Year 3 Monitoring Report for Stream Restoration of Bailey Fork

Burke County, NC SCO # D04006-02



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Submitted: November 2008

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I. EXECUTIVE SUMMARY

The Bailey Fork stream restoration project is located near Morganton in Burke County, North Carolina. Prior to restoration, the streambanks were denuded, actively eroding, and had a nearly vertical profiles. Vegetative cover was minimal along the stream. The project goal for the restoration, completed during early 2006, was to modify the dimension, pattern, and profile of the existing stream channels to stable and self-maintaining conditions by utilizing natural channel design techniques and procedures. Elements of the restoration design included improved bedform features, enhanced aquatic habitat diversity, establishment of riffle-pool sequences, in-stream grade control structures, rootwad bank stabilization, and establishment of a native forested riparian plant community. The following report documents the Year 3 Annual Monitoring for the project.

Monitoring of the vegetation was completed in September 2008 following the Carolina Vegetation Survey methodology. Stem counts completed in 10 vegetation plots show an average density of 373 stems per acre for the site, which meets the success criteria of 320 stems/acre after three years of monitoring. Four individual plots have stem densities below the minimum; these plots include one previously impacted by stream maintenance work, one previously infringed upon by pasture mowing, and one covered by the invasive *Sericea lespedeza*. Despite this, stem counts for Year 3 represent a net gain of 10 stems over the previous year, due to remedial plantings conducted in the spring of 2008. Further plantings will only be conducted as necessary to continue to maintain the required stem counts.

It is likely that the spread of *Sericea lespedeza* throughout much of the project corridor is hindering the growth and survival of woody vegetation. This species is a common component of pasture mixes and likely spread into the project area from the surrounding pasture lands. Management in 2008 included herbicide treatments, with spraying focused on targeted planted areas to minimize the impact of the invasive on woody survival. This spraying had minimal negative effect on the spread of this species. In addition, a very minor population of kudzu (*Pueraria montana*) was identified. Both species will be closely monitored, with further spraying conducted as deemed necessary to enhance survival of the planted species.

Previous monitoring of stream geomorphology identified some problem areas associated with channel stability. In Year 1, areas of streambank erosion, typically along outer meander bends, resulted in bank scour and/or bank failure at some locations. The banks at these locations were repaired and stabilized during Year 2, with extensive vegetation development contributing to streambank stability. Additionally, problem structures noted in previous monitoring years are not problem areas in Year 3, as project reaches have remained stable through the monitoring period, and show overall evidence the reaches are maintaining profile equilibrium. The indicators supporting this observation are parallel bankfull, water surface and channel slopes shown and noted on the longitudinal profiles. A few minor problem areas are noted in Year 3, but are limited to an isolated area of aggradation (mid-channel bar at profile station 1+75 on Lower Bailey Fork) and minimal bank scour (left bank at profile station 3+50 on Upper Bailey Fork) as summarized in Table Xc.

Bedform features continue to evolve along the restored reaches as shown on the long-term longitudinal profiles and monumented cross-sections. Riffle lengths and slopes are stable. Pool to pool spacings are representative of reference reach conditions, adjusted for drainage area and bankfull width. The pools have developed excellent glide features, with well sorted fine to medium gravels, providing good spawning habitat for native fishes. Riffle substrate compositions are conducive for benthic macro-invertebrate populations to re-emerge. Of interest is the change (median decrease) in pool to pool spacings from As-Built conditions to Year 3 as shown on the long-term monitoring profiles, and in tabular format on Table XII for each project reach. These

bedform adjustments represent an increase in channel stability. Comparison of As-Built, Year 1, Year 2 and Year 3 long-term stream monitoring data show successive increases in channel-floodplain connectivity and increasingly stable channel dimensions, interpreted from width/depth ratios, entrenchment ratios, and bank height ratios, as shown on the long-term monitoring profiles and cross-sections. The median bankfull dimensions, pattern, profile and substrate measurements presented in Table XII for each project reach, show transitions toward increased channel stability based upon bedform features, cross-section geometry, and planiform features. With channel geomorphologic data trends showing continual transition in increased stability, remedial stream maintenance work is not warranted at this time.

Pool substrate remains stable, with median particle sizes ranging from fine to coarse sand based on Year 3 substrate analysis. Constructed riffles remain stable, with a median particle sizes ranging from very coarse gravel to large cobble, with one anomaly from particle distributions collected at Riffle Cross-Section 5. Using the Year 3 particle distribution collected along this feature alone would indicate a Rosgen stream type substrate shift from C4 (coarse gravel) to a C3 (small to large cobble) dominated stream type (D50 = 110.1 mm; D84 = 163.8 mm). Sample interference is suspected due to the contribution of cobble-sized material introduced during construction of the cross-vane step structure at the sample location. Random substrate sample distributions collected at this location (with the exception of Year 0 "As-Built" sample) show C3. small to large cobble substrate composition. It is well documented, based on reference reach boundary conditions, pre-existing site substrate composition, and substrate readily available to the stream from the contribution drainage area, Upper Bailey Fork is a sand and gravel substrate system. To approximate a reach (Wolman, 1954) particle distribution, characteristic of Upper Bailey Fork, substrate particle distributions from Riffle Cross-Section 5 and Pool Cross-Section 7 were combined (n = 118 measurements). The D50 and D84 particle size for the approximated reach substrate particle distribution is 32.0 mm (coarse gravel) and 139.3 mm (large cobble), respectively, with fine to coarse sand comprising 37.3 percent of the sample composition. Based on Year 3 median pool lengths and spacings, the 800 l.f. long-term monitoring reach is 73.5 percent pools and glides and 26.5 riffles and runs. As a result, the combination of one pool and one riffle particle distribution will statistically skew (over-estimate) reach D50 and D84 median particle size distributions.

II. PROJECT BACKGROUND

A. Location and Setting

The project site is located approximately 2 miles southwest of Morganton, Burke County, North Carolina. The site is located 1.7 miles southwest of the I-40/US 64 interchange, as shown in Figure 1. The stream channels included in this project are the mainstem of Bailey Fork, and two unnamed tributaries to Bailey Fork, designated as UT1 and UT2. The project reach along the mainstem includes a portion upstream of Propst Road (hereafter referred to as Upper) and a portion downstream of that road (hereafter referred to as Lower).

The directions to the project site are as follows:

From I-40, take US 64 south to Propst Road (SR 1112) and turn right. The project site is located on the north and south sides of Propst Road approximately 1,800 feet from the Propst Road and US 64 intersection.

B. Project Structure, Mitigation Type, Approach and Objectives

The primary, pre-existing land use within the immediate project site was agricultural. Based on photographic interpretation, the site has been historically utilized for agricultural row crop production and hayland. It is very likely the project site has been farmed since the Civil War era. The site was degraded by past land management practices including mechanical land clearing, straightening and dredging the stream channels. The project site was most recently utilized to produce hay for livestock feed. The stream banks were denuded, actively eroding, with vertical to undercut streambanks. Vegetative cover was minimal along the stream corridor, resulting in streambank erosion and lateral channel migration. The channels were deeply incised state and laterally confined. Prior to restoration, the floodplain was functioning as an abandoned terrace perched above the bankfull elevation.

The project restoration goal was to restore channel dimension, pattern, and profile to stable and self-maintaining conditions utilizing natural channel design techniques and procedures. Physical restoration and water quality improvements were accomplished by meeting the restoration goals and objectives below:

- Design channels with the appropriate cross-sectional dimension, pattern, and longitudinal profile based on reference reach boundary conditions.
- Improve and create bedform and aquatic habitat features (riffles, runs, pools, and glides)
- Integrate, in conjunction with the stream restoration, a nested floodplain (bankfull bench) connected to the bankfull channel elevation (Priority Level II restoration) or raise the bed elevation of the stream reconnecting the bankfull elevation to the existing floodplain elevation (Priority Level I restoration).
- Restore channel and streambank stability by integrating in-stream grade control structures, root wads, and native revetment while also creating stable and functional aquatic and terrestrial habitat.
- Establish a native forested riparian plant community within a minimum 30-feet buffer, measured horizontally from the left and right top of bank. Eradicate exotic vegetation and protect the riparian corridor with a perpetual conservation easement.
- Provide aesthetic and educational opportunities.



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BAILEY FORK STREAM RESTORATION

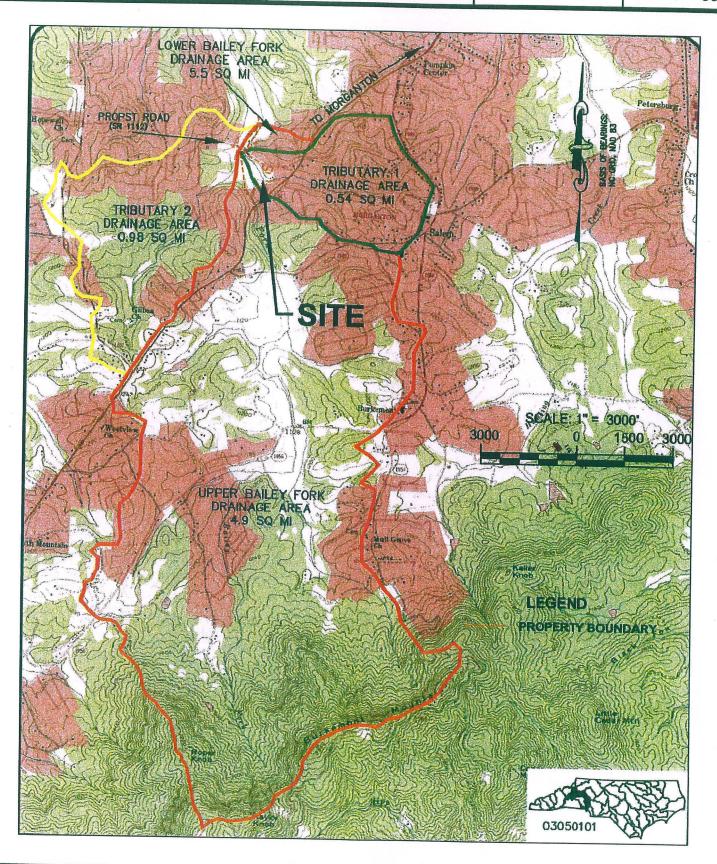
FIGURE 1: SITE VICINITY MAP
N.C. ECOSYSTEM ENHANCEMENT PROGRAM

Date:

December, 2006

Job No. 2006-1626

Scale: 1" = 3000'



Restoration of the streams has met the objective of the project along both the mainstem of Thompsons Fork and the UT, providing the desired habitat and stability features required to improve and enhance the ecologic health of the streams for the long-term. Specifically, the completed restoration project has accomplished the items listed below.

Upper Bailey Fork:

- Reversed the effects of channelization using Priority Level II restoration techniques. The restoration has increased the median width/depth ratios from 7.59 to 12.80 after construction completion and 3 years of monitoring.
- Restored natural stream pattern, profile and dimension throughout the 1,543 1.f. stream reach, increasing channel sinuosity from 1.1 to 1.3, while creating a more stable relationship between the valley and bankfull slopes (the bankfull slope was greater than the valley slope under pre-existing conditions; the bankfull slope is now less than the valley slope).
- Stabilized eroding streambanks by providing an appropriately sized channel with stable streambank slopes using a combination of embedded stone, natural fabrics and aggressive native streamside and riparian revetment. The average Bank Height Ratio has been decreased from 1.95 (deeply incised) to 1.09 (stable) in Year 3.
- Provided a re-connection between the restored stream channel and a nested floodplain (bankfull bench) connected to the bankfull channel elevation (Priority Level II restoration). The completed restoration changed the average entrenchment ratio from <1.4 to 3.22, and restored the pre-existing unstable, incised and entrenched G4/F4 stream channel to a stable C4 stream type (Rosgen, 1994).
- Created instream aquatic habitat features including deep pools, rootwad streamside fish cover and streambank stabilization, constructed riffles, rock cross vanes and J-Hook vanes with deep pools and native streamside revetment to enhance outer meander bend stability, shade the pools, provide fish cover and lower water temperature to transition the channel thalweg of the restored stream to meet the culvert invert elevations at the three 7.5 ft x 10.8 ft oval corrugated metal pipes (CMP) on the south side of Propst Road.
- Revegetated the streambanks and riparian corridor with indigenous trees, shrubs, herbaceous ground cover and preserved the riparian corridors within a perpetual conservation easement.

Lower Bailey Fork:

- Reversed the effects of channelization using Priority Level II restoration techniques. The restoration has increased the median width/depth ratios from 7.83 to 12.75 after construction completion and 3 years of monitoring.
- Restored natural stream pattern, profile and dimension throughout the 1,170 l.f. stream reach, increasing channel sinuosity from 1.1 to 1.3, while creating a more stable relationship between the valley and bankfull slopes (again, the bankfull slope was greater than the valley slope under pre-existing conditions; the bankfull slope is now less than the valley slope).
- Stabilized eroding streambanks by constructing an appropriately sized channel with stable streambank slopes using a combination of embedded stone, natural fabrics and aggressive native streamside and riparian revetment. The average Bank Height Ratio has been decreased from 1.95 (deeply incised) to 1.00 (stable).
- Provided a re-connection between the restored stream channel and a nested floodplain (bankfull bench) connected to the bankfull channel elevation (Priority Level II restoration). The completed restoration changed the average entrenchment ratio from <1.4 to 3.17, and restored the pre-existing unstable, incised and entrenched G4/F4 stream channel to a stable C4 stream type.

- Created instream aquatic habitat features including deep pools, rootwad streamside
 fish cover and streambank stabilization, constructed riffles, single arm log vanes,
 rock cross vanes and J-Hook vanes with deep scour pools and native streamside
 revetment to enhance outer meander bend stability, shade the pools, provide fish
 cover and lower water temperature.
- Revegetated the streambanks and riparian corridor with indigenous trees, shrubs, herbaceous ground cover and preserved the riparian corridors within a perpetual conservation easement.

Unnamed Tributary (UT-1):

- Reversed the effects of channelization utilizing natural channel design restoration techniques. The average width/depth ratio of the restored stream channel was increased from 5.40 to 17.08.
- Restored natural stream pattern, profile and dimension throughout the 1,758 l.f. stream reach, increasing channel sinuosity from 1.1 to 1.4, and providing a more stable relationship between the valley and bankfull slopes (the bankfull and valley slopes were essentially parallel under pre-existing condition. The bankfull slope is substantially less than the valley slope).
- Stabilized eroding streambanks by providing an appropriately sized channel with stable streambank slopes. The average Bank Height Ratio has been changed from 2.10 (extremely incised) to 1.01 (stable).
- Raised the streambed elevation reconnecting the bankfull elevation to the existing floodplain elevation (Priority Level I restoration).
- The completed restoration changed the average entrenchment ratio from 3.4 to 5.9.
- Created instream aquatic habitat features including deep pools, rootwad streamside
 fish cover and streambank stabilization, constructed riffles, rock sills, step cross
 vanes and J-Hook vanes with deep scour pools and native streamside revetment to
 enhance outer meander bend stability, shade the pools, provide fish cover and lower
 water temperature.
- Revegetated the streambanks and riparian corridor with indigenous trees, shrubs, herbaceous ground cover and preserved the riparian corridors within a perpetual conservation easement.

Unnamed Tributary (UT-2):

- Reversed the effects of channelization utilizing natural channel design restoration techniques. The average width/depth ratio of the restored stream channel was increased from 3.42 to 16.78.
- Restored natural stream pattern, profile and dimension throughout the 1,271 l.f. stream reach, increasing channel sinuosity from 1.1 to 1.4, and providing a more stable relationship between the valley and bankfull slopes (the bankfull slope was greater than the valley slope under pre-existing conditions; the bankfull slope is now less than the valley slope).
- Stabilized eroding streambanks by providing an appropriately sized channel with stable streambank slopes. The average Bank Height Ratio is 1.01 (stable) post-restoration and after 3 years of monitoring.
- Raised the streambed elevation reconnecting the bankfull elevation to the existing floodplain elevation (Priority Level I restoration).
- The completed restoration changed the average entrenchment ratio from <1.4 to 4.75.
- Created instream aquatic habitat features including deep pools, streambank stabilization, constructed riffles, rock sills, log sills, rock cross vanes and J-Hook vanes with deep scour pools and native streamside revetment to enhance outer

- meander bend stability, shade the pools, provide fish cover and lower water temperature.
- Revegetated the streambanks and riparian corridor with indigenous trees, shrubs, herbaceous ground cover and preserved the riparian corridors within a perpetual conservation easement.

Information on the project structure and objectives is included in Tables I and II.

Table I. Project Structure Table Bailey Fork Stream Restoration / EEP Project No. D04006-02						
Project Segment/Reach ID	Linear Footage or Acreage					
Upper	1,543.0 lf					
Lower	1,170.4 lf					
UT1	1,758.1 lf					
UT2	1,271.0 lf					
TOTAL	5,742.5 lf					

Table II. Project Mitigation Objectives Table Bailey Fork Stream Restoration / EEP Project No. D04006-02								
Project Segment/ Reach ID	Mitigation Type	Approach	Linear Footage or Acreage	Comment				
Upper	Restoration	Priority 2	1,543.0 lf	Restore dimension, pattern, and profile				
Lower	Restoration	Priority 2	1,170.4 lf	Restore dimension, pattern, and profile				
UT1	Restoration	Priority 1	1,758.1 lf	Restore dimension, pattern, and profile				
UT2	Restoration	Priority 1	1,271.0 lf	Restore dimension, pattern, and profile				
	TOTAL			5,742.5 If				

C. Project History and Background

Project activity and reporting history are provided in Table III. The project contact information is provided in Table IV. The project background history is provided in Table V.

Table III. Project Activity and Reporting History Bailey Fork Stream Restoration / EEP Project No. D04006-02

Activity or Report	Scheduled Completion	Data Collection Complete	Actual Completion or Delivery
Restoration plan	Jan 2005	Oct 2004	Mar 2005
Final Design - 90%1	Jan 2005	N/A	Mar 2005
Construction	Aug 2005	N/A	Sep 2005
Temporary S&E applied to entire project area ²	Feb 2005	N/A	Feb 2005
Permanent plantings	Mar 2006	N/A	Mar 2006
Mitigation plan/As-built	Dec 2005	May 2006	Aug 2006
Year 1 monitoring	2006	Sep 2006 (vegetation) Apr 2007 (geomorphology)	May 2007
Remedial Stream Maintenance*	Aug 2007	N/A	Aug 2007
Year 2 monitoring	2007	Sep 2007 (vegetation) Oct 2007 (geomorphology)	Jan 2008
Year 3 monitoring	2008	Sep 2008 (vegetation) Oct 2008 (geomorphology)	Nov 2008
Year 4 monitoring	2009		
Year 5 monitoring	2010		

Full-delivery project; 90% submittal not provided.

N/A: Data collection is not an applicable task to these project activities.

^{*}Remedial Maintenance involved efforts to repair the degraded reaches of the channel along Upper and Lower Bailey Fork, improving channel bank stability by creating a more stable bank slope, as shown on the August 2007 maintenance plan sheet.

Table IV. Project Contact Table Bailey Fork Stream Restoration / EEP Project No. D04006-02						
Natural Systems Engineering* 3719 Benson Drive , Raleigh, NC 27609						
Natural Systems Engineering* 3719 Benson Drive, Raleigh, NC 27609						
EMH&T, Inc. 5500 New Albany Road, Columbus, OH 43054						
Warren E. Knotts, P.G., EMH&T						
Holly Blunck, EMH&T Jim Halley at The John R. McAdams Company, Inc 2905 Meridian Parkway, Durham, NC 27713						

²Erosion and sediment control applied incrementally throughout the course of the project.

Table V. Project Background Table Bailey Fork Stream Restoration / EEP Project No. D04006-02

Project County	Burke
Drainage Area-Upper	4.9 sq mi
Drainage Area-Lower	5.5 sq mi
Drainage Area-UT1	0.55 sq mi
Drainage Area-UT2	0.98 sq mi
Drainage Impervious Cover Estimate	10%
Stream Order	2nd
Physiographic Region	Inner Piedmont
Ecoregion	Northern Inner Piedmont
Rosgen Classification of As-built	E/C type
Dominant Soil Types	Colvard sandy loam
	Sal's Branch, Whites
N	Creek, S. Muddy Birchfield,
Reference Site ID	S. Muddy Tributary 4
USGS HUC for Project and Reference	03050101
NCDWQ Sub-basin for Project and Reference	03-08-31
NCDWQ Classification for Project and Reference	С
Any portion of any project segment 303d listed?	No
Any portion of any project segment upstream of a	
303d listed segment?	No
Reason for 303d listing or stressor	N/A
% of project easement fenced	20%

^{*}Data for Table V was derived from information from reports produced by Natural Systems Engineering.

D. Monitoring Plan View

The monitoring plan view is included as Figure 2. The information shown in Figure 2 is derived entirely from the As-Built stream plan provided with the approved Mitigation Plan report. Instream structures shown on the plan view have been verified by the stream restoration designer/contractor based on field reconnaissance. The monitoring plan view also depicts the locations of each monumented cross-section, vegetation plot, crest gage and photo point that are part of the five year monitoring effort for this project.



