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The Impact of Drainage Ditches on Salt Marsh Flow Patterns, Sedimentation and Morphology: Rowley River, Massachusetts

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THE IMPACT OF DRAINAGE DITCHES ON SALT MARSH FLOW PATTERNS, SEDIMENTATION AND MORPHOLOGY: ROWLEY RIVER, MASSACHUSETTS

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TABLE OF CONTENTS

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LIST OF TABLES

LIST OF FIGURES

ABSTRACT

Salt marshes along many tidal systems in New England have been ditched since colonial times. These ditches have been thought to help control mosquito populations and increase salt marsh hay production by improving water drainage from the marsh. Although these ditches are prominent geomorphic features, little quantitative work has focused on how these man-made ditches may alter marsh hydrology and geomorphology. This study attempts to quantify the ways in which ditches alter sediment and water transport pathways and how that affects the overall morphology and surface geology. This study also addresses treatment affects on sedimentation from fertilization and fish removal associated with the NSF funded TIDE project.

Short-term sediment deposition rates and relative elevations were determined for ditched and non-ditched marsh areas in four tidal creeks along the Rowley River in the summers of 2003, 2004, 2005, and 2006. Total suspended solids samples were also collected in the creek channels adjacent to the marsh areas sampled. Marsh surface samples for grain size analysis and organic content were collected as well. To quantify flow patterns, a grid system of stakes was set up on the marsh platform of two creek systems and water height was measured relative to these stakes over the course of a tidal cycle. This allowed for a better determination of the areas that flooded first and how long water stayed on the marsh platform in ditched and non-ditched areas.

Measurements of marsh platform elevation indicated that the interior regions of ditched areas stand significantly lower than non-ditched areas. In ditched marsh areas, the hydrologic data demonstrated that the interior regions of the marsh were typically flooded first and stayed flooded longer. Non-ditched regions instead were flooded only after the water had topped the creek bank. As a result of these modified flow pathways, classic patterns of sedimentation and of organic matter and grain size distribution occurred less often in ditched marsh areas relative to non-ditched areas. In contrast to non-ditched marsh platforms, ditched platforms commonly had areas of increased deposition, decreased organic matter and increased grain size in innermost marsh areas. Although the absolute magnitude of deposition was similar with or without ditches, deposition in ditched areas was somewhat less responsive to the classic control of hydroperiod.

Possible explanations for lower platform elevation in ditched marshes include (i) trapping of suspended sediment in ditches and (ii) enhancement of sediment export associated with the short distance from platform to ditch. The former is consistent with observations of lower concentration in ditches relative to natural creeks, and the latter is consistent with observations of coarser grain size and lower organic content observed on ditched marshes relative to non-ditched marshes. A longer hydroperiod and lower elevation in ditched areas would then be required at equilibrium to enhance net deposition so that accretion could keep up with relative sea level rise. The similar observed magnitudes of deposition in ditched and non-ditched areas supports the conclusion that the lower elevation of ditched platforms is in quasi-equilibrium with the higher elevations of non-ditched areas.

Other results of this study include a demonstration of the high (1-2 cm) accuracy of the tide stick method for measuring marsh elevation, the finding that short term source of marsh sediment is primarily internal cycling, and the finding that fertilizing creeks systems and removing fish have no significant effects on short term sediment concentration, sediment delivery, sedimentation, inorganic sediment properties or marsh elevation.

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1. INTRODUCTION

1.1 Motivation

Tidal salt marshes are morphologically dynamic systems and can be rapidly altered by changes in the environmental conditions (Friedrichs and Perry, 2001). Because marsh systems act as natural buffers and transitional zones between aquatic and terrestrial areas, it is important to understand the processes that maintain and stabilize these systems, especially during a rise in sea level (Stevenson et al., 2002). Natural variability does not act alone in changing environmental conditions. Human-induced alterations, including physically altered landscapes and increased nutrient inputs, enhance natural fluctuations (Friedrichs and Perry, 2001). As a result, salt marsh areas have the potential to be dramatically altered, or even reduced.

It is expected that under natural conditions, well-established marshes will normally receive ample sediment to be sustained during a gradual rise in sea level (Reed, 1990). However, it is yet to be seen if under altered conditions, such as increased anthropogenic inputs of nutrients, the ability of marsh to accrete during a sea level rise is maintained. To sustain a sea level rise, sediment and peat loss must be balanced with an increase in the amount of inorganic sediment deposited combined with peat accumulation (Deegan et al, in press). Gehrels and Leatherman (1989) hypothesize that marsh development is a direct result of sea level rise. Yet, it is known that many other factors, such as sediment supply, geomorphology, subsidence and vegetation, influence marsh stability and development (Reed, 1990).

Particular emphasis in this study is placed on investigating the effects of man-made ditches on salt marsh processes. Ditches are a ubiquitous feature in New England salt marshes, and in other regions along the US coastlines (Bourn and Cottam, 1950; Resh and Balling, 1983). Originally dug to promote the harvesting and production of salt marsh hay, the ditches were later maintained and expanded in an effort to reduce mosquito infestation (Jewett, 1949; Bottitta and Whiting-Grant, 2004). These ditches can impact marsh hydrology and alter biological communities (Lesser et al., 1976; Shishler and Jobbins, 1977; Resh and Balling, 1983; Clarke et al., 1984; Collins et al., 1986). However, little work has been done that addresses the role of ditches in influencing the sediment transport and deposition processes that form equilibrium marsh morphology and that help maintain salt marsh elevation in the face of sea level rise and/or eutrophication. As such, the aim of this research is to gain a better understanding of the way ditches affect marsh hydrodynamics, sediment transport, and morphodynamics.

1.2 TIDE project

This study is part of a larger collaborative research project known as TIDE (Trophic cascades and Interacting control processes in a Detritus-based Ecosystem) that is supported by the National Science Foundation. The overall goal of the TIDE project is to understand the interactive effects of nutrient loading and loss of key nekton species on biogeochemical cycling, food webs, and marsh stability, all under the influence of a rising sea level (Deegan et al., in press). Two whole creek manipulations were conducted as part of this study in salt marshes adjacent to the Rowley River, Massachusetts. Manipulations include fertilization and fish removal experiments to assess the bottom up and top down controls in the system. By adding nutrients to a fairly pristine marsh habitat, the TIDE project aims to realistically simulate anthropogenic nutrient loading. This allows for the study of the initial impacts of nutrient enrichment on the physical, biological, and chemical processes active in a marsh ecosystem (Deegan et al, in press).

There are three primary objectives driving the research of the TIDE project (Deegan et al., in press). The first is to better understand the basic controls on ecosystem function in a detritus-based, aquatic ecosystem. The second objective is to learn and understand the interactive effects of nutrient enrichment and species composition in the marsh ecosystem. Lastly, it is hoped to use data to better predict ecosystem response using models. With regards to geomorphological changes in response to nutrient enrichment, the TIDE project proposal (Deegan et al., 2002) hypothesized that enhanced aboveground biomass of fertilized *Spartina alterniflora* (common to the low marsh) would trap more sediment, enabling regions dominated by *Spartina alterniflora* to better keep up with sea level rise. Conversely, in *Spartina patens* regions (common to the high marsh), additional nutrients would enhance surface decomposition, and enhanced trapping elsewhere would limit sediment supply. Thus, some *Spartina patens* regions were expected to degrade and convert to *Spartina alterniflora* dominated low marsh, possibly over the course of the 4-year TIDE project. Systematic observations of sedimentation and marsh elevation throughout the marsh were needed to test these hypotheses.

The influence of ditches on hydrology and sedimentation were not emphasized in the original TIDE plan. However, initial results from the first field season suggested the presence or absence of ditches could be a major control on hydrology and sedimentation. Thus, hypotheses driving this thesis were expanded to include the potential role of ditches on flow, sediment transport and resulting marsh platform morphology.

In conjunction with this thesis work, some observations were collected to test TIDE specific treatments that were not directly relevant to the thesis hypotheses. For completeness, data analyses specific to testing TIDE project treatments are briefly noted in the thesis and all data collected to test the TIDE treatments are included in the appendices associated with each variable tested. In a similar vein, this document provided an opportunity to archive all sediment related data collected by VIMS personnel during the TIDE experiment, regardless of the degree to which they were ultimately used in testing our specific hypotheses or the more general TIDE treatment hypothesis. Thus, these data are also contained in full in the appendices.

1.3 Study site

The focus areas of this study are the tidal salt marshes along the Rowley River marshes, a tributary of the Plum Island Sound estuary in northern Massachusetts (Figure 1). The Plum Island Sound Estuary is characterized by semi-diurnal tides, with an average tidal range of 2.9 meters (Vallino et al., 2005). Depending on the season and the stage of the tide, the salinity greatly varies, from fully saline (32 psu) to freshwater (0 psu) (Vallino et al., 2005). However, the salinity of the landward flowing tide that submerges all the tidal marshes fringing Plum Island and the Rowley River during spring tides is usually highly saline.

The low marsh habitats, areas that are inundated by almost all high tides, are dominated by *Spartina alterniflora*. *Spartina patens* are found in the high marsh, where inundation occurs only during spring tides (Schmitt et al., 1998). Short-form *Spartina alterniflora* is also abundant, and is most commonly present in water-logged areas of the high marsh. Other common vegetation types present include *Distichlis spicata* and *Juncus gerardi*, much like other New England salt marshes (Redfield, 1972; Niering and Warren, 1980).

As part of this study, four tidal creeks and their respective salt marsh areas adjacent to the Rowley River were sampled: Sweeney Creek, Club Head Creek, West Creek, and Nelson Island Creek (Figure 2). Sweeney, Club Head and West Creeks are all tributaries of the Rowley River. Although adjacent to the Rowley River, Nelson Island Creek actually drains directly into Plum Island Sound. Each of these creeks has two branches with a single confluence, facilitating in-field replications and controls for the TIDE project nutrient addition and fish exclusion experiments. With specific relevance to this thesis project, Sweeney Creek is heavily ditched with few ponds (i.e., depressed areas that retain water), while Club Head Creeks has few ditches and large ponded areas (Figure 3). As such, these two creeks were focused on most intensely for the ditched versus non-ditched marsh studies.

It should be noted that prior to the 2005 field season, record rainfall in northeastern Massachusetts in May led to severe coastal flooding. A wetter than average spring in 2005 was also proceeded by year of record snowfall (noaanews.gov).

2. BACKGROUND

2.1 Controls on Marsh Sediment Deposition

Multiple factors control sediment deposition in marshes. Proximity to source, source concentration, and inundation period, which is a function of marsh elevation, have previously been shown to be primary physical controls on sedimentation patterns (Friedrichs and Perry, 2001). Sediment deposition rates typically decrease with increasing distance from marsh creeks toward the marsh interior (Kastler and Wiberg, 1996; Leonard, 1997, Neubauer et al., 2002). This is due in large part to the presence of marsh grass, which slows velocity, causing sedimentation and a decrease in sediment concentration in the waters moving to the marsh interior (Leonard and Luther, 1995; Christiansen et al., 2000). Sediment source concentration governs the amount of sediment that can potentially be deposited on the marsh surface (Leonard, 1997). Processes that result in an increase or a decrease in sediment concentration will also result in a corresponding change in accretion rates (Leonard, 1997).

The amount of inorganic sediment deposited tends to increase proportionally with the duration of inundation (Wolaver et al., 1988; Leonard, 1997), since the only time that inorganic sediment can be deposited on the marsh surface is when the marsh is flooded (Reed, 1989). Marsh inundation is a direct result of elevation. Areas that are higher in elevation are inundated for a shorter period of time than lower elevation areas, and hence, tend to receive less sediment (Bricker-Urso et al., 1989; French et al., 1995; Leonard, 1997). Figure 4, from Leonard (1997), displays the type of complex sedimentation patterns that can result from the combined effects of inundation time and proximity to source. The salt marsh levees nearest the main tidal creek are subject to relatively more sedimentation because they are closer to the source of suspended sediment in the main creek. But there are also low lying interior areas that receive enhanced sedimentation because they are subject to the longest inundation times. Minor creeks branching off the main creek, indicated by thin meandering lines in Figure 4, also play a role in delivering sediment directly to the interior marsh areas.

Grain size generally decreases towards the marsh interior or with increased distance away from the source (Kastler and Wiberg, 1996; Friedrichs and Perry, 2001). This is a result of the fall velocity of individual particles, with larger particles settling out first and therefore closer to the source (Friedrichs and Perry, 2001). The amount of organic matter on the marsh surface typically follows an opposite trend, increasing towards the marsh interior (Kastler and Wiberg, 1996; Friedrichs and Perry, 2001; Neubauer et al., 2002). The amount of organic matter also generally increases with increased elevation, but the increase in elevation may be due in part to in situ organic matter accumulation from the vegetation locally present (Cavatorta et al, 2003). A positive feedback cycle can result, since higher elevation sites are flooded less frequently and therefore receive less inorganic material. New England salt marsh accretion is strongly influenced by locally produced organic matter associated with the typically dense root and rhizome system (Nyman, et al, 1993).

Vegetation type and density also directly affect sediment movement and settling on the marsh platform by reducing flow velocities (Leonard and Luther, 1995; Christiansen et al., 2000; Leonard and Reed, 2002). Vegetation aids in dissipating wave energy, allowing baffling and settling of sediment as it hits the individual stems (Christiansen et al., 2000). With increasing stem density, there is increased sediment deposition (Gleason, et al., 1979). Typically it follows that the greater the stem density, the slower the flow speeds, resulting in increased deposition (Leonard and Luther, 1995) (Figure 5). It has also been observed that turbulent energies are markedly reduced in areas of increased vegetation density (Christiansen et al., 2000). This is also a favorable condition for sediment deposition.

Episodic events can also be important in delivering sediment to the marsh surface. Sediment concentration in the creeks and surface sediment deposition can be increased during storms (Leonard et al, 1995). French and Spencer (1993) found that while average everyday tidal processes provided enough sediment for marsh maintenance for a large area of the marsh, it was storm events that provided the bulk of sediment to the marsh areas of highest elevation.

There have been some previous studies of marsh sedimentation in the Plum Island Sound marshes associated with the Plum Island Estuary Long-Term Ecological Research site. Consistent with findings in similar marsh areas elsewhere, Schmitt, et al. (1998) found that areas of increased elevation in Plum Island Sound marshes had decreased sedimentation. Also, low marsh, *Spartina alterniflora sites* were characterized by lower elevation, higher sedimentation, lower organic matter, and lower stem densities than sites dominated by *Spartina patens* in the high marsh areas.

Cavatorta et al. (2003) also collected data in the Plum Island Sound area, focusing on the spatial distribution of total suspended solids (TSS) in different stream orders. Overall, TSS was found to decrease with distance down estuary (seaward) and with increasing stream order. This suggests that sediment available for deposition within the creeks is being recycled from a local sediment source, possibly associated with occasional creek bank slumping (Cavatorta, et al., 2003).

2.2 *Effects of Ditches*

Many studies have been conducted that address spatial sedimentation patterns within marshes (e.g., Leonard, 1997; Cavatorta et al., 2003; also see references within Friedrichs and Perry, 2001). Few, however, have focused on the effects of man-made ditches in transporting and sequestering sediment in salt marsh platforms. Ditches have been prominent geomorphic features in New England salt marshes for hundreds of years. It was the presence of salt marshes, in part, that enabled early settlement of coastal Massachusetts and other coastal regions of New England (Sebold, 1998). The salt marsh grasses provided a supply of hay for cattle and allowed the non-marsh areas to be used exclusively for non-hay agriculture (Sebold, 1998). To increase hay production and improve grazing conditions, the land was ditched, allowing stagnant pools of water and potential mosquito breeding grounds to be drained. Ditches in many marshes were restored and expanded as public works projects during the 1930s. Jewett (1949) described the ditches found in Rowley River marshes as very linear features, approximately two and a half feet deep and eight inches wide. Today, the Rowley River marsh ditches are still present as widespread linear features.

Commonly referred to as mosquito ditches, these features have the potential to greatly affect the marsh landscape by altering flow patterns. By changing normal flow paths, sediment transport and sedimentation can also be affected. The ditches presumably play a role in supplying sediment and nutrient-rich water to the back marsh. The ditches also appear to act as sediment traps. It has been observed that mosquito ditches fill with sediment over a number of years (Jewett, 1949; Redfield, 1972). As a result, it has been hypothesized that the mosquito ditches overdrain salt marshes (Redfield, 1972). Ditches effectively increase the drainage capacity of the marsh, which, in turn, may reduce the duration of inundation by dispersing water through an area of increased channel density (Collins, et al., 1986). Since water spends more time in channels (including ditches) and less time on the marsh than it would otherwise, it is possible that heavily ditched areas accrete more slowly, as a larger fraction of the total sediment supply settles in the ditches.

Ditches also seem to drain the marsh differently than their natural counterparts, the creeks, as seen in the presence or absence of ponds (Adamowicz and Roman, 2005). Unditched marsh areas have three times the number of ponds when compared to ditched marshes (Figure 6); yet, marsh areas with a large number of natural creeks still have a high pond density (Adamowicz and Roman, 2005). This suggests that the presence of man-made ditches unnaturally alters the drainage from the marsh. Why and how ditches act differently from the natural creeks is not well understood.

Ditching also affects the biological community. Because ditches result in increased tidal circulation and drainage, nutrient-rich water availability is increased and salt-stress from standing water is reduced, leading to increased vegetation productivity (Shisler and Jobbins, 1977). Overall, species distribution and abundance may be altered due to a change in the tidal regime (Bourn and Cottam, 1950; Collins et al., 1986). These biological changes can also directly affect sedimentation patterns, especially when vegetation density is altered. For example, if heavily ditched marshes have increased grass stem density, it is possible that enhanced sediment retention and organic matter production could increase accretion relative to unditched marshes. Because ditching results in a decreased number of pools, habitat usage by shorebirds is also decreased (Clarke et al., 1984). Mosquito ditching may also affect the invertebrate community. Studies have shown contradictory results though, with some suggesting an increase in the invertebrate population, some a decrease in the invertebrate population, some showing a decrease in diversity with no change in biomass, and others showing no significant impacts (Bourn and Cottam, 1950; Clarke, et al., 1984; Shisler and Jobbins, 1977; Resh and Balling, 1983). As some studies have suggested, a reduction in the invertebrate communities eliminates major food sources for other species in higher tropic levels (Bourn and Cottam, 1950). Overall, ditching results in the disturbance of natural wildlife habitat (Bourn and Cottam, 1950).

A related counterintuitive management complication is that even if ditching actually does significantly reduce marsh sedimentation and net accretion, ditched marshes may still appear healthier due to the presence of thicker vegetation. Thus, ditching may appear to improve marsh health in the short run by making grass thicker. However, if ditches reduce sedimentation on the marsh platform, ditching may make marshes more susceptible to submergence by sea level rise.

3. OBJECTIVES AND HYPOTHESES

The main objectives for this research are to:

1. Determine the relationships among (i) short-term marsh sedimentation, including sediment grain size and organic content, (ii) creek total suspended solids (source concentration), (iii) marsh elevation and inundation period (hydroperiod), (iv) distance from creek, and (v) relative abundance of ditches.
2. Determine if differences exist between the geomorphology and sediment properties of ditched and non-ditched areas of the marsh.
3. Evaluate water and sediment transport pathways, giving special consideration to the role of ditches.

Based on results from previous marsh studies of both non-ditched are ditched marshes, such as the tendency of marsh ditches to trap sediment, removing sediment from the marsh-creek system, the corresponding hypotheses for the above objectives are:

1. In the absence of ditches, marsh sedimentation increases, grain size increases, and organic content decreases as (i) creek TSS increases, (ii) marsh elevation decreases and marsh inundation increases, and/or (iii) distance from creek decreases.
2. When compared to non-ditched marsh areas, ditched marshes are characterized by lower creek TSS concentrations, lower marsh sedimentation rates, and lower

elevation. Furthermore, the relationships listed in hypothesis 1 above will be weaker in ditched marshes relative to non-ditched marshes.

3. In the presence of ditches, water flow paths are altered. Ditches reduce the amount of water flowing onto the marsh platform over the creek banks. The incoming tidal waters first move up into the ditches, resulting in earlier flooding of the marsh interior.

4. SAMPLING AND METHODS

4.1 Transects

Transects were established in all four creek systems for repeat sampling as part of the larger TIDE project. Three transects were set up in each creek branch, at distances approximately 50m, 150m, and 250m from the confluence. Each transect had three sampling stations, at 4m, 20m, and 50m back from the creek edge. All stations along all transects were sampled in all four years of this study. The locations of all sampling stations were recorded using GPS and are provided in Appendix 2.

Additional transects were established during year two of the study to focus on the role of ditches in moving sediment to the marsh interior (also included in Appendix 2). These were paired transects, with each pair including a transect with relatively more and relatively fewer nearby ditches (Figure 7). The transect pairs were directly adjacent to each other but on opposite sides of the creek. Presumably, the suspended sediment concentration at a particular reach of the creek is relatively uniform across the width of the creek, and thus similar source concentrations would influence both transects in each pair. As a result, the pairs are able to aid in addressing what influences the ditches alone may have on marsh surface sediment transport and deposition. "Ditch" transects crossed or ran almost parallel with one or more mosquito ditches. "Non-ditch" transects were not in the close vicinity of any ditches, and were often close to ponded areas (Figure 7).

Various types of measurements were taken at each station along each of the transects. A description of the methodology for each follows. The first section briefly describes the experimental design of the TIDE project as a whole, followed by more detailed descriptions of the methods used for the focused research on geomorphology and sedimentation.

4.2 Treatments

The experimental design for the TIDE project as a whole included nutrient additions and fish exclusions in addition to the main transects along each creek branch. In year one of the study, transects were established and sampled to collect baseline measurements (Deegan et al, in press). In year two, a net was placed across the right branch of each of the four creeks to exclude mummichog (*Fundulus heteroclitus*), and fertilization began at Sweeney Creek with nutrients added to the incoming tidal water (70 μM NO_3^- and 4μM PO_4^{3-}, ~ 15x and ~4x above background respectively). In year three, Club Head and Sweeney were both fertilized, fish exclusions continued, and stable isotope studies were completed in Sweeney and West creeks. During the final field season of the project, fertilization continued at Sweeney Creek only and the fish exclusions were maintained at West and Sweeney Creeks. All treatments were maintained mid-May through mid-October each year.

4.3 Suspended Solids

Each summer for the focus research on geomorphology and sedimentation, surface water samples were collected at the mouth of the creeks, at the confluence, and in the creek channel adjacent to all of the transects several times each summer. Samples were collected by hand by submerging an open plastic bottle over the side of a small boat. Samples were collected as close to slack high tide as possible. This allowed for a reasonable estimate of the concentration of suspended sediment in the source water that overtops the marsh platform and, therefore, has the most potential to deposit on the marsh surface.

Water samples were filtered through pre-ashed and pre-weighed glass fiber filters until clogged, making sure to note the total number of milliliters filtered. The filters were dried in a 104 degree Celsius oven overnight or until completely dry. Each filter was then weighed. The filters were then placed back into the drying oven for at least an hour and reweighed to be sure that the filters were moisture free. The two dry weights were then averaged to get the total dry weight. The amount of total suspended solids (TSS) present was then determined using the following equation:

$$TSS(mg/L) = \left(\frac{avg.\ filter\ with\ sed\ weight\ -\ avg.\ filter\ weight}{ml\ sample\ filtered} \right)\ x\ \frac{1000\ mg}{g}\ x\ \frac{1000\ ml}{L}\ .$$

The non-organic, or fixed suspended solids (FSS) portion of the sediment deposited on the filter was found by muffling each sample in a 550 degree C muffling furnace for two hours. FSS is found using the following equation:

$$FSS(mg/L) = \left(\frac{muffled\ weight\ -\ avg.\ filter\ weight}{ml\ sample\ filtered} \right)\ x\ \frac{1000\ mg}{g}\ x\ \frac{1000\ ml}{L}\ .$$

All total and fixed suspended solids data are recorded in Appendix 3 a-d.

Validation of Suspended Solids Methods. Approximately 10% of surface water samples were split in order to provide replicate samples for analysis. Figure 8a compares duplicate FSS samples in order to better quantify likely errors associated with the subsequent analysis methods. The median error between duplicate measurements of surface FSS was 18%, where the error is defined as the absolute difference between duplicates relative to their average. These relatively large errors suggest that samples may have not been optimally stirred before subsampling or that the volumes of water passed through the filters may not have been optimally constrained. As a measure of additional spatial variability, Figure 8b displays FSS from all Transect 2 surface samples plotted against all Transect 3 surface samples, in each case collected on the same high tide along the same creek branch. In this case, the median absolute difference between Transect 2 and Transect 3 FSS samples was 332%.

The source of disagreement between duplicates and also between Transect 2 and Transect 3 samples was partly sampling error, but the disagreement between Transect 2 and 3 samples could have been due in part to disturbance of creek banks or creek beds by the small boat during the sampling process. Because means are sensitive to high concentration outliers, and because the source of occasional extreme outliers could be sampling errors including disturbance induced by sampling, median statistics rather than straight means were typically used in this study when attempting to identify systematic environmental trends in the variation of suspended solids concentrations.

4.4 Elevation

A simple technique was devised to determine relative elevation across the marsh surface. Bamboo garden stakes were painted with colored water-soluble glue and inserted vertically into the marsh surface at each station along the transects. As the marsh was flooded, the maximum height of the water over the marsh surface at a particular location was recorded on the stakes because the rising tide dissolved all of the glue on the stake up to the height of high tide (Figure 9a).

