	ASLS	63077	18.0	mg/l	6.0	mg/l	24.0	
WFB @ gage	WFB-B-5	1/15/2002	12:17	ASLS	63078	30.0	mg/l	11.0	mg/l	41.0	
WFB @ gage	WFB-B-6	1/15/2002	12:47	ASLS	63079	42.0	mg/l	22.0	mg/l	64.0	
WFB @ gage	WFB-B-7	1/15/2002	13:47	ASLS	63080	38.0	mg/l	9.0	mg/l	47.0	
WFB @ gage	WFB-B-8	1/15/2002	14:32	ASLS	63081	26.0	mg/l			26.0	
WFB @ gage	WFB-C-1	2/20/2002	11:01	ASLS	63183	16.0	mg/l	11.0	mg/l	27.0	13
WFB @ gage	WFB-C-2	2/20/2002	11:46	ASLS	63184	14.0	mg/l			14.0	10
WFB @ gage	WFB-C-3	2/20/2002	12:46	ASLS	63185	9.0	mg/l			9.0	4
WFB @ gage	WFB-C-4	2/21/2002	15:16	ASLS	63186					0.0	
WFB @ gage	WFB-C-5	2/22/2002	10:46	ASLS	63187	10.0	mg/l	5.0	mg/l	15.0	
WFB @ gage	WFB-C-6	2/22/2002	11:16	ASLS	63188	17.0	mg/l	8.0	mg/l	25.0	
WFB @ gage	WFB-C-7	2/22/2002	11:46	ASLS	63189	9.0	mg/l			9.0	
WFB @ gage	WFB-C-8	2/22/2002	12:46	ASLS	63190					0.0	
WFB @ gage	WFB-C-9	2/23/2002	19:01	ASLS	63191					0.0	
WFB @ gage	WFB-C-10	2/25/2002	10:46	ASLS	63192	16.0	mg/l	6.0	mg/l	22.0	
WFB @ gage	WFB-C-11	2/25/2002	11:31	ASLS	63193	10.0	mg/l			10.0	
WFB @ gage	WFB-C-12	2/25/2002	12:01	ASLS	63194					0.0	
WFB @ gage	WFB-C-13	2/26/2002	10:30	ASLS	63195	8.0	mg/l	8.0	mg/l	16.0	
WFB @ gage	WFB-C-14	2/26/2002	11:00	ASLS	63196	14.0	mg/l	6.0	mg/l	20.0	
WFB @ gage	WFB-C-15	2/26/2002	12:00	ASLS	63197	5.0	mg/l	6.0	mg/l	11.0	
WFB @ gage	WFB-C-16	2/26/2002	12:45	ASLS	63198					0.0	
WFB @ gage	WFB-C-17	2/27/2002	10:30	ASLS	63199	8.0	mg/l	6.0	mg/l	14.0	

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-C-18	2/28/2002	13:30	ASLS	63200			8.0	mg/l	8.0	
WFB @ gage	WFB-C-19	2/28/2002	15:15	ASLS	63201					0.0	
WFB @ gage	WFB-C-20	3/1/2002	10:30	ASLS	63202	18.0	mg/l			18.0	
WFB @ gage	WFB-C-21	3/1/2002	11:45	ASLS	63203			5.0	mg/l	5.0	
WFB @ gage	WFB-C-22	3/1/2002	13:30	ASLS	63204	5.0	mg/l			5.0	
WFB @ gage	WFB-C-23	3/3/2002	13:30	ASLS	63205	19.0	mg/l	6.0	mg/l	25.0	
WFB @ gage	WFB-C-24	3/3/2002	14:45	ASLS	63206	13.0	mg/l			13.0	
WFB @ gage	WFB-AS-Grab	3/14/2002	15:10	ASLS	63212					0.0	4.80
WFB @ gage	WFB-EDI-S1-5	3/14/2002	15:10	ASLS	63207					0.0	4.23
WFB @ gage	WFB-A-1	3/18/2002	10:32	ASLS	63291	12.0	mg/l	9.0	mg/l	21.0	
WFB @ gage	WFB-A-2	3/18/2002	12:02	ASLS	63292					0.0	
WFB @ gage	WFB-A-3	3/19/2002	10:32	ASLS	63293	11.0	mg/l	8.0	mg/l	19.0	
WFB @ gage	WFB-A-4	3/19/2002	11:02	ASLS	63294	20.0	mg/l	10.0	mg/l	30.0	
WFB @ gage	WFB-A-5	3/19/2002	11:32	ASLS	63295	14.0	mg/l	7.0	mg/l	21.0	
WFB @ gage	WFB-A-6	3/19/2002	12:32	ASLS	63296	6.0	mg/l			6.0	
WFB @ gage	WFB-A-7	3/20/2002	10:47	ASLS	63297	10.0	mg/l	5.0	mg/l	15.0	
WFB @ gage	WFB-A-8	3/20/2002	12:32	ASLS	63298					0.0	
WFB @ gage	WFB-A-10	3/21/2002	11:02	ASLS	63299	20.0	mg/l	9.0	mg/l	29.0	
WFB @ gage	WFB-A-11	3/21/2002	11:47	ASLS	63300	8.0	mg/l			8.0	
WFB @ gage	WFB-A-12	3/21/2002	12:17	ASLS	63301					0.0	
WFB @ gage	WFB-A-13	3/22/2002	10:17	ASLS	63302	14.0	mg/l	8.0	mg/l	22.0	
WFB @ gage	WFB-A-14	3/22/2002	11:32	ASLS	63303					0.0	
WFB @ gage	WFB-A-15	3/23/2002	10:17	ASLS	63304	14.0	mg/l	11.0	mg/l	25.0	
WFB @ gage	WFB-A-16	3/23/2002	11:17	ASLS	63305	9.0	mg/l			9.0	
WFB @ gage	WFB-A-18	3/24/2002	14:47	ASLS	63306					0.0	
WFB @ gage	WFB-A-19	3/25/2002	13:32	ASLS	63307					0.0	
WFB @ gage	WFB-A-20	3/25/2002	16:02	ASLS	63308					0.0	
WFB @ gage	WFB-A-21	3/26/2002	11:17	ASLS	63309	6.0	mg/l			6.0	
WFB @ gage	WFB-A-22	3/26/2002	13:17	ASLS	63310					0.0	
WFB @ gage	WFB-A-23	3/27/2002	13:17	ASLS	63311					0.0	
WFB @ gage	WFB-B-1	3/29/2002	11:50	ASLS	63312					0.0	4
WFB @ gage	WFB-EDI-S1-5	3/29/2002	11:55	ASLS	63313					0.0	2.57
WFB @ gage	WFB-B-2	3/29/2002	14:01	ASLS	63418	6.0	mg/l			6.0	5
WFB @ gage	WFB-B-3	3/31/2002	13:16	ASLS	63419					0.0	8
WFB @ gage	WFB-B-4	3/31/2002	15:31	ASLS	63420	9.0	mg/l			9.0	10
WFB @ gage	WFB-NP-A	4/1/2002	10:30	ASLS	63318					0.0	6
WFB @ gage	WFB-B-5	4/1/2002	12:46	ASLS	63421	6.0	mg/l	8.0	mg/l	14.0	9
WFB @ gage	WFB-B-6	4/1/2002	13:46	ASLS	63422	8.0	mg/l	5.0	mg/l	13.0	10
WFB @ gage	WFB-B-7	4/3/2002	12:01	ASLS	63423	6.0	mg/l	7.0	mg/l	13.0	
WFB @ gage	WFB-B-8	4/3/2002	15:01	ASLS	63424	10.0	mg/l			10.0	
WFB @ gage	WFB-B-9	4/4/2002	11:31	ASLS	63425			8.0	mg/l	8.0	

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-B-10	4/4/2002	15:01	ASLS	63426	8.0	mg/l			8.0	
WFB @ gage	WFB-B-11	4/4/2002	23:01	ASLS	63427	8.0	mg/l			8.0	
WFB @ gage	WFB-B-12	4/5/2002	12:46	ASLS	63428	9.0	mg/l			9.0	
WFB @ gage	WFB-B-13	4/6/2002	8:31	ASLS	63429	8.0	mg/l	6.0	mg/l	14.0	
WFB @ gage	WFB-B-14	4/6/2002	12:46	ASLS	63430	7.0	mg/l	11.0	mg/l	18.0	
WFB @ gage	WFB-B-15	4/6/2002	13:16	ASLS	63431	11.0	mg/l			11.0	
WFB @ gage	WFB-B-16	4/6/2002	17:01	ASLS	63432	6.0	mg/l	8.0	mg/l	14.0	
WFB @ gage	WFB-B-17	4/6/2002	17:16	ASLS	63433	5.0	mg/l			5.0	
WFB @ gage	WFB-B-18	4/6/2002	18:01	ASLS	63434	10.0	mg/l	9.0	mg/l	19.0	
WFB @ gage	WFB-B-19	4/6/2002	23:46	ASLS	63435					0.0	
WFB @ gage	WFB-B-20	4/7/2002	15:46	ASLS	63436	7.0	mg/l	7.0	mg/l	14.0	
WFB @ gage	WFB-B-21	4/8/2002	12:46	ASLS	63437	8.0	mg/l			8.0	
WFB @ gage	WFB-NP-B	4/8/2002	14:00	ASLS	63443					0.0	
WFB @ gage	WFB-B-24	4/8/2002	15:30	ASLS	63444					0.0	5
WFB @ gage	WFB-EDI-S1-5	4/8/2002	15:30	ASLS	63438	41.0	mg/l	11.0	mg/l	52.0	4.70
WFB @ gage	WFB1	8/27/2002	14:00	ACT	BK04968	4.87	mg/l	0.48	mg/l	5.4	5.71
WFB @ gage	WFB1	2/6/2003	17:00	ACT	BK04901	4.81	mg/l	0.65	mg/l	5.5	4.6
WFB @ gage	WFB1	3/27/2003	18:00	ACT	BK04904	32.13	mg/l	9.52	mg/l	41.7	18.9
WFB @ gage	WFB-AS-GRAB	3/27/2003	18:00	ACT	BK04905	30.49	mg/l	3.92	mg/l	34.4	18.9
WFB @ gage	WFB-G-1	3/28/2003	14:33	ACT	BK05010	27.48	mg/l	7.06		34.5	23.00
WFB @ gage	WFB-G-2	3/28/2003	18:48	ACT	BK05011	18.36	mg/l	3.88		22.2	19
WFB @ gage	WFB-G-3	3/29/2003	14:48	ACT	BK05012	11.49	mg/l	3.93		15.4	15
WFB @ gage	WFB-G-4	3/30/2003	14:48	ACT	BK05013	14.01	mg/l	6		20.0	14
WFB @ gage	WFB-G-5	3/30/2003	15:18	ACT	BK05014	13.3	mg/l	5.3	mg/l	18.6	31
WFB @ gage	WFB-G-6	3/30/2003	15:48	ACT	BK05015	11.02	mg/l	4.51	mg/l	15.5	13
WFB @ gage	WFB-G-7	3/31/2003	19:48	ACT	BK05016	14.34	mg/l	4.88	mg/l	19.2	
WFB @ gage	WFB-G-8	4/1/2003	19:03	ACT	BK05017	17.88	mg/l	11.02	mg/l	28.9	
WFB @ gage	WFB-G-9	4/1/2003	20:03	ACT	BK05018	31.95	mg/l	17.21	mg/l	49.2	
WFB @ gage	WFB-G-10	4/1/2003	20:33	ACT	BK05019	46.52	mg/l	28.04	mg/l	74.6	
WFB @ gage	WFB-G-11	4/1/2003	21:03	ACT	BK05020	52.11	mg/l	53.22	mg/l	105.3	
WFB @ gage	WFB-G-12	4/2/2003	7:48	ACT	BK05021	18.54	mg/l	8.21	mg/l	26.8	
WFB @ gage	WFB-G-13	4/2/2003	16:33	ACT	BK05022	15.68	mg/l			15.7	
WFB @ gage	WFB-G-14	4/2/2003	18:48	ACT	BK05023	37.38	mg/l	14.07	mg/l	51.5	
WFB @ gage	WFB-G-15	4/2/2003	19:18	ACT	BK05024	52.5	mg/l	12.87	mg/l	65.4	
WFB @ gage	WFB-G-16	4/2/2003	20:33	ACT	BK05025	78.67	mg/l	12.49	mg/l	91.2	
WFB @ gage	WFB-G-17	4/3/2003	15:03	ACT	BK05026	24.21	mg/l	10.13	mg/l	34.3	
WFB @ gage	WFB-G-18	4/3/2003	18:33	ACT	BK05027	19.92	mg/l	3.75	mg/l	23.7	
WFB @ gage	WFB-G-19	4/5/2003	12:18	ACT	BK05028	9.34	mg/l	0.61	mg/l	10.0	
WFB @ gage	WFB-G-20	4/8/2003	18:33	ACT	BK05029	12.24	mg/l	0.95	mg/l	13.2	
WFB @ gage	WFB-G-21	4/8/2003	20:33	ACT	BK05030	26.73	mg/l	9.72	mg/l	36.5	
WFB @ gage	WFB-G-22	4/9/2003	17:48	ACT	BK05031	8.94	mg/l	4.88	mg/l	13.8	

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
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Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-G-23	4/9/2003	19:48	ACT	BK05032	20.61	mg/l	11.21	mg/l	31.8	
WFB @ gage	WFB-G-24	4/9/2003	20:33	ACT	BK05033	33.55	mg/l	13.94	mg/l	47.5	
WFB @ gage	WFB1	4/14/2003	16:30	ACT	BK04911	7.34	mg/l	8.89	mg/l	16.2	6.7
WFB @ gage	WFB-H-1	4/15/2003	18:03	ACT	BK05034	9.51	mg/l	2.62	mg/l	12.1	10
WFB @ gage	WFB-H-2	4/16/2003	10:48	ACT	BK05035	5.84	mg/l	2.55	mg/l	8.4	6
WFB @ gage	WFB-H-3	4/16/2003	14:48	ACT	BK05036	11.59	mg/l	3.53	mg/l	15.1	11
WFB @ gage	WFB1	4/16/2003	17:55	ACT	BK04935	8.54	mg/l	0.68	mg/l	9.2	7.6
WFB abv FR116	WFB3	4/17/2003	12:50	ACT	BK04945	3.81	mg/l	2.09	mg/l	5.9	5.4
WFB @ gage	WFB-H-4	4/21/2003	21:17	ACT	BK05037	6.97	mg/l	3.58	mg/l	10.6	
WFB @ gage	WFB-H-5	4/22/2003	9:02	ACT	BK05038	6.5	mg/l	0.8	mg/l	7.3	
WFB @ gage	WFB-H-6	4/22/2003	20:17	ACT	BK05039	8.84	mg/l	1.47	mg/l	10.3	
WFB @ gage	WFB-H-7	4/23/2003	13:17	ACT	BK05040	3.72	mg/l	0.77	mg/l	4.5	
WFB @ gage	WFB-H-8	4/23/2003	15:32	ACT	BK05041	3.3	mg/l	0.64	mg/l	3.9	
WFB @ gage	WFB-H-9	4/23/2003	16:47	ACT	BK05042	4.43	mg/l			4.4	
WFB @ gage	WFB-H-10	4/23/2003	17:17	ACT	BK05043	5.55	mg/l	1.08		6.6	
WFB @ gage	WFB-H-11	4/24/2003	13:47	ACT	BK05044	1.62	mg/l	0.70	mg/l	2.3	
WFB @ gage	WFB-H-12	4/24/2003	19:47	ACT	BK05045	5.02	mg/l	0.70	mg/l	5.7	
WFB @ gage	WFB-H-14	4/25/2003	7:47	ACT	BK05047	8.81	mg/l			8.8	
WFB @ gage	WFB-H-15	4/25/2003	10:17	ACT	BK05048	3.4	mg/l	0.44	mg/l	3.8	
WFB @ gage	WFB-H-16	4/25/2003	11:32	ACT	BK05049	4.12	mg/l	0.15	mg/l	4.3	
WFB @ gage	WFB-H-17	4/25/2003	13:02	ACT	BK05050	5.1	mg/l			5.1	
WFB @ gage	WFB-H-18	4/25/2003	14:17	ACT	BK05051	2.92	mg/l	1.30	mg/l	4.2	
WFB @ gage	WFB-H-19	4/25/2003	16:47	ACT	BK05052	3.48	mg/l	0.15	mg/l	3.6	
WFB @ gage	WFB-H-20	4/25/2003	19:47	ACT	BK05053	6	mg/l	0.62	mg/l	6.6	
WFB @ gage	WFB-H-21	4/25/2003	22:02	ACT	BK05054	13.06	mg/l	1.84	mg/l	14.9	
WFB @ gage	WFB-H-22	4/26/2003	13:47	ACT	BK05055	2.94	mg/l	1.47	mg/l	4.4	
WFB @ gage	WFB-H-23	4/26/2003	15:02	ACT	BK05056	3.93	mg/l			3.9	
WFB @ gage	WFB-H-24	4/26/2003	18:02	ACT	BK05057	0.7	mg/l	5.86	mg/l	6.6	
WFB @ gage	WFB1	5/6/2003	15:45	ACT	BK04957	5.85	mg/l	2.01	mg/l	7.9	3.0
WFB @ gage	WFB-AS-GRAB	5/6/2003	16:00	ACT	BK04959	7	mg/l			7.0	3.4
WFB @ gage	WFB1	5/6/2003	16:15	ACT	BK04958	3.2	mg/l	0.92	mg/l	4.1	3.4
WFB @ gage	WFB-I-1	5/11/2003	18:17	ASLS	66874					0.0	
WFB @ gage	WFB-I-2	5/14/2003	0:17	ASLS	66875					0.0	
WFB @ gage	WFB-I-3	5/17/2003	20:32	ASLS	66876					0.0	
WFB @ gage	WFB-I-4	5/21/2003	20:47	ASLS	66877	7	mg/l			7.0	
WFB @ gage	WFB-I-5	5/22/2003	5:02	ASLS	66878			5	mg/l	5.0	
WFB @ gage	WFB-I-6	5/22/2003	23:17	ASLS	66879					0.0	
WFB @ gage	WFB-I-7	5/23/2003	19:17	ASLS	66880					0.0	
WFB @ gage	WFB-I-8	5/25/2003	4:47	ASLS	66881	5	mg/l	5	mg/l	10.0	
WFB @ gage	WFB-I-9	5/26/2003	1:17	ASLS	66882					0.0	
WFB @ gage	WFB-I-10	5/27/2003	22:17	ASLS	66883					0.0	