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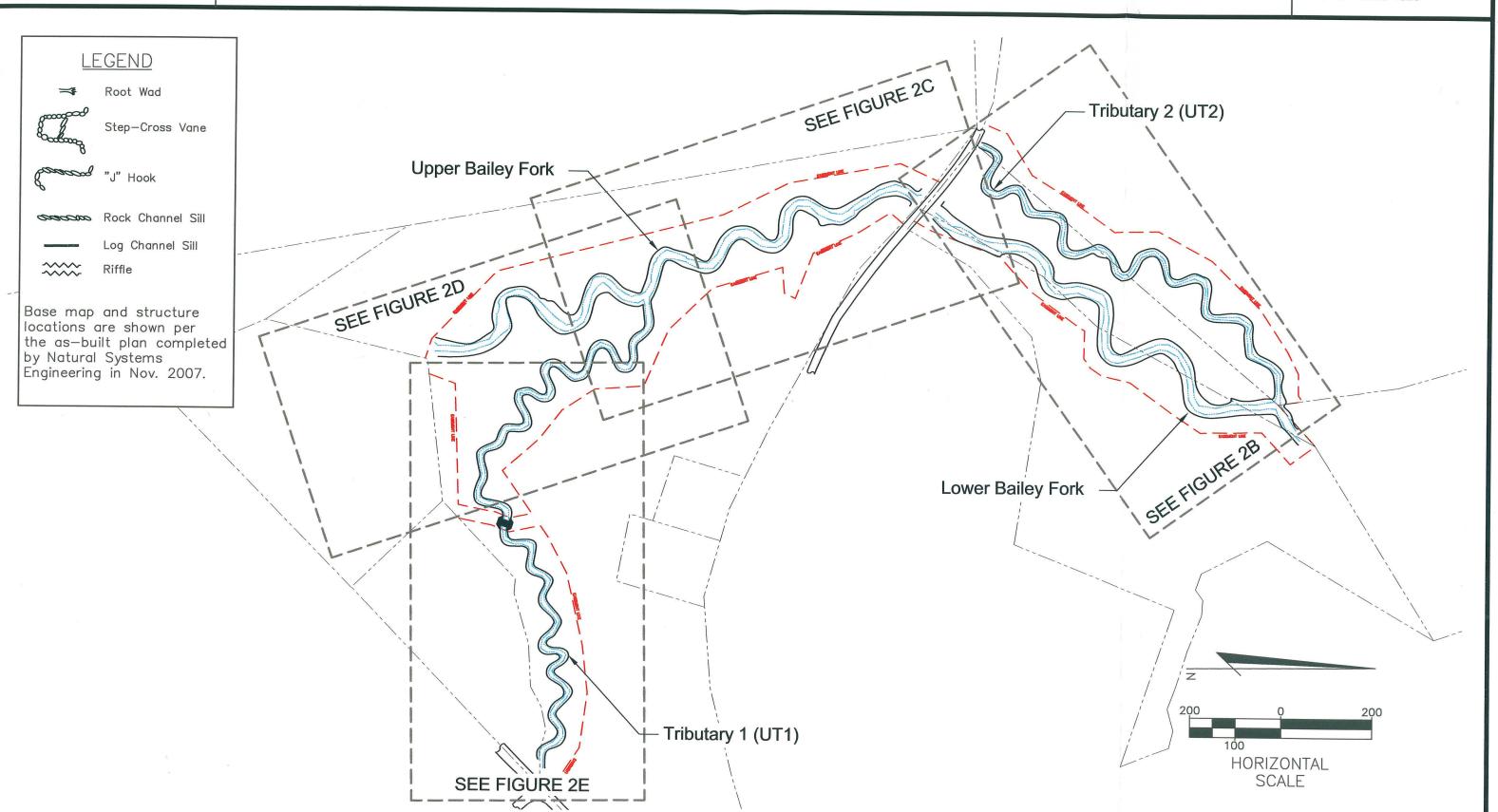
BAILEY FORK STREAM RESTORATION

FIGURE 2A - INDEX MAP

N.C. ECOSYSTEM ENHANCEMENT PROGRAM

Date: December, 2007

Scale: 1" = 60'





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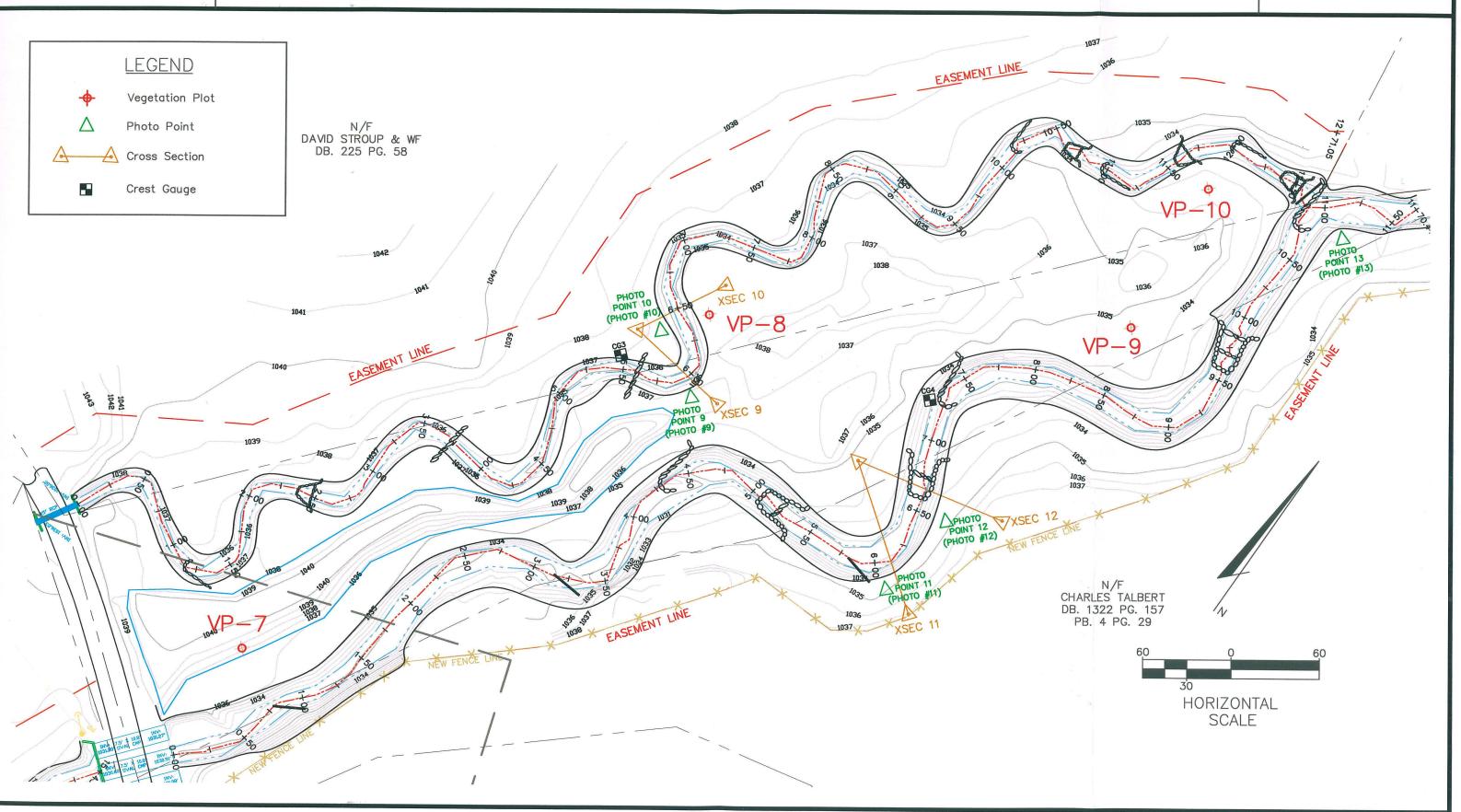
BAILEY FORK STREAM RESTORATION

FIGURE 2B

N.C. ECOSYSTEM ENHANCEMENT PROGRAM

Date: December, 2007

Scale: 1" = 60'





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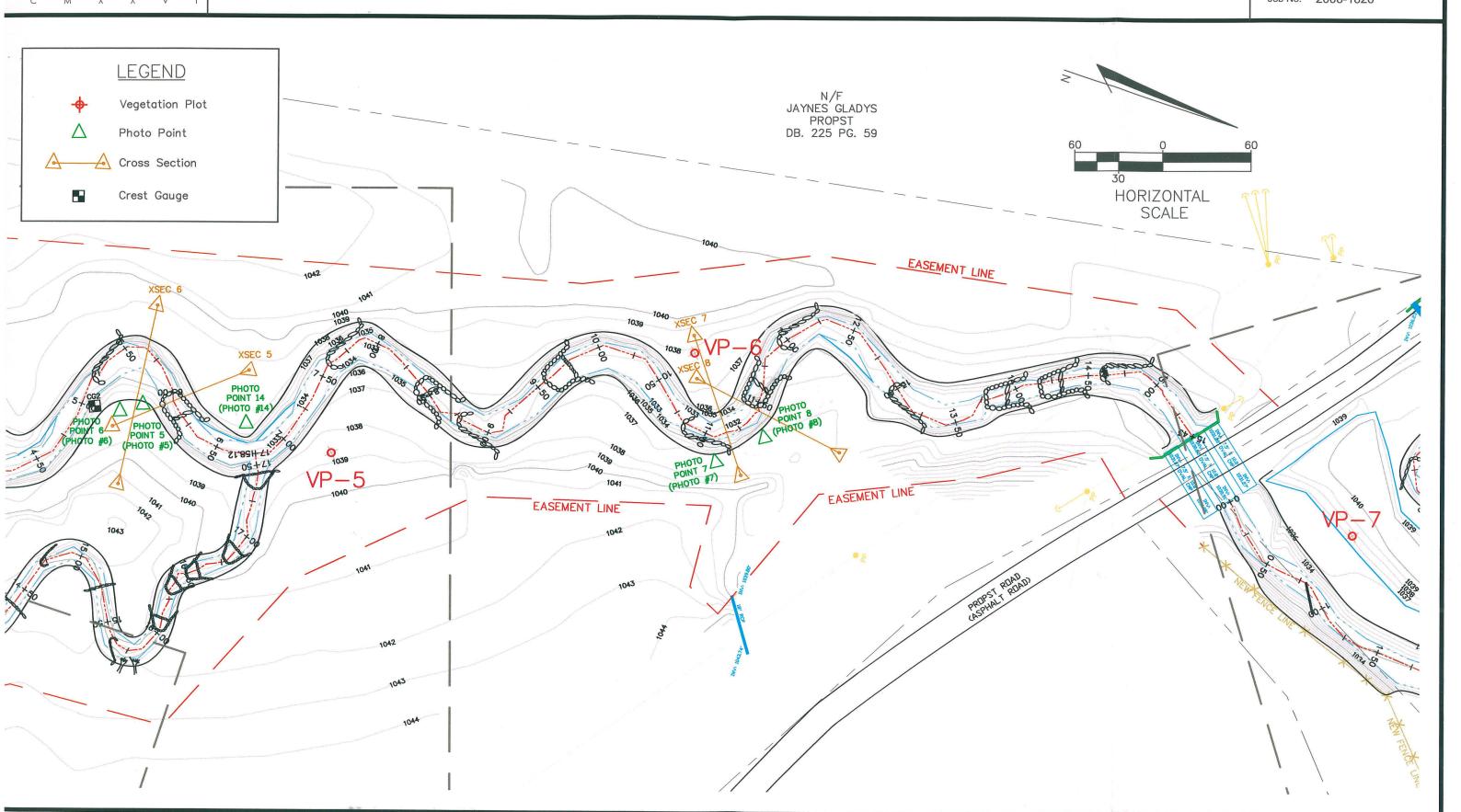
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BAILEY FORK STREAM RESTORATION

FIGURE 2C N.C. ECOSYSTEM ENHANCEMENT PROGRAM

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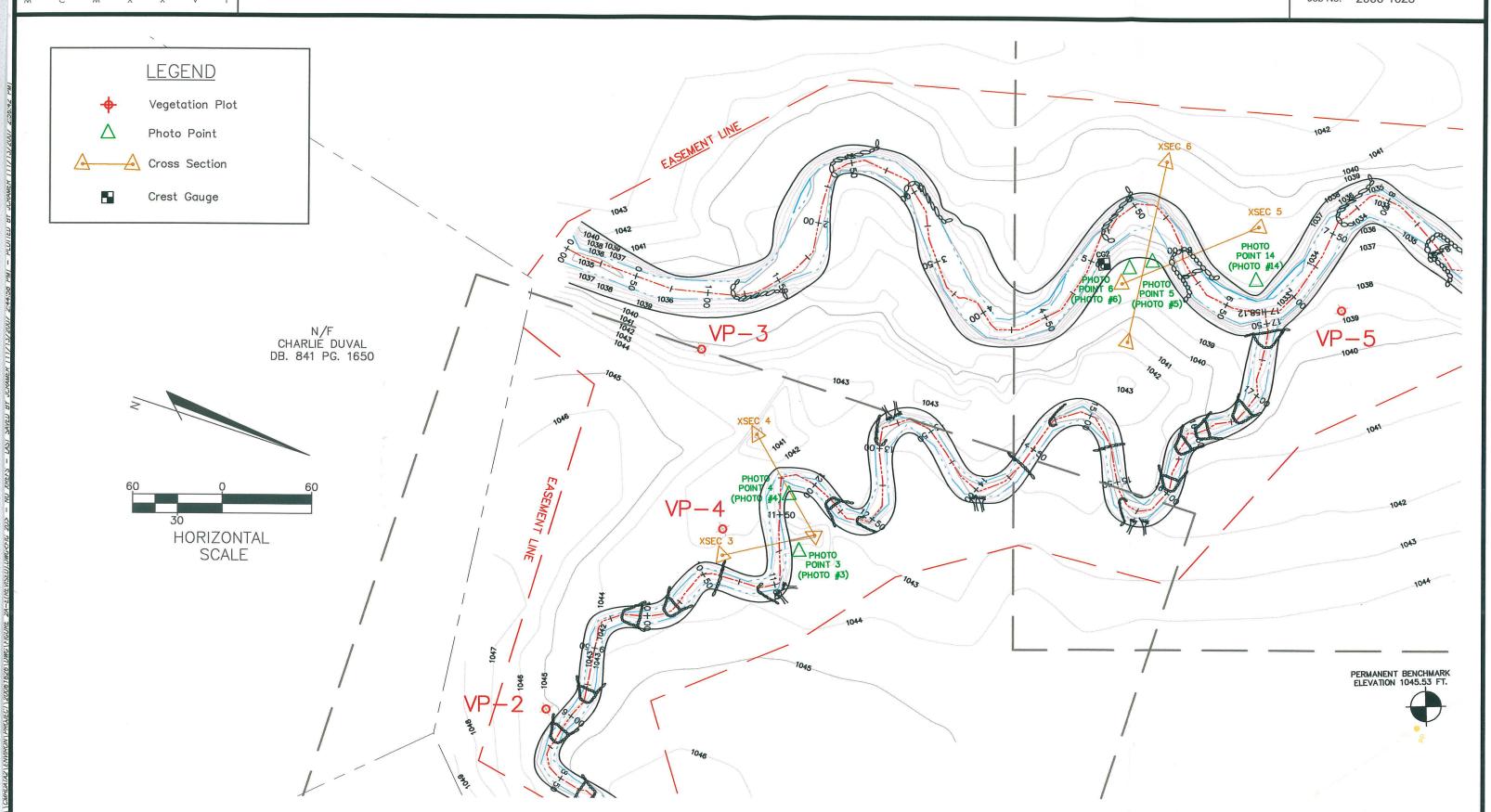
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FIGURE 2D

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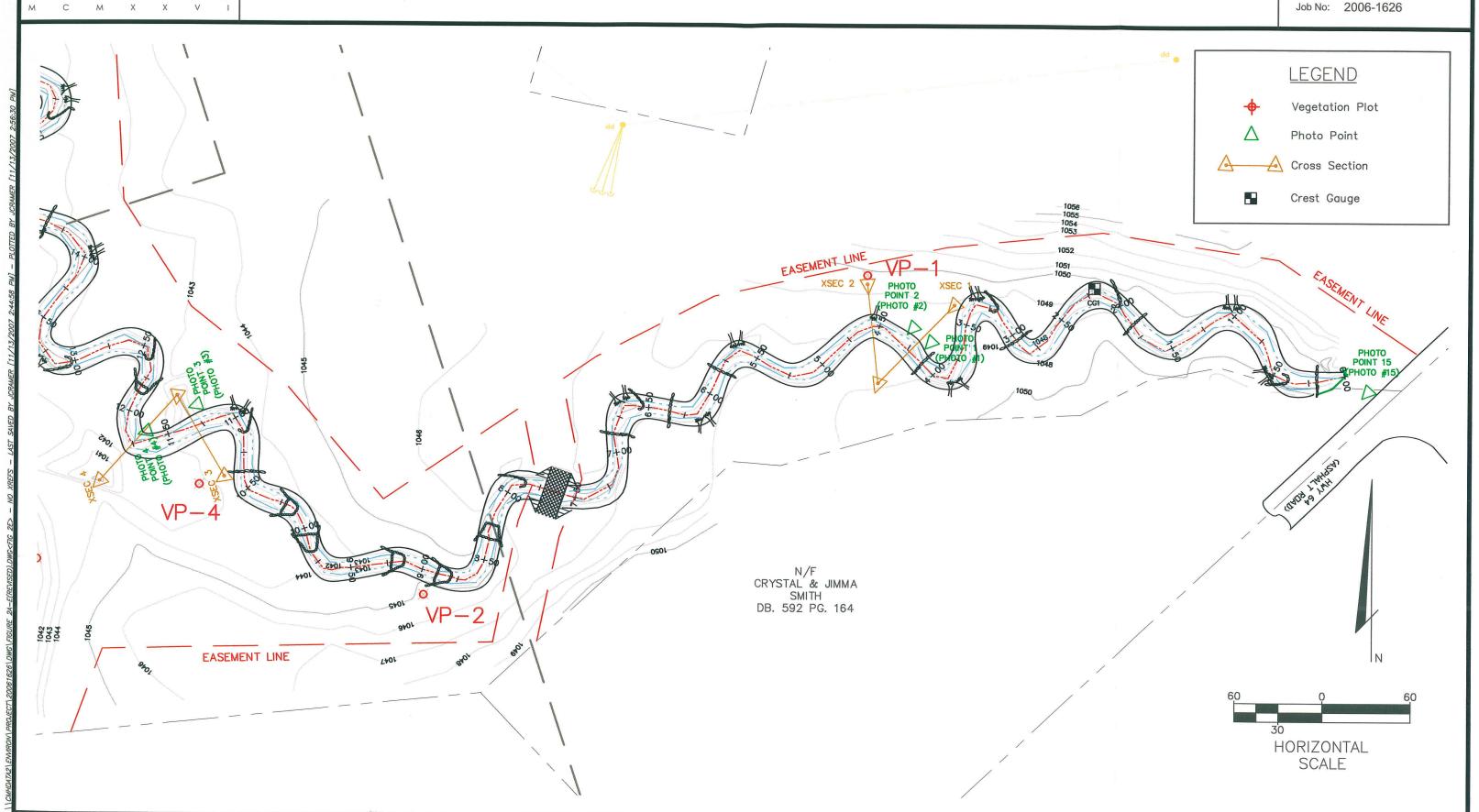
BAILEY FORK STREAM RESTORATION

FIGURE 2E

N.C. ECOSYSTEM ENHANCEMENT PROGRAM

December, 2007

Scale: 1" = 60'



III. PROJECT CONDITION AND MONITORING RESULTS

A. Vegetation Assessment

1. Soil Data

Soils present in the riparian area adjacent to Bailey Fork are characteristic of those found in alluvial landforms within the Northern Inner Piedmont ecoregion of North Carolina. Colvard sandy loam soils are mapped within the floodplain and immediately adjacent to the stream channels on the project site. Colvard soils are formed in loamy alluvial deposits, and are nearly level, very deep, and well-drained or moderately well-drained.

Other soils within the project's vicinity include Fairview sandy clay loam and Unison fine sandy loam, which are mapped on adjacent slopes and terraces. No hydric soils were mapped within the project corridor.

Data on the soils series found within and near the project site is summarized in Table VI.

Table VI. Preliminary Soil Data Bailey Fork Stream Restoration / EEP Project No. D04006-02								
Max. Depth % Clay on Series (in.) % Clay on K1 T2 % Organic Matter								
Colvard sandy loam	60+	8-18	0.24	5	1-2			
Fairview sandy clay loam	60+	20-35	0.24	5	0.5-1			
Unison fine sandy loam	60+	12-20	0.24	5	0.5-1			

Data for Table VI was derived from information from reports produced by Natural Systems Engineering. ¹Erosion Factor K indicates the susceptibility of a soil to sheet and rill erosion, ranging from 0.05 to 0.69. ²Erosion Factor T is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity, measured in tons per acre per year.