Assuming that the high water height was approximately constant across the marsh surface, the difference in marsh elevation among the sites marked with the tide stakes could then be determined (Figure 9b). The relative elevation independent of a given high tide was determined by subtracting the height of the watermark on the tide stick from the tide height recorded for that tide at the near by Ipswich Bay Yacht Club tide gauge, which is maintained by the staff of the Plum Island Estuary Long-Term Ecological Research site. All elevation data collected using tide sticks are recorded in Appendix 4 a-d.

Validation of Tide Stick Method. The tide stick requires an accurate local tidal height record. Although a pressure transducer used as a tide gauge was in place at Sweeney Creek during the summers of 2004, 2005, and 2006, it was not deployed during the first summer of this study. Furthermore, the Sweeney gauge was less consistent with the Ipswich Bay Yacht Club gauge in 2005 than in 2006 (Figure 10a), suggesting the 2005 Sweeney data were not of high quality. The consistency between the two gauges in 2006 supports the use of Ipswich as a proxy for Sweeney, however.

To verify that the Ipswich gauge was accurately recording tide heights in all four years, the observed high tides recorded at Ipswich during times of sedimentation field work were plotted against high tides recorded at the nearest NOAA-maintained tide gauge, located at Portland, Maine (Figure 10b). When plotted against each other, these two data sets are very similar, with mean high tides at the two locations differing by an average of only 3.5 mm. As such, the data from Ipswich Bay Yacht Club tide gauge were used for all tide stick calculations.

To test the quality and repeatability of the tide stick method for determining elevation, all multiple elevation readings from separate tides at a given point within a given summer were plotted against each other (Figure 11). The mean absolute residual for individual repeat measurements ranged from 3.6 cm in 2004 to 1.4 cm in 2006, and the overall mean residual was 3.0 cm (Figure 11). Therefore, individual tide stick readings at any particular location are good to within 3.0 cm. These individual differences could be due to errors in reading the tide sticks, but may also be attributed to wind and wave setup within the creek systems. This suggests a limit for the accuracy of the assumption of a constant water level across all the marshes at high tide.

The errors associated with individual measurements of marsh elevation can be further reduced by averaging elevations at a given site over an entire summer, or for greatest accuracy, averaging over all four years. When plotting the mean tide stick elevation in any year against the mean elevation for all years, the maximum difference was 2.9 cm and recorded in 2003 (Figure 12). Differences became smaller with time, as the technique was presumably applied more consistently and accurately. Individual sites measured in 2006 were only about 1.4 cm different than 2003 to 2005 averages at that site. Thus with sufficient averaging, the tide stick method appears to be good to less than 2 cm at an individual site, which is on par with more sophisticated elevation measurement techniques, such as traditional surveying with a total station or GPS surveying.

4.4 Presence of ditches

The presence of ditches along sampling transects was quantified in two ways, each based on high-resolution aerial photographs. The aerial photographs were obtained from the Massachusetts Geographical Information System website (www.massgis.gov) (Figure 13). Based on the aerial photographs, all of the TIDE transects were initially classified as "ditch" or "no ditch", depending on whether or not ditches were prominently visible on the aerial photographs in the immediate vicinity of the transect.

A second, more quantitative measure of ditch presence applied was "ditch length". Again using the aerial photographs, equilateral triangles of the same area (70m on each side) were drawn on the photographs centered over each transect using ArcMap. Within each triangle, the lengths of both continuous and discontinuous ditches were measured and recorded (Figure 14 a-d). A continuous ditch was counted as one that obviously ran in a straight line uninterrupted within the triangle. A discontinuous ditch was one that appeared to be locally interrupted, usually due to the presence of slumping within the ditch itself. The sum of continuous and discontinuous ditches within a given triangle represented the total length of observed along that transect.

4.6 Sedimentation

Each summer, following similar methods to Reed (1989) and Neubauer et al. (2002), sediment collection plates were constructed and placed flush on the marsh surface to collect settling sediment. By placing the plates flush to the marsh surface, the plates mimic the surface, allowing for relative determinations of how much sediment was likely to be deposited on the marsh in that particular location.

Three types of sediment plates were used. For the first deployment of sediment plates, inverted petri dishes with a pre-ashed and pre-weighed 90 mm glass fiber filter on top were used. The petri dish had a long nail driven through the middle of the dish that secured it to the marsh surface. Because of difficulties with the filter sticking to the nail and the nail leaving large amounts of rust on the filter, this method was abandoned after the first deployment.

The majority of the remaining sediment plates were constructed of small (4x4 inch) plexiglass squares with holes drilled in two opposite corners (Figure 15). Pre-weighed 90 mm glass fiber filters were placed on the squares and secured with rubber bands. Two large nails secured the plates flush with the marsh surface without touching the filter. The plates were placed at each station along each transect and sampled every one to two weeks, or until the marsh was covered by at least one flooding tide. The collected filters were then dried and weighed following the same procedures described in the TSS methods. The total sediment, in grams, deposited was determined by subtracting the filter weight from the total dry weight. The inorganic sediment was found by subtracting the filter weight from the muffled weight.

A limited number of ceramic tiles (117 cm^2) were also used as sediment plates. Like the filters, the tiles also collected settling sediment, but the sediment collected on the ceramic tiles was scraped from the tile directly into an aluminum weighing dish. This procedure ended up being more cumbersome and harder to deal with, with an increased chance of loosing more sediment in transit. Thus, the ceramic plates were not used extensively. Rather, the ceramic plates, which have been used by others (e.g., Neubauer et al., 2002), were included in order see how the methods compare. When used, ceramic tiles were deployed and retrieved at the same times and locations that the plexiglass and filter sediment plates were used. The procedure for determining dry weight and muffle weight follows as above.

All sediment plate data are recorded in Appendix 5 a –d.

Validation of Sediment Plates. Ceramic plates have been used as sediment plates more frequently in previous studies than have glass fiber filters. However, the filter sediment plates were much easier to use. Because of the change from the previously accepted method for collecting sediment deposition data, it was necessary to validate the use of the filters by comparing the data from the two techniques.

For cases where the ceramic plates recorded sediment deposition values greater than about 0.7 $mg/cm^2/week$, the two sediment plate methods recorded relatively similar amounts of sediment deposited (Figure 16). When less sediment was deposited, it appears that the ceramic plates did not effectively capture the sediment as it settled out of the water. In most instances, even at the higher rates of deposition, the ceramic plates had less sediment on them than the filters at the same location. This discrepancy can be attributed partly to the mechanical difficulty of completely scraping fine-grained sediments from the ceramic plates without losing any sample. The different textures of the two plate types may also contribute to differences in net deposition. Erosion of sediment off of the ceramic plates by subsequent tides may be easier because of the relatively smooth surface; while the filters, with a rougher surface, may be able to hold onto the sediment more effectively.

At each site where sediment deposition was measured, replicate filter plates were deployed. To further test the self-consistency of the filter plate method, deposition on the first filter in each pair was plotted against deposition on the second filter (Figure 17). The median error between duplicates for all years was 18%, where the error is defined as the absolute difference between duplicates relative to their average.

The largest error was in 2003, when a large number of filters completely deteriorated in the field. However, in all years, partial deterioration of some filters occurred, and can account for some of the disagreement. Some of the disagreement is also likely due to the high local variability in short term deposition as well as local variability in the ability of individual filters to retain sediment on subsequent tides. Because of extremely high variability in multiple aspects of sediment plate deposition and analysis, median statistics were often used in this study to identify trends in sedimentation. Extreme outliers often contaminated means such that straight averages hid important trends and patterns.

4.7 Grain Size

Grain size analysis following the procedure described in Folk (1980) was completed for marsh surface sediment samples collected during the second field season. Samples were obtained by scraping a small amount of surface sediment from each transect station. Subsamples, each weighing approximately 10 to 15 grams were then placed into a 50 ml pre-weighed beaker. Ten ml of sodiumhexametaphosphate solution was added to each sample. Sodiumhexametaphosphate acts as a deflocculant, allowing for easier particle size separation during sieving. Using a #230 sieve, the samples were wet sieved into a 1000mL graduated cylinder until only particles larger than the mesh remained, and the cylinder was full. Particles larger than 63 μm were removed from the sieve and placed in a drying oven. The graduated cylinders sat overnight to allow for temperature equilibration. After sitting overnight, each sample was stirred to allow for extraction of appropriate size grains during pipetting. Two 20 mL pipette draws were completed, one 20 seconds after stirring was completed, and one approximately two hours later. The first sample represents all grains less than 4 phi (silt and clay) and the second is all grains less than 8 phi (clay). All samples were then dried to determine the actual weight of the dry sediment. Percent sand, silt, and clay were then determined for each station.

All grain size data are recorded in Appendix 6.

4.8 Bulk Organic Matter

Bulk organic content was determined using a subsample of the surface sediment scraping completed from grain size analysis. A small, 10-15 gram sample, was placed in a pre-ashed, pre-weighed aluminum weighing pan and dried in a 104 degree C oven. When the sample had been dried completely, the dry weight was recorded. Each sample was then muffled at 550 degree C for at least 2 hours, or until all of the organic matter had been destroyed. The samples were then reweighed following muffling, and the bulk organic content was determined by subtracting the muffled weight from the dry weight.

All bulk organic data are recorded in Appendix 7.

4.9 Marsh flooding pattern

To better quantify water transport pathways on the marsh platform, in the presence or absence of ditches, a grid system of 92 stations was established at Sweeney Creek on June 28, 2005 (tide height: 9.3 feet). A similar experiment was conducted along the right branch of Club Head Creek on July 18, 2006 (tide height: 9.6 feet) with 98 stations. Each station was marked with a flagged stake to ensure that the exact location would be revisited through the tidal cycle. The locations of the flagged stations are provided in Appendices 8 and 9, for Sweeney and Club Head Creeks respectively, and displayed in the results section. Water height measurements were collected through the flood and ebb, from the first time water was present at any one of the nearly 100 locations until the water had completely receded from the surface. A measurement was collected at each station approximately every 5 - 10 minutes. Using this method, we were able to determine what areas of the marsh flooded first and, following the progression of flooded areas, the areas that were inundated the longest, plus any areas that remained dry during that particular high tide.

4.10 Other measurements

Some of the samples collected during the three field seasons of the research study proved inconclusive, were not interpretable upon analysis, or have yet to be analyzed. As a result, those methods will briefly be described, but no further discussion is included in this paper.

To measure flow speed and direction on the marsh surface, two Acoustic Doppler Velocimeters (ADV) were deployed for two months on the marsh platform at Sweeney

Creek. Each ADV was placed upward-looking in a PVC tube, which had been buried into the marsh surface such that the ADV sensor was submerged within the tube, below the surface of the marsh. The battery cable ran to the battery mounted on rebar approximately 2 meters away from the ADV sensor. By placing the ADVs with the sensor-side up, less water had to be on the marsh for the instrument to start collecting measurements than if it was placed in the traditional downward-looking set-up. One ADV was placed in an area with no ditches, and the other was placed in the marsh interior near the intersection of two ditches. However, the data generated by the ADVs contained too much electronic noise to be interpretable.

Small amounts of rhodamine dye were added to the water column on an incoming tide at the confluence of Sweeney Creek to serve as a tracer to determine the pathway and speed of water flow while following a water parcel. Because the rhodamine was quickly diluted, it was difficult to follow the dyed water beyond a few meters from the point of addition. We attempted to add more rhodamine as the dyed water became difficult to follow. The method served to qualitatively show that water was moving up the ditches before moving further up the creek. Beyond that, the addition was deemed an ineffective means for determining flow pathways quantitatively because it was so difficult to be sure and follow a single water parcel, and little quantitative data was collected.

Short, 1 cm deep surface cores were collected from random station locations across the marsh in August 2004 for ^{234}Th analysis. Due to the large quantity of root matter, the samples were muffled to remove the organic material. This is important because the geometry of the sediment cannot change between detector runs. The muffled sediment samples were placed into small, plastic vials and run on the intrinsic germanium well detector for 90,000 seconds. This process was repeated after three months, allowing for the excess ^{234}Th, if present, to decay. The peaks and counts at the 63.3 keV energy were compared between the two runs to determine if excess ^{234}Th was present. Results indicated that ^{234}Th was not present in amounts large enough to differentiate excess from background levels or to calculate deposition rates.

Samples for ^{210}Pb analysis were collected in the summer of 2005. Cores were collected using a McAuley corer following the method of Bricker-Urso et al (1989). These samples remain unanalyzed due to time constraints.

5. RESULTS

5.1 Treatments

To test for the treatment effects that motivated the larger TIDE study as a whole, it was necessary to make comparisons among all creeks, among all years, and between branches within a single creek system. While treatments effects are not directly tied to the primary objectives of this thesis, the TIDE treatments provided an opportunity to test whether pooling of data across years and between branches was justified. Only data from the six TIDE established transects in each creek were analyzed for effects of nutrient additions and fish exclusions. The fish exclusion nets were placed in the right branch in all creeks in 2005, and in the right branch of Sweeney and West creeks in 2004 and 2006, and Sweeney Creek was fertilized in 2004, 2005, and 2006, while Club Head Creek was fertilized only in 2005.

If the addition of nutrients affected sediment processes, it would be expected that systematic differences between the fertilized and non-fertilized creeks and fertilized and non-fertilized years would be observed. If the fish exclusions had an effect, differences between the branches within a given creek would be observed along with differences between years with and without exclusions.

Looking first at the near-surface fixed suspended solids concentration in the creeks collected at slack high water, there was no significant difference between branches or creeks as a whole (Table 1). With the exception of the right branch of Club Head Creek in 2006, there was also no difference in yearly concentrations between creeks. If we consider the percent of organic material in the total suspended solids, there was similarly no significant difference between creek or branch medians (Table 2). However, in 2006, there was a significant increase in organic material in the suspended solids relative to the three prior years. A lag effect from the exceptionally large storms that occurred in 2005 might be related to the significant increases in organic material seen in 2006.

The amount of inorganic sediment deposited on the marsh surface did not vary significantly between branches within any given year (Table 3). However, the left branch of Club Head Creek received significantly more sediment in 2004 and in 2005 than in 2003 or 2006. When medians from all years were considered together, only Nelson Creek showed a significant difference between branches, with the right branch receiving slightly less sediment than the left. There was no significant difference among overall creek medians. There were also very few significant differences between branches or creeks with regards to the percentage of organic matter that was deposited on the marsh surface (Table 4). The left branch of Club Head Creek exhibited significantly more organic deposition than the right branch in 2004, 2005, and when considered over all years. All creeks tended to have more organic deposition in 2006 and 2003 than in 2004 or 2005, and Sweeney Creek in 2006 had the highest organic percentage of all.

In terms of mean elevation, the left branch of Sweeney Creek and the left branch of Nelson Creek were significantly lower than their corresponding right branches in all years (Table 5). This is particularly true for Sweeney Creek, where the left branch was 7 cm, on average, lower than the right branch. Otherwise, there were no significant differences in mean elevation by creek or year.

As a whole, the above data do not provide conclusive evidence that fertilizing or removing fish from the creeks had any significant, systematic effect on sediment delivery, sedimentation on the marsh surface, or marsh elevation over the course of this study. Thus, there were no detectable treatment effects. Although significant elevation differences were present between branches in Sweeney and Nelson creeks, this trend was consistent in all years. Therefore, these differences existed before and after the fish exclusions were placed in the creeks and cannot be attributed to the presence of the exclusion nets.

The major conclusions from the TIDE treatment analysis in terms of grouping observations are as follows. It is appropriate to pool data from all years for a given site for the remainder of the data analysis associated with this study. Although sediment in 2006 tended to exhibit somewhat higher organic content, annual variability is not a focus of this study, and pooling multiyear data will distribute any anomalies associated with 2006 organic matter equally among all creeks. Furthermore, differences between left and right branches associated with nutrient additions and fish exclusions need not be further considered. The only clear difference between branches is marsh elevation, particularly in Sweeney Creek. Note that this elevation trend was identified immediately after the first field season and led to the identification of ditches as a possible cause.

5.2 Channel Concentrations

It is important to examine spatial variations in suspended solids in the water column along the individual creeks because it is the sediment suspended in the creeks that most directly supplies sediment to the marsh surface. Samples collected at the mouth of all the creeks had lower sediment concentrations than sites located along the creeks (Table 6; Figure 18), and the differences between the creek mouths and interiors became strongly significant when all creeks were pooled together (Figure 19). Confluence concentrations for a given creek were also lower than the corresponding upstream transects, with the exception of one transect along Club Head Creek.

The overall trends in all but Nelson Creek suggest an increasing suspended solids concentration with increasing distance up the branches from the confluence through transect 3 (Table 6; Figure 18). Although this trend was not statistically significant when all creeks were pooled together (Figure 19), there was still a consistent pattern of increasing suspended sediment with distance from the confluence through transect 3 for the pooled data (Figure 18). These trends generally support the results of a previous study by Cavatorta et al (2003), which also showed that the suspended sediment concentration typically increased with increasing distance up the branches of marsh creeks adjacent to Plum Island Sound. In Sweeney and Club Head creeks, water samples were also collected in one of the major ditches.

The sediment concentrations in the ditches tended to be lower than concentrations in the channel landward of the confluence. Ditch concentrations were significantly lower than channel concentrations at transect 2 and 3 when all data were pooled together.

5.3 Ditches and Elevation

By the end of the first field season in 2003, it was clear that the elevation of the Sweeney marsh was lower than the other marshes and that the left branch of Sweeney was the lowest of all (Table 5). This result initially seemed counterintuitive, because the common wisdom had been that a low-lying marsh would appear more waterlogged, with more signs of stressed vegetation. In contrast, the marsh grasses in Sweeney visually appeared to be the most vigorous and were interrupted by few stagnant marsh ponds. Equally surprising, the 2003 elevation data indicated the highest elevation marsh was Club Head (Table 5), a marsh with many more stagnant ponds and visually stressed vegetation.

Another marked difference between Sweeney and Club Head, which was immediately apparent in 2003, was the degree of ditching. Visually, Sweeney appeared to be the marsh with the most mosquito ditches, while Club Head appeared to be the marsh with the fewest mosquito ditches. These initial findings led to the further investigation of ditches as a major potential factor influencing marsh morphology and sedimentation and led to the addition of several more marsh sampling transects within the apparent extreme cases of the Club Head and Sweeney systems.

To quantitatively evaluate the presence of ditches in the four marsh systems, the lengths of both continuous and discontinuous ditches were measured using georeferenced aerial photographs (see methods section 4.4, Table 7). Although these trends were first noted in 2003, data from all available years were pooled to decrease error bars. Figure 20 compares the mean elevation of the six TIDE treatment transects in Sweeney to the total length of the ditches adjacent to each of the six transects. It is clear that ditches are more abundant on the lower elevation, left branch of Sweeney. Figure 21 compares ditch length to mean elevation for all transects in all creeks. The transects evaluated in Figure 21 include both the original 24 TIDE transects plus the 18 new transects added to Club Head and Sweeney in 2004.

When grouping all available transects, the pattern of decreasing elevation with increasing ditch length was present (Figure 21), and the relationship was stronger than that for the treatment transects considered alone (not shown). Furthermore, there was a natural break in the data, with data grouping on either side of 10-15 meters of ditch length. This suggested a natural classification of transects that have less than 15 meter of ditches as "non-ditch" transects, with anything with greater than 15 meters of ditches classified as "ditch" transects. It was also noted that the elevation versus ditch length relationship became slightly stronger if sites four meters from creeks were not included. This makes sense because it is less likely that flow in adjacent ditches would strongly alter the normal effects of creeks on marsh processes only four meters from a creek edge.

Figure 22 (a, b, c) compares mean elevation as a function of distance along ditch and no-ditch transects for Sweeney, for Club Head, and for all four marshes pooled together. When looking at elevation along transects, the elevation typically increased rapidly with distance along transect and then plateaued (Figure 22c). The elevations of the ditch and no-ditch four meter sites were not significantly different. The 4 –meter sites were, by definition, very close to creeks. Therefore, it would not be expected that these sites would be as sensitive to the presence of ditches. Non-ditched areas were consistently higher in elevation than ditched areas, and the trend was even more striking when the 4-meter sites were removed for comparison. However, there were no additional trends in elevation as a function of distance upstream along creek branches.

Considering only Sweeney Creek, the difference in elevation between ditched and non-ditched sites was on the order of 10 cm, and was significant at all sites except the 4-meter location (Figure 22a). Looking just at Club Head Creek, the non-ditched sites were higher in elevation than ditched sites, but only about 5-6 centimeters higher, and the difference was only significant at the 10, 20 and 50-meter sites (Figure 22b). Pooling data for all creeks, however, improved the significance of the elevation difference in terms of standard error to beyond that of Sweeney alone. This is important because if ditches are generally associated with lower marsh elevation, pooling more data should eventually make the pattern more resilient.

5.4 Marsh Bed Samples

All four marsh systems had relatively similar grain size distributions (Figure 23). All stations sampled were predominantly silt, with silt averaging about 50% of each sample. It should be noted, however, that the sand portion of the samples often contained large pieces of detritus and litter, material mostly derived from the marsh itself and not transport of inorganic sediment. As such, grain size data hereafter are presented as the percent of the mud fraction that is clay.

Overall, West Creek was slightly more fine-grained, with the largest percent of clay of all the creeks, while Sweeny Creek had the least clay (Figure 24). There were no broadly consistent trends as a function of distance up creek branches. However, clear trends occurred across the marsh as a function of distance along transect (Figure 25).

When looking at grain size as a function of distance along transect, Sweeney Creek again stood out as different from the other three creeks. The clay content was the same all the way from the 4-meter sites to the 75-meter sites, whereas the other three creeks behave as one would expect of a classic marsh environment. That is, there was an increase in fines with increased distance from the sediment source, as larger materials are the first to settle out of suspension.

Because distinct trends were noticed in Sweeney, a system that is heavily ditched, ditched versus non-ditched differences were then examined for sites greater than 4 meters form the creek bank. With distance along transect, the trend was that ditched areas had less fine-grained sediments and had more coarse-grained sediment, with some of the coarsest sediment in the back marsh areas (Figure 26). By contrast, non-ditched sites had a significant trend of increasing fines with increasing distance.

With regard to bulk organic content from marsh surface samples, all creeks were generally similar, with West Creek having slightly higher organic matter content than the other creeks (Figure 27). Note that West also had the finest sediment overall. Following classic marsh patterns, there was an increase in organic material with increasing distance from the creek edge in all creeks (Figure 28). There was no clear trend when considering organic matter as a function of distance up creek (not shown).

When ditched transects were separated from non-ditched transects and again plotted as a function of distance along transect for sites greater than 4-meters, the trend of increasing organic matter with distance was again stronger for non-ditched transects (Figure 29). In ditched areas, there was a sharp increase in organic material at the 50-meter sites, followed by a decrease at the 75-meter sites. The comparative irregularities along the ditched transects were consistent with patterns observed in the grain size distribution. If water were flowing up the ditches, then one would expect to see locally lower organic material percentages similar to the creek edge sites along ditches or in the back marsh where flooding water reaches first.

5.5 Plate Deposition by Creek and Distance

Considering systematic differences averaged over all four years of the study, Club Head Creek marshes received the most sediment per day during the periods when collection plates were deployed, and the Nelson Creek marshes received the least (Figure 30). The only statistically significant difference in median sediment deposition was between Club Head and Nelson.

When looking at sediment deposition as a function of distance along transect for all sites, deposition rates were highest close to the creek edge, with generally decreasing sediment deposition moving back from the creek bank (Figure 31). This is a classic pattern for tidal marsh environments and results from more rapid initial deposition of sediment when water first flows out over the marsh creek banks. This trend was stronger in non-ditched creeks than in ditched creeks (Figure 32). Furthermore, ditched creeks tended to display a gradual increase in sediment deposition at the innermost marsh sites, whereas non-ditched sites did not. This makes sense if the ditches did indeed alter flow pathways. If areas of the back marsh near ditches were flooded sooner and more often than non-ditched marsh sites, it follows that ditched marsh interior sites might have increased deposition. There is a trend that ditched areas received slightly more sediment overall than non-ditched areas, but the difference was not significant, except at the 75-meter site (Figure 32).

There was a weak tendency for deposition to decrease with transect number, i.e., with landward distance along creek branches (not shown). This trend was slightly stronger for non-ditched transects than for ditched transects. However, these patterns for deposition as a function of transect number were not statistically significant.

5.6 Plate Deposition versus Hydroperiod and Source Concentration

It is over-marsh flow that brings new sediment onto the marsh surface. Therefore, new inorganic sediment can only be deposited when the marsh is inundated and there is time for sediment to settle out of the overlying water. As such, hydroperiod, or the length of time a site is inundated, should be considered. It would be expected that sites with a longer hydroperiod would have increased deposition. Because of the high degree of scatter in the deposition data, trends for sediment deposition as a function of hydroperiod only became clear once data were binned into discrete hydroperiod intervals.

Examining binned medians, there was a trend of increased deposition with increased hydroperiod for hydroperiods of up to about 40 hours, followed by a decrease if all creeks were considered for all years (Figure 33). Because of the fewer data points available above about 35 hours, however, the error bars also increased strongly. Thus the data were still consistent, within potential uncertainty, with uniformly increasing deposition with increased hydroperiod. Given the dramatic increase in uncertainty for estimates above 35 hours, Figure 34 only includes data from below this cutoff.