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-I-11	5/30/2003	16:32	ASLS	66884	57	mg/l			57.0	
WFB @ gage	WFB-I-12	6/2/2003	20:31	ASLS	66885	6	mg/l			6.0	
WFB @ gage	WFB1	6/3/2003	14:25	ASLS	66921	6	mg/l			6.0	4.7
WFB @ gage	WFB-J-1	6/3/2003	15:32	ASLS	66886					0.0	5
WFB @ gage	WFB-J-2	6/3/2003	21:32	ASLS	66887					0.0	10
WFB @ gage	WFB-J-3	6/4/2003	21:17	ASLS	66888	8	mg/l			8.0	12
WFB @ gage	WFB-J-4	6/5/2003	1:32	ASLS	66889					0.0	10
WFB @ gage	WFB-J-5	6/5/2003	19:02	ASLS	66890					0.0	13
WFB @ gage	WFB-J-6	6/6/2003	15:37	ASLS	66891					0.0	20
WFB @ gage	WFB-J-7	6/7/2003	12:17	ASLS	66892	9	mg/l			9.0	30
WFB @ gage	WFB-J-8	6/7/2003	17:47	ASLS	66893	9	mg/l			9.0	24
WFB @ gage	WFB-J-9	6/7/2003	18:32	ASLS	66894	8	mg/l			8.0	19
WFB @ gage	WFB-J-10	6/7/2003	21:02	ASLS	66895	13	mg/l	6	mg/l	19.0	23
WFB @ gage	WFB-J-11	6/9/2003	8:17	ASLS	66896	10	mg/l			10.0	31
WFB @ gage	WFB-J-12	6/9/2003	19:17	ASLS	66897	11	mg/l	5	mg/l	16.0	30
WFB @ gage	WFB-J-13	6/10/2003	17:32	ASLS	66898	9.00	mg/l	7.00	mg/l	16.0	30
WFB @ gage	WFB-J-14	6/11/2003	1:41	ASLS	66899	5	mg/l	11	mg/l	16.0	40
WFB @ gage	WFB-J-15	6/11/2003	7:32	ASLS	66900	6	mg/l	5	mg/l	11.0	36
WFB @ gage	WFB-J-16	6/11/2003	10:32	ASLS	66901	8	mg/l			8.0	44
WFB @ gage	WFB-J-17	6/11/2003	15:17	ASLS	66902	14	mg/l			14.0	53
WFB @ gage	WFB-J-18	6/11/2003	17:32	ASLS	66903	7	mg/l			7.0	29
WFB @ gage	WFB-J-19	6/11/2003	19:32	ASLS	66904	6	mg/l			6.0	33
WFB @ gage	WFB-J-20	6/12/2003	14:47	ASLS	66905	8	mg/l			8.0	33
WFB @ gage	WFB-J-21	6/12/2003	18:47	ASLS	66906	9	mg/l			9.0	40
WFB @ gage	WFB-J-22	6/13/2003	8:47	ASLS	66907					0.0	33
WFB @ gage	WFB-J-23	6/13/2003	16:02	ASLS	66908	8	mg/l			8.0	42
WFB @ gage	WFB-J-24	6/13/2003	17:02	ASLS	66909	9	mg/l			9.0	40
WFB abv FR116	WFB3	6/18/2003	14:20	ASLS	66925					0.0	1.9
WFB @ gage	WFB1	6/19/2003	10:30	ASLS	66923					0.0	3.6
WFB abv Home Creek	WFB1	6/19/2003	17:00	ASLS	66922	5	mg/l			5.0	5.6
WFB @ gage	WFB-K-1	6/20/2003	20:31	ASLS	68738	6	mg/l			6.0	10.00
WFB @ gage	WFB-K-2	6/21/2003	20:16	ASLS	68739	8	mg/l			8.0	10.00
WFB @ gage	WFB-K-3	6/22/2003	12:16	ASLS	68740	8	mg/l	5	mg/l	13.0	12.00
WFB @ gage	WFB-K-4	6/22/2003	13:16	ASLS	68741	6	mg/l			6.0	7.00
WFB @ gage	WFB-K-5	6/22/2003	17:31	ASLS	68742	7	mg/l	10	mg/l	17.0	12.00
WFB @ gage	WFB-K-6	6/23/2003	0:46	ASLS	68743	6	mg/l	5	mg/l	11.0	10.00
WFB @ gage	WFB-K-7	6/23/2003	10:16	ASLS	68744					0.0	6.00
WFB @ gage	WFB-K-8	6/23/2003	17:46	ASLS	68745			5	mg/l	5.0	8.00
WFB @ gage	WFB-K-9	6/24/2003	11:16	ASLS	68746	21	mg/l	6	mg/l	27.0	10.00
WFB @ gage	WFB-K-10	6/25/2003	6:31	ASLS	68747					0.0	6.00
WFB @ gage	WFB-K-11	6/25/2003	15:46	ASLS	68748	6	mg/l	5	mg/l	11.0	10.00

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
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Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-K-12	6/25/2003	18:46	ASLS	68749	8	mg/l			8.0	9.00
WFB @ gage	WFB-K-13	6/25/2003	20:46	ASLS	68750	9	mg/l	7	mg/l	16.0	14.00
WFB @ gage	WFB-K-14	6/26/2003	6:31	ASLS	68751	5	mg/l			5.0	7.00
WFB @ gage	WFB-K-15	6/26/2003	16:01	ASLS	68752	6	mg/l			6.0	12.00
WFB @ gage	WFB-K-16	6/27/2003	2:16	ASLS	68753	5	mg/l	6	mg/l	11.0	10.00
WFB @ gage	WFB-K-17	6/27/2003	4:46	ASLS	68754	6	mg/l			6.0	20.00
WFB @ gage	WFB-K-18	6/27/2003	5:31	ASLS	68755	7	mg/l			7.0	8.00
WFB @ gage	WFB-K-19	6/27/2003	20:01	ASLS	68756	6	mg/l			6.0	10.00
WFB @ gage	WFB-K-20	6/28/2003	3:46	ASLS	68757	5	mg/l			5.0	9.00
WFB @ gage	WFB-K-21	6/28/2003	20:16	ASLS	68758	10	mg/l			10.0	12.00
WFB @ gage	WFB-K-22	6/29/2003	4:46	ASLS	68759					0.0	7.00
WFB @ gage	WFB-K-23	6/29/2003	20:01	ASLS	68760	8	mg/l			8.0	10.00
WFB @ gage	WFB-K-24	6/30/2003	3:46	ASLS	68761					0.0	8.00
WFB abv FR116	WFB3	8/26/2003	15:30	ASLS	67371					0.0	5.4
WFB abv Home Creek	WFB1	8/27/2003	11:45	ASLS	67364	7	mg/l	5	mg/l	12.0	6.3
WFB @ gage	WFB1	8/27/2003	16:15	ASLS	67369	12	mg/l	11	mg/l	23.0	8.8
WFB abv FR116	WFB3	11/17/2003	17:15	ASLS	68264					0.0	5.7
WFB @ gage	WFB-L-1	11/21/2003	10:00	ASLS	68762					0.0	4.00
WFB @ gage	WFB-L-3	11/24/2003	14:00	ASLS	68763					0.0	6.00
WFB @ gage	WFB-L-6	12/1/2003	11:15	ASLS	68764					0.0	5.00
WFB @ gage	WFB-L-7	12/6/2003	11:15	ASLS	68765					0.0	3.00
WFB @ gage	WFB-L-8	12/7/2003	10:30	ASLS	68766					0.0	3.00
WFB @ gage	WFB-L-9	12/9/2003	10:45	ASLS	68774					0.0	46.00
WFB @ gage	WFB-L-14	12/18/2003	10:59	ASLS	68767					0.0	145.00
WFB @ gage	WFB-L-15	12/19/2003	14:29	ASLS	68768					0.0	4.00
WFB @ gage	WFB1	1/16/2004	12:00	ASLS	68769					0.0	1.97
WFB @ gage	WFB-J-1	1/18/2004	12:48	ACT	BL03601	3.26	mg/l	4.41	mg/l	7.7	6.00
WFB @ gage	WFB-J-3	1/19/2004	13:03	ACT	BL03602	10.2	mg/l	0.28	mg/l	10.5	9.00
WFB @ gage	WFB-J-3	1/19/2004	13:03	ACT	BL03602	10.2	mg/l	0.28	mg/l	10.5	
WFB @ gage	WFB-J-4	1/24/2004	11:33	ACT	BL03603					0.0	2.00
WFB @ gage	WFB-J-5	1/30/2004	10:48	ACT	BL03604	3.33	mg/l			3.3	42.00
WFB @ gage	WFB-J-6	1/30/2004	14:03	ACT	BL03605	7.32	mg/l			7.3	7.00
WFB @ gage	WFB-J-18	2/10/2004	13:02	ACT	BL03606					0.0	1272.00
WFB @ gage	WFB-J-24	2/16/2004	11:02	ACT	BL03607					0.0	1311.00
WFB @ gage	WFB1	3/9/2004	16:00	ACT	BL03573	65.7	mg/l	13.1	mg/l	78.8	57.0
WFB @ gage	WFB1	3/22/2004	16:30	ACT	BL03599	18.5	mg/l	5.48	mg/l	24.0	17.0
WFB @ gage	WFB1	3/22/2004	16:30	ACT	BL03569	16.1	mg/l	5.9	mg/l	22.0	
WFB abv FR116	WFB3	3/24/2004	15:30	ACT	BL03568	25.5	mg/l	17	mg/l	42.5	18.0
WFB @ gage	WFB-H-2	3/24/2004	19:01	ACT	BL04451	17.5	mg/l	6.64	mg/l	24.1	20.00
WFB @ gage	WFB-H-3	3/24/2004	23:16	ACT	BL04452	14.6	mg/l	3.82	mg/l	18.4	16.00
WFB @ gage	WFB-H-4	3/25/2004	10:16	ACT	BL04453	5.6	mg/l	2.15	mg/l	7.8	10.00

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB-H-5	4/2/2004	18:31	ACT	BL04454	8.98	mg/l	0.83	mg/l	9.8	10.00
WFB @ gage	WFB-H-6	4/3/2004	0:46	ACT	BL04455	3.73	mg/l	0.28	mg/l	4.0	6.00
WFB @ gage	WFB-H-7	4/4/2004	5:01	ACT	BL04456	1.38	mg/l			1.4	5.00
WFB @ gage	WFB-H-8	4/6/2004	20:16	ACT	BL04457	11.8	mg/l	1.62	mg/l	13.4	11.00
WFB @ gage	WFB-H-9	4/6/2004	21:46	ACT	BL04458	19.2	mg/l	10.3	mg/l	29.5	20.00
WFB @ gage	WFB-H-10	4/7/2004	2:31	ACT	BL04459	7.95	mg/l	0.96	mg/l	8.9	10.00
WFB @ gage	WFB-H-11	4/7/2004	17:31	ACT	BL04460	3.12	mg/l	0.39	mg/l	3.5	7.00
WFB @ gage	WFB-H-12	4/7/2004	19:31	ACT	BL04461	7.53	mg/l	1.78	mg/l	9.3	10.00
WFB @ gage	WFB-H-13	4/8/2004	5:31	ACT	BL04462	8.48	mg/l	0.56	mg/l	9.0	8.00
WFB @ gage	WFB-H-14	4/8/2004	18:31	ACT	BL04463	9.67	mg/l	2.6	mg/l	12.3	11.00
WFB @ gage	WFB-H-15	4/9/2004	1:16	ACT	BL04464	6.6	mg/l	1.03	mg/l	7.6	9.00
WFB @ gage	WFB-H-16	4/9/2004	22:16	ACT	BL04465	9.44	mg/l	1.35	mg/l	10.8	11.00
WFB @ gage	WFB-H-17	4/10/2004	3:46	ACT	BL04466	3.56	mg/l	2.43	mg/l	6.0	
WFB @ gage	WFB-H-19	4/10/2004	5:16	ACT	BL04468	1.06	mg/l	1.06	mg/l	2.1	8.00
WFB @ gage	WFB-H-18	4/10/2004	6:31	ACT	BL04467	4.82	mg/l			4.8	8.00
WFB @ gage	WFB1	4/21/2004	12:40	ACT	BL04444	3.02	mg/l			3.0	3.8
WFB @ gage	WFB1	5/5/2004	11:35	ACT	BL04447	0.94	mg/l			0.9	9.3
WFB @ gage	WFB-G-1	5/18/2004	7:46	ASLS	70126					0.0	
WFB @ gage	WFB-G-2	5/18/2004	8:46	ASLS	70127					0.0	3
WFB @ gage	WFB-G-3	5/18/2004	10:01	ASLS	70128					0.0	
WFB @ gage	WFB-G-4	5/18/2004	11:01	ASLS	70129					0.0	3
WFB @ gage	WFB-G-5	5/25/2004	2:46	ASLS	70130	3	mg/l			3.0	
WFB @ gage	WFB-G-6	5/25/2004	6:16	ASLS	70131					0.0	3
WFB @ gage	WFB-G-7	5/25/2004	11:16	ASLS	70132					0.0	2
WFB @ gage	WFB-G-8	5/26/2004	1:31	ASLS	70133					0.0	
WFB @ gage	WFB-G-9	6/1/2004	9:01	ASLS	70134					0.0	4
WFB @ gage	WFB-G-11	6/2/2004	9:16	ASLS	70136			15	mg/l	15.0	7.00
WFB @ gage	WFB-G-10	6/2/2004	11:01	ASLS	70135					0.0	5
WFB @ gage	WFB-G-12	6/3/2004	9:01	ASLS	70137			8	mg/l	8.0	5.00
WFB @ gage	WFB-G-13	6/4/2004	8:16	ASLS	70138			15	mg/l	15.0	5.00
WFB @ gage	WFB-G-14	6/5/2004	4:16	ASLS	70139					0.0	6.00
WFB @ gage	WFB-G-15	6/5/2004	5:16	ASLS	70140	6	mg/l	13	mg/l	19.0	7.00
WFB @ gage	WFB-G-16	6/6/2004	6:16	ASLS	70141	10	mg/l			10.0	6.00
WFB @ gage	WFB-G-17	6/6/2004	8:01	ASLS	70142	10	mg/l	10	mg/l	20.0	6.00
WFB @ gage	WFB-G-18	6/7/2004	3:46	ASLS	70143	7	mg/l	6	mg/l	13.0	7.00
WFB @ gage	WFB-G-19	6/7/2004	4:16	ASLS	70144	13	mg/l			13.0	7.00
WFB @ gage	WFB-G-20	6/8/2004	3:46	ASLS	70145					0.0	7.00
WFB @ gage	WFB-G-21	6/8/2004	5:01	ASLS	70146	5	mg/l			5.0	7.00
WFB @ gage	WFB-G-22	6/9/2004	2:01	ASLS	70147	7	mg/l	9	mg/l	16.0	9.00
WFB @ gage	WFB-G-23	6/9/2004	4:46	ASLS	70148	8	mg/l	10	mg/l	18.0	8.00
WFB @ gage	WFB-G-24	6/10/2004	1:31	ASLS	70149	13	mg/l	7	mg/l	20.0	9.00

West Fork Black River Gage Station, Manual Autosampler Data Collection,
March 2002-October 2004
Detection Limits: ACT 0.1 mg/L ASLS 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	SSC_Fine _Result	SSC fine Unit	SSC Coarse Result	Coarse Unit	SSC-Total-no DLs	Turb, field
WFB @ gage	WFB1	7/7/2004	12:50	ASLS	70150	10	mg/l	7	mg/l	17.0	9.52
WFB @ gage	WFB1	8/30/2004	11:15	ASLS	70833					0.0	2.58
WFB @gage	WFB1	10/7/2004	10:30	ASLS	70831					0.0	1.71
WFB @ gage	WFB1	10/27/2004	9:00	ASLS	71010					0.0	4.08

Appendix B:

Suspended Sediment Concentration (SSC) and Flow data, Manual and autosampler collected, from Beaver Creek and West Fork Black River Gage Stations, 2001-2004