2. Vegetative Problem Areas

Vegetative Problem Areas are defined as areas either lacking vegetation or containing populations of exotic vegetation. Each problem area identified during each year of monitoring is summarized in Table VII. Photographs of the vegetative problem areas are shown in Appendix A. There are a few locations where the density of planted woody stems is not high enough to meet the required stem counts. Densities of planted woody species are discussed in the Stem Counts section of this report.

Table VII. Vegetative Problem Areas Bailey Fork Stream Restoration / EEP Project No. D04006-02								
Feature/Issue	Station # / Range	Probable Cause	Photo #					
Invasive Population	Throughout: See VPA Plan View	Sericea lespedeza: encroachment from pasture	VPA 1, VPA 2					

The most pervasive vegetative problem is the spread of an invasive species, *Sericea lespedeza*. This species is a common component of pasture mixes, and as this project is adjacent to pasture/hay lands, it likely spread into the project area from the surrounding landscape. The spread of the species is extensive throughout the project corridor, and has increased slightly over

the past year. Management in 2008 included herbicide treatments, with spraying focused on the areas most densely planted with trees in an attempt to minimize the impact of the invasive on woody survival. This spraying had minimal negative effect on the spread of this species. Further spraying will be conducted throughout the monitoring period as deemed necessary to enhance survival of the planted species. Management of the woody vegetation is discussed in the Stem Counts section of this report.

A very minor population of kudzu (*Pueraria montana*) was identified near Vegetation Plot #5. While the population of this species remains too small to have an impact on the desried vegetation at this time, it will be closely monitored to document and manage future spread of this invasive species.

An additional problem area noted in Year 2 included a section along Upper Bailey Fork where remedial maintenance activities along the stream banks impacted Vegetation Plot #6. The vegetation of the plot, along with much of the buffer vegetation along the top of the slope at this location, was damaged or destroyed by the construction activities. The streambanks were reseeded upon completion of maintenance activities, and new trees were planted in the spring of 2008. As this plot has become fully vegetated, it has been removed from consideration as a problem area for bare banks.

3. Vegetation Problem Area Plan View

The location of each vegetation problem area is shown on the vegetative problem area plan view included in Appendix A. Each problem area is color coded with yellow for areas of low concern (areas to be watched) or red for high concern (areas where maintenance is warranted).

4. Stem Counts

A summary of the stem count data for each species arranged by plot is shown in Table 8. This data was compiled from the information collected on each plot using the *CVS-EEP Protocol for Recording Vegetation*, *Version 4.0*. Additional data tables generated using the CVS-EEP format are included in Appendix A. All vegetation plots are labeled as VP in Figure 2.

Table VIII. Stem counts for each species arranged by plot. Bailey Fork Stream Restoration / EEP Project No. D04006-02														
Species	1	2	3	4		lots	5 7	/ 8	9	10	Year 1 Totals	Year 2 Totals	Year 3 Totals	Survival
Shrubs					/kr	į.						10000	101113	70
Alnus serrulata Cephalanthus occidentalis	1										3	3	0	100
Cornus amomum				6	1		1	3	3	2	9	9	16	100
Rosa palustris	2										2	2	2	100
Trees Fraxinus		1				/2								
pennsylvanica					1						0	0		100
Liriodendron tulipifera				1		4	3				15	4	8	53
Malus sp.	1										0	0		100
Nyssa sylvatica Platanus	1										0	0		100
occidentalis	1	1	9	4			6			10	35	30	31	89
Quercus pagoda		8					4	9	2		31	28	23	74
Quercus phellos		1	1	2		1	1	2			9	5	8	89
Salix nigra											1	0	0	0
Totals	6	10	10	13	2	5	15	14	5	12	106	82	92	87
Live Stem Density Average Live Stem Density	243	405	405	527	37	203	608	567	203	486				

The average stem density for the site exceeds the minimum criteria of 320 stems per acre after three years. Four individual plots have stem densities below the minimum; however, eight seedlings have recruited in Plot #1, which would increase the stem count to exceed the minimum criteria. This is an increase over the seedling recruitment count of four found in 2007. Plot #6 was disturbed during remedial maintenance activity on the stream banks between monitoring in Years 1 and 2; two stems were planted in this plot in 2008, increasing the stem count in Year 3 over that found in Year 2. Plot #5 was damaged by pasture mowing in Year 1; two planted stems and one recruited seedling have subsequently been found in this plot, increasing the stem count over the original monitoring period. The final plot, Plot #9, is densely covered by *Sericea lespedeza*, which appears to have had a greater effect on both survival and recruitment in this plot than the others in the project corridor also affected by this invasive species.

It is likely that the spread of *Sericea lespedeza* throughout much of the project corridor has hindered the growth and survival of woody vegetation. Where present, this species is dominant, providing a thick coverage of growth approximately three feet high through which any species must break in order to receive sunlight or rainfall. A round of remedial tree plantings were conducted in 2008, which were intended to bring deficient areas of the site back into compliance with the 320 stems per acre minimum. Due to continued mortality of planted stems which is speculated to be due to the coverage of *Sericea lespedeza*, these plantings did not bring all areas of the site back to the minimum stem count. The remedial plantings did, however, result in a net

gain of woody stems for the entire site. The increase in total woody stems is considered a significant achievement, and further plantings will only be conducted as necessary to continue to maintain the required stem counts.

5. Vegetation Plot Photos

Vegetation plot photos are provided in Appendix A.

B. Stream Assessment

1. Hydrologic Criteria

One bankfull event was documented for the site, as reported in the Mitigation As-Built Report. Additional events were recorded in Year 2, and listed in Table IX. Photographs of the crest gages are shown in Appendix B.

Table IX. Verification of Bankfull Events								
Date of Data	Date of Data Date of Method Photo #							
Collection	Occurrence							
10/31/05	10/7/05-10/8/05	Photographs; Stream Gage Data	In Mitigation Plan					
7/19/07	Unknown	Crest Gage 1 on UT1	BF 1					
10/17/07	9/14/07-9/15/07*	Crest Gage 4 on Lower Bailey	BF 2					

^{*}Date is approximate; based on a review of recorded rainfall data

No additional bankfull events occurred during Year 3.

2. Stream Problem Areas

A summary of the areas of concern identified during the visual assessment of the stream for each year of monitoring is included in Tables Xa through Xc.

		(a. Stream Problem Areas – Year 1 nm Restoration / EEP Project No. D04006-02			
Feature Issue	Station Numbers	Suspected Cause	Photo Number		
Aggradation	4+00 - 4+25 Upper	Lateral bar; bank material moving	SPA 1		
	1+50 - 2+00 Upper	Lateral bar; bank material moving	(Year 1 Report)		
Bank failure	9+00 Lower 8+00 Lower	Rootwad causing reverse circulation leading to downstream bank scour and undercutting Large boulder fell out of bank; bank undercutting	SPA 2 (Year 1 Report)		
	11+50 Upper	Bank armor has fallen, undercutting	(Tear T Report)		
	11+80 - 12+50 Upper	Coir matting has fallen, bank erosion; deposition downstream			
Bank scour	10+25 Upper	Rootwad causing reverse circulation leading to downstream bank scour and undercutting	SPA 3 (Year 1 Report)		
	3+50 Upper	Channel is over widened, bank is slumping			
	5+60 UT2	Embedded rock sill; channel is stable			
	2+50 UT2	Embedded cross-vane; channel is stable			
	1+25 UT2	Embedded J-hook; channel is stable			
Stressed/failing	14+75 Upper	Partially embedded J-hook; channel is stable			
structure	13+00 Upper	Embedded J-hook; channel is stable	SPA 4		
	10+60 UT1	Embedded rock sill; channel is stable	(Year 1 Report)		
	3+25 UT1	Partially embedded J-hook; channel is stable			
÷	0+50 UT1	Embedded J-hook; channel is stable			
	0+25 UT1				
Other	7+00 UT1	Sinkhole adjacent to channel; piping water	SPA 5 (Year 1 Report)		

Table Xb. Stream Problem Areas – Year 2 Bailey Fork Stream Restoration / EEP Project No. D04006-02							
Feature Issue	Station Numbers	Suspected Cause	Photo Number				
Aggradation	1+50 - 2+00 Upper	Point bar; vegetated and stable					
7 1551 4441011	1+75 Lower	Mid-channel bar	SPA 1, SPA 2				
Bank scour	3+50 Upper	Channel overwidened, left bank is slumping, W/D too high resulting in aggradation.	SPA 3, SPA 4				
	5+60 UT2	Embedded rock sill; channel is stable					
	2+50 UT2	Embedded cross-vane; channel is stable					
9	1+25 UT2	Embedded J-hook; channel is stable					
- 5	14+75 Upper	Partially embedded J-hook; channel is stable					
Stressed/failing	13+00 Upper	Embedded J-hook; channel is stable					
structure	2+50 Upper	Embedded J-hook; channel is stable	SPA 5, SPA 6				
	12+00 UT1	Embedded rock sill; channel is stable					
	10+60 UT1	Embedded rock sill; channel is stable					
	3+25 UT1	Partially embedded J-hook; channel is stable					
	2+00 UT1	Embedded J-hook; channel is stable					
	0+50 UT1	Embedded J-hook; channel is stable					
Other	7+00 UT1	Sinkhole adjacent to channel; has improved since the previous year due to floodplain deposition	×				

		c. Stream Problem Areas – Year 3 m Restoration / EEP Project No. D04006-02	
Feature Issue	Station Numbers	Suspected Cause	Photo Number
	1+50 - 2+00 Upper	Point bar; vegetated and stable	
Aggradation	1+75 Lower	Mid-channel bar; vegetated and stable	GD 4 1 2
riggradation	6+30 UT1	Embedded rock sill; channel is stable	SPA 1, 2
	8+00 UT1	Embedded J-hook; channel is stable	
Bank scour	3+50 Upper	Slumping on left bank; heavily vegetated, channel is stable	SPA 3, 4, 5

Several features were removed from the stream problem areas table in Year 3. The majority of structures listed in the table in Year 2 were embedded throughout the monitoring period. However, the stream channels remain stable in these areas. Because the channel has remained stable throughout two consecutive years of monitoring, the structures are no longer considered problem areas and were removed from the Year 3 table. The remaining feature removed from the table was a sinkhole found along Tributary UT1. As no such sinkhole was identified in Year 3, likely due to deposition and subsequent heavy vegetative establishment, the feature has been removed from consideration as a problem area.

Five potential problem areas remain in Year 3, and are limited to isolated areas of aggradation and minimal bank scour. The bank scour noted near station 3+50 along Upper Bailey Fork in Years 1 and 2 has become heavily vegetated in Year 3, providing increases in root mass densities and streambank stability. The area noted as aggrading between profile stations 1+50 and 2+00 on Upper Bailey Fork is a point bar, an area of natural deposition in a sand and gravel dominated, C4 stream type. The mid-channel bar at profile station 1+75 on Lower Bailey Fork is of greater concern due to increases in near-bank shear stress associated with these types of mid-channel depositional features. Although the streambanks and channels are presently stable at the locations noted, theses areas will remain on the problem area table to ensure each is monitored through Year 4.

Two structures along UT1 were affected by aggradation in Year 3. Sand is the dominant streambed substrate in the project reaches, and as such, sediment deposition over the noted structures is attributed to high sediment supply readily available to UT1 upstream in the contribution watershed. Because the issue for these structures arises from depositional trends, rather than a concern with the physical structure, these areas are listed in the table as aggradation issues, not failed structures. It is noted that at both locations on UT1 (profile stations 6+30 and 8+00) where the two structures are embedded, the channel and streambanks are stable, with no bar formation.

During September 2008, EMH&T's Charlotte-based personnel surveyed the entire 1,759 l.f. UT1 reach, rather than picking up only the first 800 l.f. as approved in the as-built mitigation plan. This provided a unique opportunity to evaluate depositional trends, along the entire reach, by direct comparison of Year 3 to Year 0, as-built channel conditions.

The Year 0, as-built channel profile was overlaid with the Year 3 total station survey thalweg, water surface and bankfull indicator points and is included in Appendix B. Of interest, the best-fit trend line through the thalweg points for Year 0 and Year 3 cross near the reach midpoint, at profile station 9+50.6. Upstream from this profile station, the reach exhibits slight overall aggradation, ranging from 0.00 feet of deposition at station 9+50.6 to 0.48 feet of deposition at profile station 0+00 (i.e., the vertical difference between the best-fit thalweg trend lines for the two datasets). Conversely, there is 0.00 feet of degradation at profile station 9+50.6, and at profile

station 17+58 the vertical difference between to the best-fit trend lines is 0.40 feet of net degradation. There is only a infinitesimally small difference in channel slope from Year 0 to Year 3, with reach thalweg slopes of 0.0071 ft/ft and 0.0070 ft/ft, respectively. The evaluation of these subtle depositional trends was possible only by using the "zoom in" tool built into RiverMorph $^{\circledR}$ v.4.1.1.

The conclusion drawn from this exercise is UT1 is approaching profile equilibrium post restoration. The observed depositional trends represents the stream's natural response to its realignment, grade control and aggressive riparian revetment associated with the stream mitigation project. These observations provide an understanding of both the cause and effect for the embedded conditions at the rock sill located at profile station 6+30 and J-Hook vane at profile station 8+00 upstream from the intersect point of the two best-fit streambed trend lines at station 9+50.6. The observed condition in the field are explained by natural and well understood fluvial geomorphic processes as natural streams entrain and deposit sediment in response to subtle shifts in base level and hydraulic controls (i.e., in-stream structures). Should the results from geomorphic stream surveys during monitoring Year 4 support depositional trends observed from Year 0 through September 26, 2008, the completion date of the Year 3 total station stream surveys on Bailey Fork and its two Unnamed Tributaries, these two problem areas will be removed from Table X in Year 4.

3. Stream Problem Areas Plan View

The location of each structural problem area is shown on the stream problem area plan view included in Appendix B. Each problem area is color coded with yellow for areas of low concern (areas to be watched) or red for high concern (areas where maintenance is warranted).

4. Stream Problem Areas Photos

Photographs of the stream problem areas noted in Table Xb are included in Appendix B.

5. Fixed Station Photos

Photographs were taken at each established photograph station on September 9, 2008. These photographs are provided in Appendix B.

6. Stability Assessment Table

The visual stream assessment was performed to determine the percentage of stream features remaining in a state of stability after the first year of monitoring. A summary of the visual assessment for each reach is included in Table XIa through Table XId. This summary was compiled from the more comprehensive Table B1, included in Appendix B. Each of the structures shown on the as-built plans were assessed during monitoring and reported in the tables.

Table XIa. Categorical Stream Feature Visual Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: Upper

Feature	Initial	MY-01	MY-02	MY-03	MY-04	MY-05
A. Riffles ¹	100%	87%	87%	87%		
B. Pools ²	100%	88%	88%	84%		
C. Thalweg	100%	100%	100%	100%		
D. Meanders	100%	91%	98%	98%		
E. Bed General	100%	98%	98%	98%		
F. Vanes / J Hooks etc. 3	100%	97%	96%	96%		
G. Wads and Boulders ⁴	N/A	N/A	N/A	N/A		

Table XIb. Categorical Stream Feature Visual Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: Lower

Feature	Initial	MY-01	MY-02	MY-03	MY-04	MY-05
A. Riffles ¹	100%	100%	100%	100%		
B. Pools ²	100%	100%	100%	100%		
C. Thalweg	100%	100%	100%	100%		
D. Meanders	100%	91%	100%	100%		
E. Bed General	100%	100%	99%	99%		
F. Vanes / J Hooks etc. 3	100%	100%	100%	100%		
G. Wads and Boulders ⁴	N/A	N/A	N/A	N/A		

Table XIc. Categorical Stream Feature Visual Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: UT1

Feature	Initial	MY-01	MY-02	MY-03	MY-04	MY-05
A. Riffles ¹	100%	93%	92%	92%		
B. Pools ²	100%	89%	87%	86%		
C. Thalweg	100%	100%	100%	100%		
D. Meanders	100%	100%	100%	100%		
E. Bed General	100%	100%	100%	98%		
F. Vanes / J Hooks etc. 3	100%	97%	97%	95%		
G. Wads and Boulders ³	100%	100%	100%	100%		

Table XId. Categorical Stream Feature Visual Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: UT2

Feature	Initial	MY-01	MY-02	MY-03	MY-04	MY-05
A. Riffles ¹	100%	100%	89%	100%		
B. Pools ²	100%	96%	86%	93%		
C. Thalweg	100%	100%	100%	100%		
D. Meanders	100%	100%	100%	100%		
E. Bed General	100%	100%	100%	100%		
F. Vanes / J Hooks etc. 3	100%	95%	95%	95%		
G. Wads and Boulders ⁴	N/A	N/A	N/A	N/A		

¹Riffles are assessed using the longitudinal profile. A riffle is determined to be stable based on a comparison of location and elevation with respect to the as-built profile.

²Pools are assessed using the longitudinal profile. A pool is determined to be stable based on a comparison of location and elevation with respect to the as-built profile and a consideration of appropriate depth.

³Physical structures such as vanes, J-hooks, and root wads are assessed using the as-built plan sheets to define the location of such features. A structure is considered stable if the feature remains functional in the same location as shown in the as-built plan.

⁴Those features not included in the stream restoration were labeled N/A. This includes structures such as rootwads and boulders.

Identified problematic structures on Tributaries UT1 and UT2 were vanes/J-hooks. Each of the affected structures has become embedded in sand size sediment. However, the channel is stable at each location where aggradation has covered a structure. The percentage of embedded features has remained relatively the same for both tributaries from Year 1 to Year 3. (See discussion in Section B.2, the longitudinal profiles, cross-sections and the tabular geomorphic and hydraulic summary data for each reach in Table XII).

As a result of the streambank maintenance that occurred along Lower Bailey Fork in Year 2 during August 2007, each meander that was in an unstable state during Year 1 was repaired and remains stable in Year 3. At profile station 1+75 on Lower Bailey Fork, bed instability was noted in Year 2 where a mid-channel bar formed. This feature is still present in Year 3.Mid-channel bars form due to over widening of the channel (i.e., increase in width/depth ratio). During high flows and bankfull events, the hydraulics created by a longitudinal mid-channel bars divert stream power from the center of the channel and increases shear stress in the near-bank region along both sides of the channel. Left unchecked, mid-channel bars have a general tendency to enlarge over time and contribute to ongoing channel overwidening by eroding both the left and right banks. This location will continue to be monitored during channel stability assessments in future monitoring years.

Upper Bailey Fork had several categories where unstable features were noted. However, the stability percentages between Year 2 and 3 are very similar for the categories "bed general", "vanes/J-hooks", and the stability percentage improved or unchanged for the "meanders" category. As on Lower Bailey Fork, the eroding meanders were repaired and remain stable through Year 3. Noted structures are embedded by fine to coarse sand sediment along this reach. However, the channel remains stable at each location where sand entrainment and deposition has covered a structure.

Three of the four stream reaches were noted to have unstable pools and riffles during Year 2; in the tributaries, particularly UT2, the stability percentage decreased from Year 1 to Year 2.

Deposition was deemed the likely cause for those pools and riffles that differed in profile from asbuilt, Year 0 conditions. Some of the pools have become quite shallow, a few to the point of losing pool functions. In Year 3 UT2 shows considerable recovery with substantial percentage increases in both pool and riffle stability categories. The unstable riffles were typically areas where a structure had become covered by sediment. The decline in stability percentage from Year 1 to Year 2 was attributed to sedimentation, as aggradation was a visible trend throughout the profiles in Year 2. This bedform adjustment may be attributed to extended drought during the summer of 2007 and minimal flushing of sand-sized particles through the project reaches. During Year 3, the stability and integrity of pools and riffles on each of the project reaches remained essentially the same with minor gains and/or losses based on visual stability assessments. Despite slight aggradation in some locations, and degradation at other locations, the common theme drawn from the visual assessments, combined with detailed geomorphic and hydraulic assessment and analyses of Year 3 monitoring data show each of the reaches transitioning in the direction of increased stability, with improved channel-floodplain connectivity based on increasing trends in entrenchment ratios, decreasing trends in Bank Height Ratios, and stable width/depth ratios from analysis of the 12 monumented, long-term monitoring cross-sections on the project reaches. Each of the four reaches are stable in Year 3. Therefore, no maintenance is warranted based on qualitative and quantitative data analyses of Year 3 monitoring data for Bailey Fork and Tributaries.

7. Quantitative Measures

Graphic interpretations of cross-sections, profiles and pebble counts are provided in Appendix B. A summary of the baseline morphology for the site is included in Table XII for comparison with the monitoring data shown in the tables in the appendices. Geomorphic data in Table XII, except for Year 1 through Year 3 monitoring data, was provided by Natural Systems Engineering. Year 0 data presented in cross-sections and profiles, contained in Appendix B, were also provided by Natural Systems Engineering.

The stream pattern data provided for Year 1 and Year 2 is the same as the data provided from the As-Built survey, as pattern has not changed based on Year 1 and Year 2 stream surveys and visual field assessments.