Given the distinct properties of 4-meters sites versus interior sites for some of the other parameters, hydroperiod was next plotted against inorganic sediment deposition separately for (i) the 4-meter sites alone and (ii) the interior marsh sites (Figure 34). For both cases, deposition increased with hydroperiod at a similar rate, although the scatter was much larger for the 4-meter sites (Figure 34). Further separating the interior marsh data by ditch or non-ditch regions, it was apparent that deposition in non-ditched areas was better related to hydroperiod than deposition in ditched areas (Figure 35). Again, this suggests that non-ditched marsh areas behave more like classic marsh systems. Ditched marshes may be somewhat less responsive to hydroperiod due to altered flow patterns.

Based on the literature, temporal variation in marsh deposition should also be correlated with temporal variations in suspended sediment concentration in adjacent tidal creeks, since tidal creeks are typically thought to be the most important direct source of new marsh sediment. However, no significant correlations were found between tidal creek concentration and marsh deposition, no matter how data were pooled or binned

5.7 Marsh Flooding Pattern

In both Sweeney Creek and Club Head Creek, the local patterns of marsh flooding were highly dependent on the local proximity to ditches. Figures 36 and 37 display the order that the network of monitored sites were flooded during a characteristic high tide observed in each system. In both systems, the very first marsh sites that were covered with water during a flooding tide were some of the lower marsh sites along the creek bank along with sites in the marsh interior along some of the major ditches (Figures 36b and 37b). In ditched areas, the flooding pattern work showed that flooding water followed the path of the ditches, and sites located along ditches and in the back marsh near ditches covered with water well before the last of the creek bank sites were covered (Figures 36c,d and 37c,d). In ditched areas of the marsh, the water then spread out over the marsh interior directly from the ditches (Figures 36c and 37d,e). In non-ditched marshes areas along the creek bank were the first to be flooded, and then the water moved back slowly into the interior marsh (Figures 36d-h and 37f-l).

In general, the ditched areas were the first interior marshes to flood and stayed flooded longer, while the non-ditched interior marshes were flooded last and stayed flooded for a shorter period of time. However, in a few non-ditched areas, the water never completely ebbed during the several hours that the network of sites were monitored (Figures 36m and 37p). Due to timing constraints, some ditched areas also had water still present after sampling was complete, but these locations had only 1 cm or less of water left standing. Once areas with short-form Spartina alterniflora were flooded, the water in a few non-ditched areas remained in place well after the water level in the creeks had dropped below the marsh edge. This likely explains why degraded vegetation and stagnant ponds are more common in non-ditched areas. Without drainage ditches, water is more likely to get trapped in slightly depressed areas in the marsh interior. They water may sit and stat to evaporate, make a hypersaline environment with can lead to vegetation die off.

By examining the maximum-recorded water depths observed on the marsh during these experiments in the Sweeney and Club Head systems (Figures 38 and 39), connections between the spatial variations in marsh elevation and the resulting variations in inundation periods are quite obvious. In Sweeney Creek, the greatest above marsh water depths at high tide were observed along the ditches and at sites right at the creek bank. Deeper water was observed at interior marsh sites with ditches than non-ditched back marsh sites. In Club Head Creek, the non-ditched sites on the eastern side of the branch received little water in comparison to the ditched sites. The ditched sites stayed flooded much longer than the non-ditched sites, and only non-ditched sites along the creek edge had measured water heights of 20 cm or more.

6. DISCUSSION AND CONCLUSIONS

The results of this research suggest that the presence of man-made ditches alter sediment and water transport pathways and, ultimately, marsh platform elevation in tidal salt marshes. It was initial observations of the distinct marsh elevation and flooding patterns in Sweeney Creek that led to the investigation of ditching effects. The initial, anecdotal observations that the back marsh areas along ditches flooded first were then verified by the systematic marsh flooding pattern data collected at Sweeney and Club Head creeks. This pattern was not seen in non-ditched areas, where the incoming tidal waters first crested the creek bank and then flowed back over the marsh.

As a result of these modified pathways, patterns of deposition on filter plates did not follow classic trends in ditched marshes. Although sedimentation rates were highest close to the creek edge in both ditched and non-ditched marsh sites, ditched marsh areas had increased deposition in the inner marsh and a pattern of consistently decreasing deposition with increasing distance from the creek edge was observed only in non-ditched areas. Because the ditches allowed water to reach back marsh areas first, ditched sites in the inner marsh behaved more like creek edge sites in that there was locally greater sedimentation resulting from close proximity to source waters.

Similarly ditch-dependent trends were also observed with regards to grain size distribution and organic material. Non-ditched sites displayed trends expected of classic marsh environments with increasingly fine-grained material found with increasing distance from the creek. This pattern was not as evident in ditched areas, where coarser grained material was present overall, and most notably, coarser material was locally concentrated in the back marsh. A reduction in the percentage of organic material was also found at the innermost sites in ditched marshes, while non-ditched marshes did not display this trend. Together, patterns in grain size and organic material distribution support patterns in plate deposition and strongly suggest that ditches interrupt the classic sediment distribution associated with over-marsh flow. Instead of having to flow over the entire marsh first, dropping sediment all along the way, much of the water in ditched areas is moving first to the back marsh.

In the four creek systems studied, elevation also appeared to be controlled by the presence or absence of ditches. Non-ditched sites were consistently higher in elevation than ditched sites, and increased ditch length within a given area was correlated with decreased elevation. All else being equal, it is classically expected that areas with lower elevation, and therefore, longer hydroperiods should experience greater depositon. The fact that ditched areas with longer inundation periods did not receive significantly more sediment than non-ditched sites with shorter inundation periods further supports the conclusion that classical sediment delivery is altered by the presence of ditches.

It is possible that with altered flow patterns, ditched marshes require a longer hydroperiod to accumulate sediment over the long term at a rate equal to higher standing, non-ditched marshes. This may be because suspended sediment from the channels follows a longer overall path length in order to get to the marsh surface via ditches than overbank flow. Because some sediment may be settling into the ditches before the water transits onto the marsh platform, the longer time in ditches may decrease the overall concentration of suspended sediment flowing out onto the marsh.

Observations from this study suggest that suspended sediment concentrations in ditches tended to be lower than concentrations in the landward portions of natural marsh creeks. If the suspended sediment transported onto the marsh from ditches were consistently lower in concentration, then lower elevations would be required to provide the longer hydroperiod needed to drive equal deposition. Lower elevations for the ditched marsh platform could then represent an equilibrium morphology in the presence of slowly rising sea level. However, if there were a sudden acceleration in the rate of sea-level rise, it is not clear how the morphological differences between ditches and non-ditched areas would affect the stability of the marshes.

It is also possible that greater export of sediment from ditched marshes partly counteracts the deposition effects of greater hydroperiod, leading to an equilibrium rate of net deposition consistent with permanently lower elevation. Perhaps the shorter average distance from the marsh interior to incised areas in ditched marshes increases local surface gradients and resulting velocities or otherwise increases the likelihood that suspended sediment will leave the marsh platform on ebb. Surface sediment in ditched marshes was observed to be significantly coarser and contain significantly less organic matter than surface sediment in non-ditched marsh areas, patterns that are consistent with more erosion in ditched areas.

It should be noted that sediment deposition values in this study did not account for seasonal variability in deposition, nor did they account for the possibility of erosion events. As such, the results presented are only valid for short-term sedimentation. It is also not clear that absolute deposition on filters should be identical to deposition on a natural marsh surface. In addition, below ground accretion and decomposition rates were not included. Our results can be used as relative values for inorganic deposition, useful for comparing sites to one another, but they cannot be scaled up to predict net long-term sediment deposition or total accretion rates.

Other important trends were observed in this study that were not related to the presence or absence of ditches. At the 4-meter sites in particular, there were no significant differences between ditch and non-ditched transects, presumably because 4-meter sites were uniformly dominated by the close proximity to the creek bank. Because the 4-meter sites were the marsh areas closest to the creek edge they received the most sediment, and the sedimentation rates at these sites were correlated to the local hydroperiod. However, the elevation data at the 4-meter sites did not provide evidence for a build up of creek bank levees. Thus, there must be a mechanism that effectively removes sediment and/or lowers elevation at creek edge sites in the long term. The most likely mechanism by which sediment is removed and/or elevation is episodically lowered at creek edge sites is through creek-bank slumping. Although this study did not attempt to quantify creek bank slumping, it was qualitatively observed to be wide spread.

Also unrelated to ditches, creek suspended sediment concentrations tended to increase with increased distance up the branches. Thus, the incoming tidal waters from Plum Island Sound were not directly supplying the majority of available sediment. Instead, this trend of higher concentrations within the creeks suggests that the majority of suspended sediment being exchanged between the creeks and the marsh is a result of recycling within the creek, and/or recycling between the creeks and the marsh surface.

Possible mechanisms for internal recycling include channel bed erosion, bank slumping, and marsh surface erosion. This conclusion is consistent with the previously described mechanism for sediment removal by slumping at sites along the creek bank.

Other conclusions of note from this research are as follows:

1. Fish exclusions and nutrient additions have no notable short-term effects on the physical factors that work to maintain marsh morphology. No significant effects on sedimentation, sediment delivery, and marsh elevation can be attributed to the treatments administered by the overall TIDE project over the course of this study.

2. The tide stick method for measuring marsh bed elevation is simple and potentially accurate to within 1 to 2 cm. The simplicity of the method makes it an appealing way to measure elevation at multiple locations quickly and without using bulky instruments. With sufficient averaging, this method can determine marsh elevation to a precision comparable to much more sophisticated instrumentation.

3. Using filters attached to plexiglass squares as sediment plates is a useful technique for collecting abundant data on relative marsh sediment deposition rates. The method is self-consistent to within better than 20% and may be more accurate than previously used ceramic tiles, particularly when marsh deposition rates are low.

Future work can be done in these marshes to continue to improve our knowledge of the sustainability of anthropogenically altered marshes. Ditches obviously have an affect on marsh hydrology, sediment transport and subsequent evolution. However, what we see today in these and similar marshes throughout New England are the results of many years of ditching. To get a better understanding of how ditches initially alter salt marshes, it would be enlightening to dig a ditch, following the same methods and specifications as those done in the early part of the twentieth century. This would provide interesting data on the initial impacts of human alterations of the marsh.

Future work could also productively focus on radioisotope analysis for both long and short-term isotopes, including Pb-210, Cs-137, Th-234, and Be-7. Cores were collected in the summers of 2004 and 2005, however complete analysis was time prohibitive. Analysis of these existing cores for Pb-210 and Cs-137 could prove useful in determining if ditches really act as sediment sinks and if sediment deposition rates vary between ditched and non-ditched areas over longer time scales than can be constrained by sedimentation plates. An understanding of accretion rates, including below ground decomposition, would also be important to better predict the long-term sustainability of the marsh. To measure both accretion and sedimentation, installing and measuring marsh elevation with sedimentation-erosion tables (SET's) would be useful for understanding long-term marsh stability. Finally, collecting in-situ measurements of water flow over the marsh surface, as was attempted with the ADVs, would be beneficial to understanding the way in which over-marsh flow in ditched areas varies from surface flow in non-ditched areas.

TABLE 1: Median fixed suspended solids values (mg/L) and errors with yearly branch medians as well as branch medians for all years combined and creek median with all years combined..

	Sweeney		West		Club Head		Nelson	
	L	R	L	R	L	R	L	R
2003	10.8 +/- 1.16	11.2 +/- 1.14	15.3 +/- 1.05	14.6 +/- 4.81	16.9 +/- 1.70	12.9 +/- 1.54	10.15 +/- 2.29	11.5 +/- 0.87
2004	10.27 +/- 6.17	10.1 +/- 0.92	10.7 +/- 11.78	7.7 +/- 1.01	9.8 +/- 0.59	13.65 +/- 3.32	10.65 +/- 3.97	10.4 +/- 1.58
2005	11.36 +/- 3.13	10.46 +/- 1.26	11.45 +/- 3.53	9.0 +/- 1.66	8.0 +/- 1.14	8.88 +/- 3.09	12.0 +/- 2.78	8.45 +/- 1.99
2006	7.6 +/- 2.37	9.1 +/- 0.93	9.95 +/- 2.06	5.2 +/- 6.62	17.3 +/- 5.75	21.25 +/- 4.36	9.2 +/- 1.31	9.6 +/- 2.12
All	10.14 +/- 2.80	10.3 +/- 0.58	13.2 +/- 3.15	11.5 +/- 2.12	11.05 +/- 1.12	12.165 +/- 1.78	9.95 +/- 1.41	9.8 +/- 0.87
All	9.9 +/- 0.95		11.0 +/- 1.57		11.0 +/- 0.83		9.3 +/- 0.70	

TABLE 2: Median percent organic values (%) and errors from the fixed suspended solids samples with yearly branch median as well as branch medians for all years combined and creek median with all years combined.

	Sweeney		West		Club Head		Nelson	
	L	R	L	R	L	R	L	R
2003	20.07 +/- 3.37	23.20 +/- 1.83	16.0 +/- 1.41	13.75 +/- 1.36	15.64 +/- 1.56	17.08 +/- 1.01	21.05 +/- 2.12	17.27 +/- 1.97
2004	21.63 +/- 1.52	21.43 +/- 1.69	21.36 +/- 1.60	27.86 +/- 1.60	19.83 +/- 1.09	18.58 +/- 1.33	21.82 +/- 1.90	19.12 +/- 1.54
2005	17.61 +/- 1.63	16.98 +/- 2.21	27.30 +/- 3.62	20.0 +/- 3.06	27.69 +/- 4.59	24.48 +/- 4.15	17.59 +/- 2.17	17.75 +/- 1.31
2006	39.36 +/- 4.28	36.81 +/- 4.36	35.5 +/- 4.61	44.01 +/- 5.74	27.17 +/- 3.07	26.70 +/- 3.18	33.45 +/- 1.62	31.68 +/- 3.67
All	20.94 +/- 1.27	23.20 +/- 1.33	24.94 +/- 1.74	24.17 +/- 1.97	20.96 +/- 1.38	19.85 +/- 1.23	22.92 +/- 1.27	18.97 +/- 1.44
All	22.29 +/- 0.92		24.39 +/- 1.31		19.96 +/- 0.92		21.01 +/- 0.96	

TABLE 3: Median sediment deposition values (mg/day) and errors from the filters on the marsh surface with yearly branch median as well as branch medians for all years combined and creek median with all years combined.

	Sweeney		West		Club Head		Nelson	
	L	R	L	R	L	R	L	R
2003	7.125 +/- 1.71	6.64 +/- 1.80	7.14 +/- 1.56	7.64 +/- 1.84	11.66 +/- 1.47	9.8 +/- 1.86	10.82 +/- 2.43	8.71 +/- 1.46
2004	11.59 +/- 11.97	10.93 +/- 12.34	7.33 +/- 3.23	9.41 +/-2.87	12.05 +/- 2.99	15.23 +/- 9.37	8.17 +/- 0.78	7.66 +/- 0.89
2005	6.76 +/- 4.36	7.53 +/- 4.01	6.56 +/- 10.88	8.65 +/- 5.7	6.48 +/- 0.79	8.21 +/- 11.43	8.48 +/- 1.58	6.51 +/- 0.67
2006	5.99 +/- 2.57	4.86 +/- 2.89	9.53 +/- 3.3	8.37 +/- 3.12	7.81 +/- 0.59	8.39 +/- 1.69	6.76 +/- 1.3	5.97 +/- 1.04
All	6.81 +/- 4.65	6.67 +/- 5.26	7.41 +/- 2.87	8.51 +/- 1.84	9.32 +/- 0.82	9.78 +/- 4.5	8.16 +/- 0.81	6.69 +/- 0.55
All	6.77 +/- 3.52		8.07 +/- 1.70		9.6 +/- 2.65		7.15 +/- 0.5	

TABLE 4: Median percent organic values (%) and errors measured from sediment deposition from the filters on the marsh surface with yearly branch median as well as branch medians for all years combined and creek median with all years

	Sweeney		West		Club Head		Nelson	
	L	R	L	R	L	R	L	R
2003	18.38 +/- 4.10	19.11 +/- 3.69	18.49 +/- 21.55	15.75 +/- 1.92	19.66 +/- 1.73	20.28 +/- 1.77	13.87 +/- 10.41	19.20 +/- 2.60
2004	14.11 +/- 0.34	13.22 +/- 0.53	13.74 +/- 23.41	15.56 +/- 3.95	15.56 +/- 0.83	12.23 +/- 0.9	16.38 +/- 6.33	13.35 +/- 10.82
2005	17.28 +/- 2.14	14.92 +/- 0.81	15.13 +/- 1.78	15.34 +/- 1.06	17.61 +/- 1.11	14.25 +/- 1.41	14.76 +/- 1.15	15.71 +/- 1.15
2006	19.69 +/- 1.95	23.99 +/- 2.64	15.38 +/- 0.7	17.29 +/- 0.79	18.62 +/- 0.87	16.85 +/- 2.61	17.5 +/- 1.27	19.44 +/- 1.4
All	16.76 +/- 1.03	16.37 +/- 1.05	15.28 +/- 6.85	15.98 +/- 1.0	17.58 +/- 0.59	14.87 +/- 0.87	15.58 +/- 2.76	18.44 +/- 2.19
All	16.659 +/- 0.73		15.66 +/- 3.45		16.14 +/- 0.56		16.65 +/- 1.78	

TABLE 5: Mean elevation (m) and errors measured from tide stick data with yearly branch means as well as branch means for all years combined and creek means with all years combined.

	Sweeney		West		Club Head		Nelson	
	L	**R**	**L**	**R**	**L**	**R**	**L**	**R**
2003	2.953 +/- 0.015	3.013 +/- 0.018	2.962 +/- 0.029	2.958 +/- 0.026	3.000 +/- 0.035	3.000 +/- 0.026	2.953 +/- 0.036	3.022 +/- 0.015
2004	2.928 +/- 0.021	2.995 +/- 0.018	2.986 +/- 0.015	2.970 +/- 0.038	2.972 +/- 0.023	3.016 +/- 0.020	2.960 +/- 0.020	3.005 +/- 0.023
2005	2.920 +/- 0.018	2.993 +/-0.017	2.965 +/- 0.017	2.943 +/- 0.042	2.970 +/- 0.028	3.015 +/- 0.023	2.946 +/- 0.038	2.984 +/- 0.021
2006	2.922 +/- 0.019	2.998 +/- 0.015	2.972 +/- 0.019	2.971 +/- 0.032	2.974 +/- 0.028	3.016 +/- 0.023	2.947 +/- 0.040	3.004 +/- 0.017
All	2.931 +/- 0.013	3.000 +/- 0.016	2.971 +/- 0.019	2.961 +/- 0.032	2.978 +/- 0.028	3.011 +/- 0.022	2.951 +/- 0.037	3.003 +/- 0.018
All	2.966 +/- 0.022		2.971 +/- 0.027		2.994 +/- 0.026		2.981 +/- 0.030	

TABLE 6: Median creek fixed suspended solids (mg/L) values and errors as a function of distance along transect.

	SW	WE	CL	NE
Mouth	5.95 +/- 0.92	5.71 +/- 1.69	4.98 +/- 0.86	4.15 +/- 0.81
Main	9.9 +/- 2.12	N/A	11.25 +/- 3.94	N /A
Conf.	8.86 +/- 0.86	8.16 +/- 3.02	11.0 +/- 1.43	8.81 +/- 1.06
T1	10.11 +/- 1.4	10.15 +/- 4.65	9.7 +/- 2.2	11.0 +/- 1.18
T2	10.17 +/- 0.61	12.6 +/- 3.27	11.2 +/- 1.58	9.85 +/- 1.28
T3	10.4 +/- 3.99	13.8 +/- 1.15	15.0 +/- 1.48	9.1 +/- 1.79
Ditch	8.0 +/- 1.18	N/A	9.5 +/- 2.72	N/A

TABLE 7: Lengths (m) of both continuous and discontinuous ditches affecting transects based on the aerial photographs.

Creek	Branch	Transect	Ditch/ No-ditch	Continuous Ditches	Discontinuous Ditches	Total Ditches
WE	R	T1	ND	0	0	0
WE	R	T2	D	27.7	0	27.7
WE	R	T3	ND	7.26	0	7.26
WE	L	T1	D	70.45	0	70.45
WE	L	T2	D	69.06	0	69.06
WE	L	T3	D	59.9	0	59.9
NE	R	T1	ND	0	0	0
NE	R	T2	ND	0	0	0
NE	R	T3	D	0	40.72	40.72
NE	L	T1	ND	0	0	0
NE	L	T2	D	30.11	0	30.11
NE	L	T3	D	52.76	22.84	75.6
CL	M	1	ND	0	0	0
CL	M	1	D	34.5	0	34.5
CL	M	2	ND	0	0	0
CL	M	2	D	35.25	0	35.25
CL	R	1	ND	0	0	0
CL	R	T1	D	32.23	0	32.23
CL	R	T2	ND	0	0	0
CL	R	2	D	25.82	0	25.82
CL	R	3	ND	3.87	0	3.87
CL	R	T3	D	49.47	8.01	57.48
CL	L	1	ND	0	0	0
CL	L	1	D	53.92	0	53.92
CL	L	T1	ND	0	0	0
CL	L	T2	ND	0	0	0
CL	L	T3	ND	0	0	0
SW	M	1	ND	0	0	0
SW	M	1	D	24.45	39.45	63.9
SW	M	2	ND	0	0	0
SW	M	2	D	10.75	30.87	41.62
SW	R	1	ND	0	0	0
SW	R	T1	D	28.52	10.1	38.62
SW	R	T2	D	1.13	20.81	21.94
SW	R	2	D	18	0	18
SW	R	T3	ND	5.96	0	5.96
SW	R	3	D	86.19	0	86.19
SW	L	T1	D	24.06	10.14	34.2
SW	L	1	D	64.68	0	64.68
SW	L	2	ND	0	0	0
SW	L	T2	D	36.97	22.77	59.74
SW	L	T3	D	18.04	51.76	69.8

FIGURE 1: Site location map showing Plum Island Sound and surrounding estuaries, including the Rowley River. Source: (http://ecosystems.mbl.edu/pie/data/MAP/pis.htm).

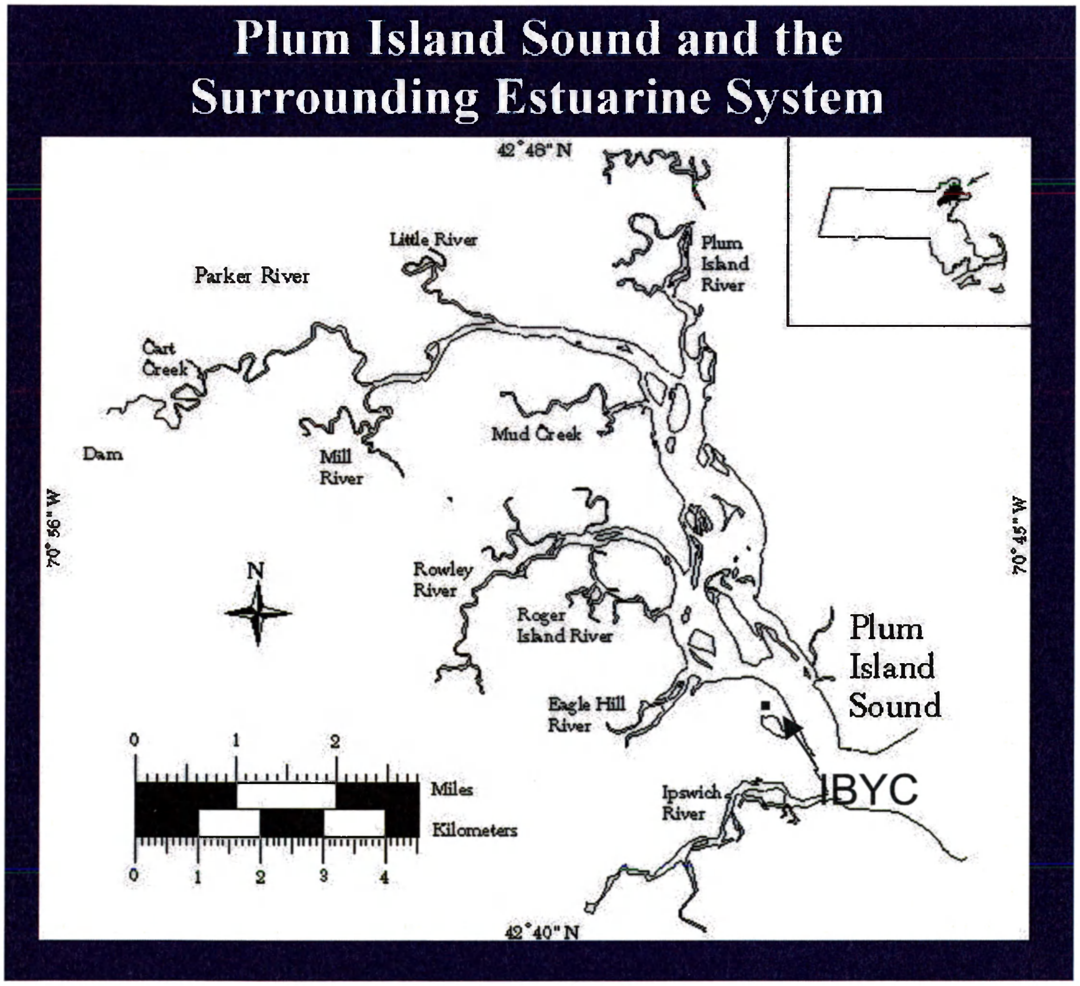


FIGURE 2: Map showing location of the four study creeks. Paired creeks are shown in matching colors and flags indicate transect locations. Source of map: www.massgis.gov .