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
Detection limits: ACT Lab 0.1 mg/L, ASLS Lab 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
BVR @ gage	BC-A-1	3/15/2002	11:32	ASLS	63319	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-10	3/18/2002	1:02	ASLS	63325	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-2	3/15/2002	12:17	ASLS	63320	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-5	3/17/2002	12:02	ASLS	63321	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-6	3/17/2002	12:32	ASLS	63322	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-8	3/18/2002	12:02	ASLS	63323	ADEQ		ND		ND	0.0	
BVR @ gage	BC-A-9	3/18/2002	12:32	ASLS	63324	ADEQ		ND		ND	0.0	
BVR @ gage	BC-B-1	3/29/2002	11:32	ASLS	63401	ADEQ	6.0			ND	6.0	0.11
BVR @ gage	BC-B-10	4/4/2002	8:02	ASLS	63409	ADEQ		ND		ND	0.0	0.04
BVR @ gage	BC-B-11	4/4/2002	11:47	ASLS	63410	ADEQ		ND		ND	0.0	0.03
BVR @ gage	BC-B-12	4/4/2002	18:02	ASLS	63411	ADEQ	6.0			ND	6.0	0.04
BVR @ gage	BC-B-13	4/5/2002	13:17	ASLS	63412	ADEQ		ND		ND	0.0	0.03
BVR @ gage	BC-B-14	4/6/2002	10:17	ASLS	63413	ADEQ		ND		ND	0.0	0.03
BVR @ gage	BC-B-15	4/6/2002	15:47	ASLS	63414	ADEQ	5.0		5.0		10.0	0.07
BVR @ gage	BC-B-16	4/6/2002	17:17	ASLS	63415	ADEQ	8.0			ND	8.0	0.07
BVR @ gage	BC-B-17	4/7/2002	12:47	ASLS	63416	ADEQ	13.0		8.0		21.0	0.09
BVR @ gage	BC-B-18	4/7/2002	18:47	ASLS	63417	ADEQ	5.0		6.0		11.0	0.11
BVR @ gage	BC-B-2	3/31/2002	13:17	ASLS	63402	ADEQ		ND		ND	0.0	0.07
BVR @ gage	BC-B-3	3/31/2002	15:02	ASLS	63403	ADEQ		ND		ND	0.0	0.09
BVR @ gage	BC-B-5	4/1/2002	12:17	ASLS	63404	ADEQ		ND		ND	0.0	0.06
BVR @ gage	BC-B-6	4/2/2002	14:32	ASLS	63405	ADEQ		ND		ND	0.0	0.06
BVR @ gage	BC-B-7	4/3/2002	10:02	ASLS	63406	ADEQ		ND		ND	0.0	0.05
BVR @ gage	BC-B-8	4/3/2002	11:47	ASLS	63407	ADEQ		ND		ND	0.0	0.05
BVR @ gage	BC-B-9	4/3/2002	15:02	ASLS	63408	ADEQ	5.0			ND	5.0	0.05
BVR @ gage	BC-G-1	3/30/2003	18:47	ACT	BK04976	ADEQ	14.64		0.10		14.7	31.6
BVR @ gage	BC-G-10	4/12/03	10:02	ACT	BK04984	ADEQ	4.86			ND	4.9	16.92
BVR @ gage	BC-G-11	4/12/03	16:02	ACT	BK04985	ADEQ	12.06		1.93		14.0	14.03
BVR @ gage	BC-G-12	4/12/03	23:47	ACT	BK04986	ADEQ	8.46		0.10		8.6	16.92
BVR @ gage	BC-G-13	4/13/03	9:32	ACT	BK04987	ADEQ	2.89			ND	2.9	19.05
BVR @ gage	BC-G-14	4/13/03	20:17	ACT	BK04988	ADEQ	8.04			ND	8.0	16.92
BVR @ gage	BC-G-15	4/14/03	18:47	ACT	BK04989	ADEQ	23.01		2.52		25.5	19.61
BVR @ gage	BC-G-16	4/14/03	19:17	ACT	BK04990	ADEQ	9.29			ND	9.3	19.61
BVR @ gage	BC-G-17	4/15/03	4:17	ACT	BK04991	ADEQ	19.38		0.86		20.2	24.48
BVR @ gage	BC-G-2	3/30/03	19:17	ACT	BK04977	ADEQ	10.91		0.15		11.1	30.84
BVR @ gage	BC-G-3	3/31/03	9:47	ACT	BK04978	ADEQ	24.25		0.98		25.2	29.34
BVR @ gage	BC-G-4	3/31/03	10:17	ACT	BK04979	ADEQ	13.58		0.40		14.0	29.34
BVR @ gage	BC-G-5	4/2/03	19:47	ACT	BK04980	ADEQ	20.75		2.33		23.1	29.34
BVR @ gage	BC-G-6	4/2/03	20:17	ACT	BK04981	ADEQ	13.19		1.04		14.2	30.08
BVR @ gage	BC-G-8	4/7/03	11:17	ACT	BK04982	ADEQ	6.03		0.39		6.4	17.44
BVR @ gage	BC-G-9	4/8/03	20:32	ACT	BK04983	ADEQ	8.97		2.99		12.0	13.58
BVR @ gage	BC-H-1	4/15/03	18:32	ACT	BK04992	ADEQ	5.03		1.60		6.6	24.48
BVR @ gage	BC-H-10	4/26/03	17:32	ACT	BK05001	ADEQ	1.87		0.37		2.2	13.58
BVR @ gage	BC-H-11	4/27/03	15:47	ACT	BK05002	ADEQ	14.91			ND	14.9	13.58
BVR @ gage	BC-H-12	4/27/03	16:17	ACT	BK05003	ADEQ	7.24			ND	7.2	13.58
BVR @ gage	BC-H-13	4/27/03	18:47	ACT	BK05004	ADEQ	12.90		0.29		13.2	13.14
BVR @ gage	BC-H-14	4/29/03	23:02	ACT	BK05005	ADEQ	6.66		0.33		7.0	12.71

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
Detection limits: ACT Lab 0.1 mg/L, ASLS Lab 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
BVR @ gage	BC-H-15	4/30/03	9:47	ACT	BK05006	ADEQ	8.05		0.90		9.0	12.58
BVR @ gage	BC-H-16	5/3/03	16:47	ACT	BK05007	ADEQ	12.06		1.00		13.1	6.77
BVR @ gage	BC-H-17	5/3/03	18:32	ACT	BK05008	ADEQ	1.84		0.21		2.1	6.77
BVR @ gage	BC-H-18	5/5/03	16:17	ACT	BK05009	ADEQ	3.00		0.46		3.5	5.46
BVR @ gage	BC-H-2	4/16/03	20:47	ACT	BK04993	ADEQ	10.56		1.04		11.6	19.61
BVR @ gage	BC-H-3	4/17/03	22:02	ACT	BK04994	ADEQ	7.06			ND	7.1	15.92
BVR @ gage	BC-H-4	4/21/03	21:32	ACT	BK04995	ADEQ	9.43		1.62		11.1	9.61
BVR @ gage	BC-H-5	4/22/03	21:47	ACT	BK04996	ADEQ	6.23		0.14		6.4	9.26
BVR @ gage	BC-H-6	4/23/03	10:02	ACT	BK04997	ADEQ	3.12		0.14		3.3	9.97
BVR @ gage	BC-H-7	4/23/03	20:17	ACT	BK04998	ADEQ	4.93		0.67		5.6	8.59
BVR @ gage	BC-H-8	4/25/03	16:32	ACT	BK04999	ADEQ	2.81		0.24		3.1	14.03
BVR @ gage	BC-H-9	4/26/03	17:02	ACT	BK05000	ADEQ	5.37		1.75		7.1	13.14
BVR @ gage	BC-I-10	5/20/03	22:31	ASLS	66859	ADEQ	6.00			ND	6.0	0.35
BVR @ gage	BC-I-11	5/25/03	3:01	ASLS	66860	ADEQ	10.00			ND	10.0	0.22
BVR @ gage	BC-I-12	5/25/03	14:46	ASLS	66861	ADEQ	5.00			ND	5.0	0.19
BVR @ gage	BC-I-13	5/25/03	21:46	ASLS	66862	ADEQ	7.00			ND	7.0	0.19
BVR @ gage	BC-I-14	5/26/03	4:31	ASLS	66863	ADEQ	7.00			ND	7.0	0.19
BVR @ gage	BC-I-15	5/26/03	7:01	ASLS	66864	ADEQ		ND		ND	0.0	0.22
BVR @ gage	BC-I-16	5/26/03	9:31	ASLS	66865	ADEQ		ND		ND	0.0	0.19
BVR @ gage	BC-I-17	5/26/03	20:16	ASLS	66866	ADEQ	7.00			ND	7.0	0.14
BVR @ gage	BC-I-18	5/27/03	3:16	ASLS	66867	ADEQ	5.00			ND	5.0	0.19
BVR @ gage	BC-I-19	5/27/03	7:46	ASLS	66868	ADEQ		ND		ND	0.0	0.19
BVR @ gage	BC-I-2	5/8/03	9:17	ASLS	66851	ADEQ	5.00			ND	5.0	4.13
BVR @ gage	BC-I-20	5/28/03	3:16	ASLS	66869	ADEQ		ND	4.00		4.0	0.19
BVR @ gage	BC-I-21	5/30/03	7:31	ASLS	66870	ADEQ		ND	5.00		5.0	0.16
BVR @ gage	BC-I-22	5/30/03	15:31	ASLS	66871	ADEQ	22.00			ND	22.0	0.19
BVR @ gage	BC-I-23	5/30/03	20:16	ASLS	66872	ADEQ	21.00			ND	21.0	0.19
BVR @ gage	BC-I-24	5/30/03	22:31	ASLS	66873	ADEQ	9.00			ND	9.0	0.19
BVR @ gage	BC-I-3	5/9/03	20:32	ASLS	66852	ADEQ	12.00			ND	12.0	2.56
BVR @ gage	BC-I-4	5/9/03	21:32	ASLS	66853	ADEQ	6.00			ND	6.0	2.56
BVR @ gage	BC-I-5	5/10/03	19:02	ASLS	66854	ADEQ	8.00			ND	8.0	2.14
BVR @ gage	BC-I-6	5/13/03	0:31	ASLS	66855	ADEQ	5.00			ND	5.0	1.45
BVR @ gage	BC-I-7	5/14/03	3:01	ASLS	66856	ADEQ		ND		ND	0.0	1.26
BVR @ gage	BC-I-8	5/16/03	18:16	ASLS	66857	ADEQ		ND		ND	0.0	0.65
BVR @ gage	BC-I-9	5/18/03	11:31	ASLS	66858	ADEQ		ND		ND	0.0	0.49
Boneyard Cr abv Clabber (	BON1	9/25/02	15:00	ACT	BK04971	ADEQ	5.53		0.28		5.8	1.94
Boneyard Cr abv Clabber (	BON1	9/25/02	15:30	ACT	BK04972	ADEQ	9.15		0.27		9.4	1.94
Burro Cr abv WFB	BUR1	4/17/03	12:30	ACT	BK04938	ADEQ	3.45		0.18		3.6	13.47
Burro Cr abv WFB	BUR1	6/18/03	13:30	ASLS	66910	ADEQ	5.00			ND	5.0	0.08
Burro Cr abv WFB	BUR1	8/26/03	13:45	ASLS	67377	ADEQ	9.00			ND	9.0	0.42
Burro Cr abv WFB	BUR1	11/17/03	16:40	ASLS	68262	ADEQ		ND		ND	0.0	3.35
Burro Cr abv WFB	BUR1	3/24/2004	14:30	ACT	BL03572	ADEQ	3.39		0.26		3.7	31.1
Burro Cr abv lower FR116	BUR2	4/17/03	11:30	ACT	BK04939	ADEQ	1.16		0.25		1.4	7.45
Burro Cr abv lower FR116	BUR2	8/26/03	13:00	ASLS	67373	ADEQ		ND		ND	0.0	0.001
Burro Cr abv lower FR116	BUR2	3/24/2004	11:45	ACT	BL03580	ADEQ	1.66			ND	1.7	14.6
Burro Cr abv FR116	BUR3	4/17/03	11:15	ACT	BK04940	ADEQ	4.10		1.19		5.3	0.22
Burro Cr abv FR116	BUR3	6/18/03	9:30	ASLS	66911	ADEQ		ND		ND	0.0	0.06

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Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
Burro Cr abv FR116	BUR3	8/26/03	12:15	ASLS	67363	ADEQ		ND		ND	0.0	0.22
Upper Burro Creek abv FR	BUR3	3/24/2004	11:15	ACT	BL03598	ADEQ	7.08		1.4		8.5	4.6
BVR @ gage	BVR1	8/27/2002	8:35	ACT	BK04965	ADEQ	10.03		0.84		10.9	0.11
BVR @ gage	BVR1	2/6/03	13:20	ACT	BK04900	ADEQ	4.27		0.18		4.5	0.51
BVR @ gage	BVR1	3/27/03	13:30	ACT	BK04902	ADEQ	13.21		1.53		14.7	54.29
Beaver Cr @ gage	BVR1	4/15/03	17:30	ACT	BK04914	ADEQ	5.08		0.54		5.6	25.06
Beaver Cr @ gage	BVR1	4/16/03	18:30	ACT	BK04920	ADEQ	5.57		1.00		6.6	18.5
Beaver Cr @ gage	BVR1	5/6/03	11:30	ACT	BK04954	ADEQ	5.16		0.08	E4	5.2	4.79
Beaver Cr @ gage	BVR1	5/6/03	11:50	ACT	BK04955	ADEQ	3.66		1.37		5.0	4.79
Beaver Cr @ gage	BVR1	6/3/03	10:55	ASLS	66912	ADEQ	5.00			ND	5.0	0.23
Beaver Cr abv gage	BVR1	6/20/03	14:00	ASLS	66913	ADEQ	10.00			ND	10.0	0.06
Beaver Cr @ gage	BVR1	8/28/03	8:00	ASLS	67368	ADEQ	6.00			ND	6.0	0.03
BVR @ gage	BVR1	3/9/2004	13:00	ACT	BL03631	ADEQ	39.2		1.55		40.8	36.47
BVR @ gage	BVR1	3/23/2004	16:15	ACT	BL03570	ADEQ	15.9		1.11		17.0	70.88
Beaver Creek @ Gage	BVR1	4/21/2004	8:15	ACT	BL04445	ADEQ		ND		ND	0.0	28.5
Beaver Creek @ gage	BVR1	5/5/2004	16:40	ACT	BL04448	ADEQ	2.81			ND	2.8	4.6
BVR @ gage	BVR1	8/30/2004	12:35	ASLS	70832	ADEQ	17.00			ND	17.0	0.22
BVR @ gage	BVR1	10/7/2004	11:40	ASLS	70830	ADEQ	11.00			ND	11.0	0.07
BVR @ gage	BVR1	10/26/2004	17:15	ASLS	71011	ADEQ	6.00			ND	6.0	0.07
BVR @ gage	BVR1-AS-GRAB	3/27/03	14:45	ACT	BK04903	ADEQ	21.90		5.24		27.1	54.29
Beaver Cr @ gage	BVR1-AS-GRAB	5/6/03	11:35	ACT	BK04956	ADEQ	0.67		1.90		2.6	4.79
Beaver Cr abv FR26	BVR2	4/16/03	11:30	ACT	BK04922	ADEQ	2.49		0.31		2.8	8.85
Beaver Cr abv FR26	BVR2	6/20/03	12:00	ASLS	66914	ADEQ		ND		ND	0.0	0.73
Beaver Cr abv FR26	BVR2	8/27/03	14:45	ASLS	67362	ADEQ		ND		ND	0.0	9.03
Beaver Cr abv FR26	BVR2	11/19/03	9:00	ASLS	68260	ADEQ		ND		ND	0.0	1.26
Beaver abv FR26	BVR2	3/10/2004	9:00	ACT	BL03576	ADEQ	44.3		3.59		47.9	
Beaver Cr blw Hannagan C	BVR3	8/27/03	13:00	ASLS	67367	ADEQ	4800.00		65.00		4865.0	10.29
Beaver Cr blw Hannagan C	BVR3	11/18/03	12:50	ASLS	68259	ADEQ		ND		ND	0.0	1.31
Beaver abv Hannagan	BVR3	3/10/2004	10:30	ACT	BL03578	ADEQ	12.6		1.01		13.6	12.8
Beaver abv Hannagan	BVR3	3/23/2004	10:30	ACT	BL03577	ADEQ		ND		ND	0.0	9.0
Beaver Cr abv Hannagan C	BVR4	4/14/03	15:30	ACT	BK04908	ADEQ	7.06		0.47		7.5	0.34
Beaver Creek Headwater	BVR5	3/10/2004	11:45	ACT	BL03579	ADEQ	6.05			ND	6.1	0.8
Beaver Creek Headwater	BVR5	3/23/2004	9:10	ACT	BL03593	ADEQ	0.1			ND	0.1	0.3
EFB blw FR24 at USGS ga	EFB1	4/16/03	15:15	ACT	BK04923	ADEQ	3.90		0.29		4.2	
EFB blw FR24 at USGS ga	EFB1	8/28/03	8:30	ASLS	67366	ADEQ	27.00		33.00		60.0	29.37
EFB blw FR24 at USGS ga	EFB1	11/19/03	11:20	ASLS	68265	ADEQ		ND		ND	0.0	16.95
Beaver abv FR26	GPS058	3/23/2004	10:40	ACT	BL03575	ADEQ	16.4		0.32		16.7	
Hawks Nest Canyon	GPS059	3/10/2004	9:30	ACT	BL03574	ADEQ	0.94			ND	0.9	0.9
Unnamed trib to Beaver Cr	GPS060	3/10/2004	9:50	ACT	BL03592	ADEQ	1.61			ND	1.6	2.3
Unnamed trib to Beaver Cr	GPS064	3/10/2004	10:50	ACT	BL03597	ADEQ	4.61			ND	4.6	4.3
Unnamed trib to Beaver Cr	GPS064	3/23/2004	10:15	ACT	BL03596	ADEQ		ND		ND	0.0	1.8
Unnamed trib to Beaver Cr	GPS065	3/10/2004	11:30	ACT	BL03594	ADEQ	19.7		0.95		20.7	
Unnamed trib to Beaver Cr	GPS065	3/23/2004	9:40	ACT	BL03595	ADEQ	1.41			ND	1.4	2.4
Hannagan Cr abv Beaver C	HAN1	4/14/03	14:30	ACT	BK04909	ADEQ	4.25		0.53		4.8	6.35
Hannagan Cr abv Beaver C	HAN1	8/27/03	13:45	ASLS	67372	ADEQ	1700.00		1800.00		3500.0	10.29
Hannagan Cr abv Beaver C	HAN1	11/18/03	9:15	ASLS	68256	ADEQ		ND		ND	0.0	0.83
Hannagan Cr abv BVR	HAN1	3/10/2004	10:30	ACT	BL03581	ADEQ	70.7		24.1		94.8	5.3