Bedform features continue to evolve along the restored reaches as shown on the long-term longitudinal profiles. Riffle lengths and slopes are stable. Pool to pool spacings are representative of reference reach conditions, adjusted for drainage area and bankfull width. The pools have developed excellent glide features, providing spawning habitat for native fishes and riffle substrates conducive for benthic macro-invertebrate populations to re-emerge. Of interest, is the change (median decrease) in pool to pool spacings between Year 1, Year 2 and Year 3 on Upper and Lower Bailey Fork and UT-2. Pool to pool spacings have remained relatively the same from Year 0 through Year 3 as shown on the profiles and as summarized in Table XII. The bedform adjustments may be attributed to extended drought beginning during the summer of 2006 through 2008 (low flow conditions) and minimal flushing of sand-sized particles through the project reaches. Future monitoring may confirm this hypothesis. Comparison of As-Built, Year 1, Year 2 and Year 3 long-term stream monitoring data show successive increases in channel-floodplain connectivity and increasingly stable channel dimensions, interpreted from width/depth ratios, entrenchment ratios, and bank height ratios as shown on the long-term monitoring cross-sections, profiles and in tabular format in Table XII.

The constructed riffles remain stable, with a median particle size ranging from very coarse gravel to large cobble. The pools substrate remained stable, with median particle sizes ranging from fine to coarse sand based on Year 3 substrate analysis. Constructed riffles remain stable, with a median particle sizes ranging from very coarse gravel to large cobble, with one anomaly from

particle distributions collected at Riffle Cross-Section 5. Using the Year 3 particle distribution collected along this feature alone would indicate a Rosgen stream type substrate shift from C4 (coarse gravel) to a C3 (small to large cobble) dominated stream type (D50 = 110.1 mm; D84 = 163.8 mm). Sample interference is suspected due to the contribution of cobble-sized material introduced during construction of the cross-vane step structure at the sample location. Random substrate sample distributions collected at this location (with the exception of Year 0 "As-Built" sample) show C3, small to large cobble substrate composition. It is well documented, based on reference reach boundary conditions, pre-existing site substrate composition, and substrate readily available to the stream from the contribution drainage area, Upper Bailey Fork is a sand and gravel substrate system. To approximate a reach (Wolman, 1954) particle distribution, characteristic of Upper Bailey Fork, substrate particle distributions from Riffle Cross-Section 5 and Pool Cross-Section 7 were combined (n = 118 measurements). The D50 and D84 particle size for the approximated reach substrate particle distribution is 32.0 mm (coarse gravel) and 139.3 mm (large cobble), respectively, with fine to coarse sand comprising 37.3 percent of the sample composition. Based on Year 3 median pool lengths and spacings, the 800 l.f. long-term monitoring reach is 73.5 percent pools and glides and 26.5 riffles and runs. As a result, the combination of one pool and one riffle particle distribution will statistically skew (over-estimate) reach D50 and D84 median particle size distributions.

Table XII. Baseline Geomorphic and Hydraulic Summary Bailey Fork Stream Restoration / EEP Project No. D04006-02

Station/Reach: Upper {Long-Term Monitoring Profile Station 0+00 to 8+00 (800 feet)}

Parameter	Regio	onal Curve			erence Re	ach	Pre-Ex	isting Con	dition		Design		As-B	uilt XSs 5	5 & 8	Year 1 S	Sta. 0+00	- 8+00	Year 2	Sta. 0+00 -	8+00	Year 3	Sta. 0+00 -	- 8+00
Dimension	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med
Drainage Area (mi²)		21-1	4.90	0.14	1.70	0.92			4.90			4.90			4.90			4.90		2.24.2	4.90	11111	TVIUX	4.9
BF Width (ft)			25.10	7.35	10.80	9.08	19.90	26.47	23.19			28.00	28.20	37.70	32.95	29.07	30.94	30.01	28.89	36.63	32.76	28.77	36.74	32.7
Floodprone Width (ft)				43.00	150.00	96.50	180.00	180.00	180.00			280.00	100.00	109.00	104.50	99.20	109.50	104.35	99.84	109.52	104.68	99.72	109.00	104.30
BF Cross Sectional Area (ft²)			63.62	9.10	20.70	14.90	67.37	71.69	69.53			65.00	71.70	81.80	76.75	77.68	102.22	89.95	77.14	89.37	83.26	76.82	90.98	83.90
BF Mean Depth (ft)			2.53	1.30	2.10	1.70	2.71	3.38	3.05			2.30	2.30	2.30	2.30	2.67	3.30	2.99	2.44	2.67	2.56	2.48	2.67	2.58
BF Max Depth (ft)				1.80	2.80	2.30	4.55	4.96	4.76			4.20	4.10	5.20	4.65	4.14	5.39	4.77	4.25	4.63	4.44	4.22	4.68	4.4:
Width/Depth (ft)			9.92	5.65	5.14	5.40	7.34	7.83	7.59			12.20	12.26	16.39	14.33	9.38	10.89	10.14	10.82	15.01	12.92	10.78		
Entrenchment Ratio				5.85	13.89	9.87	9.05	9.04	9.04			10.00	3.55	2.89	3.22	3.41	3.54	3.48	2.99		3.23		14.81	12.80
Bank Height Ratio				0.70	1.00	0.85	1.80	2.10	1.95			1.00	1.00	1.10	1.05	1.00	1.10	1.05	1.10	3.46		2.97	3.47	3.22
Wetted Perimeter (ft)			30.16	9.95	15.00	12.48	25.32	33.23	29.28			32.60	32.80	42.30	37.55	30.60	34.41	32.51		1.15	1.13	1.05	1.12	1.09
Hydraulic Radius (ft)			2.11	0.91	1.38	1.15	2.66	2.16	2.41			1.99	1.93	2.19	2.06	2.54	2.97	2.76	30.42 2.36	37.94 2.54	34.18	30.29	38.07	34.18
Pattern												1.22	1.55	2.17	2.00	2.54	2.91	2.70	2.30	2.34	2.45	2.39	2.54	2.47
*Channel Beltwidth (ft)				20.00	50.00	35.00	75.00	105.00	90.00	70.00	153.00	111.50	70.00	153.00	111.50	70.00	153.00	111.50	70.00	152.00	111.50	70.00	170.00	
*Radius of Curvature (ft)				10.00	21.00	15.50	18.00	30.00	24.00	42.00	84.00	63.00	42.00	84.00	63.00	42.00	84.00	111.50	70.00	153.00	111.50	70.00	153.00	111.50
*Meander Wavelength (ft)				35.00	50.00	42.50	60.00	96.00	78.00	70.00	154.00	112.00	70.00	154.00	112.00	70.00		63.00	42.00	84.00	63.00	42.00	84.00	63.00
*Meander Width Ratio				2.00	21.80	11.90	3.20	3.60	3.40	2.50	5.50	4.00	2.50	5.50	4.00	2.41	154.00 4.95	112.00 3.72	70.00	154.00	112.00	70.00	154.00	112.00
Profile						TARRAN STATE		2.00	5.10	2.50	3.30	4.00	2.50	3.30	4.00	2.41	4.93	3.12	2.42	4.18	3.40	2.43	4.16	3.40
Riffle Length (ft)				3.00	26.40	14.70	15.00	67.80	41.40	23.80	68.00	45.90	23.80	68.00	45.90	5.60	24.00	10.70	12.40	22.75	15.55	10.5=		
Riffle Slope (ft/ft)				0.0068	0.0700	0.0384	0.0086		0.0473	0.0020		0.0028	0.0020	0.0035	0.0028	800 000 000000		12.70	13.40	23.75	17.77	10.67	43.75	20.36
Pool Length (ft)				5.50	41.30	23.40	80.00	100.00	90.00	45.00	96.00	70.50	45.00	96.00	70.50	27.90	0.0456	0.0238	0.0045	0.0260	0.0173	0.0066	0.0247	0.0134
Pool Spacing (ft)				16.00	70.00	43.00	81.00		146.00	95.00		159.50	95.00	224.00	159.50	56.00	72.20 167.00	51.20 98.20	28.23	80.25	53.58	24.12	71.34	44.25
Substrate						10,00	01100	211.00	110.00	75.00	224.00	137.30	93.00	224.00	139.30	30.00	107.00	98.20	49.12	109.70	75.59	34.26	101.86	68.19
**d50 (mm)	- /			20.0	29.0	24.5	6.0	24.0	15.0				6.9	10.6	12.2			112.4			0.7			
**d84 (mm)				38.0	76.0	57.0	7.0	50.0	28.5			55.0	121.0	19.6 154.0	13.3 137.5			113.4 178.3			87.4			32.0
Additional Reach Parameters						57.0	7.0	30.0	20.3			33.0	121.0	134.0	157.5			1/8.3			115.0			139.3
, · · · · · · · · · · · · · · · · · · ·																			BELLE BURE					
Valley Length (ft)				209	295	252.00			1108			1108			1100			7.50						
Channel Length (ft)				406	479	442.50			1383.0			1410.4			1108			550	100		550			550
Sinuosity			-	1.9	1.6	1.8			1 1		1000	1.3			1543.0			800			800			800
Water Surface Slope (ft/ft)		-		0.0044	0.0219	0.0132			0.0024			0.0025			0.0027			1.5		23/4-12	1.5			1.5
BF Slope (ft/ft)				0.0044	0.0219	0.0132			0.0024			0.0023			0.0027			0.0019			0.0019			0.0020
Rosgen Classification			Е	E4	E4	E4			E-F-G			E4/C4			0.0020			0.0017			0.0024			0.0020
*Habitat Index				10-1	LT	154			E-T-U			£4/C4			C4			E4			C4			C4
*Macrobenthos																								
* Inclusion will be project specific and	datarmina	d primoril	v by Aa b			/													1					

^{*} Inclusion will be project specific and determined primarily by As-built monitoring plan/success criteria

Note: Blank fields = Historic project documentation necessary to provide these data were unavailable at the time of this report submission.

^{**}Year 3 D50 and D84 are composite values from XS-5 & XS-7. This distribution best represents reach subtrate composition. Riffle XS-5 D50 and D84 subtrate composition (i.e., 110 mm & 164 mm) uncharacteristically classifies UBF as a large cobble, C3 stream type. Note: Where only one measurement was taken, that value is posted in the "Med" column.

Table XII. Baseline Geomorphic and Hydraulic Summary Bailey Fork Stream Restoration / EEP Project No. D04006-02

Station/Reach: Lower {Long-Term Monitoring Profile Station 0+00 to 8+00 (800 feet)}

Parameter		onal Curve			Max Med M			isting Cor	dition		Design		As	-Built XS	12	Year 1	Sta 0+00	- 8+00	Year 2	Sta 0+00 - 8	3+00	Year 3	Sta 0+00 -	8+00
Dimension	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med
Drainage Area (mi²)			5.50	0.14	1.70	0.92			5.50		N - N - 1 - 10 lbs 1	5.50			5.50			5.50	11111	IVIUX	5.50	TVIIII	Ivian	
BF Width (ft)			26.02	7.35	10.80	9.08	19.90	37.42	28.66			30.00			31.50			32.36			32.71			5.:
Floodprone Width (ft)				43.00	150.00	96.50	70.00	143.33	70.00			250.00			106.00			104.21			104.81			32.8 104.2
BF Cross Sectional Area (ft²)			67.85	9.10	20.70	14.90	78.11	95.26	86.69			75.00			81.40			81.42	1700		83.19			
BF Mean Depth (ft)			2.61	1.30	2.10	1.70	1.60	3.00	2.30			2.50	a'		2.60			2.52			2.54			85.0
BF Max Depth (ft)				1.80	2.80	2.30	4.55	4.96	4.76		1777	4.50			4.30			4.35	1		4.28			2.5
Width/Depth (ft)		760	9.97	5.65	5.14	5.40	5.88	9.77	7.83			12.00			12.12			12.84	10000					4.3
Entrenchment Ratio				5.85	13.89	9.87	6.80	9.04	7.92			8.33			3.37			3.22			12.88			12.7
Bank Height Ratio				0.70	1.00	0.85	1.80	2.10	1.95			1.00			1.05			1.05			3.18			3.1
Wetted Perimeter (ft)			31.24	9.95	15.00	12.48	23.10	43.42	33.26			35.00			36.70			34.27			1.01			1.0
Hydraulic Radius (ft)			2.17	0.91	1.38	1.15	3.38	2.19	2.79			2.14			2.22			2.38	100		34.44			34.6
Pattern												2.11			2.22			2.30			2.42			2.4
*Channel Beltwidth (ft)				20.00	50.00	35.00	75.00	105.00	90.00	98.00	120.00	109.00	98.00	120.00	109.00	98.00	120.00	109.00	00.00	120.00	100.00	00.00	100.00	
*Radius of Curvature (ft)				10.00	21.00	15.50	18.00	30.00	24.00	45.00	90.00	67.50	45.00	90.00	67.50	45.00	90.00		98.00	120.00	109.00	98.00	120.00	109.0
*Meander Wavelength (ft)				35.00	50.00	42.50	60.00	96.00	78.00	200.00	220.00	210.00	200.00	220.00	210.00	200.00	220.00	67.50	45.00	90.00	67.50	45.00	90.00	67.5
*Meander Width Ratio				2.00	21.80	11.90	3.20	3.60	3.40	3.27	4.00	3.63	3.11	3.81	3.46	3.03	3.71	210.00	200.00 3.00	220.00	210.00	200.00	220.00	210.0
Profile										2.27	1100	5.05	3.11	3.01	5.40	3.03	3.71	3.37	3.00	3.67	3.33	2.98	3.65	3.3
Riffle Length (ft)				3.00	26.40	14.70	34.80	69.50	52.15	14.00	40.00	27.00	30.00	55.00	42.50	6.90	15.80	11.35	7.15	10.00	10.10	(20)	25.45	
Riffle Slope (ft/ft)				0.0068	0.0700	0.0384	0.0070	0.0235	0.0153	0.0025	0.0070	0.0048	0.0013	0.0029	0.0021	0.0095	0.0447	0.0271	7.15 0.0021	18.89 0.0434	13.13	6.39	37.27	14.6
Pool Length (ft)				5.50	41.30	23.40	27.20	60.00	43.60	20.00	45.00	32.50	50.00	100.00	75.00	27.70	54.10	40.90	14.85		0.0196	0.0055	0.0426	0.012
Pool Spacing (ft)				16.00	70.00	43.00	110.00	110.00	110.00	50.00	85.00	67.50	110.00	140.00	125.00	50.60	141.60	113.28	24.71	52.77 114.76	29.93 48.61	14.39 24.67	37.52	26.4
Substrate						UE TO SELVE					00100	07.00	110.00	110.00	123.00	30.00	141.00	113.20	24.71	114.70	48.01	24.07	117.79	52.0
**d50 (mm)				20.0	29.0	24.5	6.0	24.0	15.0				6.9	19.6	13.3			16.1			41.0			
**d84 (mm)				38.0	76.0	57.0	7.0	50.0	28.5			80.0	121.0	154.0	137.5			46.1 96.7			41.8 86.5			58.
Additional Reach Parameters													121.0	134.0	137.3			90.7			80.5			153.4
Valley Length (ft)				209	295	252.00			920			920			920			635			(25			
Channel Length (ft)				406	479	442.50			1125.3			1174.1	Α		1170.4			800			635			63
Sinuosity				1.9	1.6	1.8			1.2		1	1.3			1.70.4			1.2			800			80
Water Surface Slope (ft/ft)				0.0044	0.0219	0.0132			0.0049			0.0025			0.0028			0.0018			1.3			1.
BF Slope (ft/ft)				0.0044	0.0219	0.0132			0.0075			0.0023			0.0028			0.0018			0.0019			0.001
Rosgen Classification			Е	E4	E4	E4			G4/F4			E4/C4			C4						0.0016			0.001
*Habitat Index									UT/1 T			L4/C4			C4			C4			C4			C4
*Macrobenthos																								
* Inclusion will be project specific and o	determine	d primarily	v hv As-hi	uilt monite	oring plan	Venoces	oritorio			***														

Inclusion will be project specific and determined primarily by As-built monitoring plan/success criteria.

Note: Blank fields = Historic project documentation necessary to provide these data were unavailable at the time of this report submission.

**Year 1 data was derived using three riffle cross-sections out of the six total cross-sections from which pebble count data was collected. For this reach, XS 12 was the only riffle cross-section for which data was collected. Note: Where only one measurement was taken, that value is posted in the "Med" column.

Table XII. Baseline Geomorphic and Hydraulic Summary

Bailey Fork Stream Restoration / EEP Project No. D04006-02

Station/Reach: UT1 {Long-Term Monitoring Profile Station 0+00 to 8+00 (800 feet)}

Parameter	Regio	onal Curve	e Data	Refe	erence Re	ach	Pre-Exi	isting Cor	ndition		Design		As-B	uilt XSs 1	& 3	Year 1 S	Sta. 0+00	- 8+00	Year 2	Sta. 0+00 -	8+00	Year 3	Sta. 0+00 -	8+00
Dimension	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	
Drainage Area (mi²)			0.54	0.14	1.70	0.92			0.54		27.77	0.54			0.54	212211	Titun	0.54	IVIIII	Iviax	0.54	IVIIII	IVIAX	Med
BF Width (ft)			10.93	7.35	10.80	9.08	19.90	26.47	23.19			14.00	16.60	27.40	22.00	14.43	17.76	16.10	14.69	16.26	15.48	15.22	15 75	0.54
Floodprone Width (ft)				43.00	150.00	96.50	180.00	180.00	180.00	65.00	120.00	92.50	64.40	74.00	69.20	63.78	72.92	68.35	58.45	74.45	66.45	15.32 74.45	15.75	15.54
BF Cross Sectional Area (ft²)			14.30	9.10	20.70	14.90	67.37	71.69	69.53	0.0 0.000		17.50	15.40	27.40	21.40	12.60	15.45	14.03	13.03	16.08	14.56		105.00	89.73
BF Mean Depth (ft)			1.30	1.30	2.10	1.70	2.71	3.38	3.05			1.30	0.56	1.73	1.15	0.87	0.87	0.87	0.89			12.99	15.15	14.07
BF Max Depth (ft)				1.80	2.80	2.30	4.55	4.96	4.76			1.80	1.80	3.00	2.40	1.66	1.98	1.82	1.66	0.99	0.94	0.85	0.96	0.91
Width/Depth (ft)			8.41	5.65	5.14	5.40	5.88	9.77	7.83		724	10.77	15.84	29.64	22.74	16.59	20.41	18.50	16.42	2.03	1.85	1.70	1.98	1.84
Entrenchment Ratio				5.85	13.89	9.87	6.80	9.04	7.92			6.61	2.70	3.88	3.29	3.59	5.05	4.32		16.51	16.47	16.41	18.02	17.08
Bank Height Ratio				0.70	1.00	0.85	2.05	2.15	2.10			1.00	1.00	1.00	1.00	1.00	1.00		3.59	5.07	4.33	4.86	6.67	5.77
Wetted Perimeter (ft)			13.53	9.95	15.00	12.48	25.32	33.23	29.28			16.60	17.72	30.86	24.29		999,000	1.00	1.00	1.05	1.03	1.00	1.02	1.01
Hydraulic Radius (ft)			1.06	0.91	1.38	1.15	2.66	2.16	2.41			1.05	0.87	0.89	0.88	15.20 0.81	19.06	17.13	15.45	17.34	16.40	15.97	16.67	16.32
Pattern								2.10	2.11			1.03	0.67	0.69	0.00	0.61	0.83	0.82	0.84	0.93	0.89	0.81	0.91	0.86
*Channel Beltwidth (ft)				20.00	50.00	35.00	30.00	40.00	35.00	30.00	80.00	55.00	30.00	80.00	55.00	20.00	00.00	55.00	20.00					
*Radius of Curvature (ft)				10.00	21.00	15.50	9.00	18.00	13.50	15.00	35.00	25.00	15.00	35.00	55.00	30.00	80.00	55.00	30.00	80.00	55.00	30.00	80.00	55.00
*Meander Wavelength (ft)				35.00	50.00	42.50	48.00	60.00	54.00	55.00	100.00	77.50	55.00		25.00	15.00	35.00	25.00	15.00	35.00	25.00	15.00	35.00	25.00
*Meander Width Ratio				2.00	21.80	11.90	2.80	3.70	3.25	2.10	5.70	3.90	2.10	100.00 5.70	77.50 3.90	55.00 2.08	100.00	77.50	55.00	100.00	77.50	55.00	100.00	77.50
Profile							2.00	3.70	3.23	2.10	3.70	3.70	2.10	3.70	3.90	2.08	4.50	3.42	2.04	4.92	3.55	1.96	5.08	3.54
Riffle Length (ft)				3.00	26.40	14.70	34.80	69.50	52.15	14.00	40.00	27.00	4.00	37.00	14.22	4.70	20.60	15.70	5.00					
Riffle Slope (ft/ft)				0.0068	0.0700	0.0384	0.0070	0.0235	0.0153	0.0025	0.0070	0.0048	0.0010	0.1830	14.22	4.70	28.60	15.70	5.02	26.34	14.17	9.28	25.32	18.00
Pool Length (ft)				5.50	41.30	23.40	27.20	60.00	43.60	20.00	45.00	32.50	3.00	37.00	0.0020 20.00		0.0645	0.0254	0.0097	0.0559	0.0259	0.0151	0.0646	0.0376
Pool Spacing (ft)				16.00	70.00	43.00	110.00	110.00	110.00	50.00	85.00	67.50	22.00	88.00	50.00	8.40 39.77	56.90	30.80	7.44	54.86	27.36	10.67	44.74	23.21
Substrate							110.00	110.00	110.00	30.00	65.00	07.50	22.00	88.00	30.00	39.11	120.50	64.00	27.83	81.86	55.23	17.11	106.45	55.93
**d50 (mm)				20.0	29.0	24.5	6.0	24.0	15.0				167	22.4	10.6	OH HANDING TO								
**d84 (mm)				38.0	76.0	57.0	7.0	50.0	28.5			65.0	16.7 31.0	22.4 50.0	19.6 40.5	-			The state of					
Additional Reach Parameters					2/2/19/2		7.0	30.0	20.5			03.0	31.0	30.0	40.3									
Valley Length (ft))))			209	295	252.00			1225			1225			1225			F7.5						
Channel Length (ft)				406	479	442.50			1648.1			1707.3						575			575			1225
Sinuosity				1.9	1.6	1.8			1.3			1 /0/.3			1758.1			800			800			1759.2
Water Surface Slope (ft/ft)				0.0044	0.0219	0.0132			0.0024			0.0025			0.0071			0.0047			1.4			1.4
BF Slope (ft/ft)				0.0044	0.0219	0.0132			0.0024			0.0023						0.0047			0.0050			0.0069
Rosgen Classification			Е	E4	E4	E4			G4/F4			E4/C4			0.0064			0.0046	233		0.0049			0.0069
*Habitat Index					Li	Д-Т			J4/I'4			£4/C4			C4			C4	- 131		C4			C4
*Macrobenthos																								
* Inclusion will be project specific and of	letermine	d primarily	y by Ac b	uilt monite	ring plan	lougaga					NA DAY													

^{*} Inclusion will be project specific and determined primarily by As-built monitoring plan/success criteria

Note: Blank fields = Historic project documentation necessary to provide these data were unavailable at the time of this report submission.