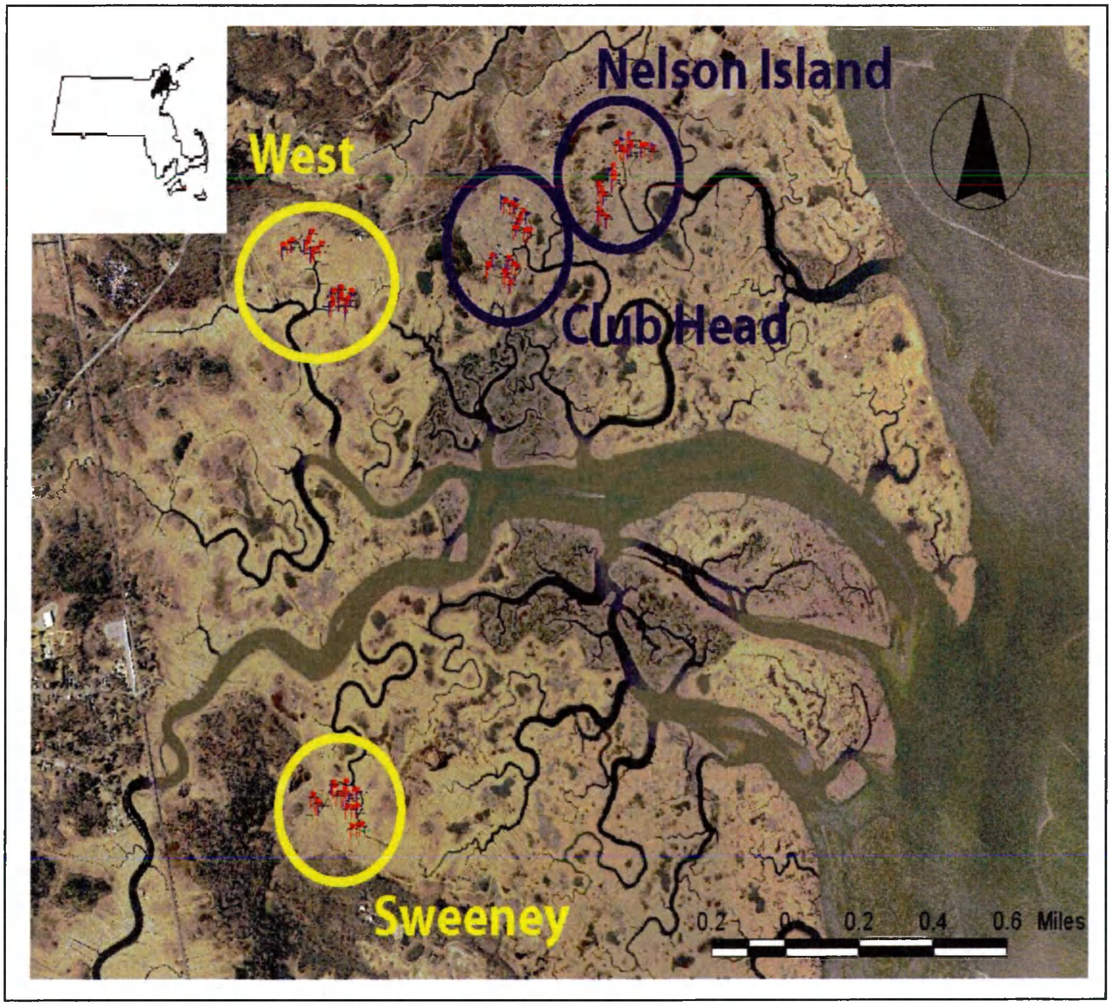


FIGURE 3: Aerial views of Sweeney and Club Head Creeks. Linear features present are ditches. Red circled areas highlight regions with abundant ponding. Source of maps: www.massgis.gov .

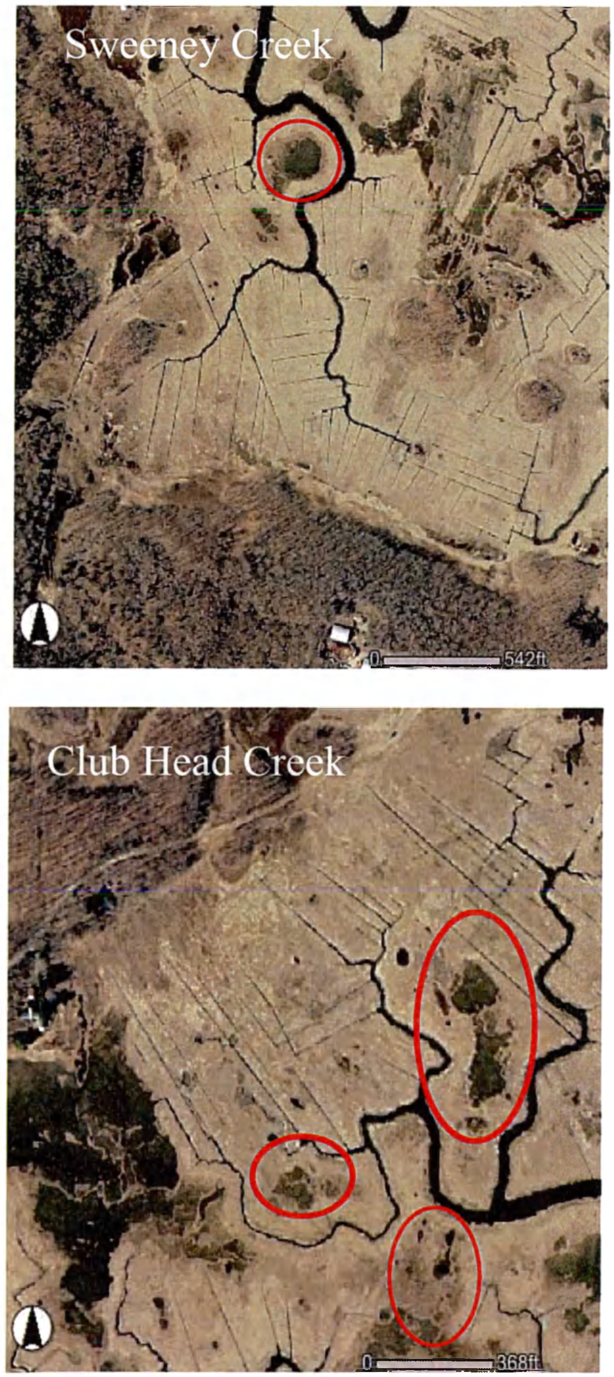


FIGURE 4. Map showing sediment deposition patterns at Bradley Creek marsh, North Carolina. From Leonard (1997).

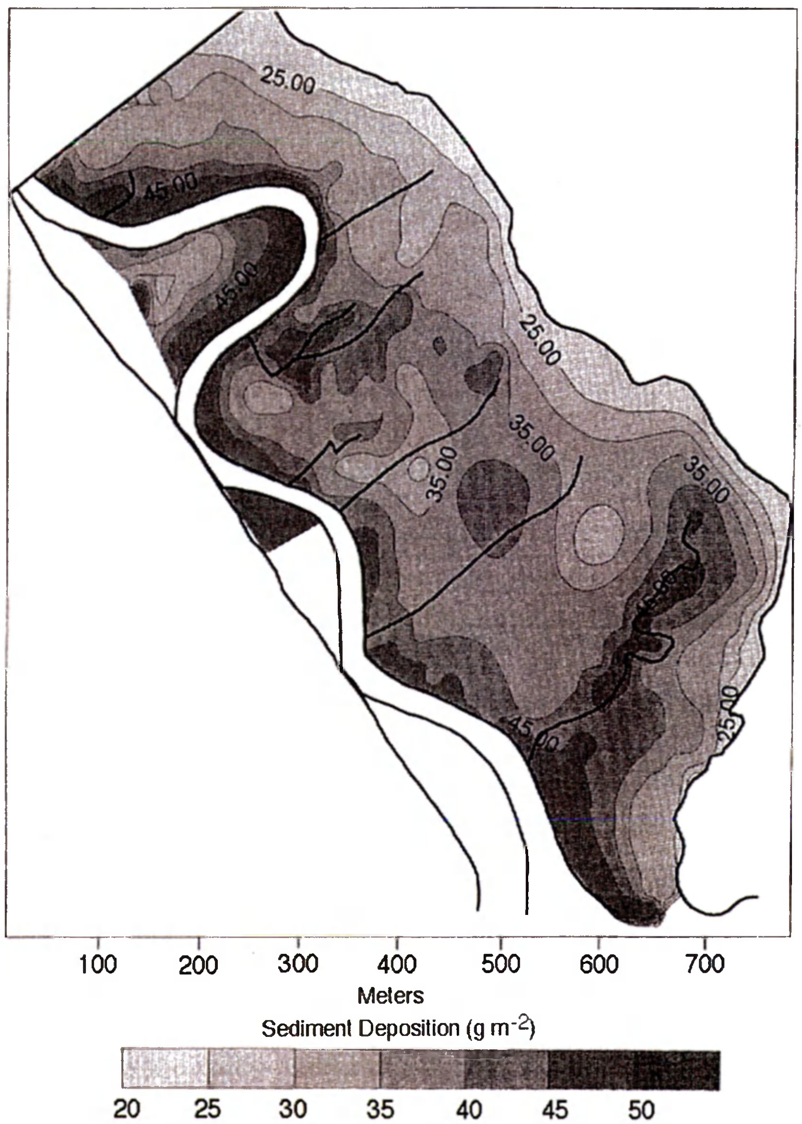


FIGURE 5 : Flow data collected at creekside and interior and in areas of differing vegetation density. From Leonard and Luther, 1995.

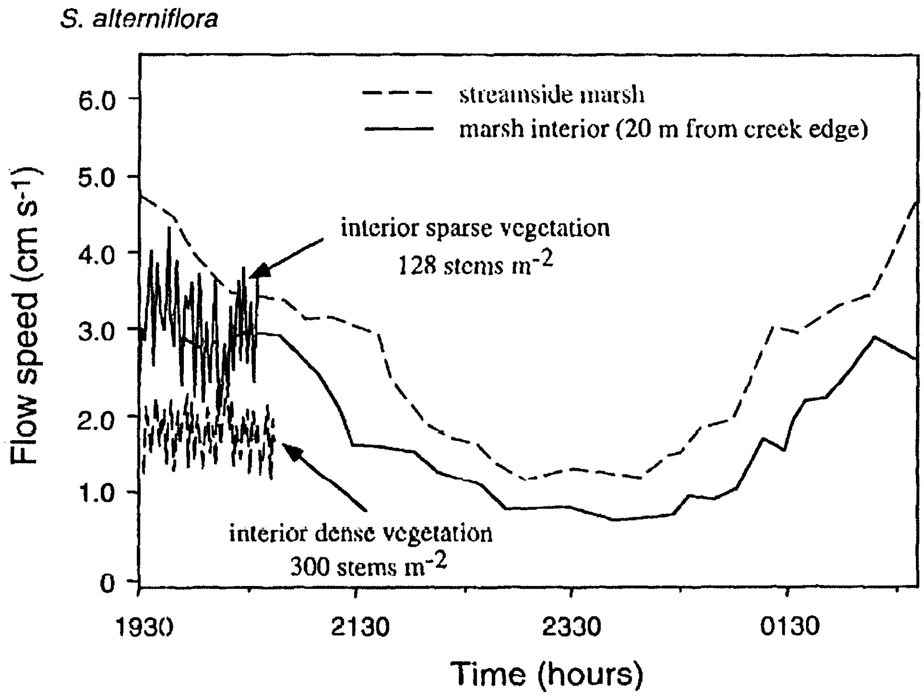


FIGURE 6. Relationship of pool density and total pool surface area with ditching intensity (ditch length, m/ha). From Adamowicz and Roman (2005).

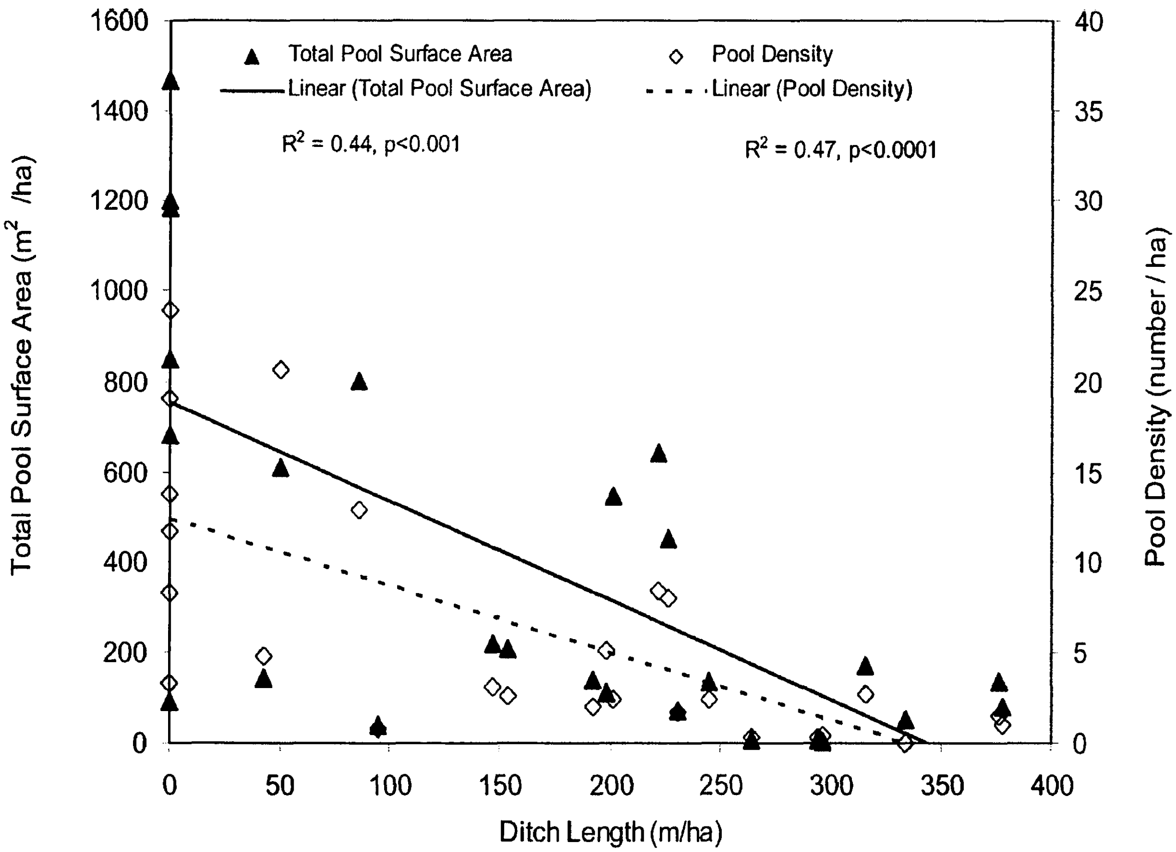
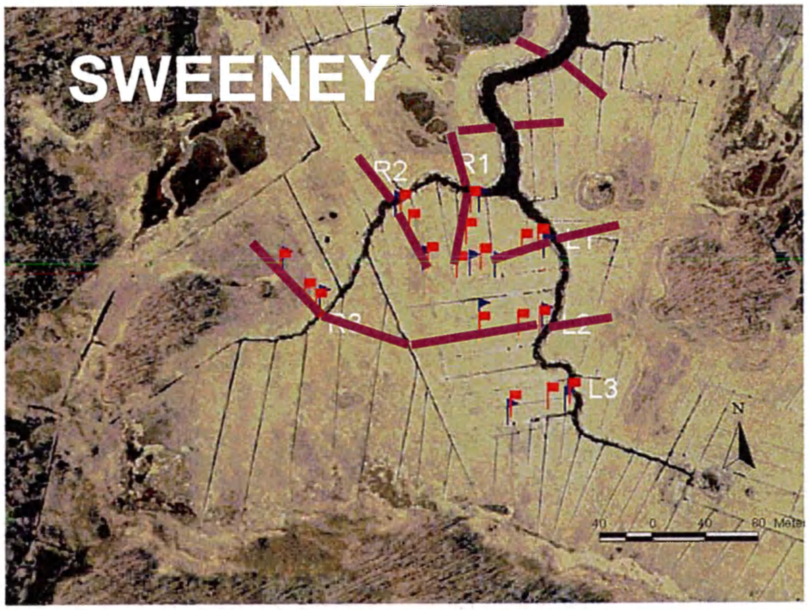


FIGURE 7: Maps of Sweeney and Club Head creeks showing locations of ditch and no-ditched paired transects. Source of maps: www.massgis.gov .



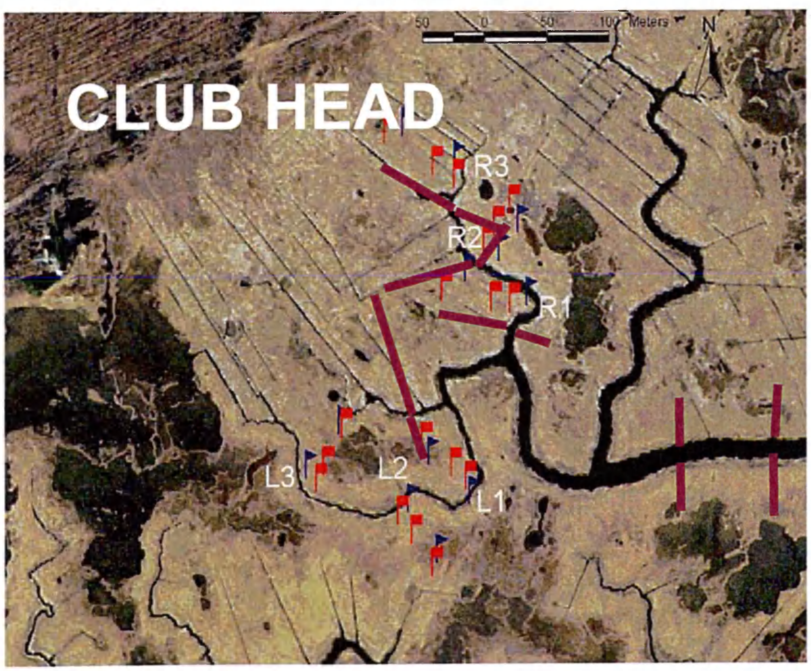
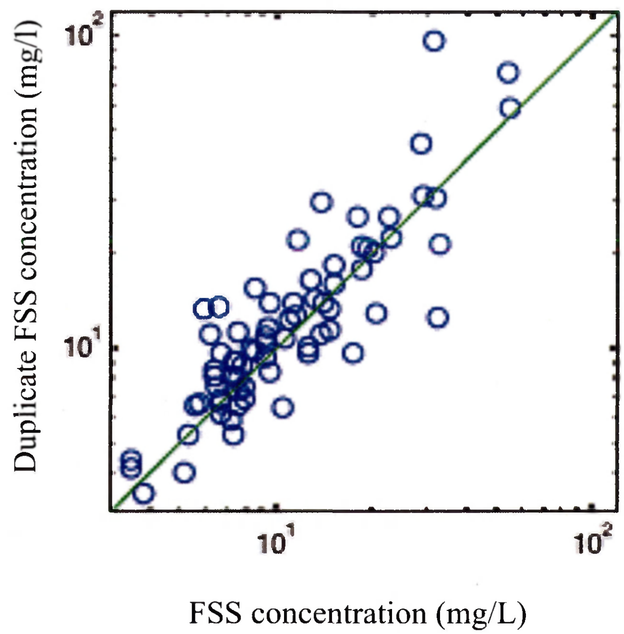


FIGURE 8: (a) FSS concentration versus duplicate FSS concentration collected. (b) FSS concentration of Transect 2 samples versus FSS concentration of Transect 3 samples.

(a)



(b)

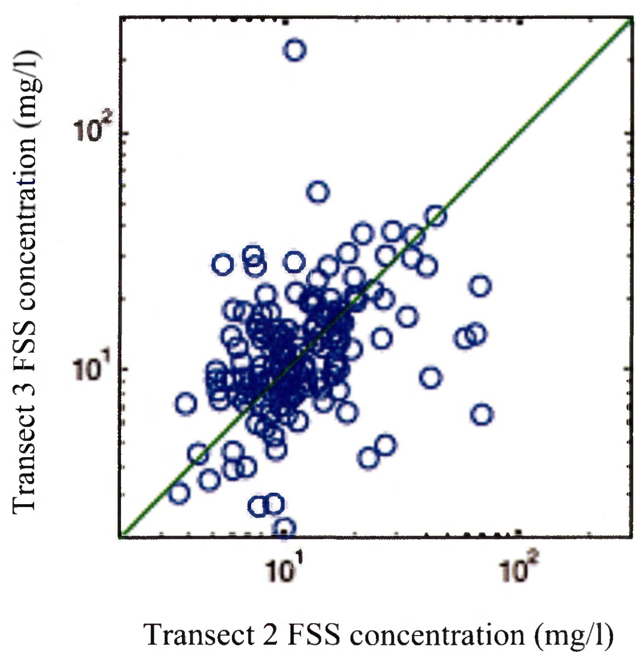


FIGURE 9: (a) Tide stick used to measure relative elevation. Note the obvious water line at 31.5 cm. (b) Cartoon showing how water heights on tide sticks were used to determine marsh elevation relative to high tide.

a.

b.

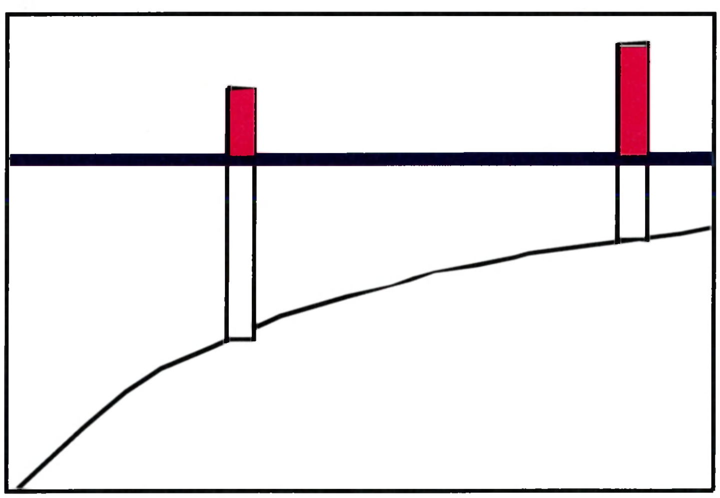
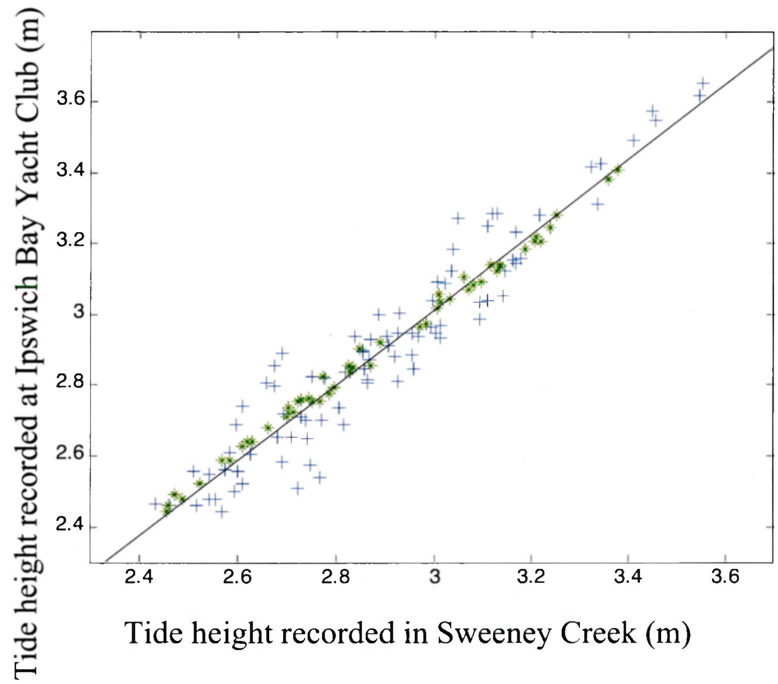


FIGURE 10: (a) Plot showing tide data collected at Ipswich River Yacht Club versus tide data collected by the NOAA tide gauge at Portland, ME. Blue + = 2005, Green * = 2006. (b) Plot of the tide data collected with the tide gauge at the the nutrient addition tank in Sweeney Creek versus the tide data collected at Ipswich River Yacht Club. Dark blue o = 2003, Green x = 2004, Red + = 2005, Light blue * = 2006.

a.



b.