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Hannagan Cr abv BVR	HAN1	3/23/2004	11:15	ACT	BL03582	ADEQ	39.9		15.6		55.5	13.0
Hannagan Cr abv BVR	HAN1	3/23/2004	18:30	ACT	BL03583	ADEQ	145		70.5		215.5	18.0
Hannagan Cr abv Hwy191	HAN2	4/16/03	8:00	ACT	BK04924	ADEQ	1.95		3.18		5.1	5.54
Hannagan Cr abv Hwy191	HAN2	6/20/03	10:30	ASLS	66915	ADEQ		ND		ND	0.0	0.05
Hannagan Cr abv Hwy191	HAN2	8/28/03	9:45	ASLS	67376	ADEQ		ND		ND	0.0	0.31
Hannagan Cr abv Hwy191	HAN2	3/23/2004	9:00	ACT	BL03585	ADEQ	24.4		23.3		47.7	11.9
Hannagan Cr abv Hwy191	HAN2	3/23/2004	19:20	ACT	BL03584	ADEQ	61.4		61.2		122.6	15.6
Hay Cr abv WFB	HAY1	5/5/03	15:30	ACT	BK04948	ADEQ	8		5		13.0	1.84
Hay Cr abv WFB	HAY1	6/18/03	18:15	ASLS	66916	ADEQ		ND		ND	0.0	7.93
Hay Cr abv WFB	HAY1	8/27/03	9:30	ASLS	67375	ADEQ		ND		ND	0.0	0.86
Lower Hay Creek	HAY1	5/5/2004	14:00	ACT	BL04449	ADEQ	0.62			ND	0.6	1.5
Hay Cr blw exclosure	HAY2	9/24/02	13:10	ACT	BK04969	ADEQ	0.84		1.77		2.6	0.05
Hay Cr blw exclosure	HAY2	5/7/03	12:30	ACT	BK04960	ADEQ	21.90		5.24		27.1	0.61
Hay Cr @ exclosure	HAY2	8/26/03	16:30	ASLS	67379	ADEQ	7			ND	7.0	0.33
Hay Creek @ Upper Haygr	HAY2	4/20/2004	18:00	ACT	BL04446	ADEQ		ND		ND	0.0	2.6
Home Cr abv WFB conflue	HOM1	4/16/03	17:30	ACT	BK04927	ADEQ	5.40		0.05	E4	5.5	9.99
Home Cr abv WFB conflue	HOM1	6/19/03	18:00	ASLS	66917	ADEQ		ND		ND	0.0	0.05
Home Cr abv WFB conflue	HOM1	11/19/03	9:30	ASLS	68258	ADEQ		ND		ND	0.0	0.34
Home Creek, lower	HOM1	3/23/2004	17:15	ACT	BL03586	ADEQ	4.41		1.13		5.5	17.0
Home Cr abv Pond	HOM2	4/16/03	14:30	ACT	BK04928	ADEQ	0.88		0.07	E4	1.0	10.83
Home Creek, upper	HOM2	3/23/2004	17:50	ACT	BL03587	ADEQ	0.6			ND	0.6	16.2
Horton Cr abv FR26	HOR1	4/15/03	11:00	ACT	BK04915	ADEQ	0.09	E4	0.94		1.0	10.6
Horton Cr abv FR26	HOR1	11/19/03	9:30	ASLS	68254	ADEQ		ND		ND	0.0	0.14
Horton Creek abv FR26	HOR1	3/23/2004	12:30	ACT	BL03588	ADEQ	0.62			ND	0.6	6.7
Johns Cyn blw FR405	JHC2	4/16/03	18:30	ACT	BK04930	ADEQ	9		7		16.0	1.5
Beautiful Little E	LTL1	9/26/02	8:30	ACT	BK04975	ADEQ	7.03		2.18		9.2	0.02
Little E abv FR116	LTL1	11/17/03	14:30	ASLS	68261	ADEQ		ND		ND	0.0	0.38
Little E Creek	LTL1	3/24/2004	12:30	ACT	BL03589	ADEQ	1.08			ND	1.1	2.3
Thomas Cr abv Beaver cor	THM1	4/16/03	10:30	ACT	BK04932	ADEQ	2.35		0.05	E4	2.4	1.29
Thomas Cr abv Beaver cor	THM1	6/20/03	11:20	ASLS	66918	ADEQ		ND		ND	0.0	0.01
Thomas Cr abv Beaver cor	THM1	8/27/03	17:30	ASLS	67378	ADEQ	9		19		28.0	0.03
Thomas Cr abv BVR	THM1	3/23/2004	12:00	ACT	BL03590	ADEQ	0.36			ND	0.4	4.5
Thomas Cr @ East Weir	THM2	4/16/03	9:00	ACT	BK04933	ADEQ	0.73		0.02	E4	0.8	0.5
Thomas Cr @ west weir	THM3	4/16/03	9:30	ACT	BK04934	ADEQ	0.38		0.30		0.7	0.26
Thompson Cr abv WFB	TMP1	4/17/03	10:00	ACT	BK04942	ADEQ	6.59		3.13		9.7	5.81
Thompson Cr abv WFB	TMP1	6/18/03	10:15	ASLS	66919	ADEQ		ND		ND	0.0	0.74
Thompson Cr abv WFB	TMP1	8/26/03	14:40	ASLS	67370	ADEQ	6.00			ND	6.0	7.24
Thompson Cr abv WFB	TMP1	3/24/2004	16:50	ACT	BL03591	ADEQ	42.1		40		82.1	14.9
WFB @ gage	WFB1	8/27/2002	14:00	ACT	BK04968	ADEQ	4.87		0.48		5.4	3.17
WFB @ gage	WFB1	2/6/03	17:00	ACT	BK04901	ADEQ	4.81		0.65		5.5	10.27
WFB @ gage	WFB1	3/27/03	18:00	ACT	BK04904	ADEQ	32.13		9.52		41.7	121.82
WFB @ gage	WFB1	4/14/03	16:30	ACT	BK04911	ADEQ	7.34		8.89		16.2	105.66
WFB @ gage	WFB1	4/16/03	17:55	ACT	BK04935	ADEQ	8.54		0.68		9.2	109.25
WFB @ gage	WFB1	5/6/03	15:45	ACT	BK04957	ADEQ	5.85		2.01		7.9	13.52
WFB @ gage	WFB1	5/6/03	16:15	ACT	BK04958	ADEQ	3.2		0.92		4.1	13.52
WFB @ gage	WFB1	6/3/03	14:25	ASLS	66921	ADEQ	6			ND	6.0	13.11
WFB @ gage	WFB1	6/19/03	10:30	ASLS	66923	ADEQ		ND		ND	0.0	5.87

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WFB abv Home Creek	WFB1	6/19/03	17:00	ASLS	66922	ADEQ	5			ND	5.0	5.87
WFB abv Home Creek	WFB1	8/27/03	11:45	ASLS	67364	ADEQ	7		5		12.0	8.8
WFB @ gage	WFB1	8/27/03	16:15	ASLS	67369	ADEQ	12		11		23.0	5.93
WFB @ gage	WFB1	1/16/2004	12:00	ASLS	68769	ADEQ		ND		ND	0.0	5.69
WFB @ gage	WFB1	3/9/2004	16:00	ACT	BL03573	ADEQ	65.7		13.1		78.8	62.37
WFB @ gage	WFB1	3/22/2004	16:30	ACT	BL03599	ADEQ	18.5		5.48		24.0	147.3
WFB @ gage	WFB1	3/22/2004	16:30	ACT	BL03569	ADEQ	16.1		5.9		22.0	147.3
WFB @ gage	WFB1	4/21/2004	12:40	ACT	BL04444	ADEQ	3.02			ND	3.0	53.1
WFB @ gage	WFB1	5/5/2004	11:35	ACT	BL04447	ADEQ	0.94			ND	0.9	25.1
WFB @ gage	WFB1	7/7/2004	12:50	ASLS	70150	ADEQ	10		7		17.0	3.07
WFB @ gage	WFB1	8/30/2004	11:15	ASLS	70833	ADEQ		ND		ND	0.0	5.6
WFB @gage	WFB1	10/7/2004	10:30	ASLS	70831	ADEQ		ND		ND	0.0	5.57
WFB @ gage	WFB1	10/27/2004	9:00	ASLS	71010	ADEQ		ND		ND	0.0	
WFB @ FR68	WFB2	4/16/03	15:15	ACT	BK04936	ADEQ	6.67		8.60		15.3	103
WFB @ FR68	WFB2	6/18/03	16:30	ASLS	66924	ADEQ	5.00			ND	5.0	8.77
WFB @ FR68	WFB2	8/27/03	10:45	ASLS	67374	ADEQ		ND		ND	0.0	9.12
WFB @ FR68	WFB2	11/19/03	10:30	ASLS	68255	ADEQ		ND		ND	0.0	10.74
WFB @ FR68 BLW Camp	WFB2	5/5/2004	12:16	ACT	BL04450	ADEQ	1.26			ND	1.3	
WFB abv FR116	WFB3	4/17/03	12:50	ACT	BK04945	ADEQ	3.81		2.09		5.9	28.34
WFB abv FR116	WFB3	6/18/03	14:20	ASLS	66925	ADEQ		ND		ND	0.0	4.21
WFB abv FR116	WFB3	8/26/03	15:30	ASLS	67371	ADEQ		ND		ND	0.0	4.65
WFB abv FR116	WFB3	11/17/03	17:15	ASLS	68264	ADEQ		ND		ND	0.0	
WFB abv FR116	WFB3	3/24/2004	15:30	ACT	BL03568	ADEQ	25.5		17		42.5	50.7
WFB abv Thompson Cr co	WFB4	4/17/03	10:00	ACT	BK04947	ADEQ	3.01		1.33		4.3	10.39
WFB abv Thompson Cr co	WFB4	6/18/03	10:45	ASLS	66926	ADEQ		ND		ND	0.0	3.42
WFB abv Thompson Cr co	WFB4	8/26/03	14:15	ASLS	67365	ADEQ		ND		ND	0.0	3.23
WFB abv Thompson Cr	WFB4	3/24/2004	16:45	ACT	BL03571	ADEQ	62.5		60.3		122.8	26.4
WFB @ gage	WFB-A-1	3/18/2002	10:32	ASLS	63291	ADEQ	12.0		9.0		21.0	7.97
WFB @ gage	WFB-A-10	3/21/2002	11:02	ASLS	63299	ADEQ	20.0		9.0		29.0	6.59
WFB @ gage	WFB-A-11	3/21/2002	11:47	ASLS	63300	ADEQ	8.0			ND	8.0	6.85
WFB @ gage	WFB-A-12	3/21/2002	12:17	ASLS	63301	ADEQ		ND		ND	0.0	6.33
WFB @ gage	WFB-A-13	3/22/2002	10:17	ASLS	63302	ADEQ	14.0		8.0		22.0	6.59
WFB @ gage	WFB-A-14	3/22/2002	11:32	ASLS	63303	ADEQ		ND		ND	0.0	6.85
WFB @ gage	WFB-A-15	3/23/2002	10:17	ASLS	63304	ADEQ	14.0		11.0		25.0	7.12
WFB @ gage	WFB-A-16	3/23/2002	11:17	ASLS	63305	ADEQ	9.0			ND	9.0	7.12
WFB @ gage	WFB-A-18	3/24/2002	14:47	ASLS	63306	ADEQ		ND		ND	0.0	6.59
WFB @ gage	WFB-A-19	3/25/2002	13:32	ASLS	63307	ADEQ		ND		ND	0.0	5.84
WFB @ gage	WFB-A-2	3/18/2002	12:02	ASLS	63292	ADEQ		ND		ND	0.0	10.53
WFB @ gage	WFB-A-20	3/25/2002	16:02	ASLS	63308	ADEQ		ND		ND	0.0	5.15
WFB @ gage	WFB-A-21	3/26/2002	11:17	ASLS	63309	ADEQ	6.0			ND	6.0	6.08
WFB @ gage	WFB-A-22	3/26/2002	13:17	ASLS	63310	ADEQ		ND		ND	0.0	5.61
WFB @ gage	WFB-A-23	3/27/2002	13:17	ASLS	63311	ADEQ		ND		ND	0.0	6.08
WFB @ gage	WFB-A-3	3/19/2002	10:32	ASLS	63293	ADEQ	11.0		8.0		19.0	7.68
WFB @ gage	WFB-A-4	3/19/2002	11:02	ASLS	63294	ADEQ	20.0		10.0		30.0	7.68
WFB @ gage	WFB-A-5	3/19/2002	11:32	ASLS	63295	ADEQ	14.0		7.0		21.0	7.68
WFB @ gage	WFB-A-6	3/19/2002	12:32	ASLS	63296	ADEQ	6.0			ND	6.0	6.85
WFB @ gage	WFB-A-7	3/20/2002	10:47	ASLS	63297	ADEQ	10.0		5.0		15.0	7.39

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WFB @ gage	WFB-A-8	3/20/2002	12:32	ASLS	63298	ADEQ		ND		ND	0.0	7.39
WFB @ gage	WFB-AS-Grab	3/14/2002	15:10	ASLS	63212	ADEQ		ND		ND	0.0	8.56
WFB @ gage	WFB-AS-GRAB	3/27/03	18:00	ACT	BK04905	ADEQ	30.49		3.92		34.4	121.82
WFB @ gage	WFB-AS-GRAB	5/6/03	16:00	ACT	BK04959	ADEQ	7			ND	7.0	13.52
WFB @ gage	WFB-B-1	1/14/2002	12:32	ASLS	63074	ADEQ	31.0		11.0		42.0	6.33
WFB @ gage	WFB-B-1	3/29/2002	11:50	ASLS	63312	ADEQ		ND		ND	0.0	7.12
WFB @ gage	WFB-B-10	1/9/2002	19:02	ASLS	63059	ADEQ	6.0			ND	6.0	6.08
WFB @ gage	WFB-B-10	4/4/2002	15:01	ASLS	63426	ADEQ	8.0			ND	8.0	5.84
WFB @ gage	WFB-B-11	1/11/2002	11:02	ASLS	63060	ADEQ	22.0		13.0		35.0	4.52
WFB @ gage	WFB-B-11	4/4/2002	23:01	ASLS	63427	ADEQ	8.0			ND	8.0	5.15
WFB @ gage	WFB-B-12	1/11/2002	11:32	ASLS	63061	ADEQ	28.0		14.0		42.0	5.38
WFB @ gage	WFB-B-12	4/5/2002	12:46	ASLS	63428	ADEQ	9.0			ND	9.0	5.84
WFB @ gage	WFB-B-13	1/11/2002	12:02	ASLS	63062	ADEQ	16.0		10.0		26.0	6.08
WFB @ gage	WFB-B-13	4/6/2002	8:31	ASLS	63429	ADEQ	8.0		6.0		14.0	5.84
WFB @ gage	WFB-B-14	1/11/2002	12:32	ASLS	63063	ADEQ	11.0		6.0		17.0	6.08
WFB @ gage	WFB-B-14	4/6/2002	12:46	ASLS	63430	ADEQ	7.0		11.0		18.0	6.59
WFB @ gage	WFB-B-15	1/11/2002	17:02	ASLS	63064	ADEQ		ND		ND	0.0	4.72
WFB @ gage	WFB-B-15	4/6/2002	13:16	ASLS	63431	ADEQ	11.0			ND	11.0	6.33
WFB @ gage	WFB-B-16	1/12/2002	11:32	ASLS	63065	ADEQ	17.0		11.0		28.0	8.87
WFB @ gage	WFB-B-16	4/6/2002	17:01	ASLS	63432	ADEQ	6.0		8.0		14.0	6.85
WFB @ gage	WFB-B-17	1/12/2002	12:02	ASLS	63066	ADEQ	27.0		15.0		42.0	9.19
WFB @ gage	WFB-B-17	4/6/2002	17:16	ASLS	63433	ADEQ	5.0			ND	5.0	6.85
WFB @ gage	WFB-B-18	1/12/2002	12:47	ASLS	63067	ADEQ	20.0		11.0		31.0	9.51
WFB @ gage	WFB-B-18	4/6/2002	18:01	ASLS	63434	ADEQ	10.0		9.0		19.0	6.59
WFB @ gage	WFB-B-19	1/12/2002	14:02	ASLS	63068	ADEQ	19.0		8.0		27.0	8.87
WFB @ gage	WFB-B-19	4/6/2002	23:46	ASLS	63435	ADEQ		ND		ND	0.0	6.59
WFB @ gage	WFB-B-2	1/14/2002	13:17	ASLS	63075	ADEQ	34.0		15.0		49.0	7.68
WFB @ gage	WFB-B-2	3/29/2002	14:01	ASLS	63418	ADEQ	6.0			ND	6.0	7.12
WFB @ gage	WFB-B-20	1/12/2002	18:07	ASLS	63069	ADEQ		ND		ND	0.0	6.08
WFB @ gage	WFB-B-20	4/7/2002	15:46	ASLS	63436	ADEQ	7.0		7.0		14.0	7.39
WFB @ gage	WFB-B-21	1/13/2002	11:32	ASLS	63070	ADEQ	36.0		20.0		56.0	11.99
WFB @ gage	WFB-B-21	4/8/2002	12:46	ASLS	63437	ADEQ	8.0			ND	8.0	7.97
WFB @ gage	WFB-B-22	1/13/2002	12:17	ASLS	63071	ADEQ	25.0		9.0		34.0	11.99
WFB @ gage	WFB-B-23	1/13/2002	13:02	ASLS	63072	ADEQ	16.0		7.0		23.0	10.89
WFB @ gage	WFB-B-24	1/14/2002	12:02	ASLS	63073	ADEQ	12.0		6.0		18.0	5.15
WFB @ gage	WFB-B-24	4/8/2002	15:30	ASLS	63444	ADEQ		ND		ND	0.0	7.39
WFB @ gage	WFB-B-3	1/14/2002	13:47	ASLS	63076	ADEQ	18.0		11.0		29.0	7.97
WFB @ gage	WFB-B-3	3/31/2002	13:16	ASLS	63419	ADEQ		ND		ND	0.0	6.59
WFB @ gage	WFB-B-4	1/14/2002	14:47	ASLS	63077	ADEQ	18.0		6.0		24.0	7.68
WFB @ gage	WFB-B-4	3/31/2002	15:31	ASLS	63420	ADEQ	9.0			ND	9.0	6.33
WFB @ gage	WFB-B-5	1/15/2002	12:17	ASLS	63078	ADEQ	30.0		11.0		41.0	6.08
WFB @ gage	WFB-B-5	4/1/2002	12:46	ASLS	63421	ADEQ	6.0		8.0		14.0	6.85
WFB @ gage	WFB-B-6	1/15/2002	12:47	ASLS	63079	ADEQ	42.0		22.0		64.0	7.68
WFB @ gage	WFB-B-6	4/1/2002	13:46	ASLS	63422	ADEQ	8.0		5.0		13.0	6.59
WFB @ gage	WFB-B-7	1/15/2002	13:47	ASLS	63080	ADEQ	38.0		9.0		47.0	10.18
WFB @ gage	WFB-B-7	4/3/2002	12:01	ASLS	63423	ADEQ	6.0		7.0		13.0	6.33
WFB @ gage	WFB-B-8	1/15/2002	14:32	ASLS	63081	ADEQ	26.0			ND	26.0	9.85