^{**}Years 1 through 3 data were derived using three riffle cross-sections out of the six total cross-sections where pebble count data are collected per the site mitigation plan. No data is reported, as only substrate samples at pool cross-sections were collected. Note: Where only one measurement was taken, that value is posted in the "Med" column.

Table XII. Baseline Geomorphic and Hydraulic Summary

Bailey Fork Stream Restoration / EEP Project No. D04006-02

Station/Reach: UT2 {Long-Term Monitoring Profile Station 0+00 to 6+00 (600 feet)}

Parameter	Regi	onal Curv	-1	Refe	erence Re	each	Pre-Ex	isting Co	ndition		Design	2	As-	-Built XS-	-10	Year 1	Sta. 0+00	- 6+00	Year 2	Sta. 0+00 -	6+00	Year 3	Sta. 0+00 -	- 6+00
Dimension	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med	Min	Max	Med
Drainage Area (mi²)			0.98	0.14	1.70	0.92			0.98			0.98			0.98			0.98	TVIIII	Iviax	0.98	IVIIII	IVIAX	
BF Width (ft)			13.59	7.35	10.80	9.08			8.20			16.00			18.60			16.97			13.36			0.9
Floodprone Width (ft)				43.00	150.00	96.50	12.00	150.00	81.00	60.00	180.00	120.00			67.00			67.00						12.2
BF Cross Sectional Area (ft²)			21.14	9.10	20.70	14.90			20.10		100.00	23.00			18.70			15.43			67.15			58.1
BF Mean Depth (ft)			1.55	1.30	2.10	1.70			2.40			1.40			1.00			0.91			10.63			8.8
BF Max Depth (ft)				1.80	2.80	2.30			3.50			2.00			1.90			1.55			0.80			0.7
Width/Depth (ft)			8.77	5.65	5.14	5.40			3.42			8.00			18.60			18.65			1.28			1.20
Entrenchment Ratio				5.85	13.89	9.87			3.12			7.50			3.60						16.70			16.73
Bank Height Ratio				0.70	1.00	0.85						1.00			1.00			3.95			5.03			4.75
Wetted Perimeter (ft)			16.69	9.95	15.00	12.48						18.80	-		20.60			1.00			1.14			1.03
Hydraulic Radius (ft)			1.27	0.91	1.38	1.15						1.22			0.91			17.41			13.98			12.68
Pattern			A STREET									1.22			0.91	14		0.89			0.76			0.70
*Channel Beltwidth (ft)				20.00	50.00	35.00	30.00	33.00	31.50	34.00	91.20	62.60	34.00	01.20	(2.60	24.00	01.20	(2.60						
*Radius of Curvature (ft)				10.00	21.00	15.50	15.00	18.00	16.50	24.00	40.00	32.00	24.00	91.20	62.60	34.00	91.20	62.60	34.00	91.20	62.60	34.00	91.20	62.60
*Meander Wavelength (ft)				35.00	50.00	42.50	66.00	78.00	72.00	56.00	104.00	80.00		40.00	32.00	24.00	40.00	32.00	24.00	40.00	32.00	24.00	40.00	32.00
*Meander Width Ratio				2.00	21.80	11.90	3.70	4.00	3.85	2.10	5.70	3.90	56.00 2.10	104.00	80.00	56.00	104.00	80.00	56.00	104.00	80.00	56.00	104.00	80.00
Profile					21.00	11170	3.70	1.00	3.03	2.10	3.70	3.90	2.10	3.70	3.90	2.10	5.70	3.90	2.54	6.83	4.69	2.78	7.44	5.11
Riffle Length (ft)				3.00	26.40	14.70	16.00	24.00	20.00	16.00	44.80	30.40	16.00	44.80	20.40	2.60	12.10	0.00						
Riffle Slope (ft/ft)				0.0068	0.0700	0.0384	0.0072	0.0650	0.0361	0.0020	0.0045	0.0033	0.0020		30.40	3.60	13.10	8.90	7.71	22.58	14.81	3.78	31.26	14.13
Pool Length (ft)				5.50	41.30	23.40	0.0072	0.0030	0.0301	22.40	48.00	35.20	22.40	0.0045	0.0033	0.0080	0.0616	0.0259	0.0062	0.0108	0.0082	0.0048	0.0185	0.0087
Pool Spacing (ft)				16.00	70.00	43.00				55.00	85.00	70.00	55.00	48.00 85.00	35.20 70.00	12.50 37.20	53.10	29.00	14.10	48.32	31.78	12.38	47.41	24.26
Substrate					70.00	15.00				33.00	63.00	70.00	33.00	83.00	70.00	37.20	80.10	63.70	37.56	102.04	61.42	21.13	79.53	49.71
**d50 (mm)				20.0	29.0	24.5	6.0	24.0	15.0						2.0			15.0						
**d84 (mm)				38.0	76.0	57.0	7.0	50.0	28.5			48.0			2.0 62.0			45.0			38.5			4.9
Additional Reach Parameters						27.0	7.0	30.0	20.5			40.0			62.0			173.5			107.7			50.9
1																								
Valley Length (ft)				209	295	252.00			860			860			0.60									
Channel Length (ft)				406	479	442.50			898.9			1181.6			860			425			425			425
Sinuosity				1.9	1.6	1.8			1 1		- 1000 I	-			1271.0			600			600			600
Water Surface Slope (ft/ft)				0.0044	0.0219	0.0132			0.0024			0.0025			1.5			1.4			1.4			1.4
BF Slope (ft/ft)				0.0044	0.0219	0.0132			0.0024		5	0.0023			0.0051			0.0024			0.0030			0.0029
Rosgen Classification			Е	E4	E4	E4			G4/F4			E4/C4			0.0047			0.0026			0.0028	Ā		0.0029
*Habitat Index			~		r	LT			U+/1'4			£4/C4			C4			C4			C4			C4
*Macrobenthos																								
* Inclusion will be project specific and o	letermine	d primaril	y by Ac b	uilt monite	ring plan	Venococc	oritorio				-													

Inclusion will be project specific and determined primarily by As-built monitoring plan/success criteria

Note: Blank fields = Historic project documentation necessary to provide these data were unavailable at the time of this report submission.

**Years 1 through 3 data were derived using three riffle cross-sections out of the six total cross-sections where pebble count data are collected per the site mitigation plan. For this reach, XS-10 was the only riffle cross-section where data were collected. Note: Where only one measurement was taken, that value is posted in the "Med" column.

IV. METHODOLOGY

Year 1 vegetation monitoring was conducted in September 2006 using the CVS-EEP Protocol for Recording Vegetation, Version 4.0 (Lee, M.T., Peet, RK., Roberts, S.R., Wentworth, T.R. 2006). Year 3 vegetation monitoring was conducted in September 2008 using the same protocol as used in Years 1 and 2. Year 1 stream monitoring was conducted in April 2007 to provide adequate time between the as-built survey (completed in August 2006) and the Year 1 monitoring survey. Stream monitoring for Year 2 occurred in the fall of 2007, to provide six months between the Year 1 and Year 2 surveys. Year 3 monitoring occurred in the fall of 2008 to provide a full year between surveys. Subsequent stream monitoring will occur in the fall of Years 4 and 5 to continue to provide adequate time between surveys. Vegetation monitoring will continue to be conducted in the fall of each subsequent year of monitoring, providing a full year between vegetative surveys.

APPENDIX A

- Vegetation Raw Data
 1. Vegetation Problem Area Photos
 2. Vegetation Problem Area Plan View
 3. Vegetation Monitoring Plot Photos
 4. Vegetation Data Tables



VPA 1
View of the dominance of Sericea lespedeza in Vegetation Plot 8, considered a problem area of high concern.

(EMH&T, Inc. 9/9/08)



VPA 2
Overview of the spread of Sericea lespedeza along Upper Bailey Fork, looking upstream along the left bank near station 7+00, considered a problem area of low concern.

(EMH&T, Inc. 9/9/08)





BURKE COUNTY, NORTH CAROLINA

BAILEY FORK

MONITORING
APPENDIX A
VEGETATION PROBLEM AREA PLAN VIEW - YEAR 2

November, 2008	1" = 200'	2006-1626
Date:	Scale:	Job No:

	Table 1. Vegetation Metadata
Report Prepared By	Holly Blunck
Date Prepared	9/30/2007 9:09
database name	CVS EEP DataEntry v202.mdb
database location	Q:\ENVIRONMENTAL\Monitoring\EEP Vegetation Database
DESCRIPTION OF WORKSHEETS IN THIS DOCUI	ETS IN THIS DOCUMENT
Metadata	This worksheet, which is a summary of the project and the project data.
Plots	List of plots surveyed.
Vigor	Frequency distribution of vigor classes.
Vigor by Spp	Frequency distribution of vigor classes listed by species.
Damage	List of most frequent damage classes with number of occurrences and percent of total stems impacted by each.
Damage by Spp	Damage values tallied by type for each species.
Damage by Plot	Damage values tallied by type for each plot.
Stem Count by Plot and Spp	Count of living stems of each species for each plot; dead and missing stems are excluded.
PROJECT SUMMARY	
Project Code	D040062
project Name	Bailey Fork
Description	Restoration of Bailey Fork and unnamed tributaries
length (ft)	
stream-to-edge width (ft)	
area (sq m)	
Required Plots (calculated)	
Sampled Plots	10

	Table 2. Vegetation \	/igor	by S	pec	ies	5	
	Species	4	3	2	1	0	Missing
	Alnus serrulata	1					
	Cephalanthus occidentalis						1
	Cornus amomum	13	2	1			1
	Fraxinus pennsylvanica	1			1		
	Liriodendron tulipifera	6	1	1			7
	Malus	1					
	Nyssa sylvatica	1					
	Platanus occidentalis	18	11	2			8
	Quercus pagoda	20	3				9
	Quercus phellos	5	3				3
	Rosa palustris	1	1				
	Salix nigra						1
TOT:	12	71	24	6	1	0	30

	Table 3. Ve	get	ation	Dan	nage	e by	Spe	ecie	S				
	Species		All Damage Categories	(no damage)	_Enter other damage_	Deer	Diseased	Flood	Insects	Other/Unknown Animal	Site Too Dry	Unknown	(other damage)
	Alnus serrulata		1	1									
	Cornus amomum		16	15	1								
	Fraxinus pennsylvanica		1	1									
	Liriodendron tulipifera		8	8									
	Malus		1	1									
	Nyssa sylvatica		1	1									
	Platanus occidentalis		31	31									
	Quercus pagoda		23	22		1							
	Quercus phellos		8	8									
	Rosa palustris		2	2									
TOT:		10	92	90	1	1	0	0	0	0	0	0	0

	Table 4. Veg	etatio	on Da	ama	ge b	у Р	lot					1
	plot	All Damage Categories	(no damage)	_Enter other damage_	Deer	Diseased	Flood	Insects	Other/Unknown Animal	Site Too Dry	Unknown	(other damage)
	D040062-01-0001 (year 3)	6	6									
	D040062-01-0002 (year 3)	10	10									
	D040062-01-0003 (year 3)	10	10									
	D040062-01-0004 (year 3)	13	13									
	D040062-01-0005 (year 3)	2	1	1								
	D040062-01-0006 (year 3)	5	5									
	D040062-01-0007 (year 3)	15	15									
	D040062-01-0008 (year 3)	14	14									
	D040062-01-0009 (year 3)	5	4		1							
	D040062-01-0010 (year 3)	12	12									
TOT:	10	92	90	1	1	0	0	0	0	0	0	0

	Table 5. St	tem (Coui	nt by F	Plot	and	Spe	ecies	S					
	Species	Total Stems	# plots	avg# stems	plot D040062-01-0001 (year 3)	plot D040062-01-0002 (year 3)	plot D040062-01-0003 (year 3)	plot D040062-01-0004 (year 3)	plot D040062-01-0005 (year 3)	plot D040062-01-0006 (year 3)	plot D040062-01-0007 (year 3)	plot D040062-01-0008 (year 3)	plot D040062-01-0009 (year 3)	plot D040062-01-0010 (year 3)
	Alnus serrulata	1	1	1	1									
	Cornus amomum	16	6	2.67				6	1		1	3	3	2
	Fraxinus pennsylvanica	1	1	1					1					
	Liriodendron tulipifera	8	3	2.67				1		4	3			
	Malus	1	1	1	1									
	Nyssa sylvatica	1	1	1	1									
	Platanus occidentalis	31	6	5.17	1	1	9	4			6			10
	Quercus pagoda	23	4	5.75		8					4	9	2	
	Quercus phellos	8	6	1.33		1	1	2		1	1	2		
	Rosa palustris	2	1	2	2									
TOT:	10	92	10		6	10	10	13	2	5	15	14	5	12

APPENDIX B

- **Geomorphologic Raw Data**1. Stream Problem Areas Plan View
 - 2. Stream Problem Area Photos
 - 3. Fixed Station Photos
- 4. Table B1. Qualitative Visual Stability Assessment
 5. Cross Section Plots
 6. Longitudinal Plots
 7. Pebble Count Plots

 - 8. Bankfull Event Photos



Vegetation Plot 1 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 2 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 3 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 4 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 5 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 6 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 7 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 8 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 9 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



Vegetation Plot 10 Monitoring Year 3 (EMH&T, Inc. 9/9/08)



ans, Mechwart, Hambleton & Tilton, Inc. gineers • Surveyors • Planners • Scientists 20 New Albany, Road, Columbus, OH 43054 one: 614.775.4500

BAILEY FORK

MONITORING APPENDIX B

Date: November, 2008 Scale: 1" = 200'

Sale: 1" = 200°

Vo: 2006-1626



SPA 1
Area of aggradation along Lower Bailey Fork near station 1+75. Bar is heavily vegetated and stable.

(EMH&T, Inc. 9/9/08)



SPA 2 Close-up view of aggradation over a rock sill in UT1 near station 6+30. (EMH&T, Inc. 9/9/08)



SPA 3
Bank scour in Year 1 along Upper Bailey Fork at station 3+50.
(EMH&T, Inc. 4/13/07)



SPA 4
Bank scour in Year 2 along Upper Bailey Fork at station 3+50.
Bank is now vegetated. W/D ratio is too high resulting in aggradation.
(EMH&T, Inc. 10/22/07)



SPA 5
Bank scour in Year 3 along Upper Bailey Fork at station 3+50.
Close-up of bank shows the heavy vegetation; scour is no longer visible and bank is stable (EMH&T, Inc. 9/9/08)



Fixed Station 1 (Photo Point 13)

Overview of the valley at the confluence of Lower Bailey Fork and UT2, near the downstream terminus of the project, facing upstream.

(EMH&T, Inc. 9/9/08)



Fixed Station 2 (Photo Point 14)

Overview of valley at confluence of Upper Bailey Fork and UT1, facing across the channel from the left to right bank.

(EMH&T, Inc. 9/9/08)



Fixed Station 3 (Photo Point 15)

Overview of valley along UT1 near the upstream terminus of the project, facing downstream.

(EMH&T, Inc. 9/9/08)

	T. 1.1. DA 17: 11 M	7 000 0				
	table B.I. Visual Morphological Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: Upper	tability Assess Project No. D04 pper	ment 1006-02			
		(# Stable)				Feature
		Number	Total	Total Number /	% Perform	Perform.
Ĺ		Performing	number per	feet in unstable	in Stable	Mean or
reature Category	Metric (per As-built and reference baselines	as Intended	As-built	state	Condition	Total
A. Riffles	1. Present?	13	15	2	87	
	2. Armor stable (e.g. no displacement)?	13	15	2	87	
	3. Facet grade appears stable?	13	15	2	87	
	4. Minimal evidence of embedding/fining?	13	15	2	87	
	5. Length appropriate?	13	15	2	87	87%
B. Pools	1. Present? (e.g. not subject to severe aggrad. or migrat.?)	14	16	2	88	
	2. Sufficiently deep (Max Pool D:Mean Bkf>1.6?)	12	16	4	75	
	3. Length appropriate?	14	16	2	88	84%
C. Thalweg	1. Upstream of meander bend (run/inflection) centering?	11	11	0	100	
	2. Downstream of meander (glide/inflection) centering?	11	11	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	10	11	1	91	
	2. Of those eroding, # w/concomitant point bar formation?	11	11	0	100	
	3. Apparent Rc within spec?	11	11	0	100	
	4. Sufficient floodplain access and relief?	11	11	0	100	%86
E. Bed General	1. Geveral channel bed aggradation areas (bar formation)	N/A	N/A	1/ 50 feet	97	
	2. Channel bed degradation - areas of increasing downcutting					
	or headcutting?	N/A	N/A	0/ 0 feet	100	%86
F. Vanes	1. Free of back or arm scour?	16	16	0	100	
	2. Height appropriate?	16	16	0	100	
	3. Angle and geometry appear appropriate?	16	16	0	100	
	4. Free of piping or other structural failures?	16	16	0	100	
	5. Structure buried under aggraded material?	13	16	3	81	%96
G. Wads/ Boulders	1. Free of scour?	N/A	0	N/A	A/N	
	2. Footing stable?	A/N	0	N/A	A/N	A/N

	Table B1 Visual Mornhological Stability Assassment	to hility Assocs	tuomt.			
	Bailey Fork Stream Restoration / EEP Project No. D04006-02	Project No. D04	006-02			
		(# Stable)				Feature
			Total	Total Number /	% Perform	Perform.
			number per	feet in unstable	in Stable	Mean or
reature category	Netric (per As-built and reference baselines	as Intended	As-built	state	Condition	Total
A. Kiffles	1. Present?	6	6	0	100	
	2. Armor stable (e.g. no displacement)?	6	6	0	100	
	3. Facet grade appears stable?	6	6	0	100	
	4. Minimal evidence of embedding/fining?	6	6	0	100	
	5. Length appropriate?	6	6	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggrad. or migrat.?)	10	10	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf>1.6?)	10	10	0	100	
	3. Length appropriate?	10	10	0	100	100%
C. Thalweg	1. Upstream of meander bend (run/inflection) centering?	9	9	0	100	
	2. Downstream of meander (glide/inflection) centering?	9	9	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	9	9	0	100	
	2. Of those eroding, # w/concomitant point bar formation?	9	9	0	100	
	3. Apparent Rc within spec?	9	9	0	100	
	4. Sufficient floodplain access and relief?	9	9	0	100	100%
E. Bed General	1. Geveral channel bed aggradation areas (bar formation)	N/A	A/N	1/ 25 feet	98	
	2. Channel bed degradation - areas of increasing downcutting					
	or headcutting?	A/N	A/N	0/ 0 feet	100	%66
F. Vanes	1. Free of back or arm scour?	6	6	0	100	
	2. Height appropriate?	6	6	0	100	
	3. Angle and geometry appear appropriate?	6	6	0	100	
	4. Free of piping or other structural failures?	6	6	0	100	
	5. Structure buried under aggraded material?	6	6	0	100	100%
G. Wads/ Boulders	1. Free of scour?	N/A	0	N/A	A/N	
	2. Footing stable?	A/N	0	N/A	A/N	N/A