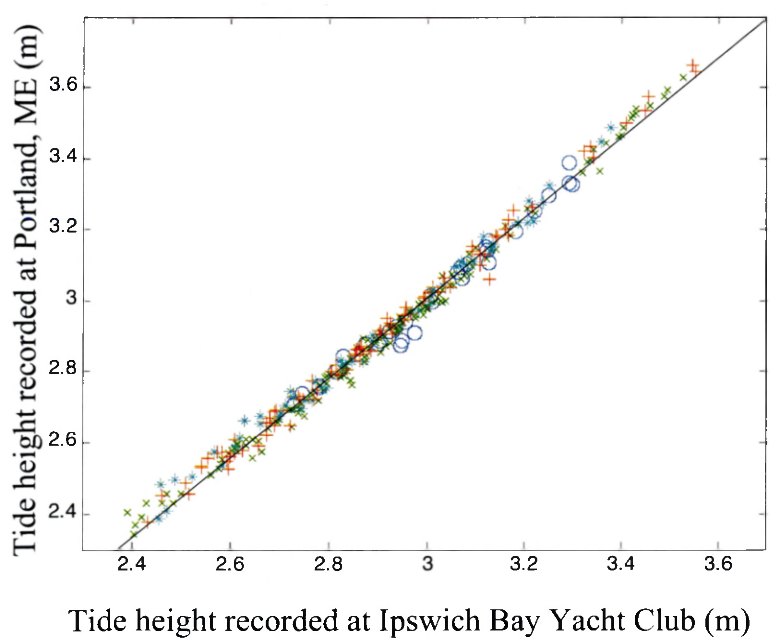


FIGURE 11: Tide stick elevations recorded from the first high tide plotted against elevation recorded at second high tide for each year. The mean absolute residual (MAR) represents the average absolute difference each year between consecutive tide stick measurement performed at the same site.

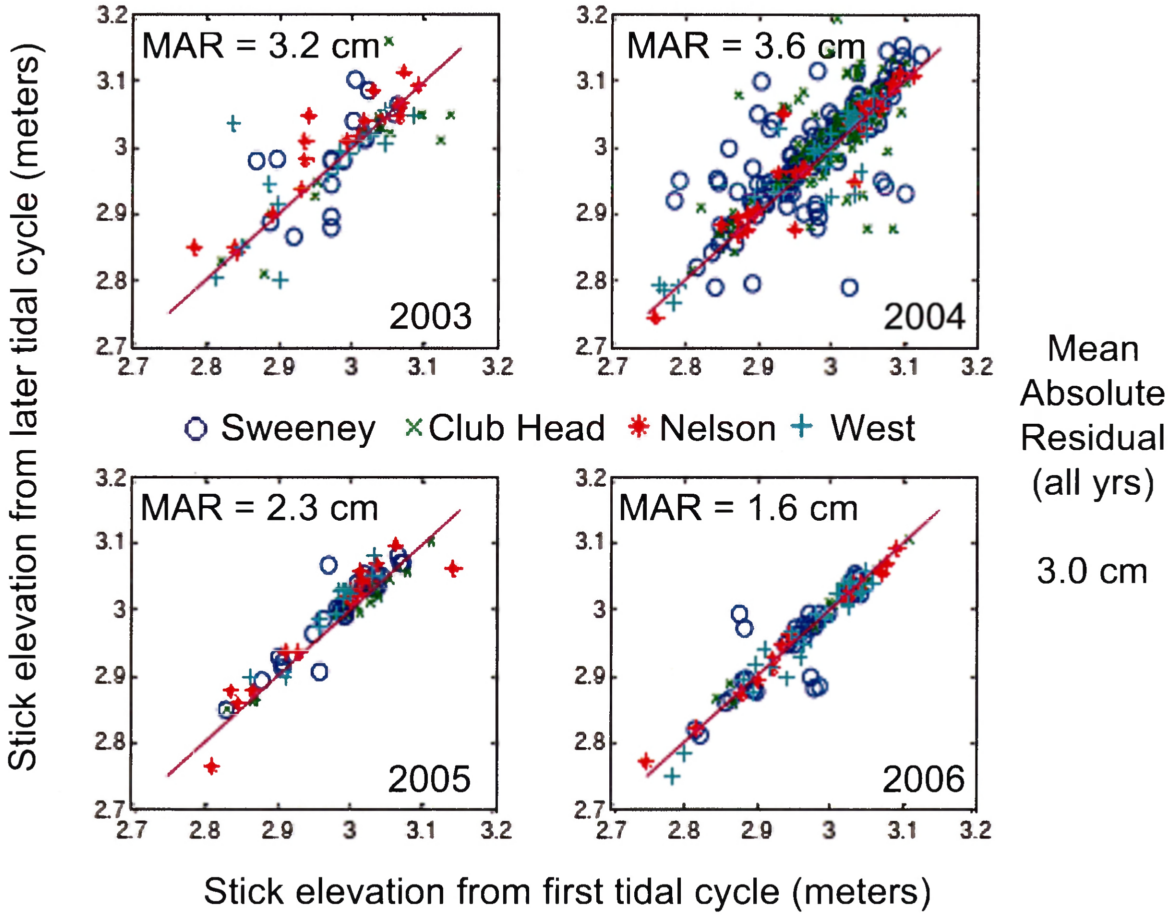


FIGURE 12: Mean tide stick elevation recorded for a given year plotted against the mean elevation for all years. The mean absolute residual (MAR) was greatest in 2003. The mean absolute residual for all years was 1.9 cm.

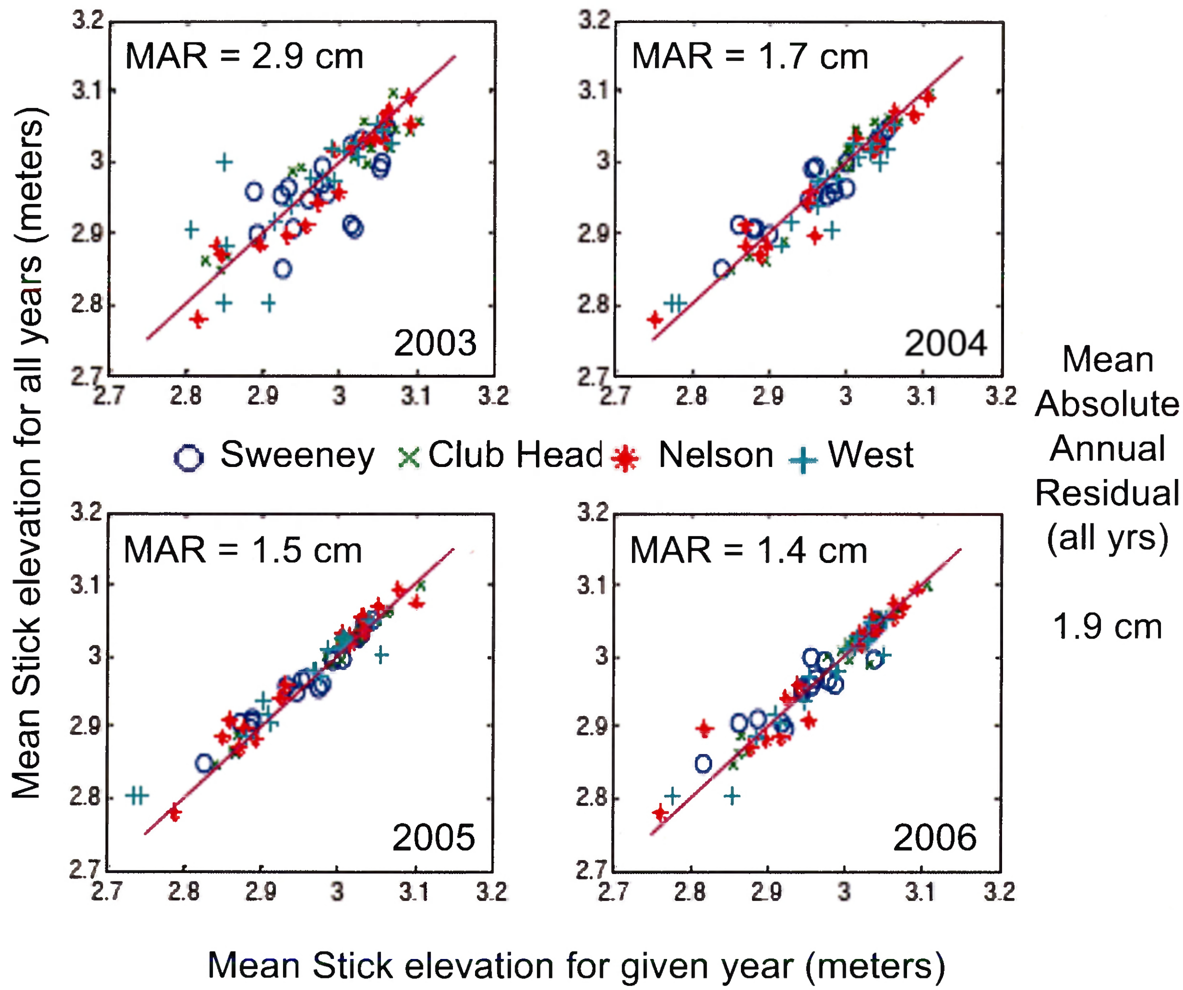


FIGURE 13: Aerial photographs of all four creeks studied. Source of maps: www.massgis.gov .

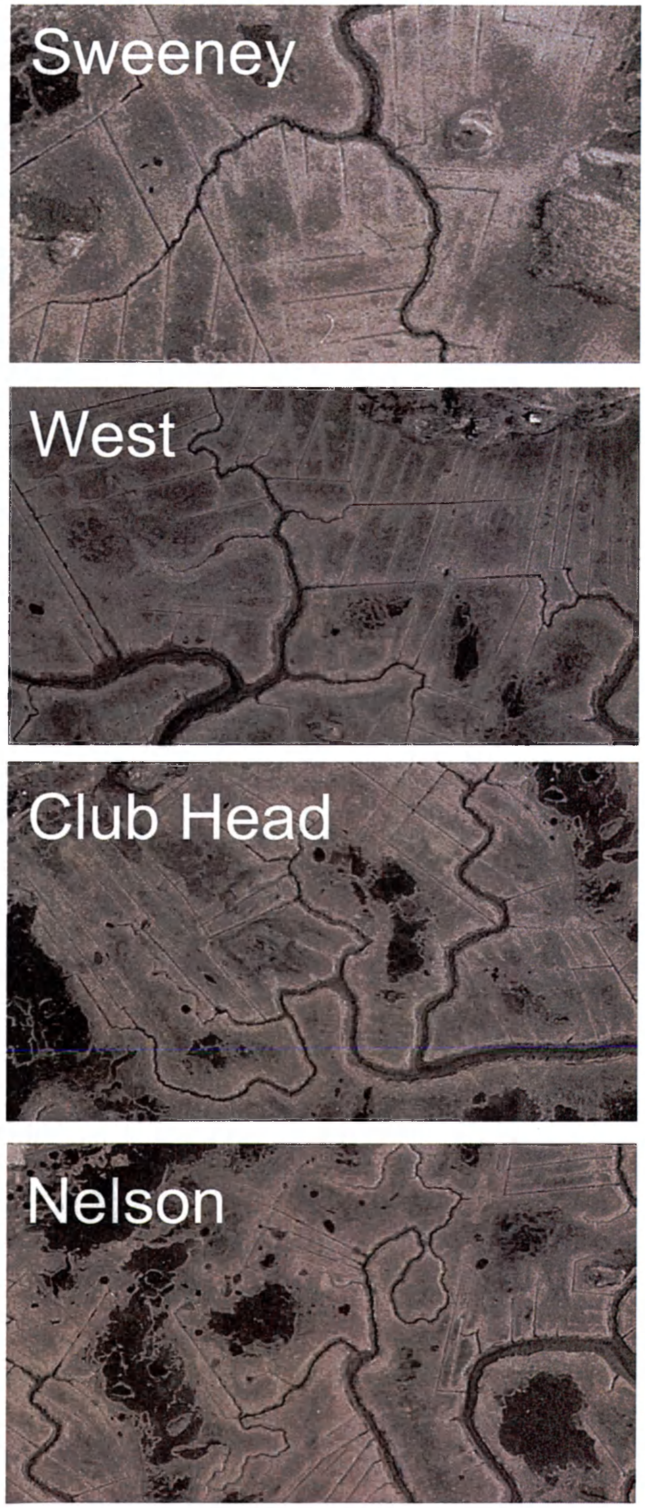


FIGURE 14a: Aerial photograph of Sweeney Creek showing the triangles used to calculate ditch length along each transect. Green circles represent all stations along all transects. Thin red lines show continuous ditches counted while thin blue lines represent discontinuous ditches.

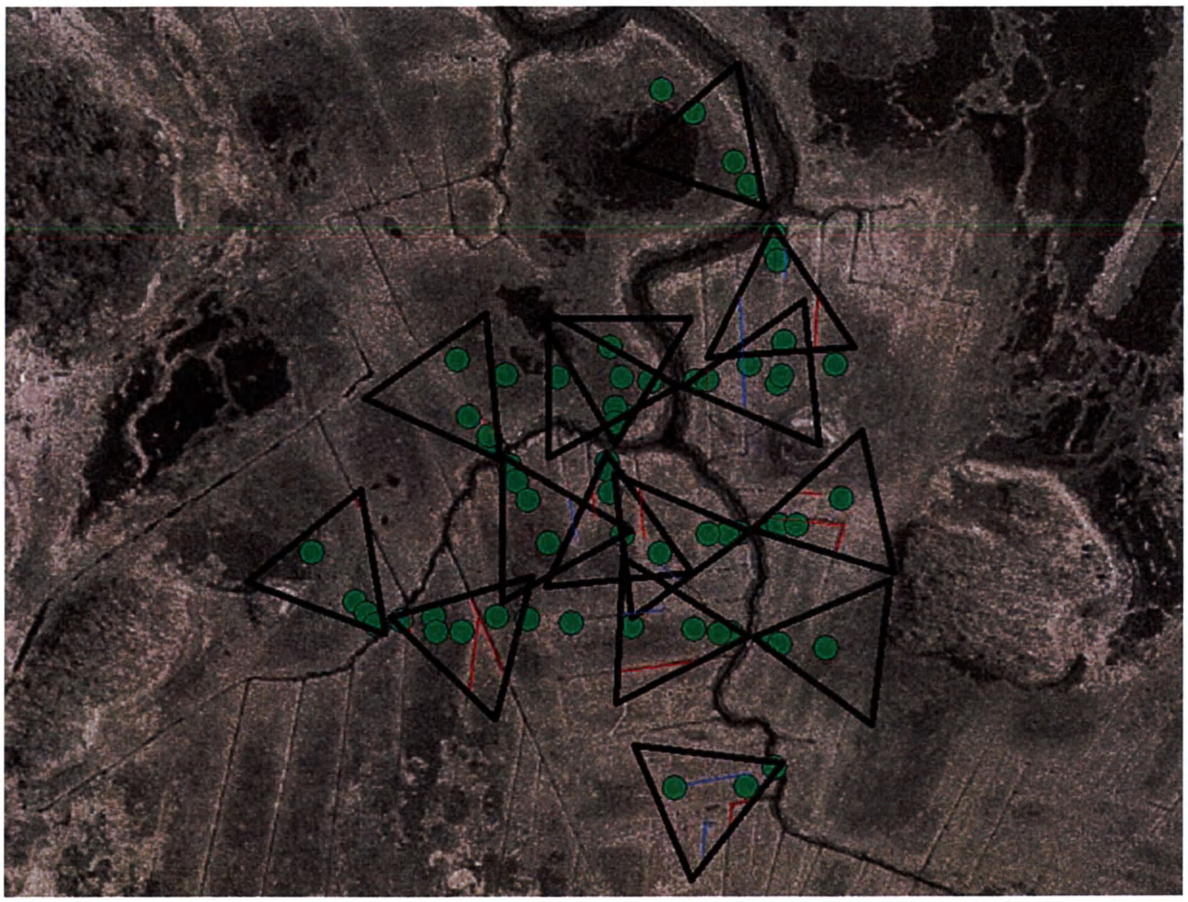


FIGURE 14b: Aerial photograph of West Creek showing the triangles used to calculate ditch length along each transect. Green circles represent all stations along all transects. Thin red lines show continuous ditches counted while thin blue lines represent discontinuous ditches.

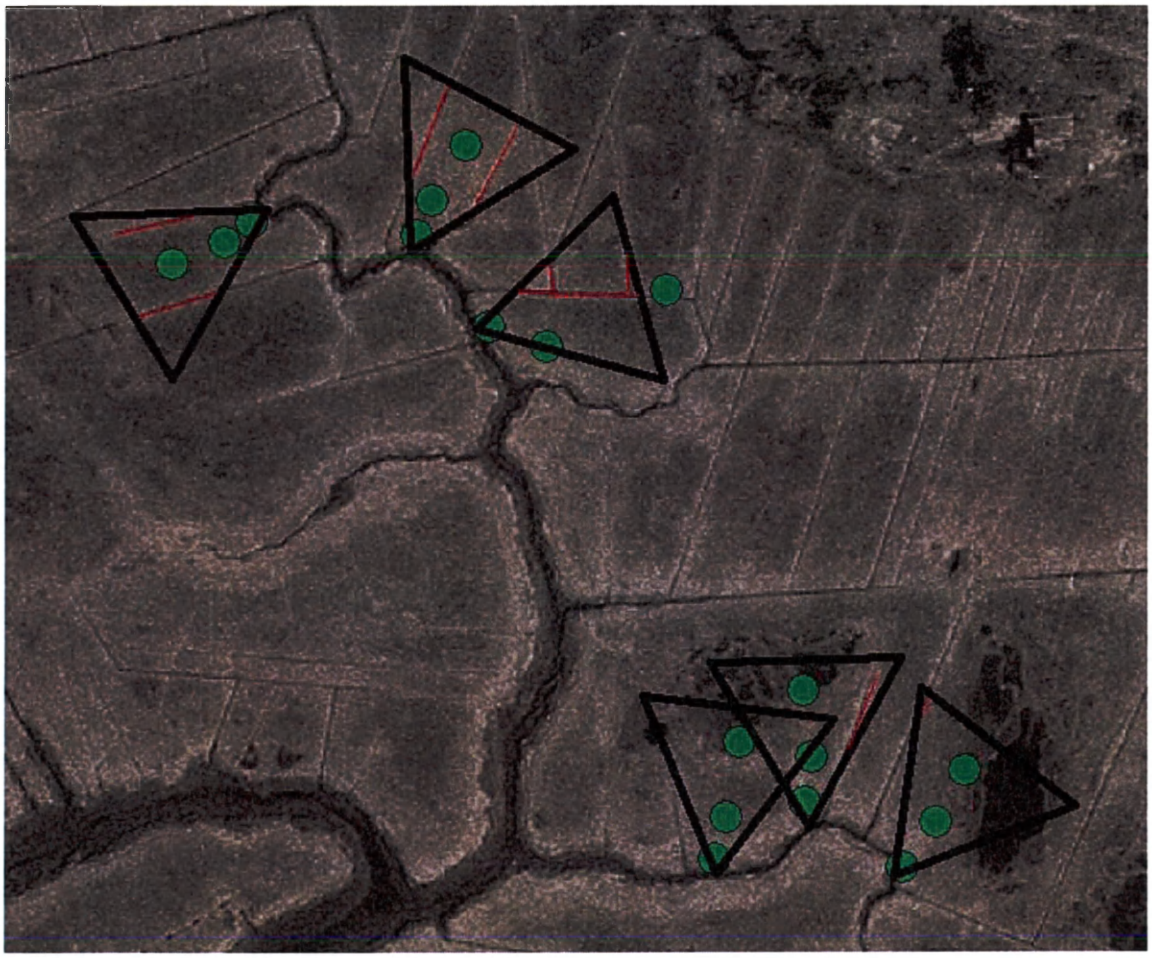


FIGURE 14c: Aerial photograph of Club Head Creek showing the triangles used to calculate ditch length along each transect. Green circles represent all stations along all transects. Thin red lines show continuous ditches counted while thin blue lines represent discontinuous ditches.

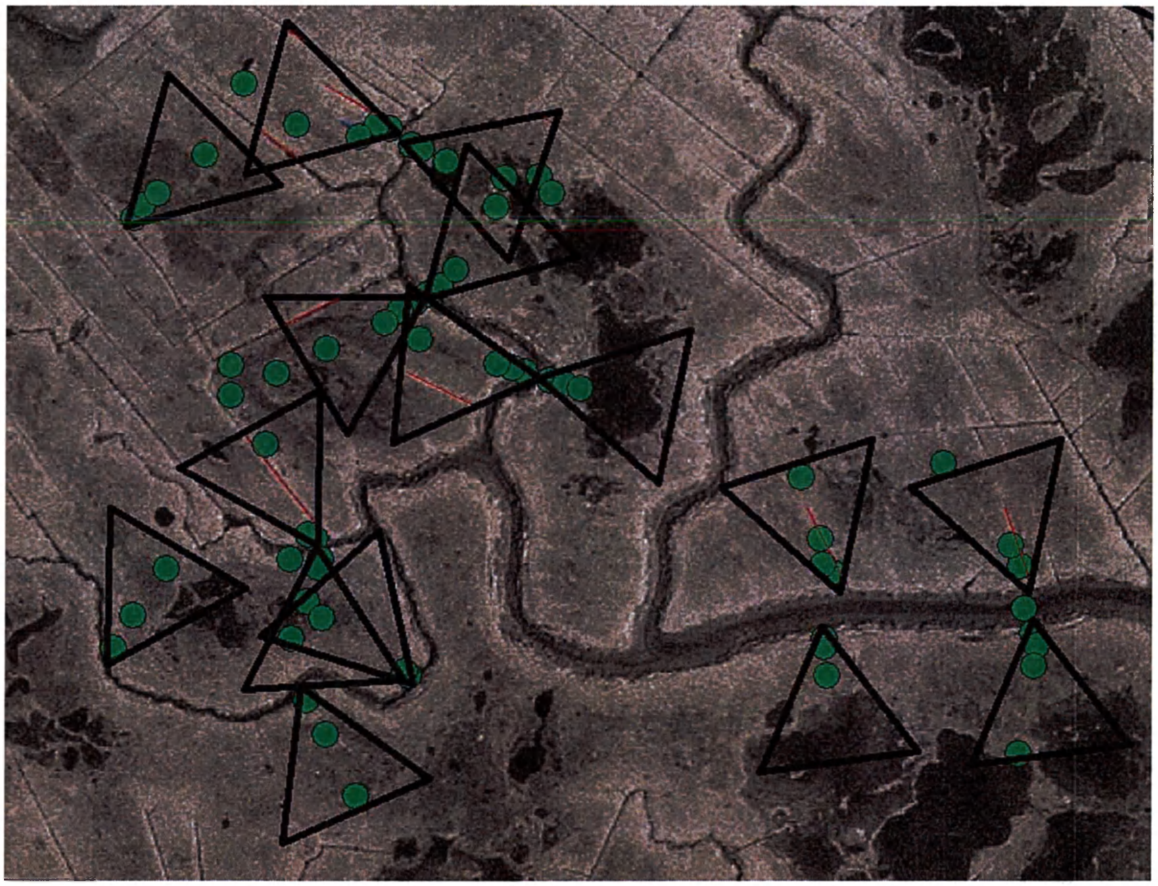


FIGURE 14d: Aerial photograph of Nelson Creek showing the triangles used to calculate ditch length along each transect. Green circles represent all stations along all transects. Thin red lines show continuous ditches counted while thin blue lines represent discontinuous ditches.

FIGURE 15: Sediment plate on marsh surface.

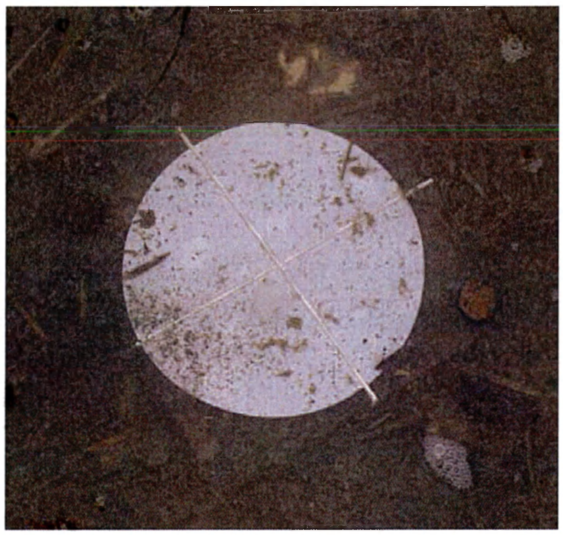


FIGURE 16: Sediment deposited on ceramic plates versus sediment deposited on GFF filters at the same locations. For sediment deposition values greater than 0.7 mg/cm2/week, the two methods are comparable. However, for values less than 0.7 mg/cm2/week, the filter captured and retained more sediment than did the ceramic plates at the same location in at almost all stations sampled.