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
Detection limits: ACT Lab 0.1 mg/L, ASLS Lab 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
WFB @ gage	WFB-B-8	4/3/2002	15:01	ASLS	63424	ADEQ	10.0			ND	10.0	6.33
WFB @ gage	WFB-B-9	1/9/2002	12:32	ASLS	63058	ADEQ		ND		ND	0.0	6.33
WFB @ gage	WFB-B-9	4/4/2002	11:31	ASLS	63425	ADEQ		ND	8.0		8.0	5.84
WFB @ gage	WFB-C-1	2/20/2002	11:01	ASLS	63183	ADEQ	16.0		11.0		27.0	4.32
WFB @ gage	WFB-C-10	2/25/2002	10:46	ASLS	63192	ADEQ	16.0		6.0		22.0	7.68
WFB @ gage	WFB-C-11	2/25/2002	11:31	ASLS	63193	ADEQ	10.0			ND	10.0	7.97
WFB @ gage	WFB-C-12	2/25/2002	12:01	ASLS	63194	ADEQ		ND		ND	0.0	8.26
WFB @ gage	WFB-C-13	2/26/2002	10:30	ASLS	63195	ADEQ	8.0		8.0		16.0	5.84
WFB @ gage	WFB-C-14	2/26/2002	11:00	ASLS	63196	ADEQ	14.0		6.0		20.0	7.68
WFB @ gage	WFB-C-15	2/26/2002	12:00	ASLS	63197	ADEQ	5.0		6.0		11.0	7.97
WFB @ gage	WFB-C-16	2/26/2002	12:45	ASLS	63198	ADEQ		ND		ND	0.0	7.68
WFB @ gage	WFB-C-17	2/27/2002	10:30	ASLS	63199	ADEQ	8.0		6.0		14.0	5.38
WFB @ gage	WFB-C-18	2/28/2002	13:30	ASLS	63200	ADEQ		ND	8.0		8.0	6.08
WFB @ gage	WFB-C-19	2/28/2002	15:15	ASLS	63201	ADEQ		ND		ND	0.0	5.84
WFB @ gage	WFB-C-2	2/20/2002	11:46	ASLS	63184	ADEQ	14.0			ND	14.0	5.61
WFB @ gage	WFB-C-20	3/1/2002	10:30	ASLS	63202	ADEQ	18.0			ND	18.0	6.85
WFB @ gage	WFB-C-21	3/1/2002	11:45	ASLS	63203	ADEQ		ND	5.0		5.0	8.56
WFB @ gage	WFB-C-22	3/1/2002	13:30	ASLS	63204	ADEQ	5.0			ND	5.0	7.39
WFB @ gage	WFB-C-23	3/3/2002	13:30	ASLS	63205	ADEQ	19.0		6.0		25.0	7.12
WFB @ gage	WFB-C-24	3/3/2002	14:45	ASLS	63206	ADEQ	13.0			ND	13.0	7.97
WFB @ gage	WFB-C-3	2/20/2002	12:46	ASLS	63185	ADEQ	9.0			ND	9.0	6.33
WFB @ gage	WFB-C-4	2/21/2002	15:16	ASLS	63186	ADEQ		ND		ND	0.0	4.32
WFB @ gage	WFB-C-5	2/22/2002	10:46	ASLS	63187	ADEQ	10.0		5.0		15.0	4.12
WFB @ gage	WFB-C-6	2/22/2002	11:16	ASLS	63188	ADEQ	17.0		8.0		25.0	4.94
WFB @ gage	WFB-C-7	2/22/2002	11:46	ASLS	63189	ADEQ	9.0			ND	9.0	5.61
WFB @ gage	WFB-C-8	2/22/2002	12:46	ASLS	63190	ADEQ		ND		ND	0.0	6.08
WFB @ gage	WFB-C-9	2/23/2002	19:01	ASLS	63191	ADEQ		ND		ND	0.0	4.72
WFB @ gage	WFB-EDI-S1-5	3/14/2002	15:10	ASLS	63207	ADEQ		ND		ND	0.0	8.56
WFB @ gage	WFB-EDI-S1-5	3/29/2002	11:55	ASLS	63313	ADEQ		ND		ND	0.0	5.79
WFB @ gage	WFB-EDI-S1-5	4/8/2002	15:30	ASLS	63438	ADEQ	41.0		11.0		52.0	7.25
WFB @ gage	WFB-G-1	3/28/03	14:33	ACT	BK05010	ADEQ	27.48		7.06		34.5	308.81
WFB @ gage	WFB-G-1	5/18/2004	7:46	ASLS	70126	ADEQ		ND		ND	0.0	10.53
WFB @ gage	WFB-G-10	4/1/03	20:33	ACT	BK05019	ADEQ	46.52		28.04		74.6	296.55
WFB @ gage	WFB-G-10	6/2/2004	11:01	ASLS	70135	ADEQ		ND		ND	0.0	4.72
WFB @ gage	WFB-G-11	4/1/03	21:03	ACT	BK05020	ADEQ	52.11		53.22		105.3	299.58
WFB @ gage	WFB-G-11	6/2/2004	9:16	ASLS	70136	ADEQ		ND	15		15.0	4.32
WFB @ gage	WFB-G-12	4/2/03	7:48	ACT	BK05021	ADEQ	18.54		8.21		26.8	242.61
WFB @ gage	WFB-G-12	6/3/2004	9:01	ASLS	70137	ADEQ		ND	8		8.0	4.12
WFB @ gage	WFB-G-13	4/2/03	16:33	ACT	BK05022	ADEQ	15.68			ND	15.7	281.67
WFB @ gage	WFB-G-13	6/4/2004	8:16	ASLS	70138	ADEQ		ND	15		15.0	4.12
WFB @ gage	WFB-G-14	4/2/03	18:48	ACT	BK05023	ADEQ	37.38		14.07		51.5	308.81
WFB @ gage	WFB-G-14	6/5/2004	4:16	ASLS	70139	ADEQ		ND		ND	0.0	4.12
WFB @ gage	WFB-G-15	4/2/03	19:18	ACT	BK05024	ADEQ	52.5		12.87		65.4	308.81
WFB @ gage	WFB-G-15	6/5/2004	5:16	ASLS	70140	ADEQ	6		13		19.0	4.12
WFB @ gage	WFB-G-16	4/2/03	20:33	ACT	BK05025	ADEQ	78.67		12.49		91.2	311.92
WFB @ gage	WFB-G-16	6/6/2004	6:16	ASLS	70141	ADEQ	10			ND	10.0	3.94
WFB @ gage	WFB-G-17	4/3/03	15:03	ACT	BK05026	ADEQ	24.21		10.13		34.3	212.06

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
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Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
WFB @ gage	WFB-G-17	6/6/2004	8:01	ASLS	70142	ADEQ	10		10		20.0	3.58
WFB @ gage	WFB-G-18	4/3/03	18:33	ACT	BK05027	ADEQ	19.92		3.75		23.7	232.13
WFB @ gage	WFB-G-18	6/7/2004	3:46	ASLS	70143	ADEQ	7		6		13.0	3.08
WFB @ gage	WFB-G-19	4/5/03	12:18	ACT	BK05028	ADEQ	9.34		0.61		10.0	148.78
WFB @ gage	WFB-G-19	6/7/2004	4:16	ASLS	70144	ADEQ	13			ND	13.0	3.75
WFB @ gage	WFB-G-2	3/28/03	18:48	ACT	BK05011	ADEQ	18.36		3.88		22.2	315.06
WFB @ gage	WFB-G-2	5/18/2004	8:46	ASLS	70127	ADEQ		ND		ND	0.0	10.53
WFB @ gage	WFB-G-20	4/8/03	18:33	ACT	BK05029	ADEQ	12.24		0.95		13.2	105.28
WFB @ gage	WFB-G-20	6/8/2004	3:46	ASLS	70145	ADEQ		ND		ND	0.0	3.58
WFB @ gage	WFB-G-21	4/8/03	20:33	ACT	BK05030	ADEQ	26.73		9.72		36.5	111.6
WFB @ gage	WFB-G-21	6/8/2004	5:01	ASLS	70146	ADEQ	5			ND	5.0	3.41
WFB @ gage	WFB-G-22	4/9/03	17:48	ACT	BK05031	ADEQ	8.94		4.88		13.8	108.41
WFB @ gage	WFB-G-22	6/9/2004	2:01	ASLS	70147	ADEQ	7		9		16.0	3.08
WFB @ gage	WFB-G-23	4/9/03	19:48	ACT	BK05032	ADEQ	20.61		11.21		31.8	118.15
WFB @ gage	WFB-G-23	6/9/2004	4:46	ASLS	70148	ADEQ	8		10		18.0	3.41
WFB @ gage	WFB-G-24	4/9/03	20:33	ACT	BK05033	ADEQ	33.55		13.94		47.5	123.23
WFB @ gage	WFB-G-24	6/10/2004	1:31	ASLS	70149	ADEQ	13		7		20.0	3.08
WFB @ gage	WFB-G-3	3/29/03	14:48	ACT	BK05012	ADEQ	11.49		3.93		15.4	224.47
WFB @ gage	WFB-G-3	5/18/2004	10:01	ASLS	70128	ADEQ		ND		ND	0.0	11.25
WFB @ gage	WFB-G-4	3/30/03	14:48	ACT	BK05013	ADEQ	14.01		6		20.0	186.35
WFB @ gage	WFB-G-4	5/18/2004	11:01	ASLS	70129	ADEQ		ND		ND	0.0	10.53
WFB @ gage	WFB-G-5	3/30/03	15:18	ACT	BK05014	ADEQ	13.3		5.3		18.6	193.15
WFB @ gage	WFB-G-5	5/25/2004	2:46	ASLS	70130	ADEQ	3			ND	3.0	6.85
WFB @ gage	WFB-G-6	3/30/03	15:48	ACT	BK05015	ADEQ	11.02		4.51		15.5	202.46
WFB @ gage	WFB-G-6	5/25/2004	6:16	ASLS	70131	ADEQ		ND		ND	0.0	6.33
WFB @ gage	WFB-G-7	3/31/03	19:48	ACT	BK05016	ADEQ	14.34		4.88		19.2	270.13
WFB @ gage	WFB-G-7	5/25/2004	11:16	ASLS	70132	ADEQ		ND		ND	0.0	7.12
WFB @ gage	WFB-G-8	4/1/03	19:03	ACT	BK05017	ADEQ	17.88		11.02		28.9	287.56
WFB @ gage	WFB-G-9	4/1/03	20:03	ACT	BK05018	ADEQ	31.95		17.21		49.2	293.53
WFB @ gage	WFB-G-9	6/1/2004	9:01	ASLS	70134	ADEQ		ND		ND	0.0	4.94
WFB @ gage	WFB-H-1	4/15/03	18:03	ACT	BK05034	ADEQ	9.51		2.62		12.1	152.69
WFB @ gage	WFB-H-10	4/23/03	17:17	ACT	BK05043	ADEQ	5.55		1.08		6.6	60.7
WFB @ gage	WFB-H-10	4/7/2004	2:31	ACT	BL04459	ADEQ	7.95		0.96		8.9	89.12
WFB @ gage	WFB-H-11	4/24/03	13:47	ACT	BK05044	ADEQ	1.62		0.70		2.3	54.41
WFB @ gage	WFB-H-11	4/7/2004	17:31	ACT	BL04460	ADEQ	3.12		0.39		3.5	78.43
WFB @ gage	WFB-H-12	4/24/03	19:47	ACT	BK05045	ADEQ	5.02		0.70		5.7	53.41
WFB @ gage	WFB-H-12	4/7/2004	19:31	ACT	BL04461	ADEQ	7.53		1.78		9.3	91.93
WFB @ gage	WFB-H-13	4/8/2004	5:31	ACT	BL04462	ADEQ	8.48		0.56		9.0	94.79
WFB @ gage	WFB-H-14	4/25/03	7:47	ACT	BK05047	ADEQ	8.81			ND	8.8	54.41
WFB @ gage	WFB-H-14	4/8/2004	18:31	ACT	BL04463	ADEQ	9.67		2.6		12.3	105.38
WFB @ gage	WFB-H-15	4/25/03	10:17	ACT	BK05048	ADEQ	3.4		0.44		3.8	54.41
WFB @ gage	WFB-H-15	4/9/2004	1:16	ACT	BL04464	ADEQ	6.6		1.03		7.6	102.21
WFB @ gage	WFB-H-16	4/25/03	11:32	ACT	BK05049	ADEQ	4.12		0.15		4.3	53.41
WFB @ gage	WFB-H-16	4/9/2004	22:16	ACT	BL04465	ADEQ	9.44		1.35		10.8	105.28
WFB @ gage	WFB-H-17	4/25/03	13:02	ACT	BK05050	ADEQ	5.1			ND	5.1	52.41
WFB @ gage	WFB-H-17	4/10/2004	3:46	ACT	BL04466	ADEQ	3.56		2.43		6.0	102.21
WFB @ gage	WFB-H-18	4/25/03	14:17	ACT	BK05051	ADEQ	2.92		1.30		4.2	53.41

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
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Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
WFB @ gage	WFB-H-18	4/10/2004	6:31	ACT	BL04467	ADEQ	4.82			ND	4.8	94.79
WFB @ gage	WFB-H-19	4/25/03	16:47	ACT	BK05052	ADEQ	3.48		0.15		3.6	52.41
WFB @ gage	WFB-H-19	4/10/2004	5:16	ACT	BL04468	ADEQ	1.06		1.06		2.1	102.21
WFB @ gage	WFB-H-2	4/16/03	10:48	ACT	BK05035	ADEQ	5.84		2.55		8.4	111.6
WFB @ gage	WFB-H-2	3/24/2004	19:01	ACT	BL04451	ADEQ	17.5		6.64		24.1	148.78
WFB @ gage	WFB-H-20	4/25/03	19:47	ACT	BK05053	ADEQ	6		0.62		6.6	51.43
WFB @ gage	WFB-H-21	4/25/03	22:02	ACT	BK05054	ADEQ	13.06		1.84		14.9	51.43
WFB @ gage	WFB-H-22	4/26/03	13:47	ACT	BK05055	ADEQ	2.94		1.47		4.4	53.41
WFB @ gage	WFB-H-23	4/26/03	15:02	ACT	BK05056	ADEQ	3.93			ND	3.9	53.41
WFB @ gage	WFB-H-24	4/26/03	18:02	ACT	BK05057	ADEQ	0.7		5.86		6.6	51.43
WFB @ gage	WFB-H-3	4/16/03	14:48	ACT	BK05036	ADEQ	11.59		3.53		15.1	105.28
WFB @ gage	WFB-H-3	3/24/2004	23:16	ACT	BL04452	ADEQ	14.6		3.82		18.4	152.69
WFB @ gage	WFB-H-4	4/21/03	21:17	ACT	BK05037	ADEQ	6.97		3.58		10.6	62.9
WFB @ gage	WFB-H-4	3/25/2004	10:16	ACT	BL04453	ADEQ	5.6		2.15		7.8	102.21
WFB @ gage	WFB-H-5	4/22/03	9:02	ACT	BK05038	ADEQ	6.5		0.8		7.3	66.29
WFB @ gage	WFB-H-5	4/2/2004	18:31	ACT	BL04454	ADEQ	8.98		0.83		9.8	75.9
WFB @ gage	WFB-H-6	4/22/03	20:17	ACT	BK05039	ADEQ	8.84		1.47		10.3	60.7
WFB @ gage	WFB-H-6	4/3/2004	0:46	ACT	BL04455	ADEQ	3.73		0.28		4.0	70
WFB @ gage	WFB-H-7	4/23/03	13:17	ACT	BK05040	ADEQ	3.72		0.77		4.5	60.7
WFB @ gage	WFB-H-7	4/4/2004	5:01	ACT	BL04456	ADEQ	1.38			ND	1.4	70.99
WFB @ gage	WFB-H-8	4/23/03	15:32	ACT	BK05041	ADEQ	3.3		0.64		3.9	58.55
WFB @ gage	WFB-H-8	4/6/2004	20:16	ACT	BL04457	ADEQ	11.8		1.62		13.4	83.66
WFB @ gage	WFB-H-9	4/23/03	16:47	ACT	BK05042	ADEQ	4.43			ND	4.4	60.7
WFB @ gage	WFB-H-9	4/6/2004	21:46	ACT	BL04458	ADEQ	19.2		10.3		29.5	100.7
WFB @ gage	WFB-I-1	5/11/03	18:17	ASLS	66874	ADEQ		ND		ND	0.0	18.62
WFB @ gage	WFB-I-10	5/27/03	22:17	ASLS	66883	ADEQ		ND		ND	0.0	15.29
WFB @ gage	WFB-I-11	5/30/03	16:32	ASLS	66884	ADEQ	57			ND	57.0	17.63
WFB @ gage	WFB-I-12	6/2/03	20:31	ASLS	66885	ADEQ	6			ND	6.0	11.99
WFB @ gage	WFB-I-2	5/14/03	0:17	ASLS	66875	ADEQ		ND		ND	0.0	18.62
WFB @ gage	WFB-I-3	5/17/03	20:32	ASLS	66876	ADEQ		ND		ND	0.0	20.72
WFB @ gage	WFB-I-4	5/21/03	20:47	ASLS	66877	ADEQ	7			ND	7.0	18.62
WFB @ gage	WFB-I-5	5/22/03	5:02	ASLS	66878	ADEQ		ND	5		5.0	19.65
WFB @ gage	WFB-I-6	5/22/03	23:17	ASLS	66879	ADEQ		ND		ND	0.0	17.63
WFB @ gage	WFB-I-7	5/23/03	19:17	ASLS	66880	ADEQ		ND		ND	0.0	18.62
WFB @ gage	WFB-I-8	5/25/03	4:47	ASLS	66881	ADEQ	5		5		10.0	19.65
WFB @ gage	WFB-I-9	5/26/03	1:17	ASLS	66882	ADEQ		ND		ND	0.0	18.62
WFB @ gage	WFB-J-1	6/3/03	15:32	ASLS	66886	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-1	1/18/2004	12:48	ACT	BL03601	ADEQ	3.26		4.41		7.7	8.26
WFB @ gage	WFB-J-10	6/7/03	21:02	ASLS	66895	ADEQ	13		6		19.0	
WFB @ gage	WFB-J-11	6/9/03	8:17	ASLS	66896	ADEQ	10			ND	10.0	
WFB @ gage	WFB-J-12	6/9/03	19:17	ASLS	66897	ADEQ	11		5		16.0	
WFB @ gage	WFB-J-13	6/10/03	17:32	ASLS	66898	ADEQ	9.00		7.00		16.0	
WFB @ gage	WFB-J-14	6/11/03	1:41	ASLS	66899	ADEQ	5		11		16.0	
WFB @ gage	WFB-J-15	6/11/03	7:32	ASLS	66900	ADEQ	6		5		11.0	
WFB @ gage	WFB-J-16	6/11/03	10:32	ASLS	66901	ADEQ	8			ND	8.0	
WFB @ gage	WFB-J-17	6/11/03	15:17	ASLS	66902	ADEQ	14			ND	14.0	
WFB @ gage	WFB-J-18	6/11/03	17:32	ASLS	66903	ADEQ	7			ND	7.0	