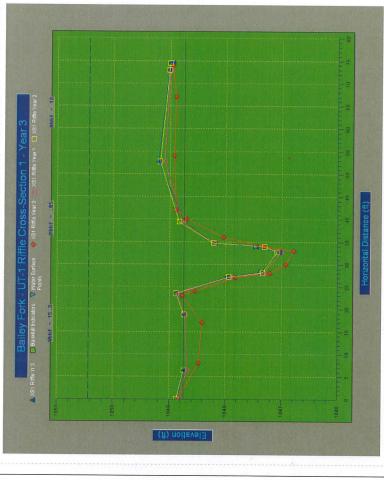
	Table R1. Visual Mornhological Stability Assassment	tability Accord	mont			
	Bailey Fork Stream Restoration / EEP Project No. D04006-02	Project No. DO.	4006-02			
		(# Stable)				Feature
			Total	Total Number /	% Perform	Perform.
- (Performing	number per	feet in unstable	in Stable	Mean or
Feature Category	Metric (per As-built and reference baselines	as Intended	As-built	state	Condition	Total
A. Kiffles	1. Present?	33	32	2	94	
	2. Armor stable (e.g. no displacement)?	33	35	2	94	
	3. Facet grade appears stable?	33	35	2	94	
	4. Minimal evidence of embedding/fining?	30	35	5	86	
	5. Length appropriate?	33	35	2	94	95%
B. Pools	1. Present? (e.g. not subject to severe aggrad. or migrat.?)	33	35	2	94	
	2. Sufficiently deep (Max Pool D:Mean Bkf>1.6?)	25	35	10	71	
	3. Length appropriate?	33	35	2	94	86%
C. Thalweg	1. Upstream of meander bend (run/inflection) centering?	28	28	0	100	
	2. Downstream of meander (glide/inflection) centering?	28	28	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	28	28	0	100	
	2. Of those eroding, # w/concomitant point bar formation?	28	28	0	100	
	3. Apparent Rc within spec?	28	28	0	100	
	4. Sufficient floodplain access and relief?	28	28	0	100	100%
E. Bed General	1. Geveral channel bed aggradation areas (bar formation)	N/A	N/A	2/ 50 feet	97	
	 Channel bed degradation - areas of increasing downcutting or headcutting? 	N/N	A/N	0/ 0 feet	100	7080
F. Vanes	1. Free of back or arm scour?	31	31	0	100	800
	2. Height appropriate?	31	31	0	100	
	3. Angle and geometry appear appropriate?	31	31	0	100	
	4. Free of piping or other structural failures?	31	31	0	100	
	5. Structure buried under aggraded material?	24	31	7	77	%56
G. Wads/ Boulders	1. Free of scour?	12	12	0	100	
	2. Footing stable?	12	12	0	100	100%

	Table B1. Visual Morphological Stability Assessment Bailey Fork Stream Restoration / EEP Project No. D04006-02 Segment/Reach: UT2	tability Assess Project No. D0. F2	ment 4006-02			
		(# Stable)				Feature
		Number	Total	Total Number /	% Perform	Perform.
		Performing	number per	feet in unstable	in Stable	Mean or
Feature Category	Metric (per As-built and reference baselines	as Intended	As-built	state	Condition	Total
A. Riffles	1. Present?	19	19	0	100	
	2. Armor stable (e.g. no displacement)?	19	19	0	100	
	3. Facet grade appears stable?	19	19	0	100	
	4. Minimal evidence of embedding/fining?	19	19	0	100	
	5. Length appropriate?	19	19	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggrad. or migrat.?)	19	19	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf>1.6?)	15	19	4	79	
	3. Length appropriate?	19	19	0	100	93%
C. Thalweg	1. Upstream of meander bend (run/inflection) centering?	15	15	0	100	
	2. Downstream of meander (glide/inflection) centering?	15	15	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	15	15	0	100	
	2. Of those eroding, # w/concomitant point bar formation?	15	15	0	100	
	3. Apparent Rc within spec?	15	15	0	100	
	4. Sufficient floodplain access and relief?	15	15	0	100	100%
E. Bed General	1. Geveral channel bed aggradation areas (bar formation)	A/N	A/N	0/ 0 feet	100	
	2. Channel bed degradation - areas of increasing downcutting					
	or headcutting?	A/N	A/N	0/ 0 feet	100	100%
F. Vanes	1. Free of back or arm scour?	11	11	0	100	
	2. Height appropriate?	11	11	0	100	
	3. Angle and geometry appear appropriate?	11	11	0	100	
	4. Free of piping or other structural failures?	11	11	0	100	
	5. Structure buried under aggraded material?	8	11	3	73	%56
G. Wads/ Boulders	1. Free of scour?	N/A	0	N/A	A/N	
	2. Footing stable?	N/A	0	N/A	N/A	N/A
					-	

Summary Data			PROJECT	PROJECT Bailey Fork
				D04006-2
Bankfull Area	12.99 ft^2			3-YEAR
Bankfull Width	15.32 ft	TASK	Cross-Section	
Mean Depth	0.85 ft	REACH	UT1	
Maximum Depth	1.7 ft	FLAC	40/4/08	
Width/Depth Ratio	18.02	<u>.</u>	00/1/01	
Entrenchment Ratio	4.86			
Classification	Ü	V	CROSS SECTION:	_
		Fuhancement	FEATURE:	Riffle

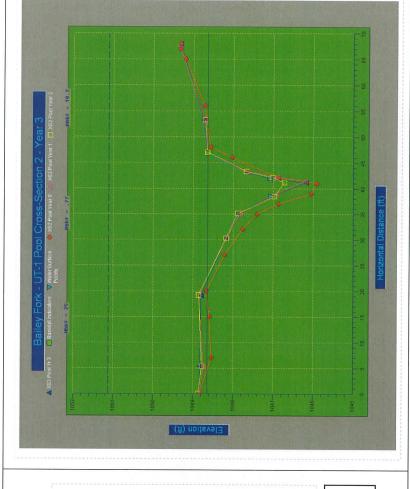


Cross-section photo – looking downstream Channel is obscured by vegetation.





Summary Data			PROJECT	PROJECT Bailey Fork
				D04006-2
Bankfull Area	19.23 ft^2			3-YEAR
Bankfull Width	25.01 ft	TASK	Cross-Section	
Mean Depth	0.77 ft	REACH	UT1	
Maximum Depth	2.47 ft	DATE	10/1/08	
Width/Depth Ratio	32.48			
Entrenchment Ratio	4.2	,		
Classification	Ũ		CROSS SECTION:	2
		Enhancement	FEATURE:	Pool

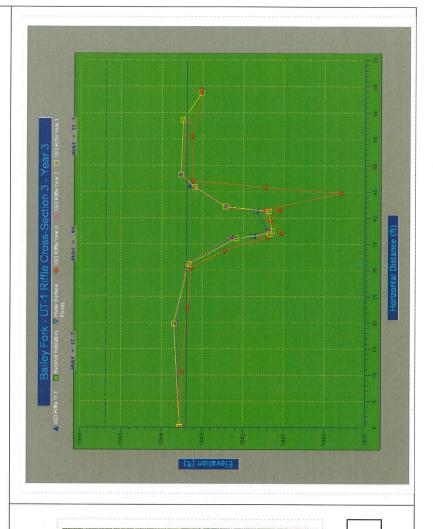




Cross-section photo - looking upstream Channel is obscured by vegetation.



Fork	2 2							
PROJECT Bailey Fork	3-YEAR						ო	Riffle
PROJEC		Cross-Section	UT1	10/1/08		MARCE IN LINEAR VALUE TO PAR	CROSS SECTION:	FEATURE:
e		TASK	REACH	DATE		}		Financement
17-1-17							1.0 F. S.	
	15.15 ft ²	15.75 ft	0.96 ft	1.98 ft	16.41	29.9	C	
Summary Data	Bankfull Area	Bankfull Width	Mean Depth	Maximum Depth	Width/Depth Ratio	Entrenchment Ratio	Classification	





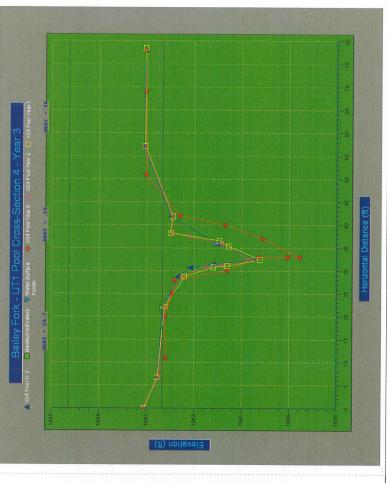


(ff) noitsvəl3

Summary Data			PROJECT	Bailey Fork
				D04006-2
Bankfull Area	13.96 ft²			3-YEAR
Bankfull Width	24.73 ft	TASK	Cross-Section	
Mean Depth	0.56 ft	REACH	UT	
Maximum Depth	1.97 ft	DATE	10/1/08	
Width/Depth Ratio	44.16			
Entrenchment Ratio	3.15			
Classification	O	N	CROSS SECTION:	4
		Enhancement	FEATURE:	Pool







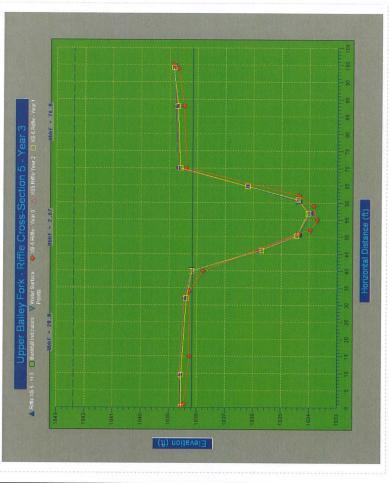


Summary Data			PROJECT	Bailey Fork
				D04006-2
Bankfull Area	76.82 ft ²			3-YEAR
Bankfull Width	28.77 ft	TASK	Cross-Section	
Mean Depth	2.67 ft	REACH	Upper	
Maximum Depth	4.22 ft	DATE	10/1/08	
Width/Depth Ratio	10.78			
Entrenchment Ratio	3.47			
Classification	Щ		CROSS SECTION:	ري ا
		Enhancement	FEATURE:	Riffle





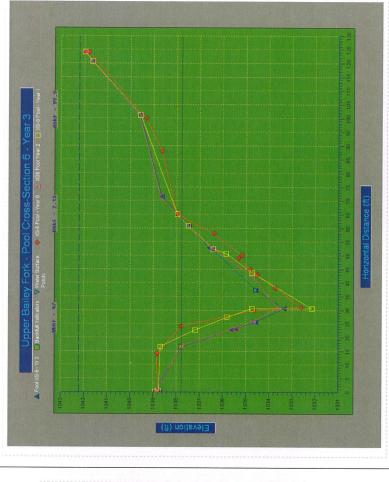






Horizontal Distance (ft)

Summary Data			PROJECT	Bailey Fork
Summary Data				D04006-2
Bankfull Area	99.89 ft²			3-YEAR
Bankfull Width	47 ft	TASK	Cross-Section	
Mean Depth	2.13 ft	REACH	Upper	
Maximum Depth	4.44 ft	DATE	10/1/08	
Width/Depth Ratio	22.07			
Entrenchment Ratio	2.64			
Classification	Ö		CROSS SECTION:	9
		Ecosystem	FEATURE:	Pool

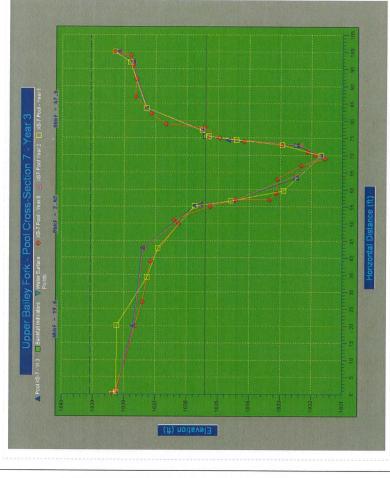




Cross-section photo - looking downstream



Summary Data			PROJECT	Bailey Fork
				D04006-2
Bankfull Area	$47.56 \mathrm{ft}^2$	******		3-YEAR
Bankfull Width	19.63 ft	TASK	Cross-Section	
Mean Depth	2.42 ft	REACH	Upper	
Maximum Depth	3.69 ft	DATE	10/1/08	
Width/Depth Ratio	8.11			
Entrenchment Ratio	5.09			
Classification	田	V	CROSS SECTION:	7
	9	Enhancement	FEATURE:	Pool

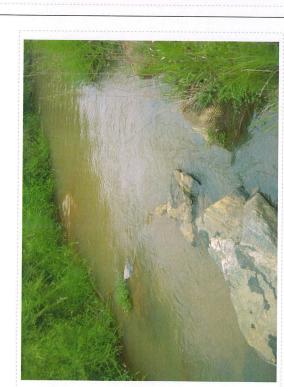




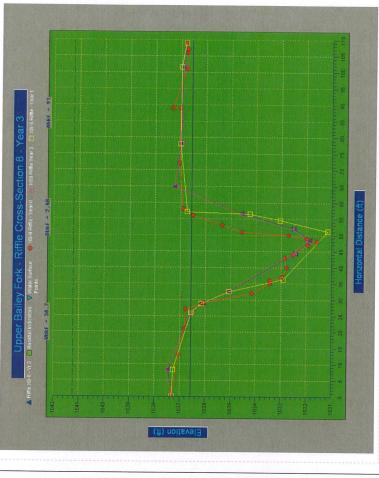




Summary Data			PROJECT	Bailey Fork
Summary Data				D04006-2
Bankfull Area	90.98 ft²			3-YEAR
Bankfull Width	36.74 ft	TASK	Cross-Section	
Mean Depth	2.48 ft	REACH	Upper	
Maximum Depth	4.68 ft	ш Н С	20,4,00	
Width/Depth Ratio	14.81		00/1/00	
Entrenchment Ratio	2.97			
Classification	Э	N	CROSS	œ
		Fooyvatem	FEATURE:	Riffle



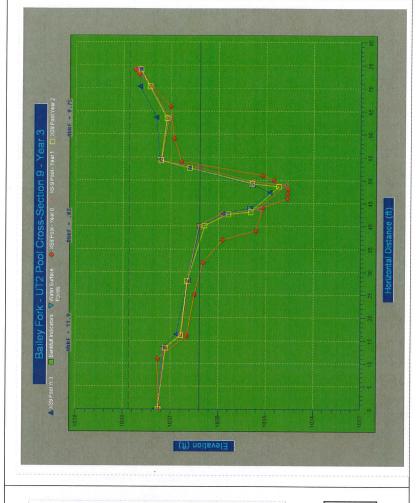






Elevation (ft)

Summary Data			PROJECT	PROJECT Bailey Fork	
				D04006-2	
ankfull Area	9.75 ft²			3-YEAR	
Bankfull Width	11.95 ft	TASK	Cross-Section		
Mean Depth	0.82 ft	REACH	UT2		
aximum Depth	1.48 ft	DATE	10/1/08		
idth/Depth Ratio	14.57				
itrenchment Ratio	6.21				
Massification	Ü	V	CROSS SECTION:	6	
		Fosystem	FEATURE:	Pool	
	第一年,只是有一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们也不是一个,我们				





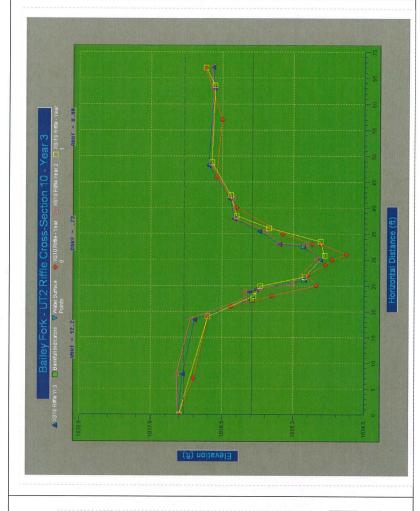
Cross-section photo – looking downstream Channel is obscured by vegetation.





Horizontal Distance (ft)

Summary Data			PROJECT	Bailey Fork
Summary Data				D04006-2
Bankfull Area	$8.88 \ \mathrm{H}^2$			3-YEAR
Bankfull Width	12.25 ft	TASK	Cross-Section	
Mean Depth	0.73 ft	REACH	UT2	
Maximum Depth	1.2 ft	DATE	10/1/08	
Width/Depth Ratio	16.78			
Entrenchment Ratio	4.75			
Classification	O		CROSS SECTION:	10
		Enhancement	FEATURE:	Riffle





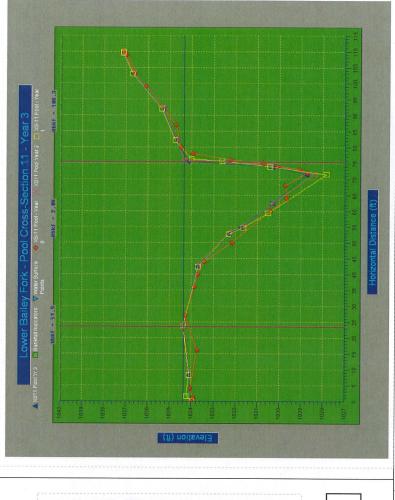
Cross-section photo – looking downstream Channel is obscured by vegetation.





Horizontal Distance (ft)

4			PROJECT	PROJECT Bailey Fork
Summary Data				
				D04006-2
Bankfull Area	108.26 ft ²			3-YEAR
Bankfull Width	51.94 ft	TASK	Cross-Section	
Mean Depth	2.08 ft	REACH	Lower	
Maximum Depth	5.6 ft	DATE	10/1/08	
Width/Depth Ratio	24.97			
Entrenchment Ratio	2.31	,		
Classification	Ü	Y	CROSS SECTION:	11
		Enhancement	FEATURE:	Pool



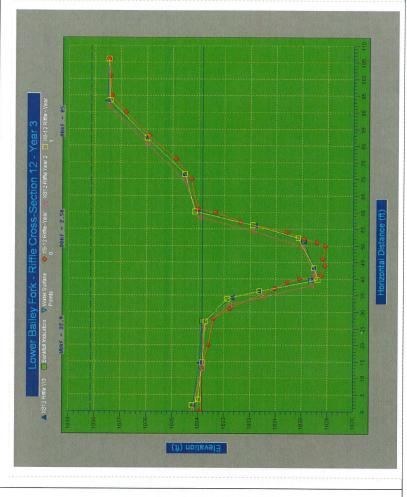






Horizontal Distance (ft)

Summary Data			PROJECT	PROJECT Bailey Fork
				D04006-2
Bankfull Area	$85 \mathrm{ft}^2$			3-YEAR
Bankfull Width	32.89 ft	TASK	Cross-Section	
Mean Depth	2.58 ft	REACH	Lower	
Maximum Depth	4.31 ft	DATE	10/1/08	
Width/Depth Ratio	12.75	1		
Entrenchment Ratio	3.17			
Classification	C	V	CROSS SECTION:	12
		Fanancement	FEATURE:	Riffle