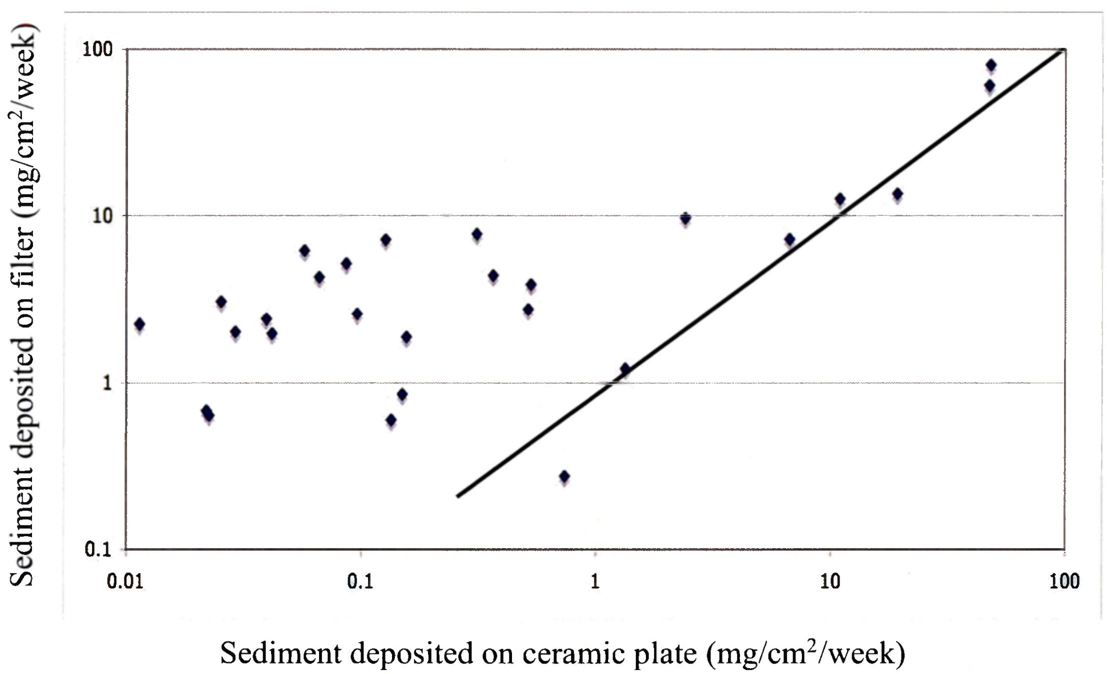


FIGURE 17: Deposition on first filter versus deposition on second filter in pair for each year. The largest median absolute error is 62% in 2003 and likely is large due to a number of filters destroyed in the field. The median absolute error for all four years is 18%.

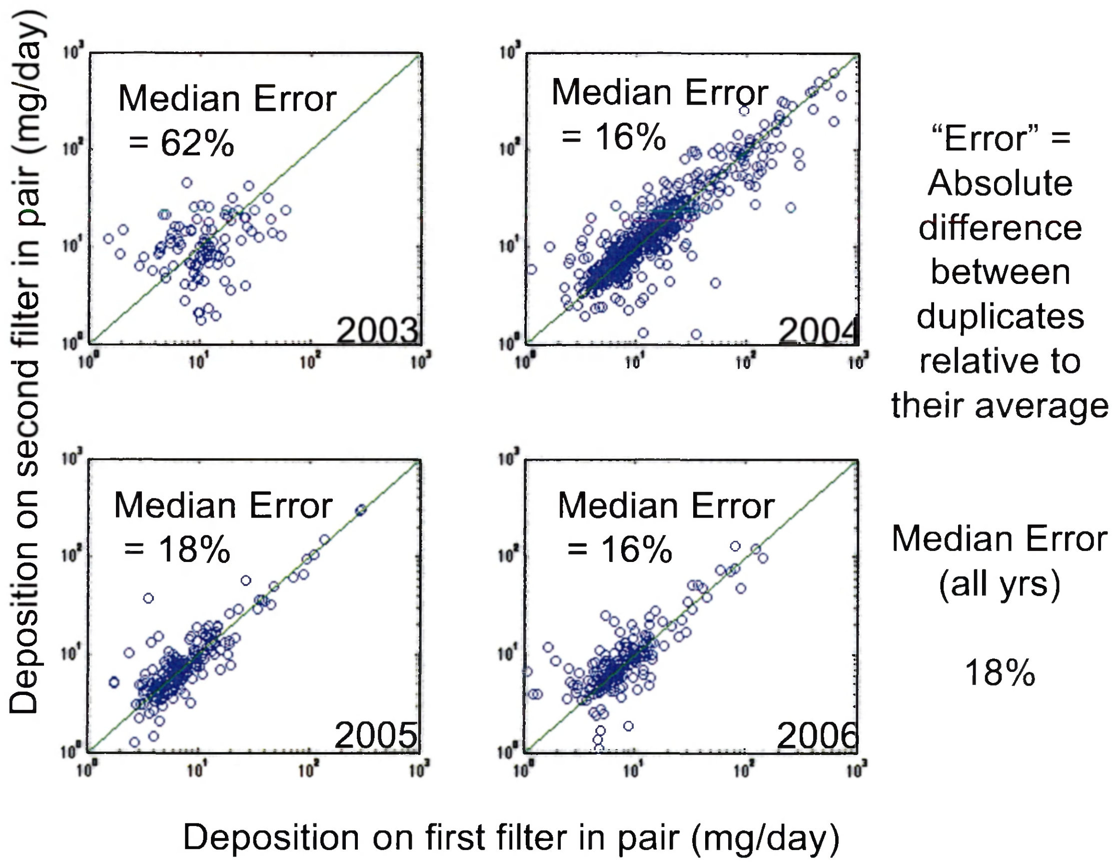


FIGURE 18: Median fixed suspended solids concentration as a function of distance up creek for each individual creek. Error bars indicate +/- one standard error. Red line represents Sweeney Creek (o), blue is West (+), Green is Club Head (x), and Black is Nelson (*).

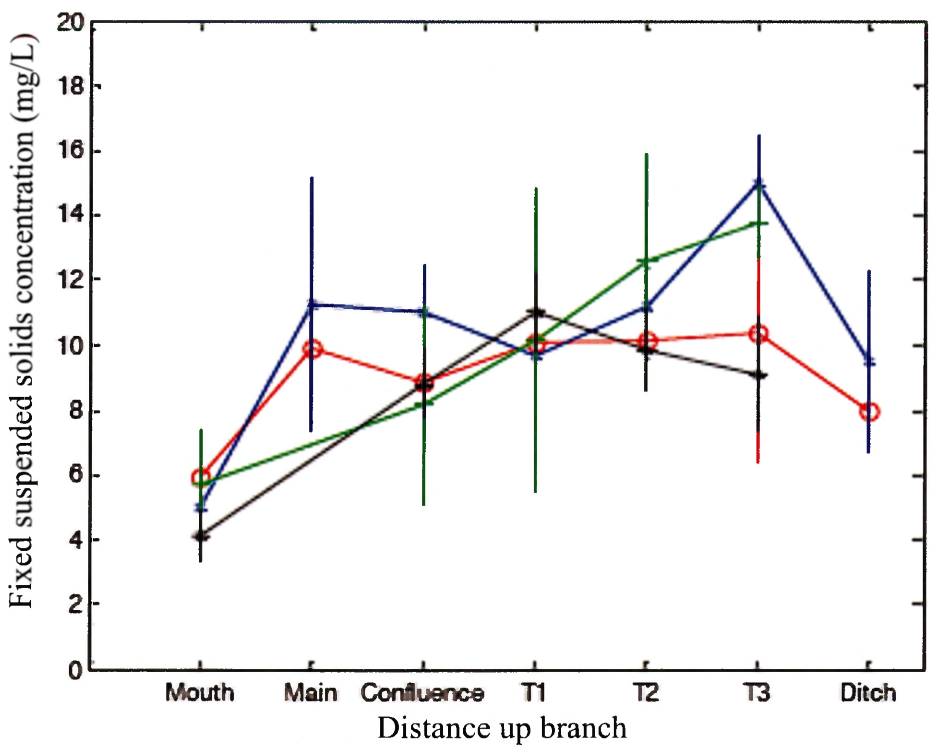


FIGURE 19: Median fixed suspended solids concentration as a function of distance up creek for all creeks pooled together. Error bars indicate +/- one standard error.

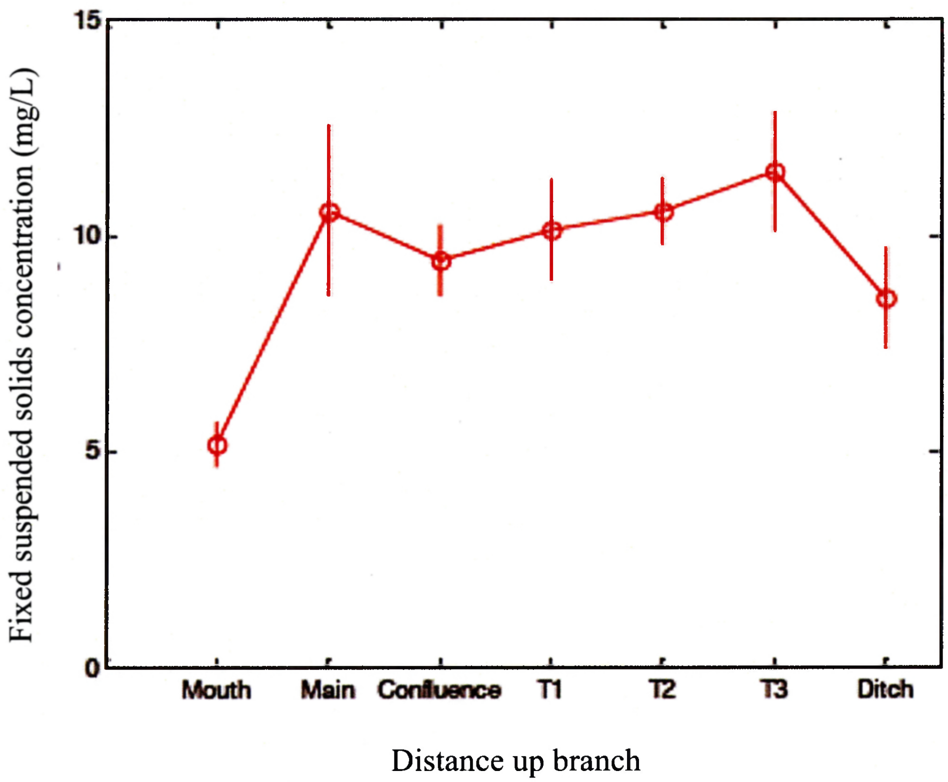


FIGURE 20: Total length of ditches for the six treatment transects in Sweeney Creek plotted against the average elevation of those transects. Right and left branch transects are indicated by blue diamonds and red squares, respectively.

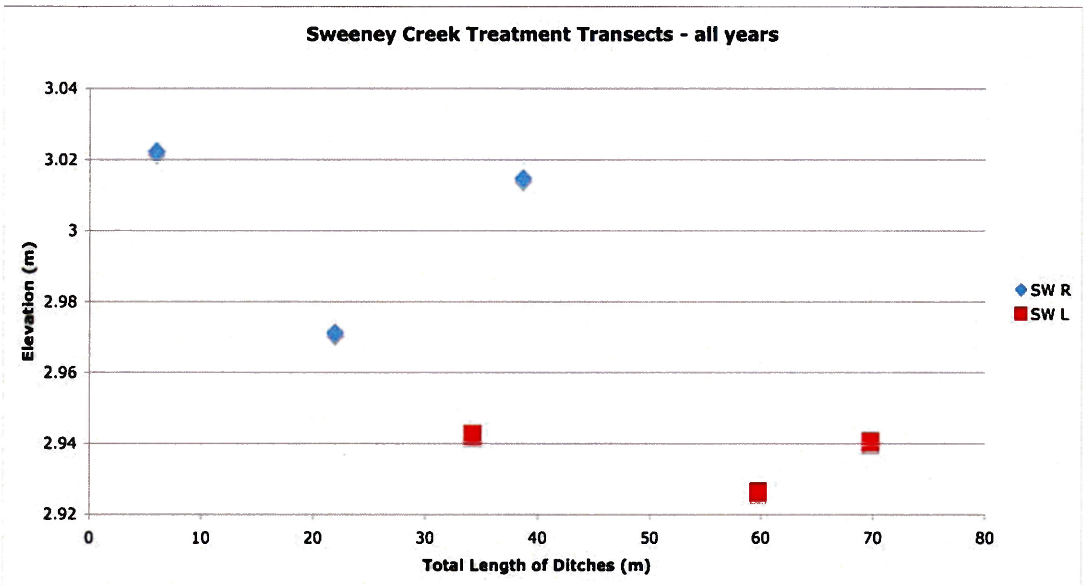


FIGURE 21: Total length of ditches versus mean elevation for all transects in all years.

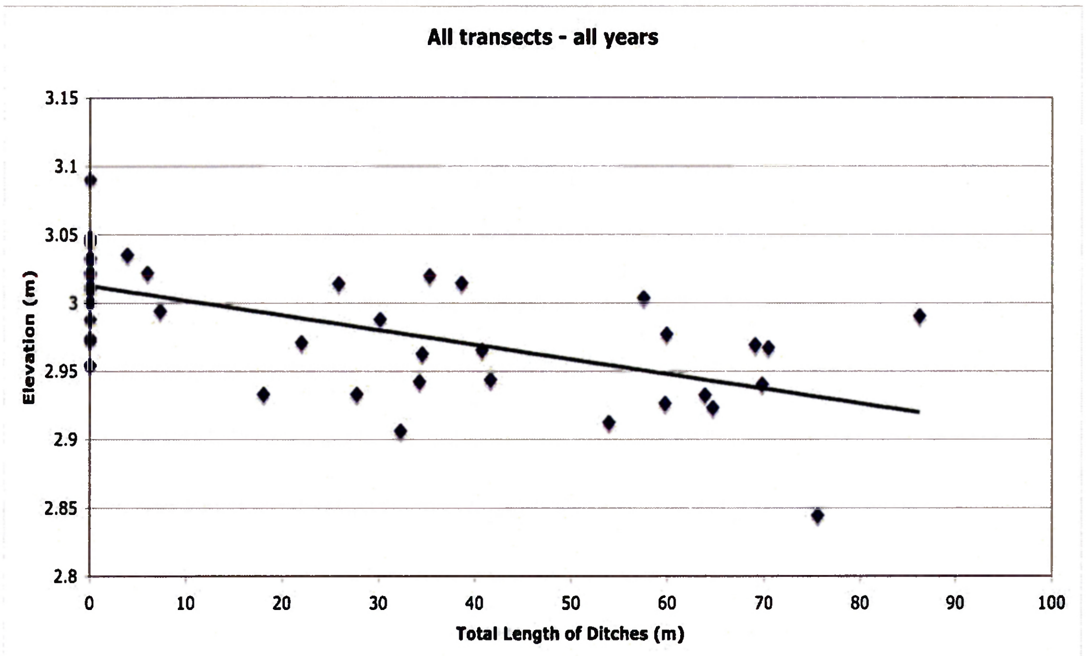


FIGURE 22: Median elevation as a function of distance along transect for (a) all Sweeney Creek transects, (b) all Club Head Creek transects, and (c) all transects in all creeks pooled together. Error bars indicate +/- one standard error. Red line represents ditched sites (o), while the blue line represents non-ditched sites (x).

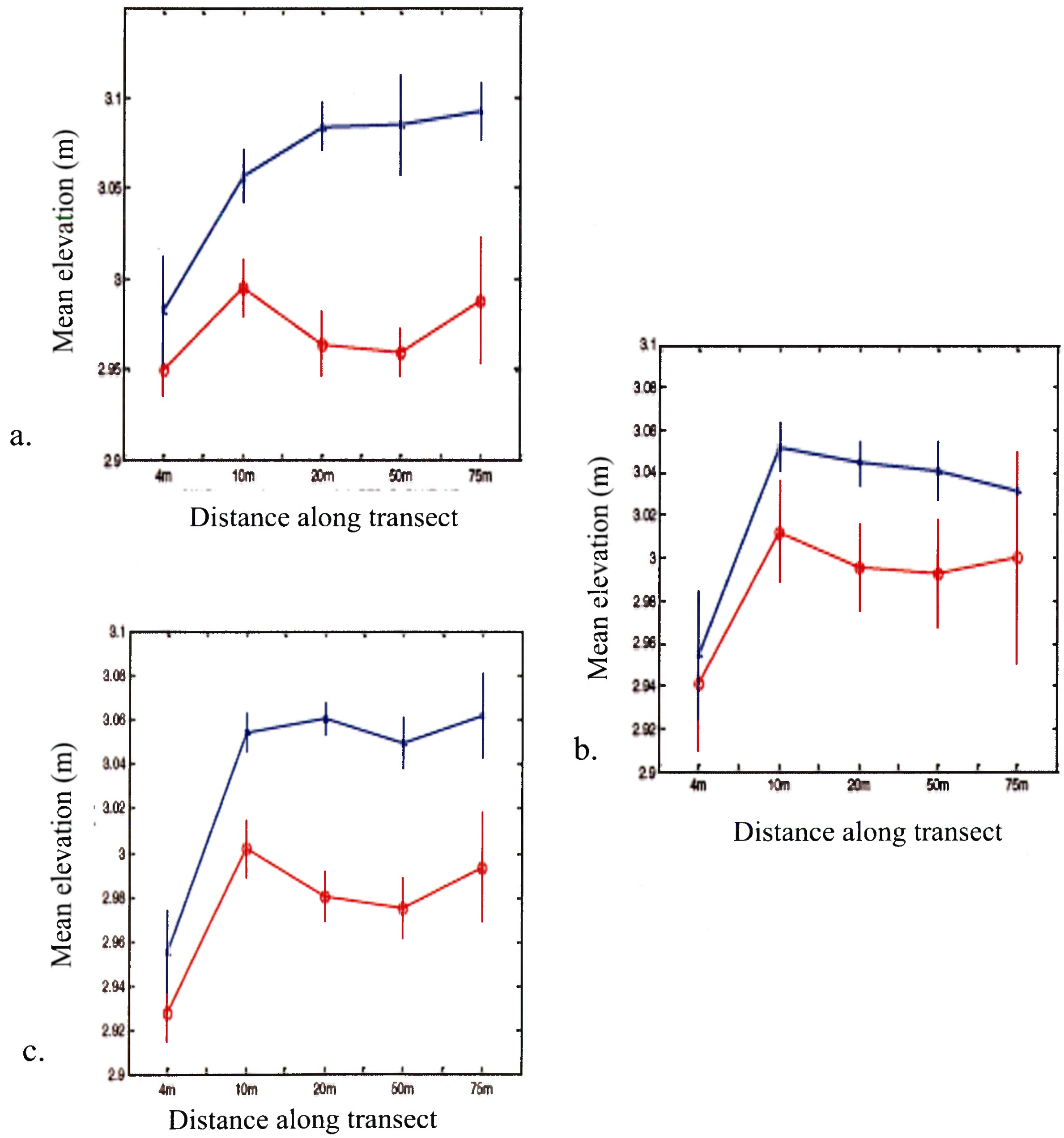


FIGURE 23: Mean grain size distribution by creek showing relative percentages of sand, silt, and clay sized particles from marsh surface samples.

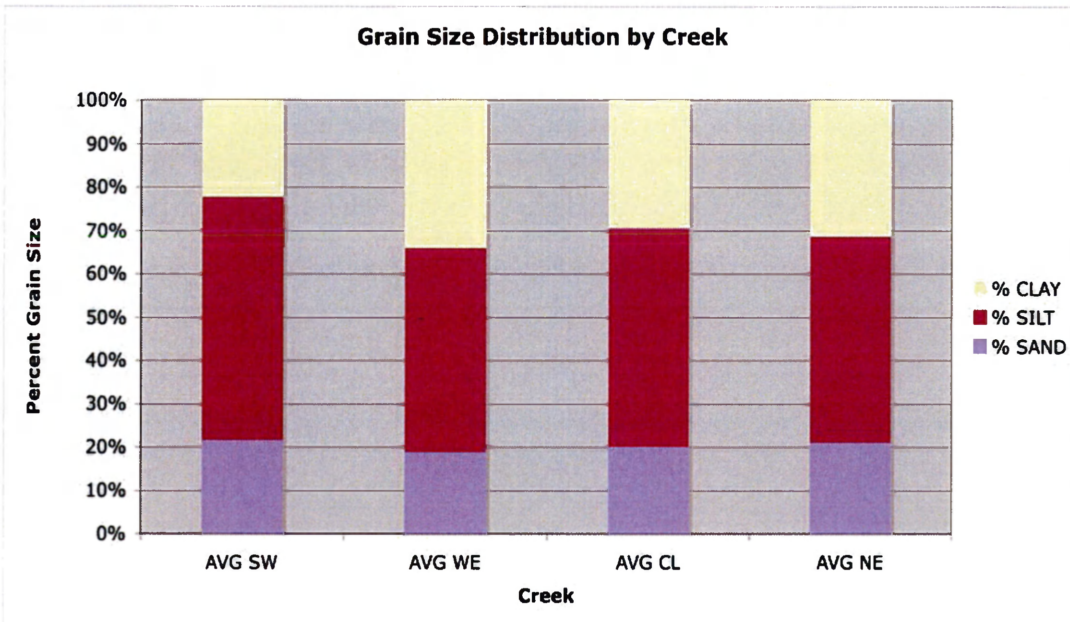


FIGURE 24: Mean percent of mud that is clay for the four creeks. Error bars indicate +/- one standard error.

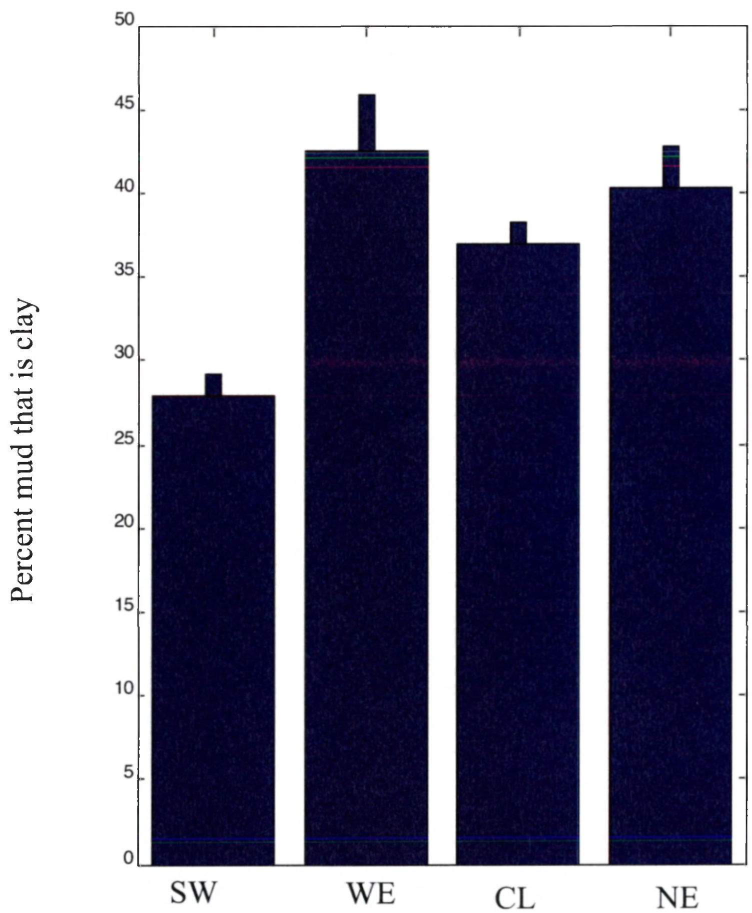


FIGURE 25: Percent of mud that is clay as a function of distance along transect. Error bars indicate +/- one standard error. Red line is Sweeney (o), Green is West (+), Blue is Club Head (x), and Black is Nelson (*).

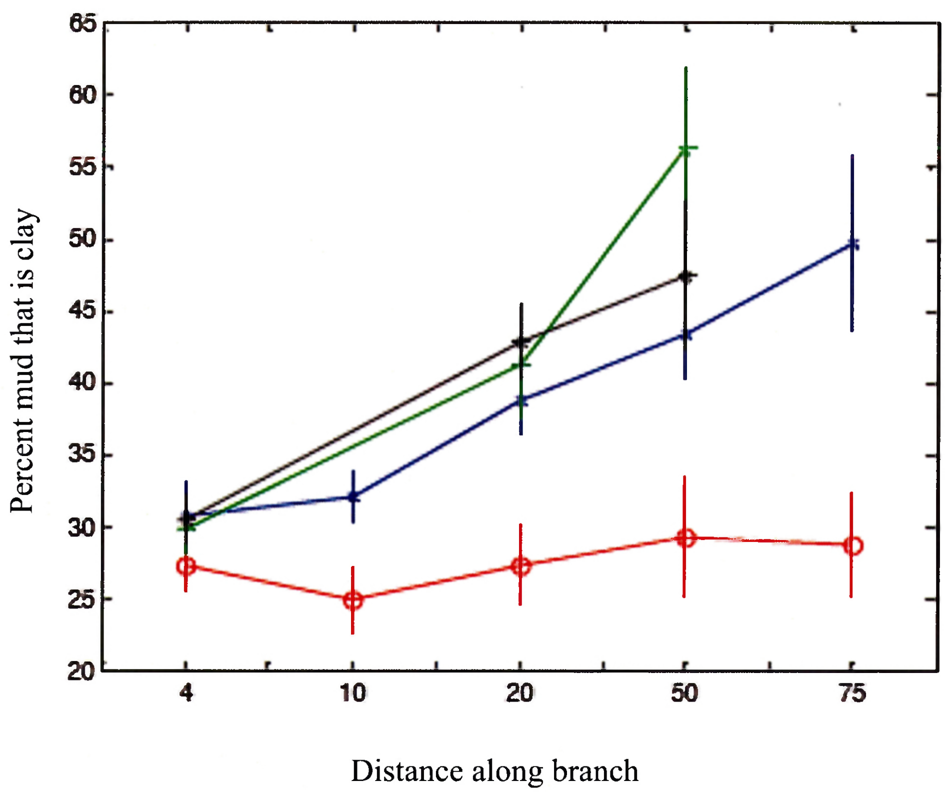


FIGURE 26: Percent of mud that is clay as a function of distance along transect for ditched versus non-ditched transects for sites greater than 4 meters. Error bars indicate +/- one standard error. Red line is ditched transects (o), blue line is non-ditched (x).