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
Detection limits: ACT Lab 0.1 mg/L, ASLS Lab 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
WFB @ gage	WFB-J-18	2/10/2004	13:02	ACT	BL03606	ADEQ		ND		ND	0.0	9.51
WFB @ gage	WFB-J-19	6/11/03	19:32	ASLS	66904	ADEQ	6			ND	6.0	
WFB @ gage	WFB-J-2	6/3/03	21:32	ASLS	66887	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-20	6/12/03	14:47	ASLS	66905	ADEQ	8			ND	8.0	
WFB @ gage	WFB-J-21	6/12/03	18:47	ASLS	66906	ADEQ	9			ND	9.0	
WFB @ gage	WFB-J-22	6/13/03	8:47	ASLS	66907	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-23	6/13/03	16:02	ASLS	66908	ADEQ	8			ND	8.0	
WFB @ gage	WFB-J-24	6/13/03	17:02	ASLS	66909	ADEQ	9			ND	9.0	
WFB @ gage	WFB-J-24	2/16/2004	11:02	ACT	BL03607	ADEQ		ND		ND	0.0	6.08
WFB @ gage	WFB-J-3	6/4/03	21:17	ASLS	66888	ADEQ	8			ND	8.0	
WFB @ gage	WFB-J-3	1/19/2004	13:03	ACT	BL03602	ADEQ	10.2		0.28		10.5	8.26
WFB @ gage	WFB-J-4	6/5/03	1:32	ASLS	66889	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-4	1/24/2004	11:33	ACT	BL03603	ADEQ		ND		ND	0.0	7.39
WFB @ gage	WFB-J-5	6/5/03	19:02	ASLS	66890	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-5	1/30/2004	10:48	ACT	BL03604	ADEQ	3.33			ND	3.3	11.25
WFB @ gage	WFB-J-6	6/6/03	15:37	ASLS	66891	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-J-6	1/30/2004	14:03	ACT	BL03605	ADEQ	7.32			ND	7.3	12.77
WFB @ gage	WFB-J-7	6/7/03	12:17	ASLS	66892	ADEQ	9			ND	9.0	
WFB @ gage	WFB-J-8	6/7/03	17:47	ASLS	66893	ADEQ	9			ND	9.0	
WFB @ gage	WFB-J-9	6/7/03	18:32	ASLS	66894	ADEQ	8			ND	8.0	
WFB @ gage	WFB-K-1	6/20/03	20:31	ASLS	68738	ADEQ	6			ND	6.0	0
WFB @ gage	WFB-K-10	6/25/03	6:31	ASLS	68747	ADEQ		ND		ND	0.0	0
WFB @ gage	WFB-K-11	6/25/03	15:46	ASLS	68748	ADEQ	6		5		11.0	0
WFB @ gage	WFB-K-12	6/25/03	18:46	ASLS	68749	ADEQ	8			ND	8.0	0
WFB @ gage	WFB-K-13	6/25/03	20:46	ASLS	68750	ADEQ	9		7		16.0	0
WFB @ gage	WFB-K-14	6/26/03	6:31	ASLS	68751	ADEQ	5			ND	5.0	0
WFB @ gage	WFB-K-15	6/26/03	16:01	ASLS	68752	ADEQ	6			ND	6.0	0
WFB @ gage	WFB-K-16	6/27/03	2:16	ASLS	68753	ADEQ	5		6		11.0	
WFB @ gage	WFB-K-17	6/27/03	4:46	ASLS	68754	ADEQ	6			ND	6.0	
WFB @ gage	WFB-K-18	6/27/03	5:31	ASLS	68755	ADEQ	7			ND	7.0	
WFB @ gage	WFB-K-19	6/27/03	20:01	ASLS	68756	ADEQ	6			ND	6.0	
WFB @ gage	WFB-K-2	6/21/03	20:16	ASLS	68739	ADEQ	8			ND	8.0	0
WFB @ gage	WFB-K-20	6/28/03	3:46	ASLS	68757	ADEQ	5			ND	5.0	
WFB @ gage	WFB-K-21	6/28/03	20:16	ASLS	68758	ADEQ	10			ND	10.0	
WFB @ gage	WFB-K-22	6/29/03	4:46	ASLS	68759	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-K-23	6/29/03	20:01	ASLS	68760	ADEQ	8			ND	8.0	
WFB @ gage	WFB-K-24	6/30/03	3:46	ASLS	68761	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-K-3	6/22/03	12:16	ASLS	68740	ADEQ	8		5		13.0	0
WFB @ gage	WFB-K-4	6/22/03	13:16	ASLS	68741	ADEQ	6			ND	6.0	0
WFB @ gage	WFB-K-5	6/22/03	17:31	ASLS	68742	ADEQ	7		10		17.0	0
WFB @ gage	WFB-K-6	6/23/03	0:46	ASLS	68743	ADEQ	6		5		11.0	0
WFB @ gage	WFB-K-7	6/23/03	10:16	ASLS	68744	ADEQ		ND		ND	0.0	0
WFB @ gage	WFB-K-8	6/23/03	17:46	ASLS	68745	ADEQ		ND	5		5.0	0
WFB @ gage	WFB-K-9	6/24/03	11:16	ASLS	68746	ADEQ	21		6		27.0	0
WFB @ gage	WFB-L-1	11/21/03	10:00	ASLS	68762	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-14	12/18/03	10:59	ASLS	68767	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-15	12/19/03	14:29	ASLS	68768	ADEQ		ND		ND	0.0	

Sediment Project-SSC and flow data, manual and autosampler collection at all sites, March 2002-October 2004
Detection limits: ACT Lab 0.1 mg/L, ASLS Lab 5.0 mg/L

Site_Name	OTHER_Site_ID	Sample Date	Sample_ Time	Lab_Name	Lab ID	Collecting _Agency	SSC Fine Result (mg/L)	SSC_fine_ Lab_note	SSC Coarse Result (mg/L)	SSC_Coarse_L ab Note	SSC Total	DISCHARGE RESULT (mg/L)
WFB @ gage	WFB-L-3	11/24/03	14:00	ASLS	68763	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-6	12/1/03	11:15	ASLS	68764	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-7	12/6/03	11:15	ASLS	68765	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-8	12/7/03	10:30	ASLS	68766	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-L-9	12/9/03	10:45	ASLS	68774	ADEQ		ND		ND	0.0	
WFB @ gage	WFB-NP-A	4/1/2002	10:30	ASLS	63318	ADEQ		ND		ND	0.0	6.59
WFB @ gage	WFB-NP-B	4/8/2002	14:00	ASLS	63443	ADEQ		ND		ND	0.0	7.28
Willow Cr abv FR26	WIL1	4/15/03	9:00	ACT	BK04918	ADEQ	0.18		0.64		0.8	6.74
Willow Cr abv FR26	WIL1	11/19/03	8:15	ASLS	68257	ADEQ		ND		ND	0.0	0.03
Willow Creek abv FR26	WIL1	3/23/2004	11:40	ACT	BL03600	ADEQ	1.2			ND	1.2	8.7

Appendix C: Autosampler remote data collection of Turbidity, flow, weather measurements and predicted Suspended Sediment Loads from Beaver Creek and West Fork Black River Gage Stations, 2001-2004

Beaver Creek, Autosampler data collection: Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

									Turb est. SSC	Sediment loads using Flow est. SSC				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Table) (cfs)	Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC (from Table) (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	DTS Water temp	Air Temp	Precip (inch)
2004	1	15	0.453	0.10	0.02	18.00	28	19.61	0.01	5.79	0.00000	-1.3	-1.251	0
2004	1	30	0.46	0.11	0.03	27.00	25	17.81	0.01	5.79	0.00000	-1.3	-1.345	0
2004	1	45	0.456	0.11	0.03	27.00	26	18.41	0.01	5.79	0.00000	-1.3	-1.224	0
2004	1	100	0.46	0.11	0.03	27.00	48	31.63	0.02	5.79	0.00000	-1.3	-1.298	0
2004	1	115	0.46	0.11	0.03	27.00	43	28.62	0.02	5.79	0.00000	-1.3	-1.242	0
2004	1	130	0.46	0.11	0.03	27.00	30	20.81	0.02	5.79	0.00000	-1.4	-1.523	0
2004	1	145	0.46	0.11	0.03	27.00	66	42.44	0.03	5.79	0.00000	-1.5	-1.635	0
2004	1	200	0.467	0.12	0.04	36.00	131	81.50	0.08	5.80	0.00001	-1.6	-1.589	0
2004	1	215	0.453	0.10	0.02	18.00	216	132.58	0.07	5.79	0.00000	-1.6	-1.579	0
2004	1	230	0.46	0.11	0.03	27.00	48	31.63	0.02	5.79	0.00000	-1.5	-1.505	0
2004	1	245	0.463	0.11	0.03	27.00	54	35.23	0.03	5.79	0.00000	-1.5	-1.467	0
2004	1	300	0.46	0.11	0.03	27.00	58	37.64	0.03	5.79	0.00000	-1.5	-1.561	0
2004	1	315	0.463	0.11	0.03	27.00	65	41.84	0.03	5.79	0.00000	-1.5	-1.645	0
2004	1	330	0.453	0.10	0.02	18.00	70	44.85	0.02	5.79	0.00000	-1.5	-1.626	0
2004	1	345	0.46	0.11	0.03	27.00	93	58.67	0.04	5.79	0.00000	-1.6	-1.953	0
2004	1	400	0.456	0.11	0.03	27.00	106	66.48	0.05	5.79	0.00000	-1.9	-2.113	0
2004	1	415	0.453	0.10	0.02	18.00	119	74.29	0.04	5.79	0.00000	-2	-2.132	0
2004	1	430	0.463	0.11	0.03	27.00	239	146.40	0.11	5.79	0.00000	-1.9	-2.104	0
2004	1	445	0.467	0.12	0.04	36.00	261	159.62	0.16	5.80	0.00001	-2.2	-2.508	0
2004	1	500	0.463	0.11	0.03	27.00	282	172.24	0.13	5.79	0.00000	-2.3	-2.442	0
2004	1	515	0.46	0.11	0.03	27.00	497	301.43	0.23	5.79	0.00000	-2.2	-2.366	0
2004	1	530	0.46	0.11	0.03	27.00	514	311.65	0.24	5.79	0.00000	-2	-2.142	0
2004	1	545	0.449	0.10	0.02	18.00	532	322.46	0.16	5.79	0.00000	-1.9	-1.993	0
2004	1	600	0.467	0.12	0.04	36.00	552	334.48	0.34	5.80	0.00001	-1.6	-0.552	0
2004	1	615	0.463	0.11	0.03	27.00	564	341.69	0.26	5.79	0.00000	-1.3	-0.664	0
2004	1	630	0.46	0.11	0.03	27.00	589	356.71	0.27	5.79	0.00000	-1.3	-0.617	0
2004	1	645	0.46	0.11	0.03	27.00	607	367.53	0.28	5.79	0.00000	-1.3	-0.598	0
2004	1	700	0.47	0.12	0.04	36.00	609	368.73	0.38	5.80	0.00001	-1.2	-0.626	0
2004	1	715	0.453	0.10	0.02	18.00	612	370.53	0.19	5.79	0.00000	-1.3	-0.701	0
2004	1	730	0.449	0.10	0.02	18.00	613	371.14	0.19	5.79	0.00000	-1.5	-0.663	0
2004	1	745	0.463	0.11	0.03	27.00	614	371.74	0.28	5.79	0.00000	-1.3	-0.466	0
2004	1	800	0.46	0.11	0.03	27.00	615	372.34	0.28	5.79	0.00000	-1	-0.317	0
2004	1	815	0.453	0.10	0.02	18.00	635	384.36	0.20	5.79	0.00000	-0.7	-0.176	0
2004	1	830	0.46	0.11	0.03	27.00	672	406.59	0.31	5.79	0.00000	-0.5	0.029	0
2004	1	845	0.453	0.10	0.02	18.00	721	436.03	0.22	5.79	0.00000	-0.2	0.441	0
2004	1	900	0.46	0.11	0.03	27.00	762	460.67	0.35	5.79	0.00000	0.2	0.638	0

Beaver Creek, Autosampler data collection: Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

									Turb est. SSC	Sediment loads using Flow est. SSC				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Table) (cfs)	Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC (from Table) (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	DTS Water temp	Air Temp	Precip (inch)
2004	1	915	0.467	0.12	0.04	36.00	966	583.25	0.59	5.80	0.00001	0.6	1.031	0
2004	1	930	0.463	0.11	0.03	27.00	820	495.52	0.38	5.79	0.00000	1.1	1.584	0
2004	1	945	0.449	0.10	0.02	18.00	818	494.32	0.25	5.79	0.00000	1.2	0.725	0
2004	1	1000	0.459	0.11	0.03	27.00	697	421.61	0.32	5.79	0.00000	1.3	1.475	0
2004	1	1015	0.451	0.10	0.02	18.00	690	417.40	0.21	5.79	0.00000	1.2	2.608	0
2004	1	1030	0.458	0.11	0.03	27.00	671	405.99	0.31	5.79	0.00000	1.2	2.563	0
2004	1	1045	0.465	0.12	0.04	36.00	643	389.16	0.40	5.80	0.00001	1.7	2.941	0
2004	1	1100	0.464	0.11	0.03	27.00	618	374.14	0.29	5.79	0.00000	2.2	2.999	0
2004	1	1115	0.46	0.11	0.03	27.00	595	360.32	0.28	5.79	0.00000	2.6	3.369	0
2004	1	1130	0.464	0.11	0.03	27.00	525	318.26	0.24	5.79	0.00000	3.2	2.969	0
2004	1	1145	0.471	0.12	0.04	36.00	438	265.98	0.27	5.80	0.00001	3.6	3.949	0
2004	1	1200	0.459	0.11	0.03	27.00	441	267.78	0.20	5.79	0.00000	3.8	4.386	0.01
2004	1	1215	0.473	0.12	0.04	36.00	361	219.71	0.22	5.80	0.00001	3.1	4.418	0
2004	1	1230	0.469	0.12	0.04	36.00	301	183.65	0.19	5.80	0.00001	3.4	3.324	0
2004	1	1245	0.457	0.11	0.03	27.00	109	68.28	0.05	5.79	0.00000	4.2	3.771	0
2004	1	1300	0.457	0.11	0.03	27.00	103	64.68	0.05	5.79	0.00000	4.1	4.187	0
2004	1	1315	0.475	0.13	0.05	45.00	80	50.86	0.06	5.80	0.00001	4.3	4.18	0
2004	1	1330	0.468	0.12	0.04	36.00	97	61.07	0.06	5.80	0.00001	4.2	4.331	0
2004	1	1345	0.468	0.12	0.04	36.00	237	145.20	0.15	5.80	0.00001	3.5	4.585	0
2004	1	1400	0.475	0.13	0.05	45.00	625	378.35	0.48	5.80	0.00001	3.2	5.15	0
2004	1	1415	0.475	0.13	0.05	45.00	878	530.37	0.68	5.80	0.00001	2.8	4.575	0
2004	1	1430	0.471	0.12	0.04	36.00	541	327.87	0.33	5.80	0.00001	2.5	4.905	0
2004	1	1445	0.464	0.11	0.03	27.00	314	191.47	0.15	5.79	0.00000	2.4	4.698	0
2004	1	1500	0.471	0.12	0.04	36.00	148	91.72	0.09	5.80	0.00001	2.5	4.934	0
2004	1	1515	0.486	0.14	0.06	54.00	170	104.94	0.16	5.80	0.00001	2.7	4.473	0
2004	1	1530	0.486	0.14	0.06	54.00	159	98.33	0.15	5.80	0.00001	2.7	4.963	0
2004	1	1545	0.475	0.13	0.05	45.00	201	123.56	0.16	5.80	0.00001	2.7	4.65	0
2004	1	1600	0.476	0.13	0.05	45.00	551	333.88	0.43	5.80	0.00001	2.5	4.335	0
2004	1	1615	0.469	0.12	0.04	36.00	476	288.81	0.29	5.80	0.00001	2.2	4.097	0
2004	1	1630	0.483	0.13	0.05	45.00	663	401.18	0.51	5.80	0.00001	1.8	3.866	0
2004	1	1645	0.487	0.14	0.06	54.00	993	599.48	0.92	5.80	0.00001	1.2	3.195	0
2004	1	1700	0.477	0.13	0.05	45.00	1677	1010.49	1.29	5.80	0.00001	0.4	2.507	0
2004	1	1715	0.485	0.14	0.06	54.00	1329	801.38	1.23	5.80	0.00001	-0.4	2.056	0
2004	1	1730	0.478	0.13	0.05	45.00	1131	682.40	0.87	5.80	0.00001	-1.2	0.957	0
2004	1	1745	0.474	0.12	0.04	36.00	922	556.81	0.57	5.80	0.00001	-1.9	1.609	0
2004	1	1800	0.46	0.11	0.03	27.00	729	440.84	0.34	5.79	0.00000	-1.8	1.737	0
2004	1	1815	0.475	0.13	0.05	45.00	659	398.78	0.51	5.80	0.00001	-1.6	1.211	0

Beaver Creek, Autosampler data collection: Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

									Turb est. SSC	Sediment loads using Flow est. SSC				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Table) (cfs)	Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC (from Table) (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	DTS Water temp	Air Temp	Precip (inch)
2004	1	1830	0.479	0.13	0.05	45.00	615	372.34	0.47	5.80	0.00001	-1.9	0.339	0
2004	1	1845	0.479	0.13	0.05	45.00	442	268.38	0.34	5.80	0.00001	-2.3	0.178	0
2004	1	1900	0.473	0.12	0.04	36.00	477	289.41	0.30	5.80	0.00001	-2.7	-1.085	0
2004	1	1915	0.48	0.13	0.05	45.00	522	2.78	0.00	5.80	0.00001	-3.2	-2.183	0
2004	1	1930	0.481	0.13	0.05	45.00	600	2.78	0.00	5.80	0.00001	-3.9	-2.888	0
2004	1	1945	0.484	0.13	0.05	45.00	548	2.78	0.00	5.80	0.00001	-4.6	-3.36	0
2004	1	2000	0.474	0.12	0.04	36.00	477	2.78	0.00	5.80	0.00001	-5.2	-3.861	0
2004	1	2015	0.467	0.12	0.04	36.00	431	2.78	0.00	5.80	0.00001	-5.7	-4.354	0
2004	1	2030	0.474	0.12	0.04	36.00	387	2.78	0.00	5.80	0.00001	-6	-4.346	0
2004	1	2045	0.463	0.11	0.03	27.00	343	2.78	0.00	5.79	0.00000	-6	-4.337	0
2004	1	2100	0.474	0.12	0.04	36.00	311	2.78	0.00	5.80	0.00001	-5.5	-3.45	0
2004	1	2115	0.47	0.12	0.04	36.00	296	2.78	0.00	5.80	0.00001	-4.8	-3	0
2004	1	2130	0.463	0.11	0.03	27.00	333	2.78	0.00	5.79	0.00000	-4.1	-2.596	0
2004	1	2145	0.46	0.11	0.03	27.00	321	2.78	0.00	5.79	0.00000	-3.6	-2.615	0
2004	1	2200	0.46	0.11	0.03	27.00	307	2.78	0.00	5.79	0.00000	-3.4	-2.624	0
2004	1	2215	0.463	0.11	0.03	27.00	298	2.78	0.00	5.79	0.00000	-3.2	-2.586	0
2004	1	2230	0.463	0.11	0.03	27.00	297	181.25	0.14	5.79	0.00000	-2.9	-2.258	0
2004	1	2245	0.46	0.11	0.03	27.00	304	185.46	0.14	5.79	0.00000	-2.7	-1.976	0
2004	1	2300	0.46	0.11	0.03	27.00	311	189.66	0.15	5.79	0.00000	-2.4	-1.854	0
2004	1	2315	0.467	0.12	0.04	36.00	314	191.47	0.20	5.80	0.00001	-2.2	-1.929	0
2004	1	2330	0.46	0.11	0.03	27.00	316	192.67	0.15	5.79	0.00000	-2.1	-2.088	0
2004	1	2345	0.467	0.12	0.04	36.00	323	196.87	0.20	5.80	0.00001	-2	-2.022	0
2004	1	2400	0.467	0.12	0.04	36.00	321	195.67	0.20	5.80	0.00001	-1.9	-1.882	0
2004	2	15	0.46	0.11	0.03	27.00	320	195.07	0.15	5.79	0.00000	-1.8	-1.797	0
2004	2	30	0.456	0.11	0.03	27.00	320	195.07	0.15	5.79	0.00000	-1.8	-1.927	0
2004	2	45	0.47	0.12	0.04	36.00	323	196.87	0.20	5.80	0.00001	-1.7	-1.834	0
2004	2	100	0.467	0.12	0.04	36.00	327	199.28	0.20	5.80	0.00001	-1.7	-1.777	0
2004	2	115	0.463	0.11	0.03	27.00	329	200.48	0.15	5.79	0.00000	-1.6	-1.609	0
2004	2	130	0.467	0.12	0.04	36.00	326	198.68	0.20	5.80	0.00001	-1.6	-1.384	0