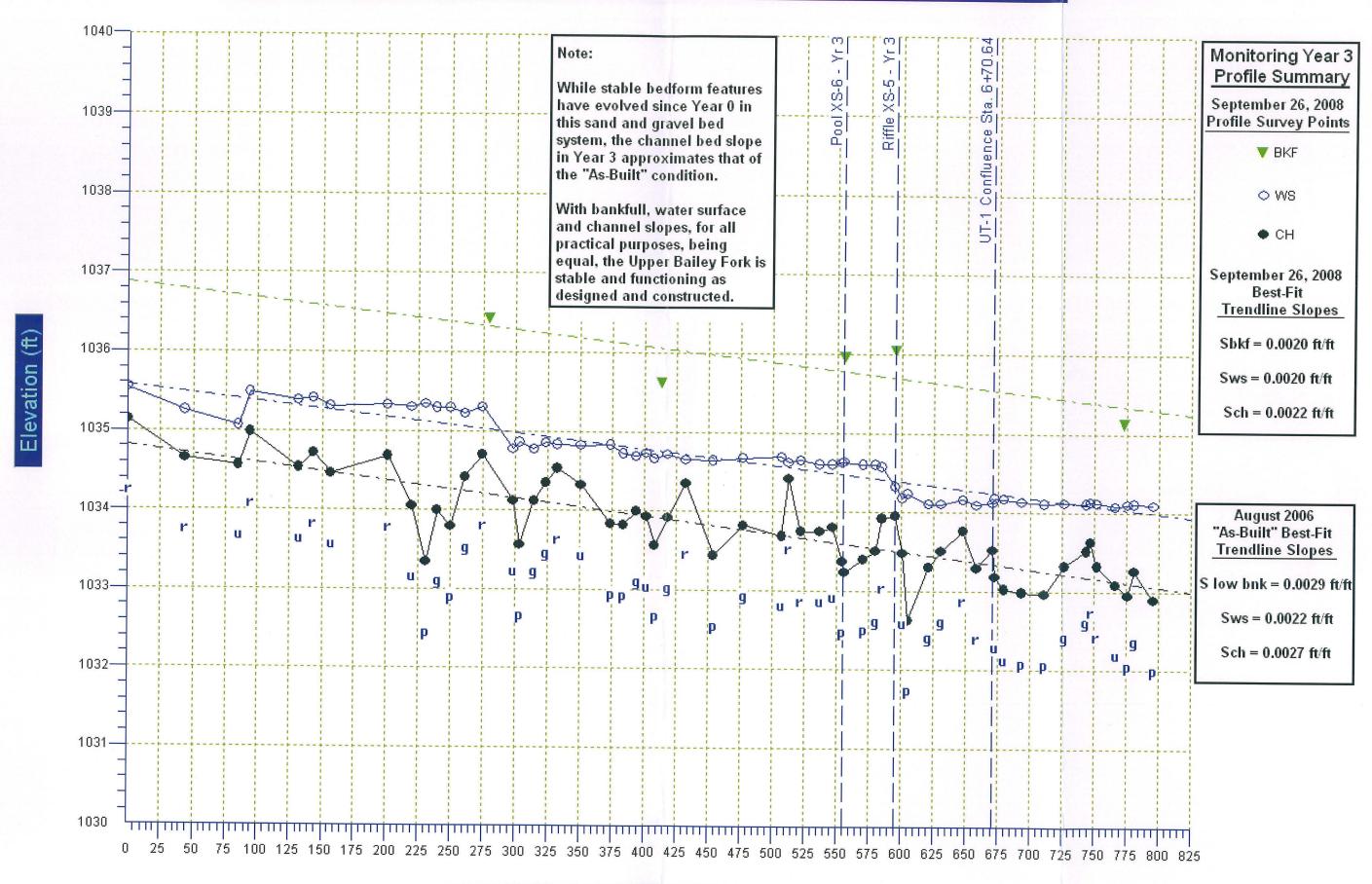




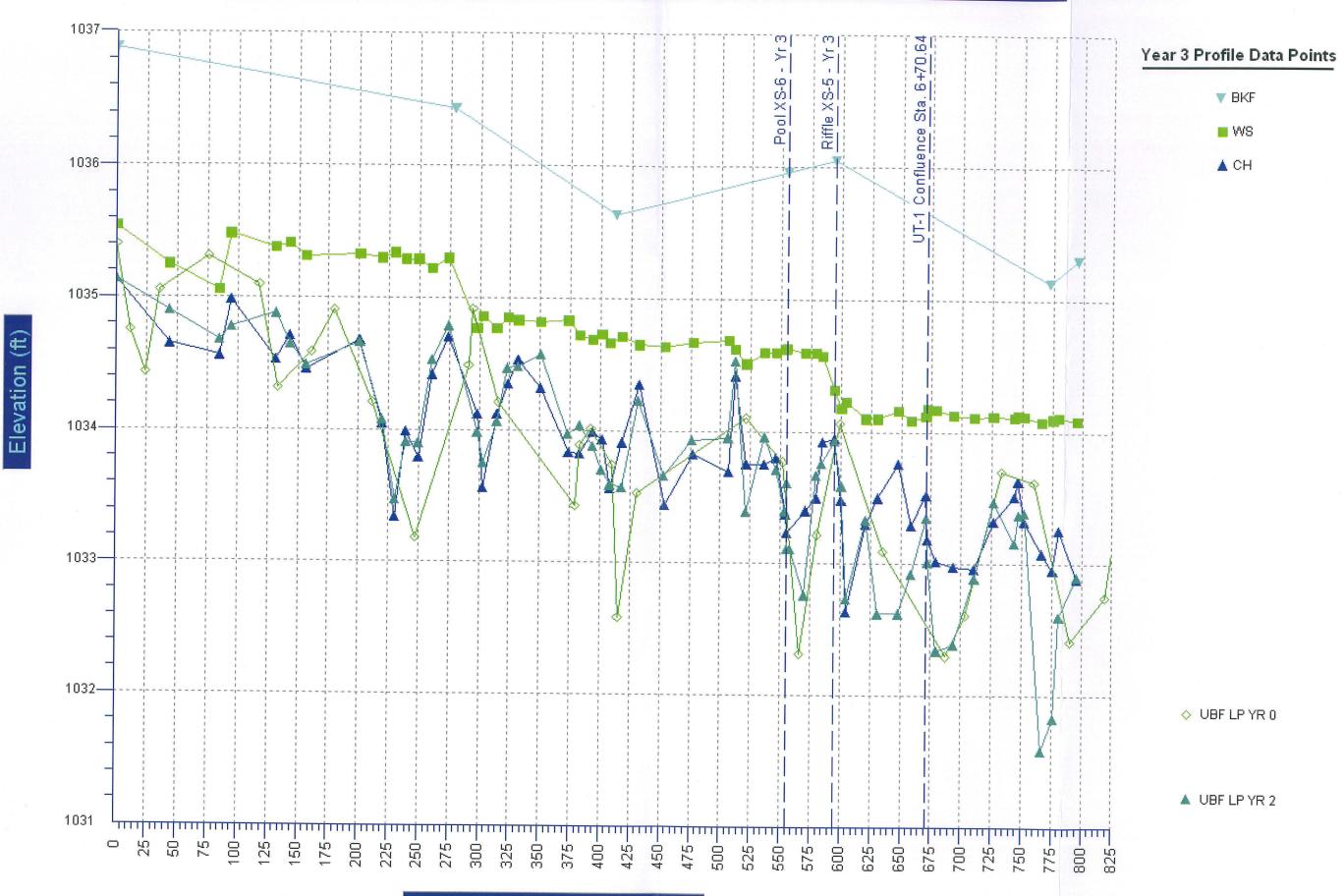


Elevation (ft)

Upper Bailey Fork - Long-Term Monitoring Profile - Year 3

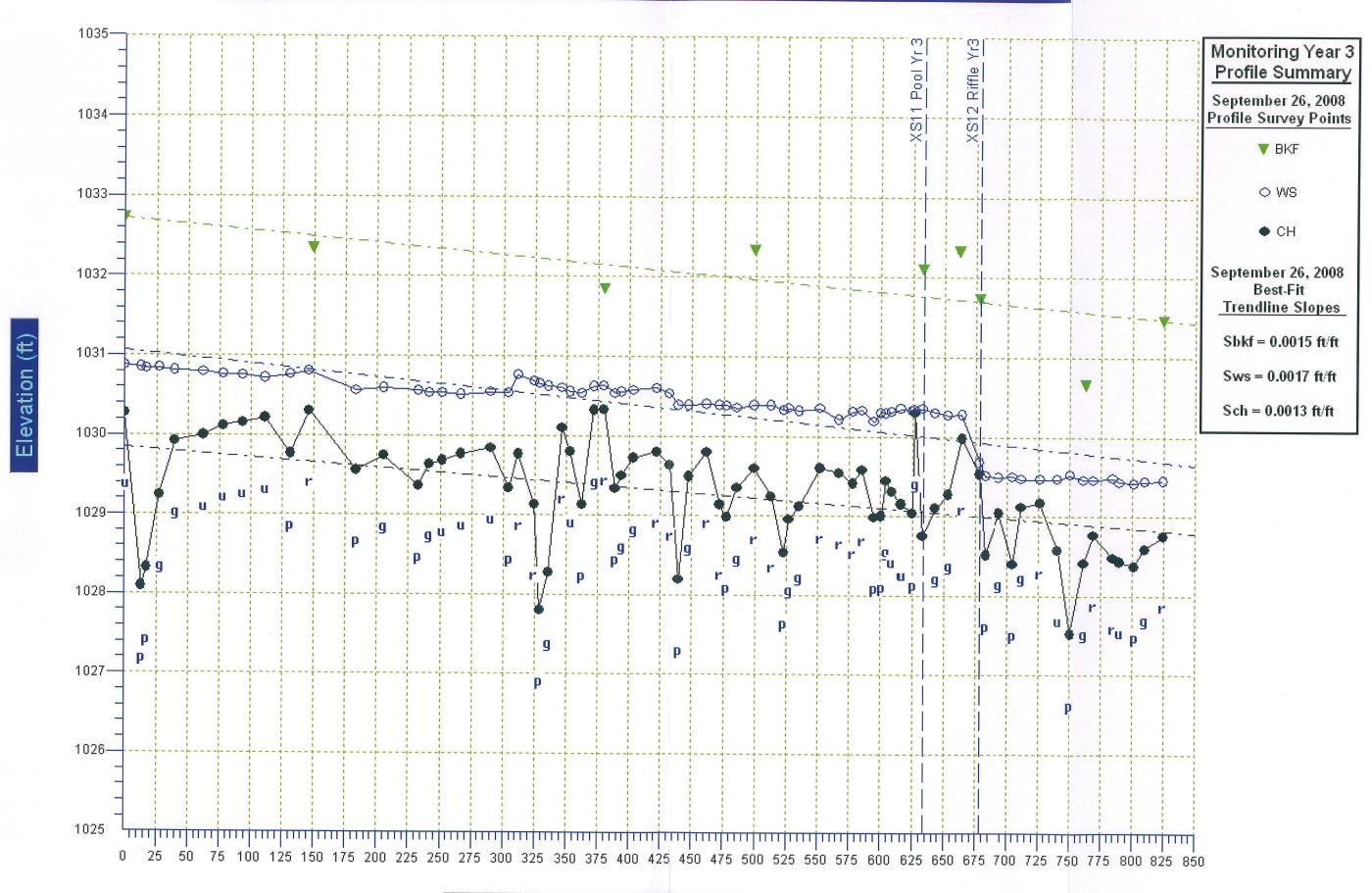


Upper Bailey Fork - Long-Term Monitoring Profile - Year 3

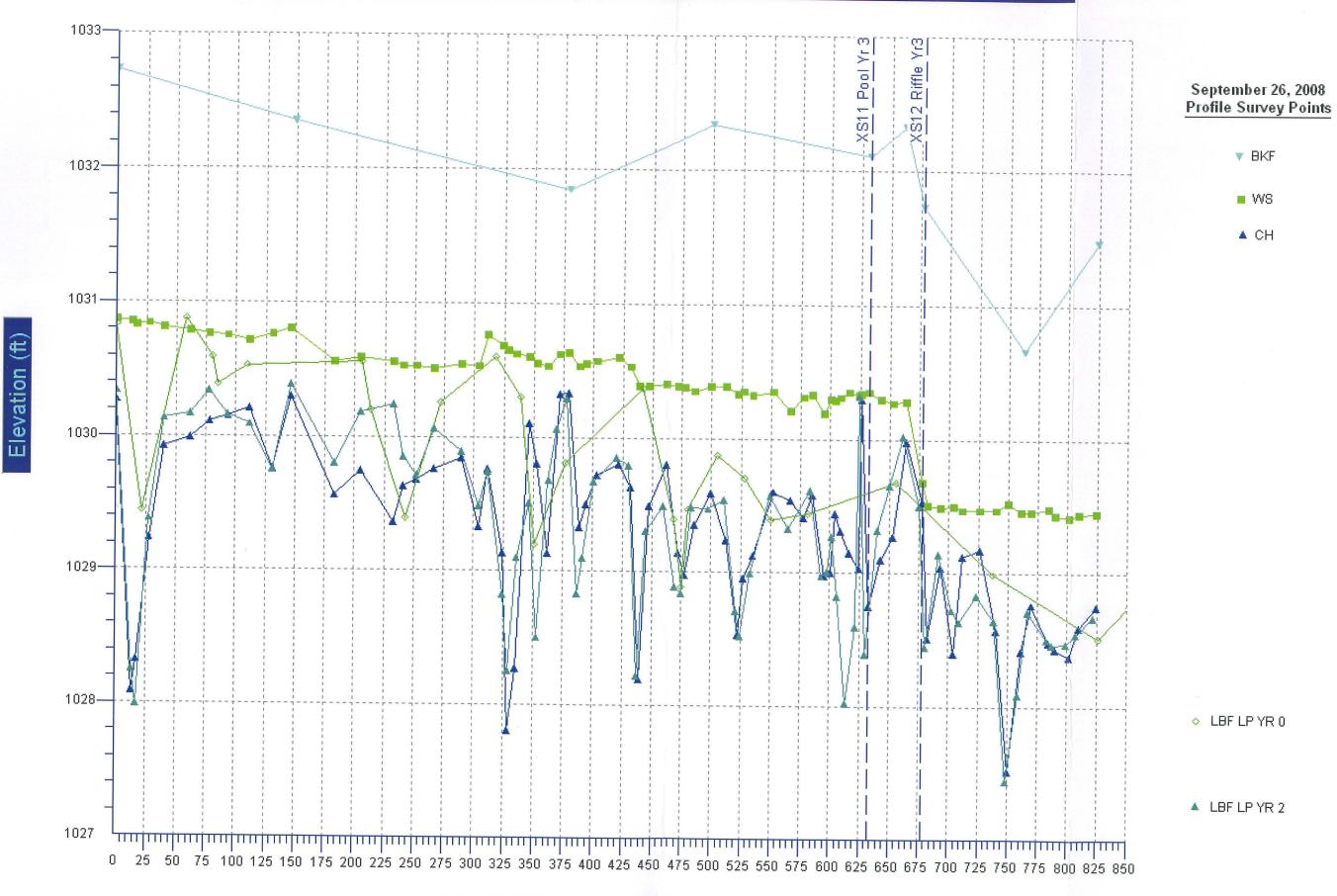


Distance along stream (ft)

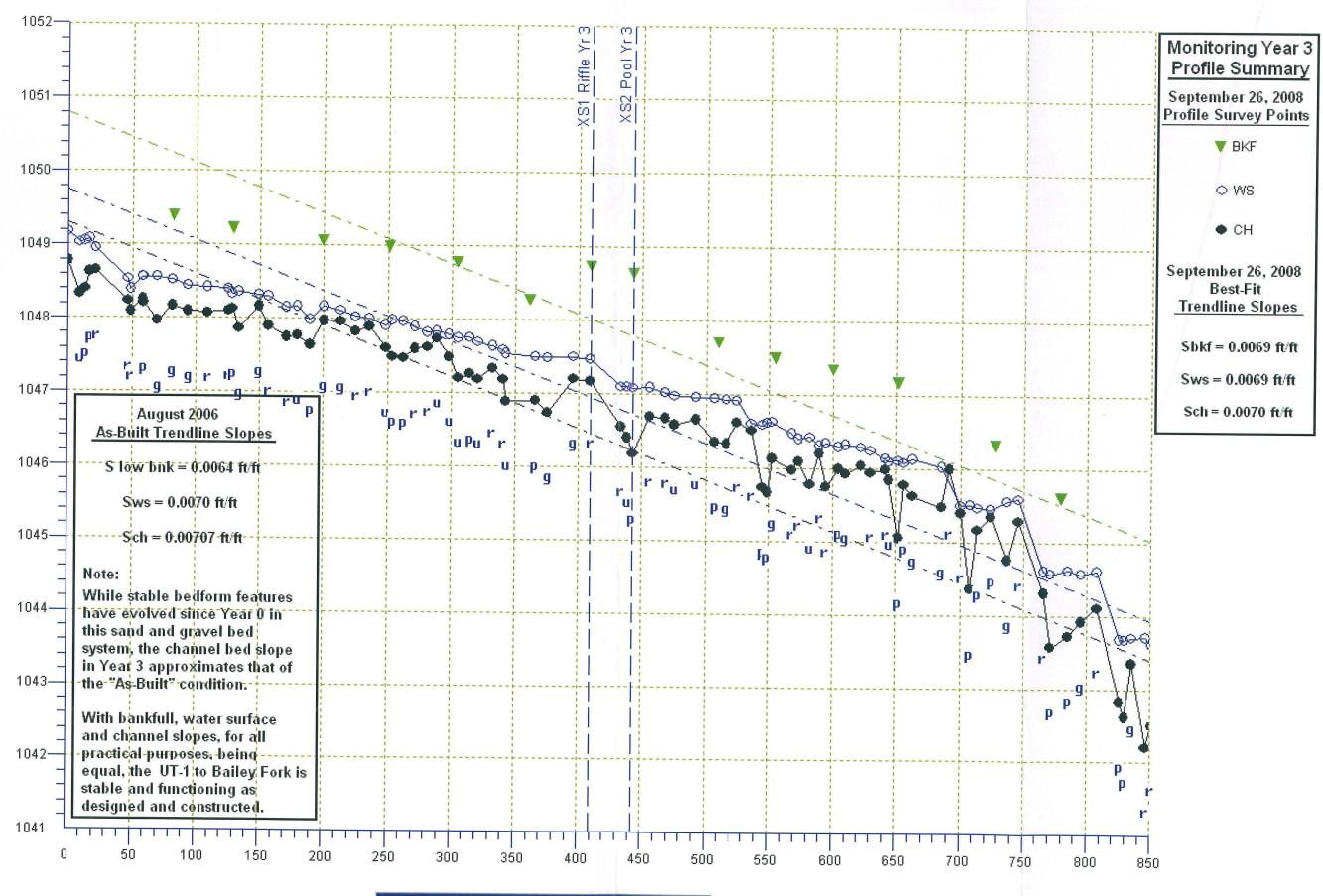
Lower Bailey Fork - Long-Term Monitoring Profile - Year 3



Lower Bailey Fork - Long-Term Monitoring Profile - Year 3

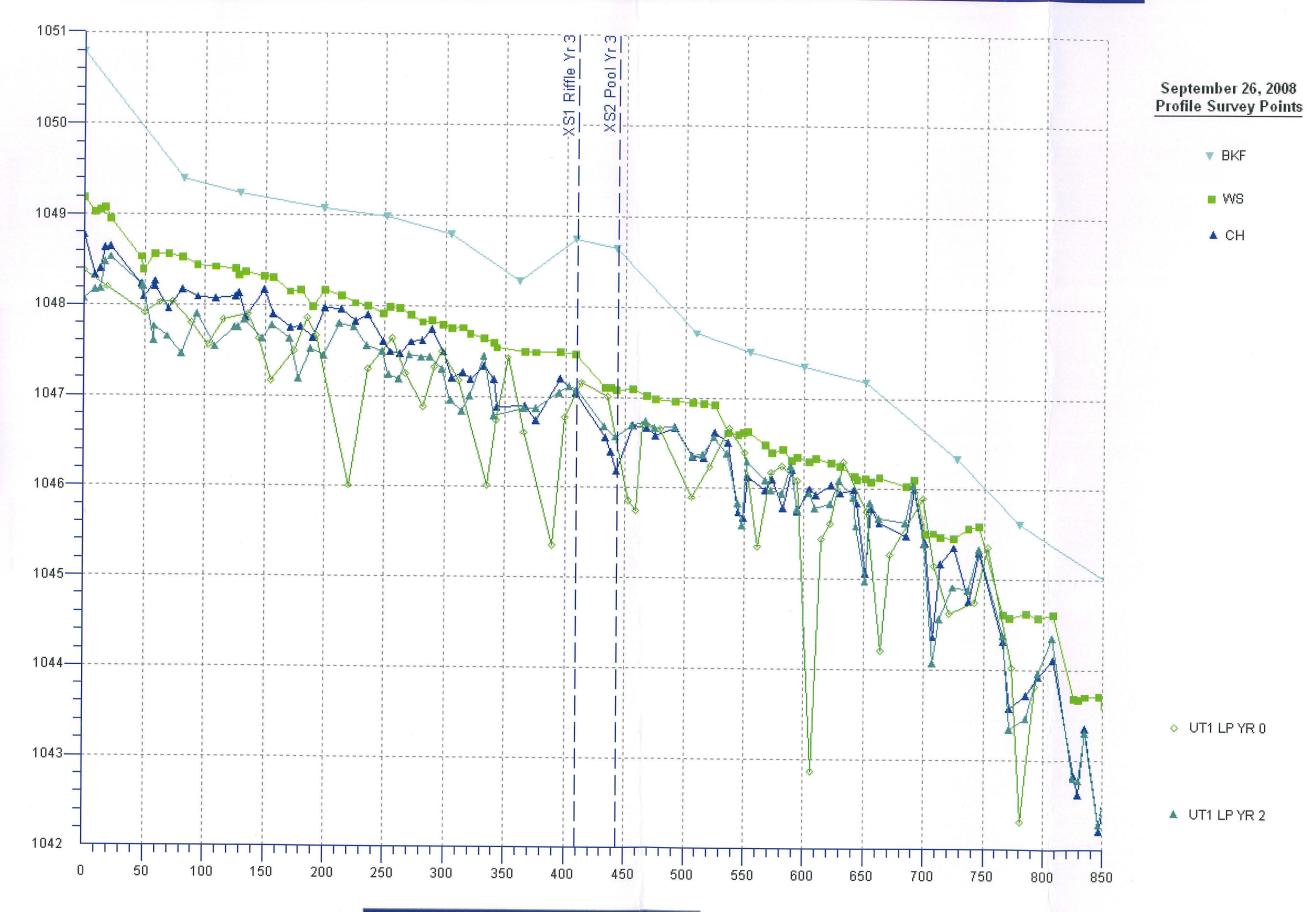


Bailey Fork - UT1 Long-Term Monitoring Profile - Year 3



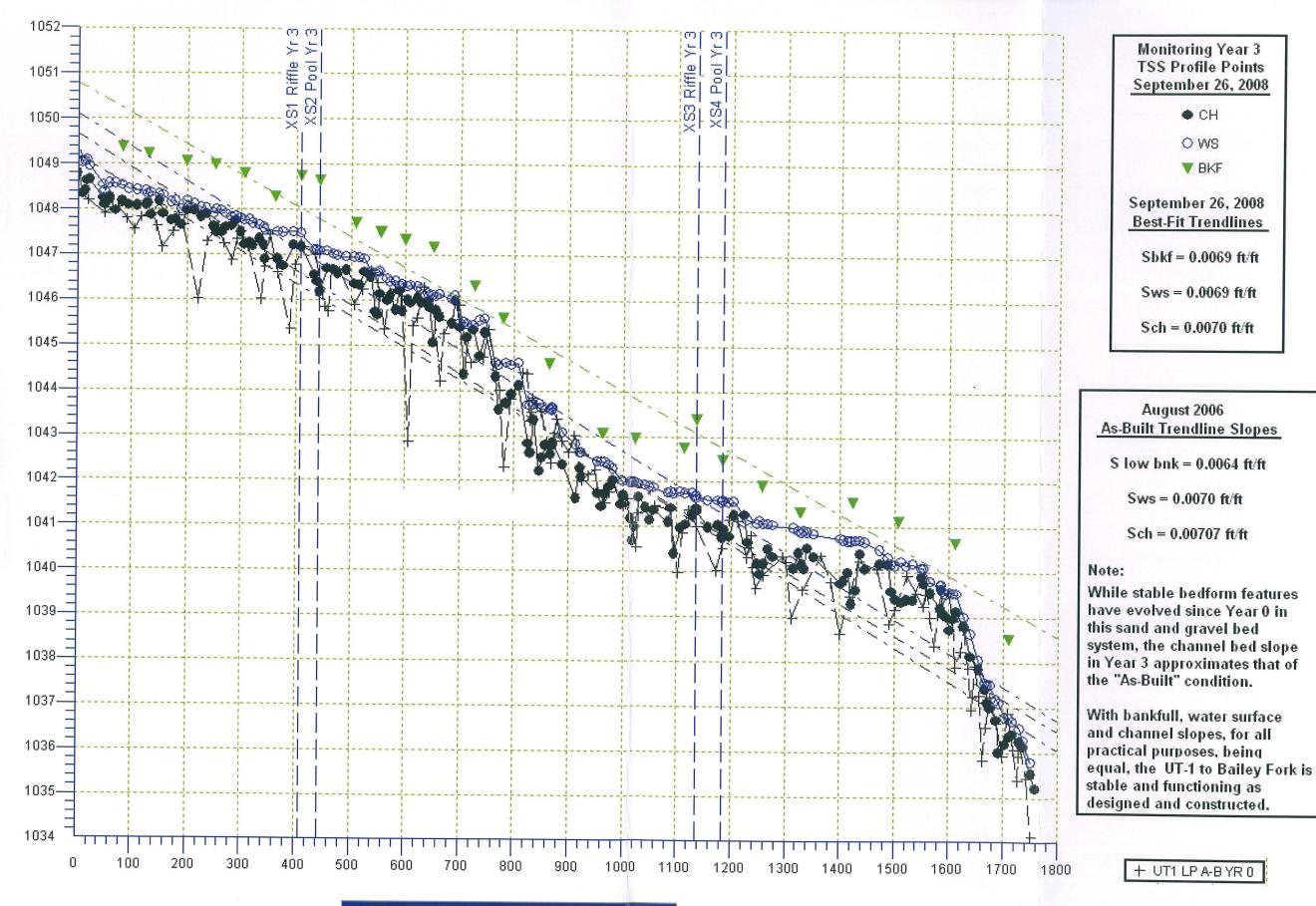
Distance along stream (feet)