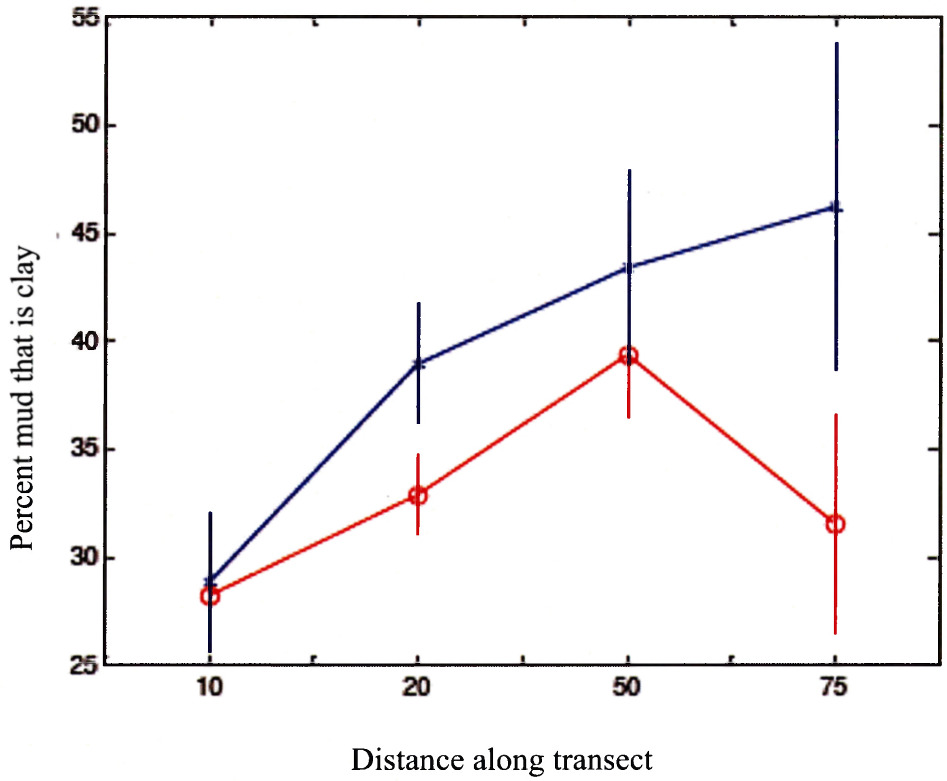


FIGURE 27: Mean percent organic matter for creeks from marsh surface samples. Error bars indicate +/- one standard error.

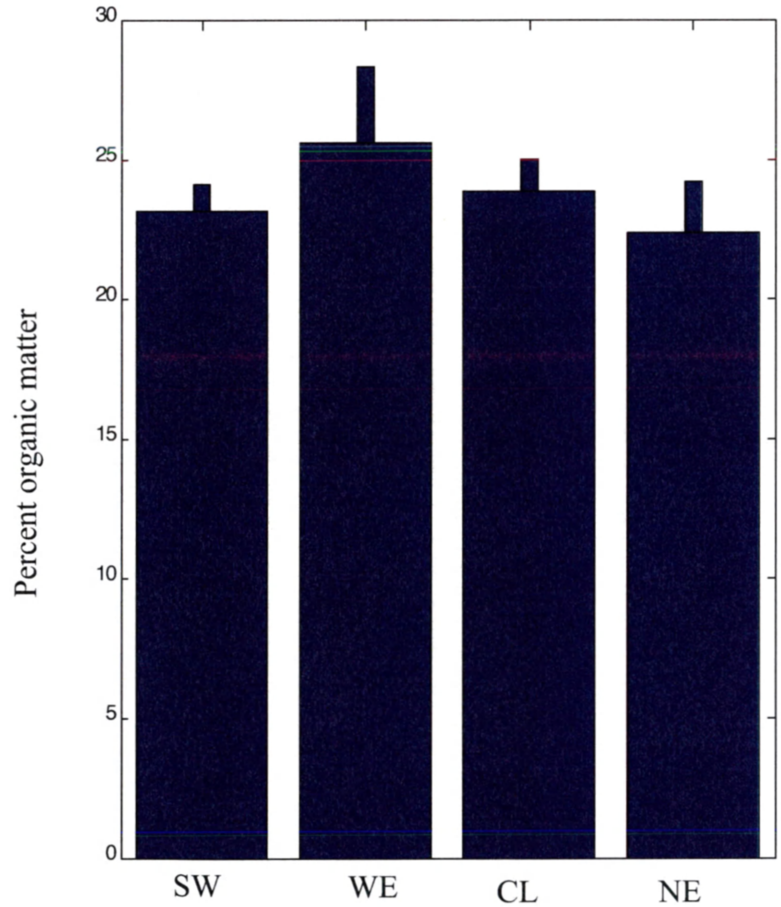


FIGURE 28: Percent organic matter from marsh surface samples as a function of distance along transect. Error bars indicate +/- one standard error. Red line is Sweeney (o), Green is West (+), Blue is Club Head (x), and Black is Nelson (*).

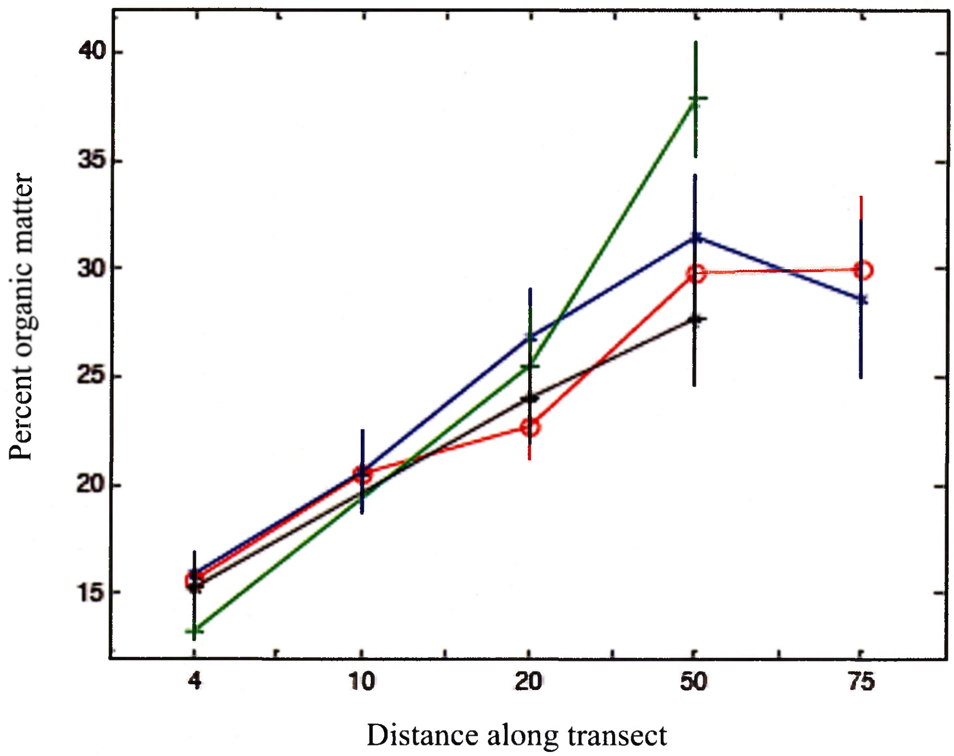


FIGURE 29: Percent organic matter from marsh surface samples as a function of distance along transect for ditches and non-ditched transects. Error bars indicate +/- one standard error. Red line is ditched (o), blue line is non-ditched. (x)

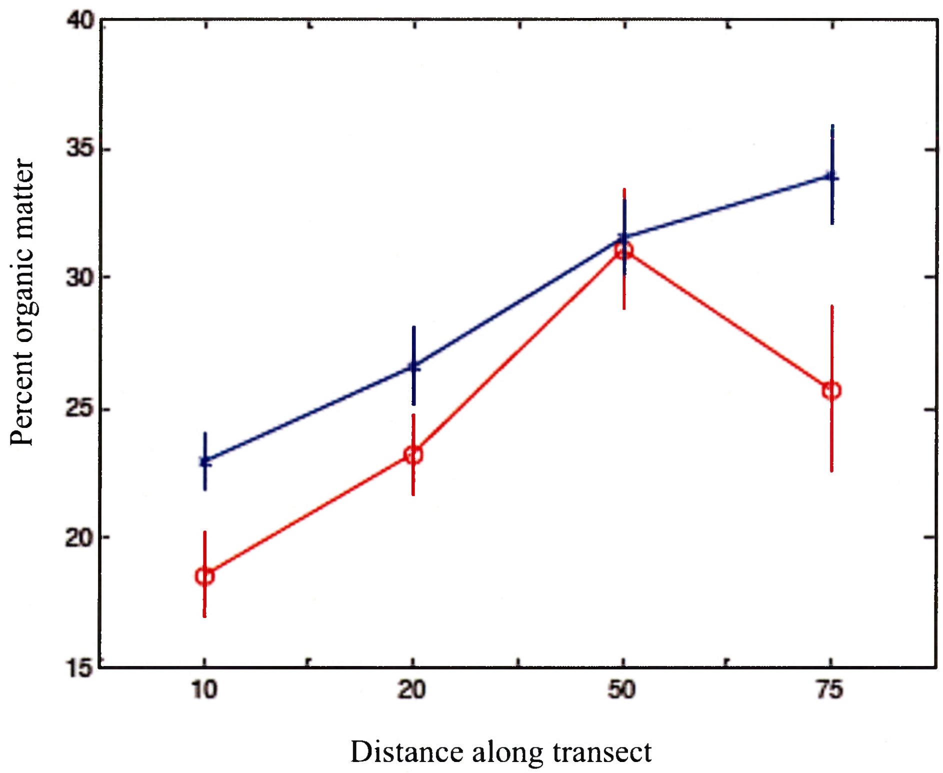


FIGURE 30: Median sediment deposition for each creek (mg/day). Error bars indicate +/- one standard error.

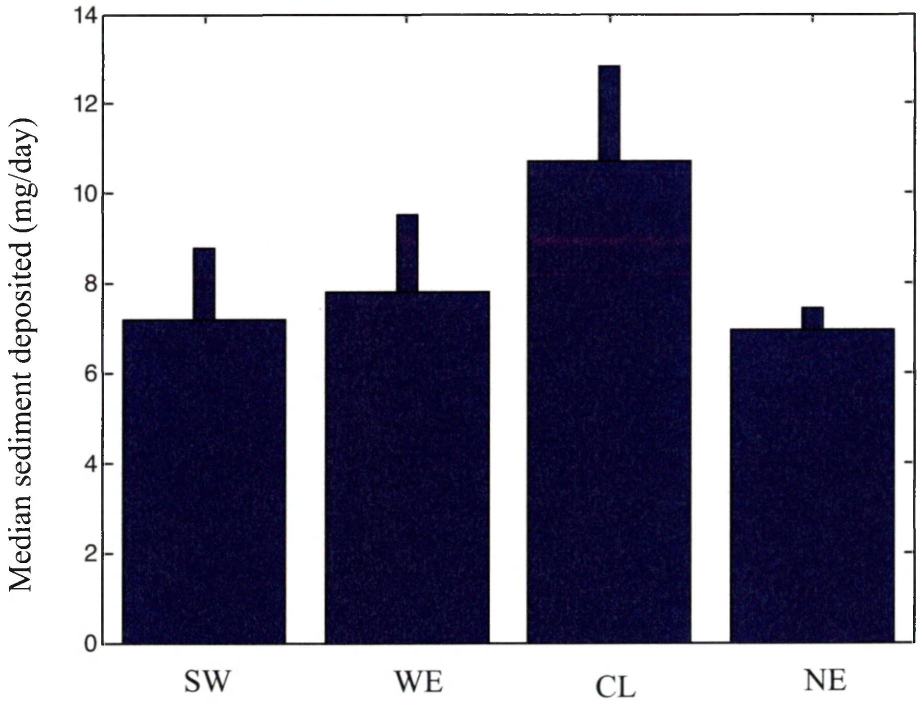


FIGURE 31: Median sediment deposition as a function of distance along transect (mg/day). Error bars indicate +/- one standard error.

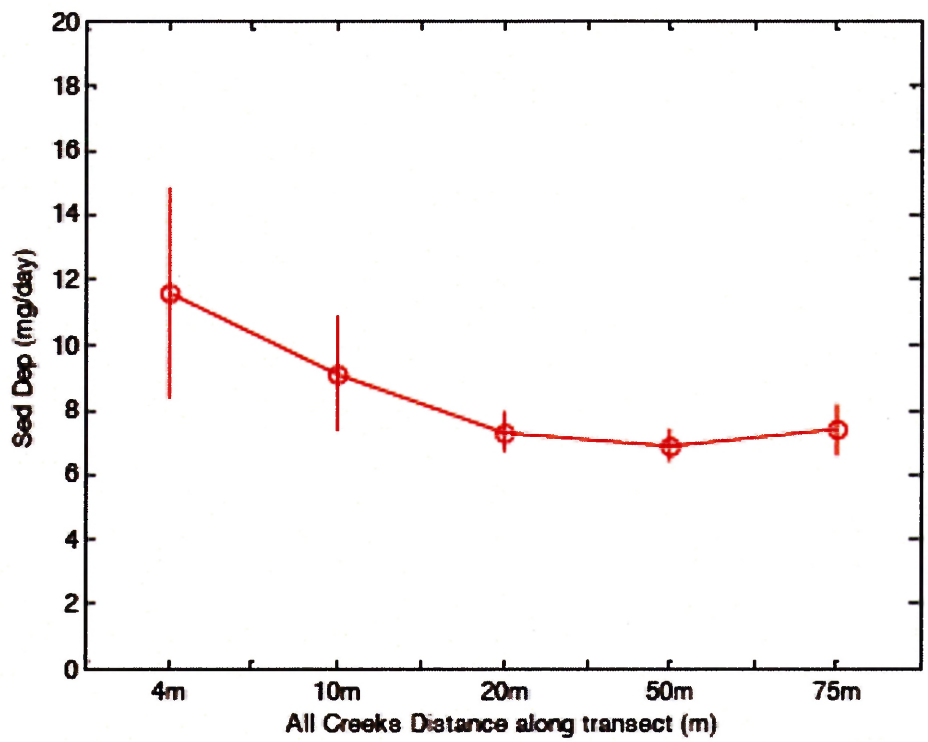


FIGURE 32: Median sediment deposition as a function of distance along transect for ditched and non-ditched transects (mg/day). Error bars indicate +/- one standard error. Red is ditched (o), blue is non-ditched (x).

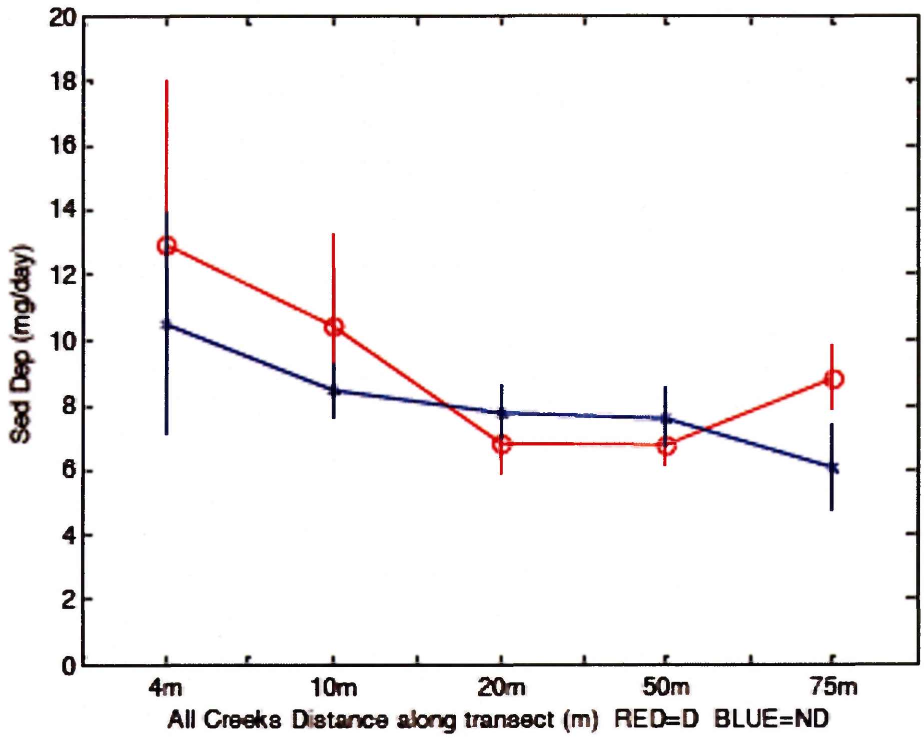


FIGURE 33: Binned medians for marsh surface sediment deposition as a function of hydroperiod. Error bars indicate +/- one standard error.

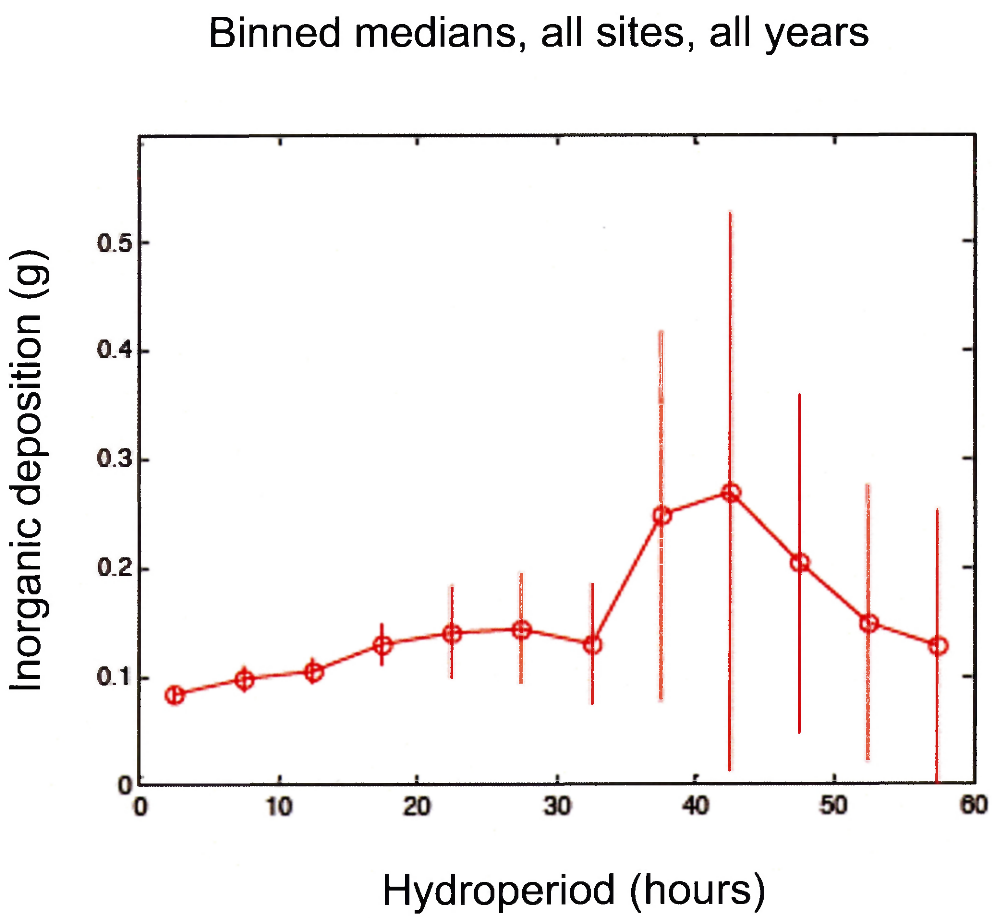


FIGURE 34: Binned medians for marsh surface sediment deposition as a function of hydroperiod separating out the 4 meter sites. Error bars indicate +/- one standard error. Red line represents the 4-meter sites only (o), green represents all sites greater than 4 meters (x).

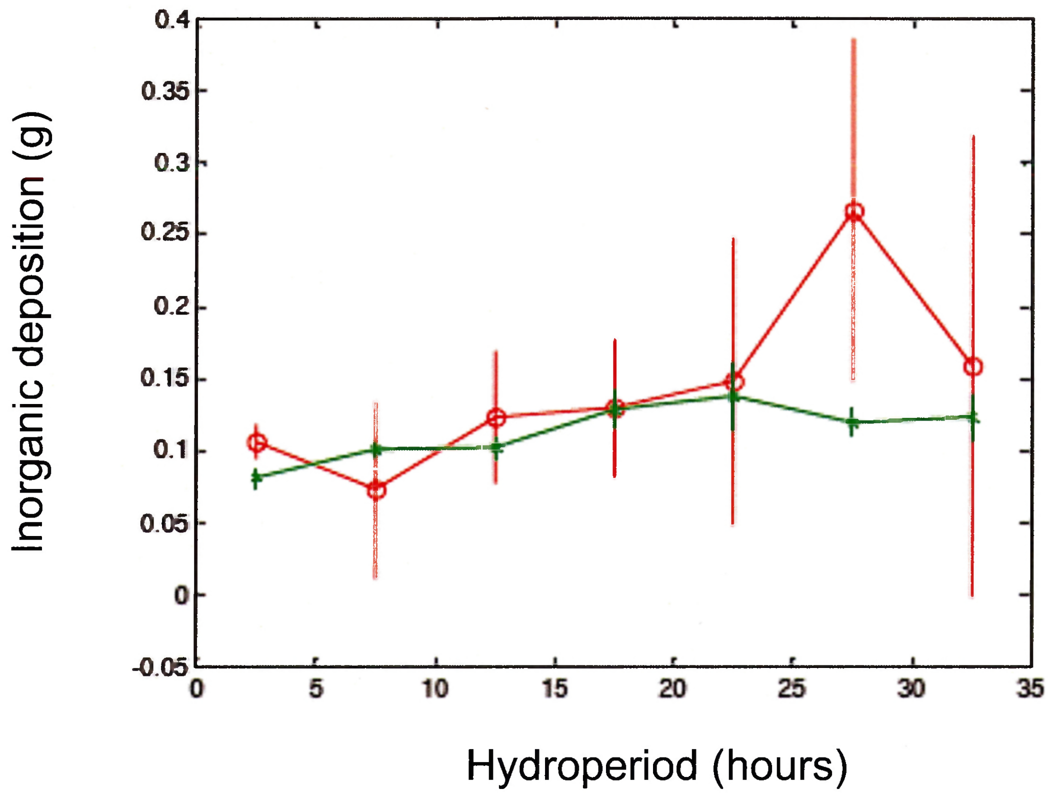


FIGURE 35: Binned medians for marsh surface sediment deposition as a function of hydroperiod for ditched and non-ditched marsh sites greater than 4-meters. Error bars indicate +/- one standard error. Red is ditched (o), blue is non-ditched (x).

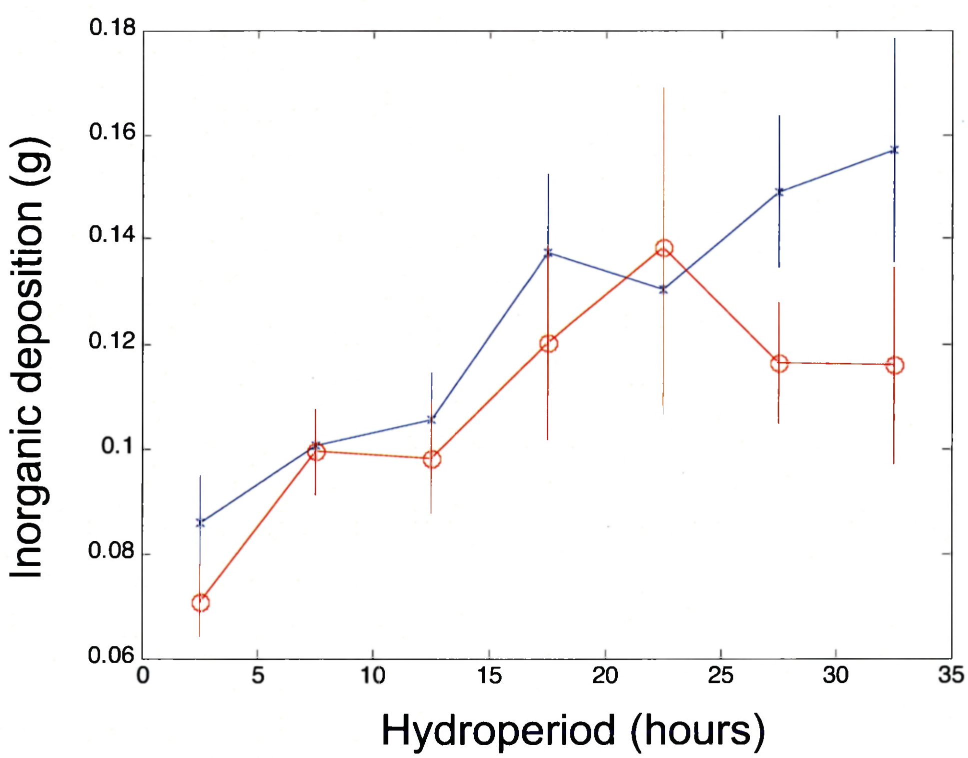


FIGURE 36. Sweeney Creek flooding pattern. Circles are stations where water height above the marsh platform was measured throughout the flooding tide. Filled circles are sites flooded at the time indicated on the photo, which is the number of minutes since water began overtopping the creek bank. Additional ovals highlight those sites flooded or exposed within the previous ten minutes. Source of maps: www.mass.gov/mgis.