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads	using estimated SSC							
									from SSC-turb regression	from SSC-flow regression		RAW LOGGER DATA					
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	282	15	0.367	0.79	8.26	7434.00	8	13.19	2.78	7.44	1.57	10.2	0	0	13.54	3.754
2003	282	30	0.365	0.79	8.26	7434.00	8	13.19	2.78	7.44	1.57	10.1	0	0	13.44	3.424
2003	282	45	0.364	0.78	7.97	7173.00	8	13.19	2.68	7.41	1.50	10	0	0.514	13.37	3.064
2003	282	100	0.364	0.78	7.97	7173.00	8	13.19	2.68	7.41	1.50	9.8	0	0	13.28	3.231
2003	282	115	0.362	0.78	7.97	7173.00	8	13.19	2.68	7.41	1.50	9.7	0	0.419	13.21	3.133
2003	282	130	0.351	0.77	7.97	7173.00	8	13.19	2.68	7.41	1.50	9.5	0	0.484	13.13	2.637
2003	282	145	0.359	0.78	7.97	7173.00	7	11.70	2.38	7.41	1.50	9.4	0	0	13.04	2.505
2003	282	200	0.347	0.77	7.97	7173.00	7	11.70	2.38	7.41	1.50	9.2	0	0	12.93	2.34
2003	282	215	0.353	0.77	7.97	7173.00	7	11.70	2.38	7.41	1.50	9.1	0	0	12.87	2.208
2003	282	230	0.354	0.77	7.97	7173.00	7	11.70	2.38	7.41	1.50	9	0	0.598	12.79	2.01
2003	282	245	0.353	0.77	7.97	7173.00	7	11.70	2.38	7.41	1.50	8.8	0	0.614	12.68	1.349
2003	282	300	0.354	0.77	7.97	7173.00	7	11.70	2.38	7.41	1.50	8.7	0	0	12.62	1.448
2003	282	315	0.353	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	8.6	0	0	12.53	1.713
2003	282	330	0.353	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	8.5	0	0.469	12.45	1.847
2003	282	345	0.341	0.76	7.68	6912.00	6	10.21	2.00	7.37	1.44	8.4	0	0	12.38	1.486
2003	282	400	0.349	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	8.3	0	0	12.29	1.487
2003	282	415	0.348	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	8.2	0	0	12.2	1.19
2003	282	430	0.348	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	8	0	0	12.14	1.025
2003	282	445	0.332	0.75	7.39	6651.00	6	10.21	1.92	7.34	1.38	7.9	0	0	12.05	0.893
2003	282	500	0.348	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	7.8	0	0	11.98	0.828
2003	282	515	0.348	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	7.7	0	0	11.9	0.663
2003	282	530	0.346	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	7.5	0	0.713	11.82	0.035
2003	282	545	0.346	0.77	7.97	7173.00	6	10.21	2.07	7.41	1.50	7.5	0	0	11.74	0.137
2003	282	600	0.342	0.76	7.68	6912.00	6	10.21	2.00	7.37	1.44	7.3	0	0	11.7	-0.093
2003	282	615	0.343	0.76	7.68	6912.00	6	10.21	2.00	7.37	1.44	7.3	0	0	11.62	-0.159
2003	282	630	0.342	0.76	7.68	6912.00	6	10.21	2.00	7.37	1.44	7.2	0	0	11.54	0.073
2003	282	645	0.341	0.76	7.68	6912.00	6	10.21	2.00	7.37	1.44	7.1	0	0.584	11.48	0.139
2003	282	700	0.337	0.76	7.68	6912.00	5	8.73	1.71	7.37	1.44	7.1	0	0.467	11.42	0.139
2003	282	715	0.334	0.75	7.39	6651.00	8	13.19	2.48	7.34	1.38	7.1	0	0.646	11.36	1.461
2003	282	730	0.336	0.76	7.68	6912.00	5	8.73	1.71	7.37	1.44	7.2	0	0	11.29	2.748
2003	282	745	0.334	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	7.3	0	0	11.24	3.172
2003	282	800	0.333	0.75	7.39	6651.00	6	10.21	1.92	7.34	1.38	7.3	0	0	11.19	3.863
2003	282	815	0.334	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	7.5	0	0.624	11.15	5.311
2003	282	830	0.335	0.76	7.68	6912.00	5	8.73	1.71	7.37	1.44	7.6	0	0	11.11	5.404
2003	282	845	0.335	0.76	7.68	6912.00	5	8.73	1.71	7.37	1.44	7.9	0	0	11.08	7.12
2003	282	900	0.335	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	8.1	0	1.084	11.06	8.17
2003	282	915	0.336	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	8.4	0	0.851	11.08	9.62
2003	282	930	0.335	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	9	0	1.132	11.15	12.39
2003	282	945	0.338	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	9.7	0	1.058	11.23	16.61
2003	282	1000	0.342	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	10.4	0	1.947	11.36	18.15
2003	282	1015	0.343	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	11	0	2.206	11.53	18.67
2003	282	1030	0.342	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	11.6	0	5.014	11.76	18.49
2003	282	1045	0.342	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	12	0	5.489	12.02	18.18

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads	using estimated SSC							
									from SSC-turb regression	from SSC-flow regression		RAW LOGGER DATA					
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	282	1100	0.341	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	12.5	0	6.558	12.27	18.38
2003	282	1115	0.34	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	12.9	0	5.256	12.5	17.38
2003	282	1130	0.339	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	13.3	0	3.37	12.72	18.04
2003	282	1145	0.338	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	13.7	0	2.459	12.93	18.41
2003	282	1200	0.338	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	14.3	0	4.211	13.1	18.34
2003	282	1215	0.337	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	14.6	0	3.855	13.26	18.11
2003	282	1230	0.336	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	15	0	3.694	13.41	18.64
2003	282	1245	0.336	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	15.5	0	3.124	13.56	18.7
2003	282	1300	0.335	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	15.8	0	1.205	13.69	19.76
2003	282	1315	0.335	0.76	7.68	6912.00	4	7.24	1.42	7.37	1.44	16.2	0	2.474	13.83	19.46
2003	282	1330	0.334	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.2	0	1.913	13.96	18.8
2003	282	1345	0.334	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.4	0	0.929	14.05	19.56
2003	282	1400	0.333	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.6	0	2.58	14.17	19.23
2003	282	1415	0.332	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.5	0	2.867	14.26	18.6
2003	282	1430	0.332	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.6	0	2.761	14.37	18.9
2003	282	1445	0.331	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.6	0	4.306	14.45	17.72
2003	282	1500	0.33	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	16.8	0	2.435	14.55	18.15
2003	282	1515	0.329	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	17	0	2.338	14.6	19.11
2003	282	1530	0.329	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	17	0	1.216	14.66	18.58
2003	282	1545	0.327	0.75	7.39	6651.00	4	7.24	1.36	7.34	1.38	17	0	1.499	14.72	17.92
2003	282	1600	0.327	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.8	0	1.743	14.77	17.33
2003	282	1615	0.325	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.6	0	0.583	14.79	17.13
2003	282	1630	0.325	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.4	0	0	14.82	16.25
2003	282	1645	0.326	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.3	0	0.461	14.84	15.3
2003	282	1700	0.325	0.75	7.39	6651.00	5	8.73	1.64	7.34	1.38	16.1	0	0	14.83	15.46
2003	282	1715	0.323	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	16	0	0.482	14.82	15.13
2003	282	1730	0.323	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	15.8	0	0	14.81	14.8
2003	282	1745	0.32	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	15.6	0	0	14.8	13.91
2003	282	1800	0.318	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	15.4	0	0.443	14.78	13.65
2003	282	1815	0.318	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	15.2	0	0.545	14.75	13.43
2003	282	1830	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	15	0	0.769	14.74	13
2003	282	1845	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	14.8	0	0	14.72	12.77
2003	282	1900	0.315	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	14.7	0	0	14.66	12.58
2003	282	1915	0.316	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	14.5	0	0	14.63	12.51
2003	282	1930	0.315	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	14.3	0	0	14.6	12.41
2003	282	1945	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	14.2	0	0.456	14.56	12.21
2003	282	2000	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	14	0	0	14.52	11.95
2003	282	2015	0.312	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.8	0	0.43	14.49	11.75
2003	282	2030	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.7	0	0	14.44	11.78
2003	282	2045	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.6	0	0.419	14.42	11.79
2003	282	2100	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.4	0	0	14.38	11.46
2003	282	2115	0.311	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.3	0	0	14.32	11.03
2003	282	2130	0.311	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13.1	0	0.86	14.29	10.31
2003	282	2145	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	13	0	0.679	14.24	10.05

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads from SSC-turb regression	using estimated SSC from SSC-flow regression		RAW LOGGER DATA				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	282	2200	0.308	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.9	0	0	14.2	9.95
2003	282	2215	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.8	0	0.843	14.15	9.59
2003	282	2230	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.7	0	0	14.1	9.72
2003	282	2245	0.308	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.7	0	0	14.04	9.98
2003	282	2300	0.307	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.6	0	0.709	13.99	10.05
2003	282	2315	0.301	0.72	6.59	5931.00	5	8.73	1.47	7.24	1.22	12.5	0	0	13.95	10.02
2003	282	2330	0.306	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.5	0.01	0	13.92	10.02
2003	282	2345	0.308	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.4	0.04	0	13.89	9.85
2003	282	2400	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.4	0.04	1.045	13.84	9.69
2003	283	15	0.308	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.3	0	0	13.8	9.82
2003	283	30	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.3	0.01	0.42	13.75	9.82
2003	283	45	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.2	0.01	0	13.72	10.02
2003	283	100	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.2	0	0	13.69	9.88
2003	283	115	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.1	0	0.497	13.66	9.75
2003	283	130	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.1	0	0.461	13.62	9.85
2003	283	145	0.309	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12	0	0	13.61	10.02
2003	283	200	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12	0	0	13.58	9.95
2003	283	215	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12	0.01	0	13.55	10.05
2003	283	230	0.311	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.9	0	0	13.53	10.05
2003	283	245	0.311	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.9	0	0	13.52	10.18
2003	283	300	0.311	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.8	0	0	13.49	10.05
2003	283	315	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.8	0	0	13.47	10.08
2003	283	330	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.8	0	0	13.46	10.08
2003	283	345	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.7	0	0	13.42	10.15
2003	283	400	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.7	0	0	13.41	10.12
2003	283	415	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.6	0	0	13.41	10.15
2003	283	430	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.6	0	0	13.38	10.15
2003	283	445	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.6	0	0	13.35	10.18
2003	283	500	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.5	0	0.853	13.34	10.02
2003	283	515	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.4	0	0.592	13.33	9.82
2003	283	530	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.3	0	0	13.32	9.19
2003	283	545	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.2	0	0	13.3	8.76
2003	283	600	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0.48	13.26	8.1
2003	283	615	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0.635	13.24	8.27
2003	283	630	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11	0	0	13.2	8.53
2003	283	645	0.311	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11	0	0.478	13.16	8.6
2003	283	700	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0	13.14	8.77
2003	283	715	0.307	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0.456	13.1	8.97
2003	283	730	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0	13.08	9.23
2003	283	745	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.2	0	1.343	13.08	8.86
2003	283	800	0.305	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.3	0	0.978	13.07	9.19
2003	283	815	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.5	0	0.622	13.07	10.02
2003	283	830	0.309	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	11.8	0	0.892	13.08	11.31
2003	283	845	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	12.1	0	0.639	13.11	12.39

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads	using estimated SSC							
									from SSC-turb regression	from SSC-flow regression		RAW LOGGER DATA					
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	283	900	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	12.4	0	0.514	13.15	13.3
2003	283	915	0.311	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	12.7	0	0.694	13.23	14.25
2003	283	930	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	13.1	0	1.747	13.34	14.93
2003	283	945	0.311	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	13.6	0	2.487	13.46	15.02
2003	283	1000	0.312	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	14.1	0	2.066	13.61	15.61
2003	283	1015	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	14.2	0	2.537	13.8	14.29
2003	283	1030	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	14.7	0	3.443	13.95	16
2003	283	1045	0.312	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	14.9	0	2.817	14.13	15.44
2003	283	1100	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	15.1	0	2.578	14.31	15.53
2003	283	1115	0.312	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	15.7	0	3.605	14.48	15.96
2003	283	1130	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	16.2	0	3.117	14.64	16.78
2003	283	1145	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	16.7	0	3.48	14.81	17.08
2003	283	1200	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	17.2	0	3.398	14.98	16.88
2003	283	1215	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	17.7	0	3.691	15.17	17.14
2003	283	1230	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	18	0	2.826	15.33	17.24
2003	283	1245	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	18.2	0	2.535	15.47	17.41
2003	283	1300	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	18.6	0	3.702	15.59	17.27
2003	283	1315	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	19	0	2.655	15.7	18.4
2003	283	1330	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	19.5	0	3.473	15.78	18.59
2003	283	1345	0.315	0.74	7.12	6408.00	4	7.24	1.31	7.31	1.33	20	0	3.612	15.87	18.3
2003	283	1400	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	20.4	0	3.631	15.97	19.06
2003	283	1415	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	20.7	0	2.791	16.05	19.29
2003	283	1430	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	20.8	0	3.553	16.17	18.96
2003	283	1445	0.314	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	20.7	0	2.362	16.26	17.8
2003	283	1500	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	20.9	0	3.903	16.33	18.43
2003	283	1515	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	20.9	0	3.284	16.4	18.76
2003	283	1530	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	20.7	0	3.359	16.45	17.54
2003	283	1545	0.313	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	20.5	0	3.558	16.46	18.46
2003	283	1600	0.313	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	20.3	0	2.17	16.48	18.99
2003	283	1615	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	20	0	3.4	16.48	17.91
2003	283	1630	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	19.7	0	3.232	16.48	17.58
2003	283	1645	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	19.2	0	1.68	16.45	15.8
2003	283	1700	0.318	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	18.8	0	1.898	16.4	15.27
2003	283	1715	0.319	0.74	7.12	6408.00	5	8.73	1.58	7.31	1.33	18.4	0	1.639	16.35	15.05
2003	283	1730	0.318	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	18	0	2.09	16.28	14.82
2003	283	1745	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	17.5	0	2.837	16.22	14.07
2003	283	1800	0.317	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	17.1	0	1.266	16.15	13.64
2003	283	1815	0.31	0.73	6.85	6165.00	6	10.21	1.78	7.28	1.27	16.6	0	0.978	16.12	12.79
2003	283	1830	0.313	0.73	6.85	6165.00	7	11.70	2.04	7.28	1.27	16.2	0	0.489	16.03	12.03
2003	283	1845	0.312	0.73	6.85	6165.00	7	11.70	2.04	7.28	1.27	15.9	0	0.57	15.96	11.61
2003	283	1900	0.313	0.73	6.85	6165.00	7	11.70	2.04	7.28	1.27	15.6	0	0	15.9	11.35
2003	283	1915	0.317	0.74	7.12	6408.00	8	13.19	2.39	7.31	1.33	15.3	0	0.855	15.8	10.79
2003	283	1930	0.315	0.74	7.12	6408.00	8	13.19	2.39	7.31	1.33	15	0	1.399	15.74	10.46
2003	283	1945	0.318	0.74	7.12	6408.00	8	13.19	2.39	7.31	1.33	14.7	0	0.652	15.67	9.87

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads from SSC-turb regression	using estimated SSC from SSC-flow regression		RAW LOGGER DATA				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	283	2000	0.317	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	14.5	0	0	15.58	9.7
2003	283	2015	0.318	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	14.2	0	0	15.5	9.38
2003	283	2030	0.316	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	13.9	0	0.67	15.4	8.62
2003	283	2045	0.315	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	13.6	0	1.039	15.34	7.93
2003	283	2100	0.315	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	13.4	0	0.551	15.23	7.7
2003	283	2115	0.316	0.74	7.12	6408.00	6	10.21	1.85	7.31	1.33	13.2	0	0.788	15.14	7.34
2003	283	2130	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.9	0	0.737	15.04	6.779
2003	283	2145	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.8	0	0	14.93	6.746
2003	283	2200	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.6	0	0	14.86	6.548
2003	283	2215	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.4	0	0	14.76	6.154
2003	283	2230	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.3	0	0.978	14.68	6.19
2003	283	2245	0.314	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	12.1	0	0.605	14.58	5.696
2003	283	2300	0.313	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.9	0	0	14.49	5.795
2003	283	2315	0.312	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.8	0	0.901	14.4	5.498
2003	283	2330	0.313	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.6	0	0	14.31	5.433
2003	283	2345	0.312	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.5	0	0	14.23	5.169
2003	283	2400	0.311	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	11.3	0	1.078	14.14	4.71
2003	284	15	0.311	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	0.676	14.05	4.414
2003	284	30	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	10.9	0	0	13.97	4.183
2003	284	45	0.31	0.73	6.85	6165.00	5	8.73	1.52	7.28	1.27	10.8	0	0	13.89	4.151
2003	284	100	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	10.6	0	0.441	13.8	4.018
2003	284	115	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	10.4	0	0	13.71	3.688
2003	284	130	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	10.3	0	0	13.63	3.589
2003	284	145	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	10.2	0	0	13.55	3.756
2003	284	200	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	10	0	0	13.48	3.792
2003	284	215	0.31	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	9.8	0	0.64	13.4	2.604
2003	284	230	0.309	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	9.7	0	0	13.33	2.836
2003	284	245	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	9.5	0	0.501	13.25	2.902
2003	284	300	0.308	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	9.4	0	0	13.17	2.869
2003	284	315	0.308	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	9.3	0	0	13.1	2.803
2003	284	330	0.302	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	9.1	0	0.543	13	2.307
2003	284	345	0.307	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.9	0	0.832	12.94	1.778
2003	284	400	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.8	0	0.424	12.86	1.811
2003	284	415	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.7	0	0	12.79	2.043
2003	284	430	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.6	0	0	12.72	1.943
2003	284	445	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.4	0	0.933	12.64	1.183
2003	284	500	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.3	0	0.471	12.58	1.284
2003	284	515	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.2	0	0.43	12.52	1.647
2003	284	530	0.306	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.1	0	0.484	12.44	1.549
2003	284	545	0.304	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	8	0	0	12.37	1.484
2003	284	600	0.305	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	7.8	0	0	12.3	1.255
2003	284	615	0.304	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	7.7	0	0.618	12.24	0.661
2003	284	630	0.304	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	7.6	0	0	12.17	0.661
2003	284	645	0.304	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	7.6	0	0	12.1	1.157