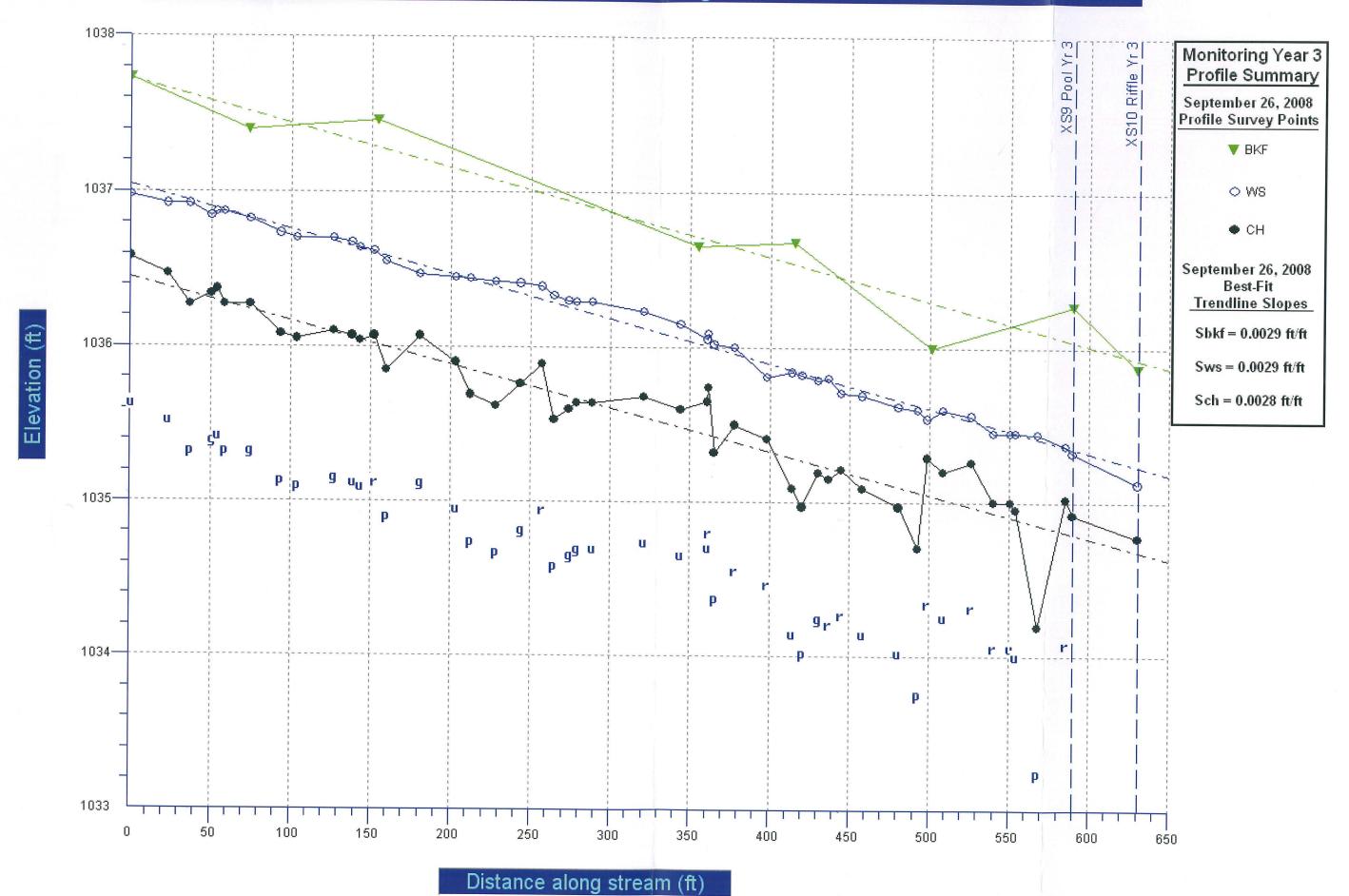
Distance along stream (feet)

Bailey Fork - UT1 Reach Monitoring Profile - Year 3 - 09/26/2008

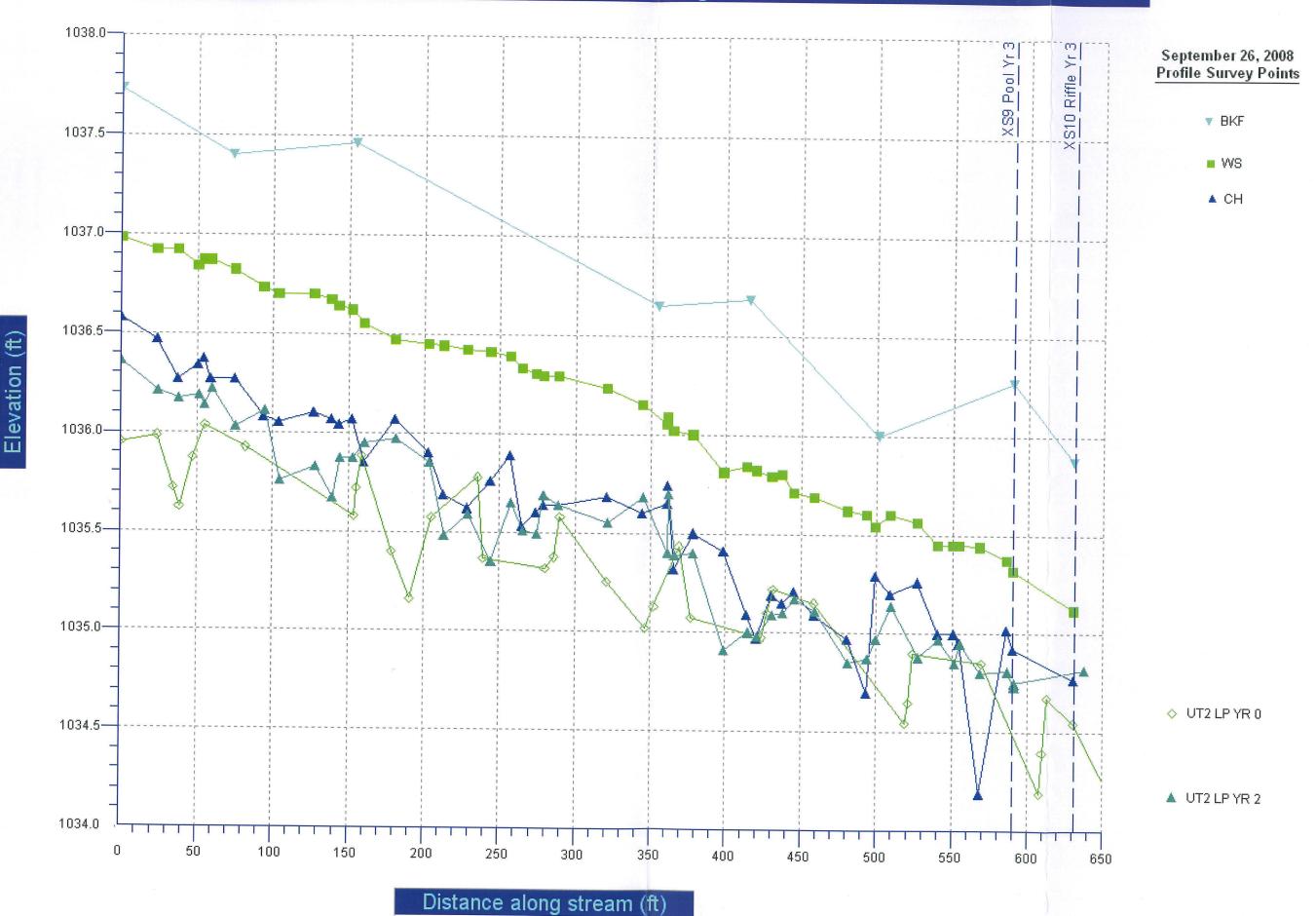


Distance along stream (feet)

Bailey Fork UT-2 - Long-Term Monitoring Profile - Year 3 - 09/26/2008



Bailey Fork UT-2 - Long-Term Monitoring Profile - Year 3 - 09/26/2008



Dobble Count Deel					Bailey Fork Str	Bailey Fork Stream Restoration EE	EEP Project No. D04006-02	o. D04006-02	
Material	Particle Size (mm)	Count	% in Range	% Cumulative	Reach	UT1	X Sec) c	2
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Very Fine Sand	0.062-0.125	2	2	37		Histo	Histogram		
Fine Sand	0.125-0.25	14	14	51	40				
Medium Sand	0.25-0.5	0	0	51	35				
Coarse Sand	0.5-1.0	33	33	84	30 -				
Very Coarse Sand	1.0-2.0	16	16	100					
Very Fine Gravel	2.0-4.0	0	0	100	n Rai				
Fine Gravel	4.0-5.7	0	0	100	2 9				
Fine Gravel	5.7-8.0	0	0	100	01				
Medium Gravel	8.0-11.3	0	0	100			-	-	
Medium Gravel	11.3-16.0	0	0	100	0.062 0.25	1 4 8 16	16 32 64 1	128 256 512	2048
Coarse Gravel	16.0-22.6	0	0	100		Laure	de Olze (IIIIII)		
Coarse Gravel	22.6-32	0	0	100		Particle Size Distribution	stribution		
Very Coarse Gravel	32-45	0	0	100	100				
Very Coarse Gravel	45-64	0	0	100	06				
Small Cobble	64-90	0	0	100	08				
Small Cobble	90-128	0	0	100	9 70				
Large Cobble	128-180	0	0	100	ni¶ %			7.00	
Large Cobble	180-256	0	0	100	4 9vit			Year 2	- 2
Small Boulder	256-362	0	0	100				Year	8
Small Boulder	362-512	0	0	100					
Medium Boulder	512-1024	0	0	100	707				
Large Boulder	1024-2048	0	0	100	or 0				
Bedrock	<2048	0	0	100	0.1	1 10	100	1000	10000
To	Totals	100	100		D20=	D50= 0.24mm Particl	Particle Size (mm)	D84=1.0mm	

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 | Balley Fork Stream Restoration EEP Project No. D04006.02 | Count % in Range % Cumulative Count % in Range % in R | Balley Fork Stream Restoration EEP Project No. D04006.02
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 | Count % in Range % Cumulative Pailey Fork Stream Restoration EEP Project No. D04006-02

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| Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range Count % in | Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range Cumulative % Count % in Range Cumulative % Count % | Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range Count % in Range Count % in Range Cumulative % in Ran | Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range % Cumulative Count % in Range Count % in | Count % in Range % Cumulative Reach Upper X Sec | Count % in Range % Cumulative Reach Upper X Sec |

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06-02	7	11+00						-	۵		-	512 2048									Year 3				10000	4mm
t No. D040	X Sec	Sta No.										128 256	,							1 1					1000	D84=0.94mm
EEP Project No. D04006-02	X	Sta	Histogram)								16 32 64	de Size (IIIII	distribution											100	Particle Size (mm)
	Upper	80/6/6	Hist								-	8 16	raine	Particle Size Distribution											10	Partic
Bailey Fork Stream Restoration	Ŋ	6/6										1 4		Ā					Į	7					-	D50= 0.54mm
ey Fork St	Reach	Date										0.062 0.25			001	8 8	08	70	09	50	40	30	10	0	0.1	D20
Baile	4			45	40	35	30 25 25	Rang 2		10	0							э	niA &	% эvii	einm	m)				
	% Cumulative	20	20	34	47	89	86	86	86	86	86	86	86	86	86	86	86	100	100	100	100	100	100	100	100	
	% in Range	20	0	14	13	42	6	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	100
	Count	13	0	6	8	27	9	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	64
	Particle Size (mm)	<0.062	0.062-0.125	0.125-0.25	0.25-0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-5.7	5.7-8.0	8.0-11.3	11.3-16.0	16.0-22.6	22.6-32	32-45	45-64	64-90	90-128	128-180	180-256	256-362	362-512	512-1024	1024-2048	<2048	als
Pebble Count - Pool	Material	Silt/Clay	Very Fine Sand	Fine Sand	Medium Sand	Coarse Sand	Very Coarse Sand	Very Fine Gravel	Fine Gravel	Fine Gravel	Medium Gravel	Medium Gravel	Coarse Gravel	Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel	Small Cobble	Small Cobble	Large Cobble	Large Cobble	Small Boulder	Small Boulder	Medium Boulder	Large Boulder	Bedrock	Totals

Bailey Fork Stream Restoration EEP Project No. D04006-02	UT2 X Sec 10	9/9/08 Sta No. 6+50		Histogram								0.25 1 4 8 16 32 64 128 256 512 2048	Particle Size (mm)	Particle Size Distribution						Year 1	- Year 3				T.	Particle Size (mm)
Bailey For	Reach	Date		•	8 9 9	14		guey ⊙ ∝		4	2 0	0.062			100	+ 06	08	9 70	ni4 &	% 9vit			07	0 0	0.1	
	% Cumulative	16	16	16	18	34	49	49	51	52	59	99	70	79	82	89	93	97	100	100	100	100	100	100	100	
	% in Range	16	0	0	2	16	15	0	2	2	7	7	5	8	3	7	5	3	3	0	0	0	0	0	0	
	Count	10	0	0	1	10	6	0	1	1	4	4	3	5	2	4	3	2	2	0	0	0	0	0	0	
٥	Particle Size (mm)	<0.062	0.062-0.125	0.125-0.25	0.25-0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-5.7	5.7-8.0	8.0-11.3	11.3-16.0	16.0-22.6	22.6-32	32-45	45-64	64-90	90-128	128-180	180-256	256-362	362-512	512-1024	1024-2048	<2048	
Pebble Count – Riffle	Material	Silt/Clay	Very Fine Sand	Fine Sand	Medium Sand	Coarse Sand	Very Coarse Sand	Very Fine Gravel	Fine Gravel	Fine Gravel	Medium Gravel	Medium Gravel	Coarse Gravel	Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel	Small Cobble	Small Cobble	Large Cobble	Large Cobble	Small Boulder	Small Boulder	Medium Boulder	Large Boulder	Bedrock	

Pebble Count – Pool					Bailey Fork Str	Bailey Fork Stream Restoration EE	EEP Project No. D04006-02	. D04006-02	
Material	Particle Size (mm)	Count	% in Range	% Cumulative	Reach	Lower	X Sec		11
Silt/Clay	<0.062	8		13	Date	80/6/6	Sta No.		00+9
Very Fine Sand	0.062-0.125	0	0	13		Пофосмон			
Fine Sand	0.125-0.25	4	7	20	- 05		Si am		
Medium Sand	0.25-0.5	2	3	23	. 45				
Coarse Sand	0.5-1.0	5	8	32	40				
Very Coarse Sand	1.0-2.0	26	43	75	35				
Very Fine Gravel	2.0-4.0	10	17	92	Range 25		(r		
Fine Gravel	4.0-5.7	3	5	76	[mi % 15				
Fine Gravel	5.7-8.0	1	2	86					
Medium Gravel	8.0-11.3	0	0	86	\$ 6				
Medium Gravel	11.3-16.0	0	0	86	0.062 0.25	1 4 8 16	32 64 128	8 256 512	2048
Coarse Gravel	16.0-22.6	1	2	100		Particl	Particle Size (mm)		
Coarse Gravel	22.6-32	0	0	100		Particle Size Distribution	stribution		
Very Coarse Gravel	32-45	0	0	100	100				E
Very Coarse Gravel	45-64	0	0	100	06				
Small Cobble	64-90	0	0	100	08				
Small Cobble	90-128	0	0	100	e 70				
Large Cobble	128-180	0	0	100	mi4 %			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Large Cobble	180-256	0	0	100	P Sylpi			Year 2	
Small Boulder	256-362	0	0	100				Year 3	
Small Boulder	362-512	0	0	100	Cu 30				
Medium Boulder	512-1024	0	0	100	207				
Large Boulder	1024-2048	0	0	100	0				
Bedrock	<2048	0	0	100	0.1	1 10	100	1000	10000
To	Totals	09	100		D20=	D50= 1.42mm	rarucie Size (mm)	D84=3.08mm	
		-							

Pepple Count – Riffle	lle				Bailey Fork Str	Bailey Fork Stream Restoration EE	EEP Project No. D04006-02	D04006-02	
Material	Particle Size (mm)	Count	% in Range	% Cumulative	Reach	Lower	X Sec	8	12
Silt/Clay	<0.062	2	3	3	Date	80/6/6	Sta No.		05+9
Very Fine Sand	0.062-0.125	1	2	5		77.11			
Fine Sand	0.125-0.25	0	0	5	71	HISTOGRAM	gram		
Medium Sand	0.25-0.5	0	0	5	14				
Coarse Sand	0.5-1.0		2	7 7	12				
Very Coarse Sand	1.0-2.0	4	7	13	nge 10				
Very Fine Gravel	2.0-4.0	1	2	15	in Ra			(180)20	
Fine Gravel	4.0-5.7	4	7	22	9				
Fine Gravel	5.7-8.0	0	0	22	4				
Medium Gravel	8.0-11.3	4	7	28	2				
Medium Gravel	11.3-16.0	2	3	32	0.062 0.25	1 4 8 16	32 64 128	256 512	2048
Coarse Gravel	16.0-22.6	1	2	33		Particle	Particle Size (mm)		
Coarse Gravel	22.6-32	2	3	37		Particle Size Distribution	stribution		
Very Coarse Gravel	32-45	3	5	42	100				-
Very Coarse Gravel	45-64	7	12	53	06				
Small Cobble	64-90	7	12	65	08				
Small Cobble	90-128	7	12	77	• 02 20				
Large Cobble	128-180	6	15	92	иіЧ %			×	
Large Cobble	180-256	4	7	86	% 9vii			Year 2	- 2
Small Boulder	256-362	1	2	100			\ \	Year	ю П
Small Boulder	362-512	0	0	100		1			
Medium Boulder	512-1024	0	0	100	20	1			
Large Boulder	1024-2048	0	0	100					
Bedrock	<2048	0	0	100	0.1	1 10	100	1000	10000
To	Totals	09	100		D5(D50= 58.57mm Particle	Particle Size (mm)	D84=153.41mm	
×									



BF 1 Crest Gage 1 on UT1. (EMH&T, Inc. 7/19/07)



BF 2 Crest Gage 4 on Lower Bailey. (EMH&T, Inc. 10/17/07)