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads	using estimated SSC							
									from SSC-turb regression	from SSC-flow regression		RAW LOGGER DATA					
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	284	700	0.295	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	7.6	0	0	12.05	1.62
2003	284	715	0.295	0.72	6.59	5931.00	40	60.77	10.21	7.24	1.22	7.8	0	0.676	11.99	3.306
2003	284	730	0.295	0.72	6.59	5931.00	0	1.29	0.22	7.24	1.22	7.9	0	0.415	11.92	4.592
2003	284	745	0.295	0.72	6.59	5931.00	10	16.16	2.71	7.24	1.22	8.1	0	0.542	11.87	5.282
2003	284	800	0.295	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	8.3	0	0.806	11.81	6.43
2003	284	815	0.311	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	8.6	0	0.657	11.79	8.37
2003	284	830	0.311	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	8.9	0	0.42	11.74	11.13
2003	284	845	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	9.3	0	1.296	11.74	13.6
2003	284	900	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	9.7	0	2.675	11.78	15.07
2003	284	915	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	10.2	0	3.789	11.85	15.49
2003	284	930	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	10.7	0	1.881	11.96	16.67
2003	284	945	0.313	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	11.1	0	2.401	12.11	18.05
2003	284	1000	0.313	0.73	6.85	6165.00	4	7.24	1.26	7.28	1.27	11.1	0	2.014	12.31	16.49
2003	284	1015	0.309	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	11.1	0	1.125	12.49	15.4
2003	284	1030	0.308	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	11.4	0	1.432	12.64	17.09
2003	284	1045	0.308	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	11.7	0	1.952	12.76	17.62
2003	284	1100	0.307	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	12	0	1.863	12.87	17.09
2003	284	1115	0.306	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	12.4	0	1.348	12.97	18.02
2003	284	1130	0.305	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	12.8	0	2.541	13.06	17.85
2003	284	1145	0.305	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	13.4	0	2.127	13.15	19.44
2003	284	1200	0.305	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	13.4	0	2.994	13.24	18.28
2003	284	1215	0.306	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	13.7	0	0.994	13.4	19.04
2003	284	1230	0.305	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	14	0	1.557	13.51	18.88
2003	284	1245	0.305	0.73	6.85	6165.00	3	5.75	1.00	7.28	1.27	14.5	0	2.778	13.63	19.37
2003	284	1300	0.304	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	14.8	0	2.368	13.75	19.97
2003	284	1315	0.304	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	15.6	0	2.403	13.84	20.92
2003	284	1330	0.304	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	15.6	0	2.209	13.94	19.74
2003	284	1345	0.303	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	16.1	0	2.791	14.07	20.72
2003	284	1400	0.303	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	16.1	0	2.284	14.18	19.07
2003	284	1415	0.302	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	16.7	0	1.934	14.31	22.5
2003	284	1430	0.302	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	17.1	0	2.854	14.4	22.04
2003	284	1445	0.302	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	17.5	0	3.679	14.5	21.41
2003	284	1500	0.302	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	17.8	0	2.906	14.61	21.21
2003	284	1515	0.301	0.72	6.59	5931.00	3	5.75	0.97	7.24	1.22	18.1	0	2.686	14.71	21.11
2003	284	1530	0.301	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	18.3	0	3.611	14.82	20.94
2003	284	1545	0.299	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	18.3	0	4.742	14.89	20.81
2003	284	1600	0.3	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	18.3	0	4.164	14.99	21.27
2003	284	1615	0.3	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	18.3	0	1.656	15.06	21.47
2003	284	1630	0.299	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	18.2	0	0.996	15.11	20.15
2003	284	1645	0.299	0.72	6.59	5931.00	9	14.67	2.46	7.24	1.22	18	0	0.577	15.14	18.77
2003	284	1700	0.298	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	17.9	0	0.652	15.16	18.24
2003	284	1715	0.298	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	17.6	0	1.647	15.17	17.88
2003	284	1730	0.3	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	17.4	0	2.725	15.16	17.33
2003	284	1745	0.3	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	17.3	0	1.663	15.13	16.57

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads from SSC-turb regression	using estimated SSC from SSC-flow regression		RAW LOGGER DATA				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	284	1800	0.296	0.72	6.59	5931.00	4	7.24	1.22	7.24	1.22	17.1	0	0.842	15.12	15.72
2003	284	1815	0.291	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	16.9	0	0.549	15.1	15.53
2003	284	1830	0.291	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	16.7	0	0	15.08	14.7
2003	284	1845	0.288	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	16.4	0	0	15.03	14.37
2003	284	1900	0.294	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	16.1	0	0.465	15.02	13.88
2003	284	1915	0.293	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	15.8	0	1.08	14.98	12.6
2003	284	1930	0.293	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	15.5	0	1.06	14.93	11.94
2003	284	1945	0.291	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	15.2	0	1.123	14.9	11.62
2003	284	2000	0.286	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	14.9	0	0.486	14.86	11.12
2003	284	2015	0.288	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	14.6	0	0	14.81	10.63
2003	284	2030	0.29	0.71	6.33	5697.00	-8	1.29	0.21	7.21	1.16	14.4	0	0.512	14.76	9.97
2003	284	2045	0.289	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	14.1	0	0	14.71	9.57
2003	284	2100	0.289	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	13.8	0	0	14.62	8.95
2003	284	2115	0.285	0.71	6.33	5697.00	5	8.73	1.41	7.21	1.16	13.5	0	0	14.56	8.72
2003	284	2130	0.287	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	13.2	0	0	14.47	8.07
2003	284	2145	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	12.9	0	0	14.41	7.41
2003	284	2200	0.287	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	12.6	0	0.59	14.33	7.11
2003	284	2215	0.286	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	12.4	0	0.95	14.23	6.482
2003	284	2230	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	12.3	0	0	14.16	6.911
2003	284	2245	0.286	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	12.1	0	0	14.07	6.812
2003	284	2300	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	11.9	0	0	14.01	6.486
2003	284	2315	0.284	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	11.8	0	0	13.92	6.29
2003	284	2330	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	11.6	0	0	13.87	5.762
2003	284	2345	0.284	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	11.4	0	0	13.79	5.432
2003	284	2400	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	11.1	0	0	13.72	4.738
2003	285	15	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	11	0	0	13.65	4.87
2003	285	30	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	10.9	0	0	13.58	5.267
2003	285	45	0.284	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	10.8	0	0	13.51	5.535
2003	285	100	0.283	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	10.6	0	0	13.44	4.645
2003	285	115	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	10.5	0	0	13.38	4.514
2003	285	130	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	10.4	0	0	13.3	4.944
2003	285	145	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	10.4	0	0	13.25	5.175
2003	285	200	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	10.3	0	0	13.17	4.977
2003	285	215	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	10.1	0	0	13.1	4.944
2003	285	230	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	10	0	0	13.04	4.812
2003	285	245	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.9	0	0	12.98	4.613
2003	285	300	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.7	0	0	12.92	4.217
2003	285	315	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.5	0	0	12.85	3.524
2003	285	330	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.3	0	0	12.79	2.867
2003	285	345	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.2	0	0	12.72	3.232
2003	285	400	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9.2	0.01	0	12.65	3.398
2003	285	415	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	9	0	0	12.58	2.439
2003	285	430	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.9	0	0	12.52	2.77
2003	285	445	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.9	0	0	12.46	2.836

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Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	285	500	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.7	0	0	12.38	2.472
2003	285	515	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.5	0	0	12.33	2.175
2003	285	530	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.4	0	0	12.26	2.109
2003	285	545	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	8.2	0	0	12.2	1.91
2003	285	600	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	7.9	0	0	12.15	1.183
2003	285	615	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	7.8	0	0	12.07	1.481
2003	285	630	0.285	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	7.8	0	0	12.02	1.613
2003	285	645	0.284	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	7.7	0	0	11.96	1.747
2003	285	700	0.278	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	7.8	0	0	11.89	2.607
2003	285	715	0.279	0.70	6.08	5472.00	58	87.53	13.56	7.18	1.11	8.1	0	0	11.82	3.101
2003	285	730	0.276	0.70	6.08	5472.00	16	25.08	3.89	7.18	1.11	8.3	0	0	11.77	4.29
2003	285	745	0.275	0.70	6.08	5472.00	5	8.73	1.35	7.18	1.11	8.5	0	0	11.71	5.709
2003	285	800	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.7	0	0	11.68	7.02
2003	285	815	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.9	0	0	11.63	8.5
2003	285	830	0.276	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.2	0	0	11.6	10.37
2003	285	845	0.283	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.6	0	0.437	11.59	12.04
2003	285	900	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	10	0	0.516	11.63	13.29
2003	285	915	0.288	0.71	6.33	5697.00	2	4.27	0.69	7.21	1.16	10.5	0	0.484	11.7	15.03
2003	285	930	0.288	0.71	6.33	5697.00	2	4.27	0.69	7.21	1.16	10.9	0	0.801	11.81	15.42
2003	285	945	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	11.4	0	0.642	11.98	16.69
2003	285	1000	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	11.9	0	1.16	12.16	16.79
2003	285	1015	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	12.4	0	0.899	12.35	17.48
2003	285	1030	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	13	0	1.503	12.57	18.23
2003	285	1045	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	13.6	0	2.388	12.79	18.69
2003	285	1100	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	14.1	0	2.081	13.02	18.06
2003	285	1115	0.289	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	14.7	0	2.519	13.25	18.82
2003	285	1130	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	15.4	0	2.122	13.46	19.08
2003	285	1145	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	16.1	0	2.578	13.68	19.84
2003	285	1200	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	16.8	0	3.769	13.89	19.77
2003	285	1215	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	17.4	0	2.379	14.1	20.14
2003	285	1230	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	17.9	0	5.917	14.31	19.57
2003	285	1245	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.2	0	3.774	14.5	20.43
2003	285	1300	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.8	0	3.143	14.69	21.12
2003	285	1315	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.9	0	2.975	14.89	19.67
2003	285	1330	0.288	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	19	0	2.446	15.05	19.48
2003	285	1345	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	19	0	1.499	15.19	18.32
2003	285	1400	0.292	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	19	0	2.064	15.29	18.55
2003	285	1415	0.292	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	18.9	0	3.646	15.37	18.06
2003	285	1430	0.292	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.7	0	6.411	15.43	16.49
2003	285	1445	0.289	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.7	0	3.523	15.44	17.25
2003	285	1500	0.289	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	19.1	0	2.31	15.46	18.94
2003	285	1515	0.287	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.9	0	2.461	15.49	17.52
2003	285	1530	0.286	0.71	6.33	5697.00	3	5.75	0.93	7.21	1.16	18.6	0	1.989	15.51	17.13
2003	285	1545	0.285	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	18.6	0	2.083	15.51	18.95

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads	using estimated SSC							
									from SSC-turb regression	from SSC-flow regression		RAW LOGGER DATA					
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	285	1600	0.287	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	18.5	0	3.681	15.53	17.76
2003	285	1615	0.286	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	18.2	0	1.615	15.52	18.09
2003	285	1630	0.286	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	18	0	1.76	15.51	18.03
2003	285	1645	0.286	0.71	6.33	5697.00	4	7.24	1.17	7.21	1.16	17.9	0	2.616	15.48	18.06
2003	285	1700	0.284	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	17.7	0	3.26	15.46	16.77
2003	285	1715	0.282	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	17.4	0	1.268	15.41	15.85
2003	285	1730	0.283	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	17.1	0	1.224	15.39	14.34
2003	285	1745	0.28	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	16.9	0	1.33	15.36	13.91
2003	285	1800	0.265	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	16.6	0	0.609	15.33	13.02
2003	285	1815	0.269	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	16.4	0	0.497	15.27	12.39
2003	285	1830	0.272	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	16.1	0	0	15.22	11.9
2003	285	1845	0.267	0.69	5.84	5256.00	5	8.73	1.30	7.15	1.06	15.9	0	0.424	15.15	11.28
2003	285	1900		0.42	1.44	1296.00		1.29	0.05	6.63	0.24			0.564	15.09	10.33
2003	285	1915	0.277	0.70	6.08	5472.00	5	8.73	1.35	7.18	1.11	15.2	0	1.19	15.03	9.34
2003	285	1930	0.277	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	14.9	0	0	14.94	9.11
2003	285	1945	0.276	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	14.5	0	0	14.85	8.78
2003	285	2000	0.277	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	14.2	0	0	14.78	8.39
2003	285	2015	0.276	0.70	6.08	5472.00	4	7.24	1.12	7.18	1.11	13.9	0	0	14.68	8.1
2003	285	2030	0.273	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	13.6	0	0	14.6	7.83
2003	285	2045	0.272	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	13.3	0	0	14.5	7.57
2003	285	2100	0.271	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	13	0	0.415	14.42	7.01
2003	285	2115	0.271	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	12.7	0	0.758	14.33	6.25
2003	285	2130	0.271	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	12.4	0	0	14.24	6.25
2003	285	2145	0.268	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	12.2	0	0	14.14	5.957
2003	285	2200	0.273	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	11.9	0	1.11	14.06	5.167
2003	285	2215	0.273	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	11.7	0	0	13.98	5.399
2003	285	2230	0.271	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	11.5	0	0.56	13.88	5.168
2003	285	2245	0.272	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	11.3	0	0.51	13.8	4.64
2003	285	2300	0.273	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	11.1	0	0	13.71	4.971
2003	285	2315	0.272	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	10.9	0	0	13.62	4.777
2003	285	2330	0.273	0.69	5.84	5256.00	4	7.24	1.08	7.15	1.06	10.7	0	0	13.55	4.315
2003	285	2345	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	10.6	0	0	13.46	4.481
2003	285	2400	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	10.3	0	0.676	13.38	3.523
2003	286	15	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	10.1	0	0	13.3	3.589
2003	286	30	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	9.9	0	0.659	13.21	3.126
2003	286	45	0.275	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.8	0	0.426	13.14	2.998
2003	286	100	0.276	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.7	0	0.56	13.05	2.736
2003	286	115	0.276	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.5	0	0.767	12.97	2.373
2003	286	130	0.276	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.4	0	0	12.9	2.77
2003	286	145	0.276	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9.3	0	0	12.82	3.001
2003	286	200	0.275	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9	0	0.95	12.75	1.679
2003	286	215	0.275	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	8.8	0	0.75	12.68	1.745
2003	286	230	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.8	0	0	12.6	2.01
2003	286	245	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.6	0	0.461	12.54	1.811

West Fork Black River, Remote data collection:Turbidity, flow, weather measurements and predicted SSC Load for 2003-2004 Water Year

Study Period October 9, 2003 Thru October 8, 2004									Sediment loads from SSC-turb regression	using estimated SSC from SSC-flow regression		RAW LOGGER DATA				
Year	Day	Time	Raw Logger Stage	Post Proc. Stage (ft)	Est Q (From Stag-Q Table) (cfs)	Est Q thru 15 min interval (cf)	Raw DTS-12 Turb (NTU)	Est SSC from rating Table (mg/L)	Sed Load thru 15 min interval (Kg)	Est SSC from rating table (mg/L)	Sed Load thru 15min interval (kg)	dts Water Temp (deg C)	Precip (inch)	WS_mph	soil_TC	air_TC
2003	286	300	0.261	0.68	5.61	5049.00	3	5.75	0.82	7.13	1.02	8.4	0	0.452	12.47	1.349
2003	286	315	0.272	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.3	0	0	12.39	1.382
2003	286	330	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.3	0	0	12.3	1.679
2003	286	345	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.1	0	0	12.23	1.844
2003	286	400	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8	0	0.417	12.17	1.713
2003	286	415	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.8	0	0	12.1	1.188
2003	286	430	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.6	0	0.437	12.04	0.956
2003	286	445	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.4	0	1.125	11.98	0.627
2003	286	500	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.5	0	0	11.91	0.859
2003	286	515	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.3	0	0	11.84	1.058
2003	286	530	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	7.1	0	0	11.78	1.025
2003	286	545	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.8	0	0.924	11.72	0.099
2003	286	600	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.7	0	0.422	11.66	0.099
2003	286	615	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.7	0	0	11.59	0.364
2003	286	630	0.274	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.6	0	0	11.52	0.2
2003	286	645	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.7	0	0	11.46	0.466
2003	286	700	0.265	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	6.6	0	0	11.4	0.666
2003	286	715	0.266	0.69	5.84	5256.00	126	188.64	28.08	7.15	1.06	7.3	0	0.726	11.34	1.361
2003	286	730	0.265	0.69	5.84	5256.00	23	35.49	5.28	7.15	1.06	7.6	0	0.603	11.28	2.878
2003	286	745	0.264	0.68	5.61	5049.00	7	11.70	1.67	7.13	1.02	7.8	0	0.422	11.23	4.393
2003	286	800	0.264	0.68	5.61	5049.00	3	5.75	0.82	7.13	1.02	8	0	0.525	11.18	6.07
2003	286	815	0.269	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.3	0	0	11.12	7.68
2003	286	830	0.273	0.69	5.84	5256.00	3	5.75	0.86	7.15	1.06	8.6	0	0.62	11.1	9.48
2003	286	845	0.277	0.70	6.08	5472.00	3	5.75	0.89	7.18	1.11	9	0	1.147	11.09	10.76
2003	286	900	0.279	0.70	6.08	5472.00	2	4.27	0.66	7.18	1.11	9.4	0	0.985	11.13	12.66