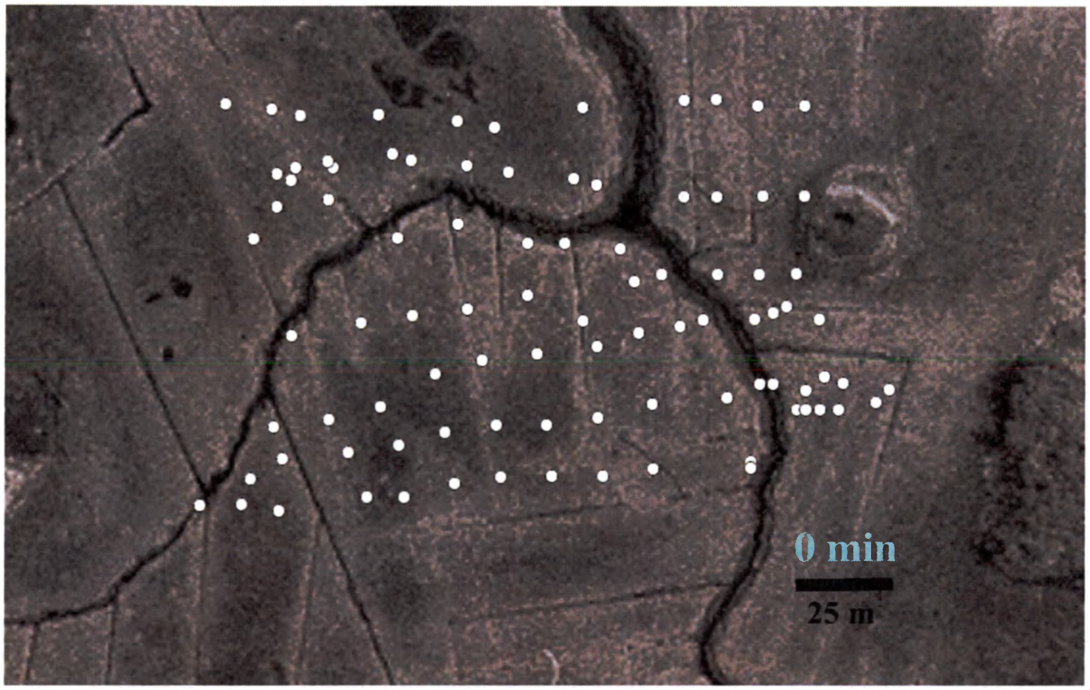


Figure 36a: Sweeney Creek station locations.

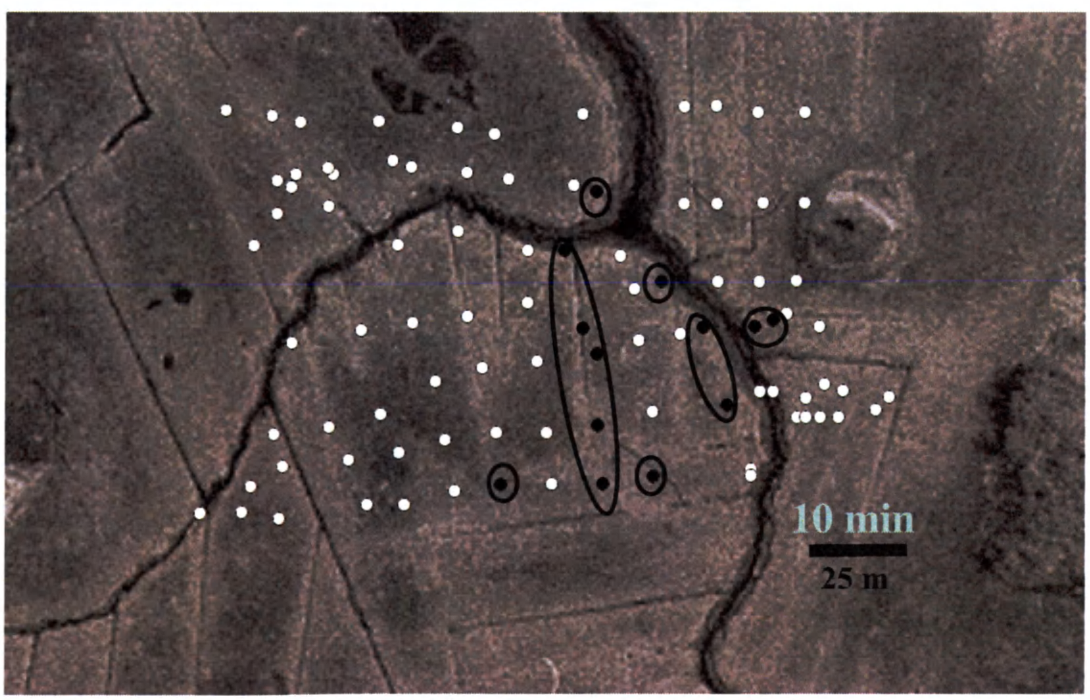


Figure 36 b. 10 minutes.

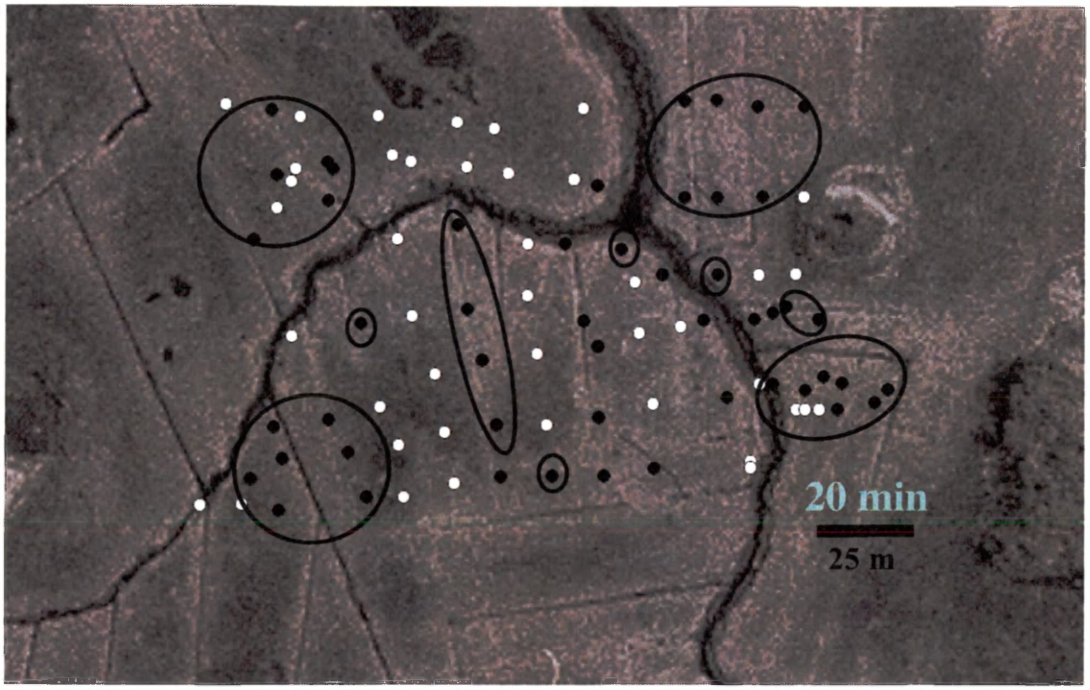


Figure 36c. 20 minutes.

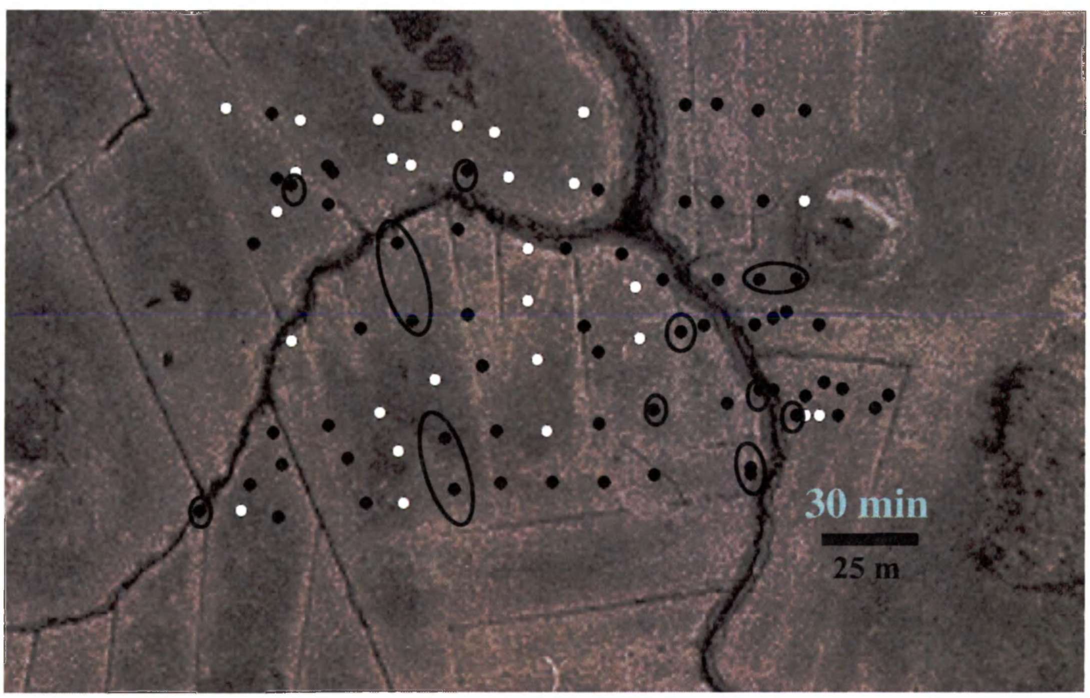


Figure 36d. 30 minutes.

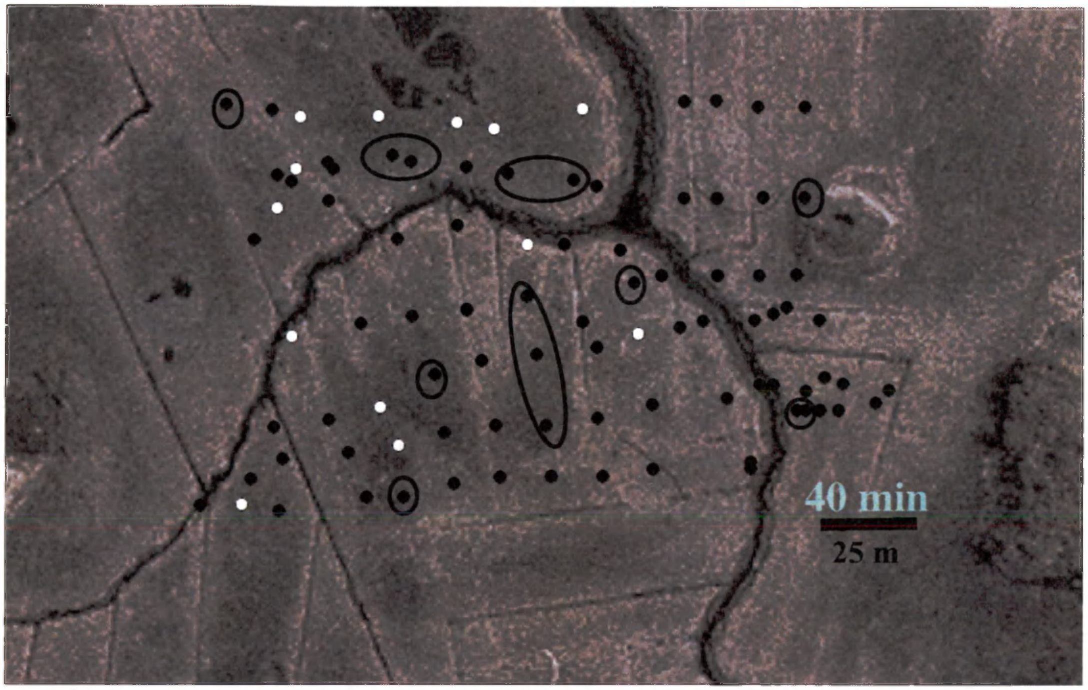


Figure36e. 40 minutes.

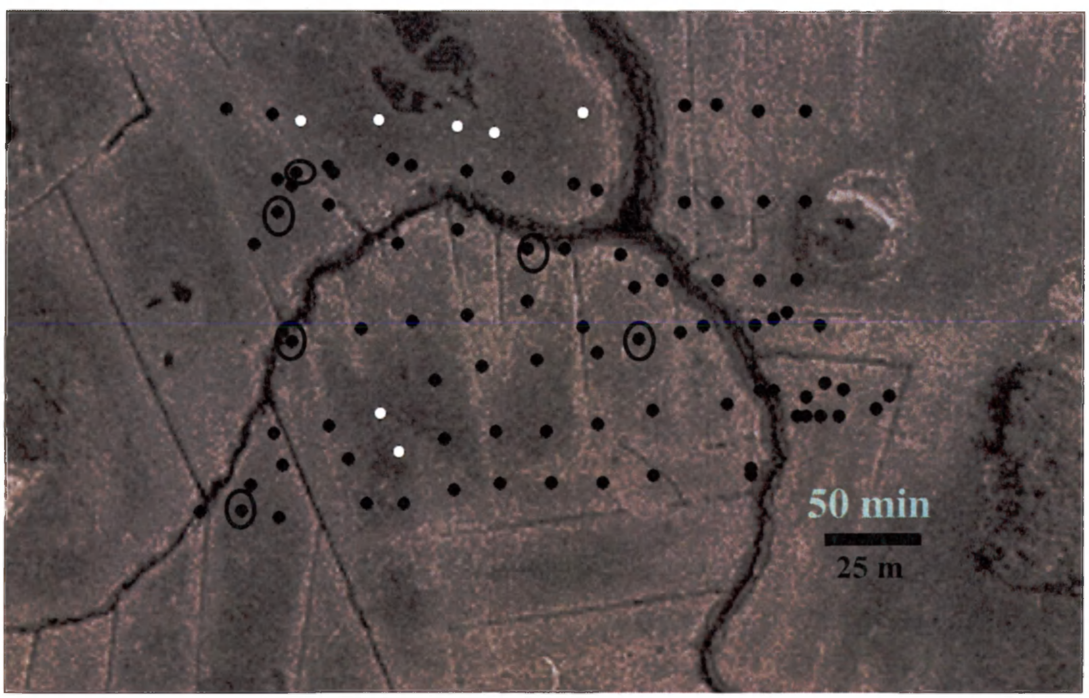


Figure 36f. 50 minutes.

Figure 36g. 60 minutes.

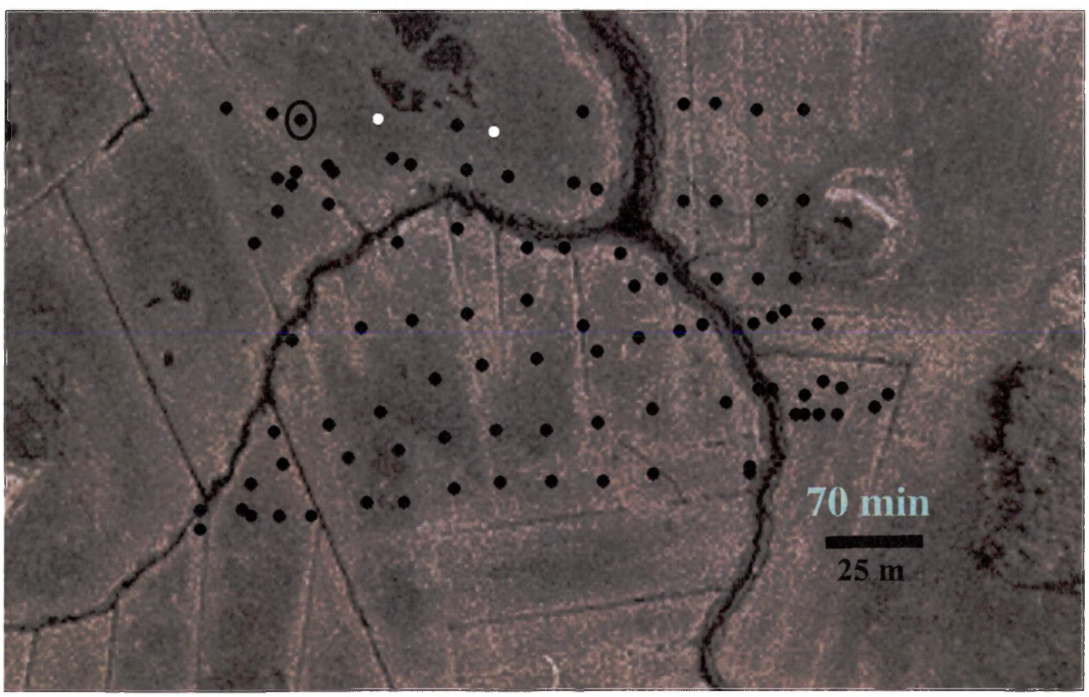


Figure 36h. 70 to 90 minutes.

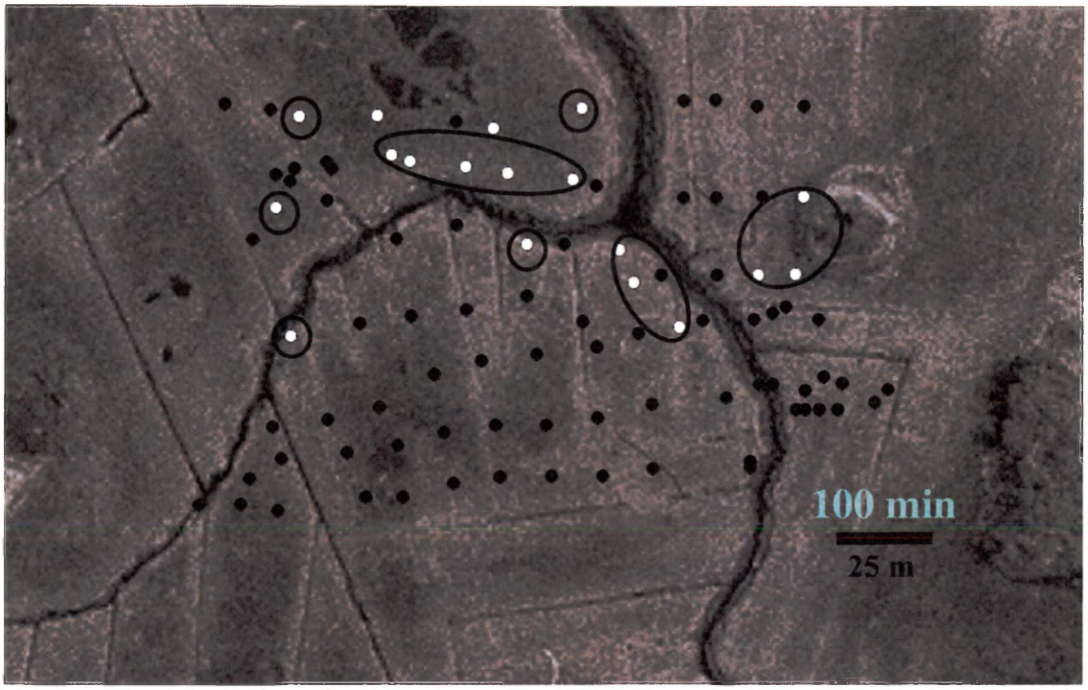


Figure 36i. 100 minutes.

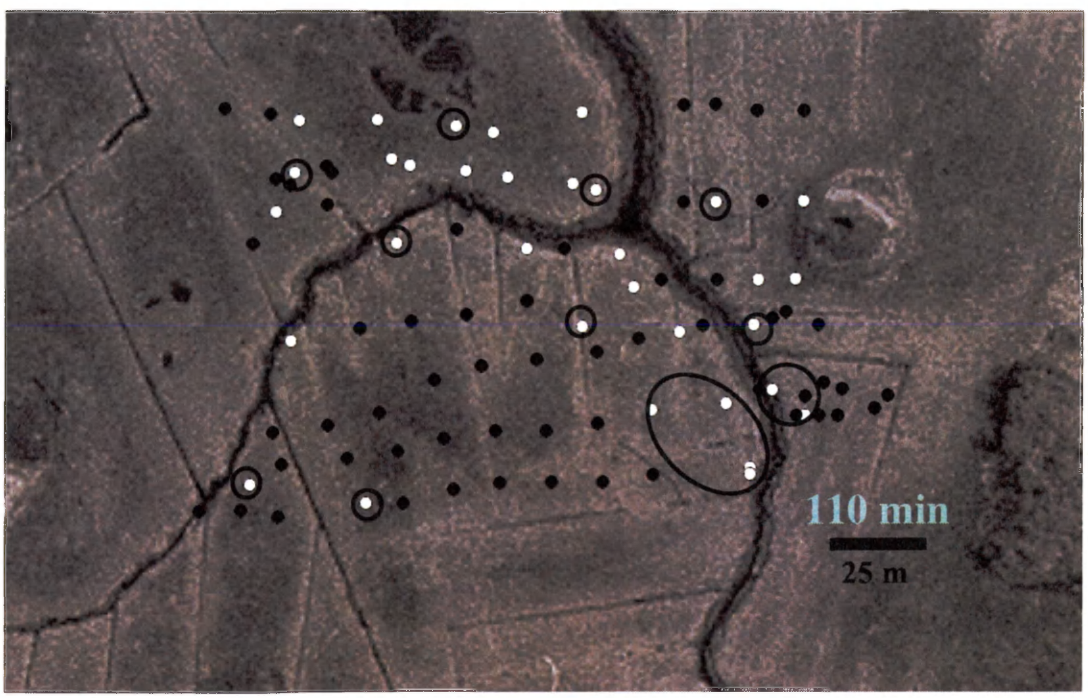


Figure 36j. 110 minutes.

Figure 36k. 120 minutes.

Figure 36l. 130 minutes.

Figure 36m. 140 minutes.

FIGURE 37. Club Head Creek flooding pattern. Circles are stations where water height above the marsh platform was measured throughout the flooding tide. Filled circles are sites flooded at the time indicated on the photo, which is the number of minutes since water began overtopping the creek bank. Additional ovals highlight those sites flooded or exposed within the previous ten minutes. Source of maps: www.mass.gov/mgis.

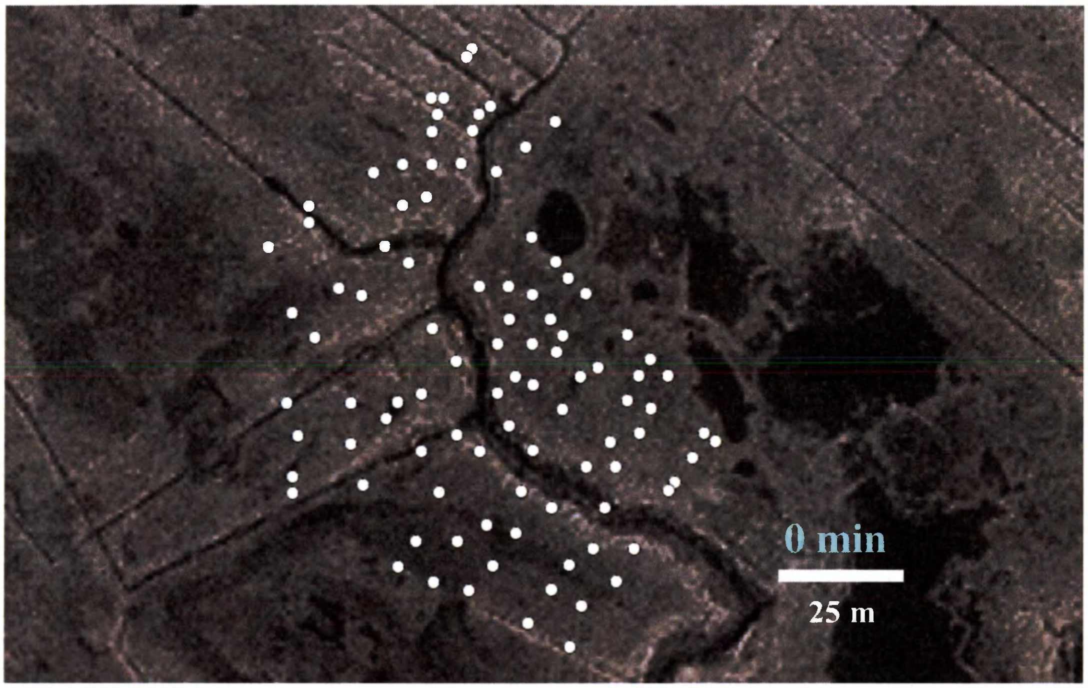


Figure 37a. Club Head Creek station locations.

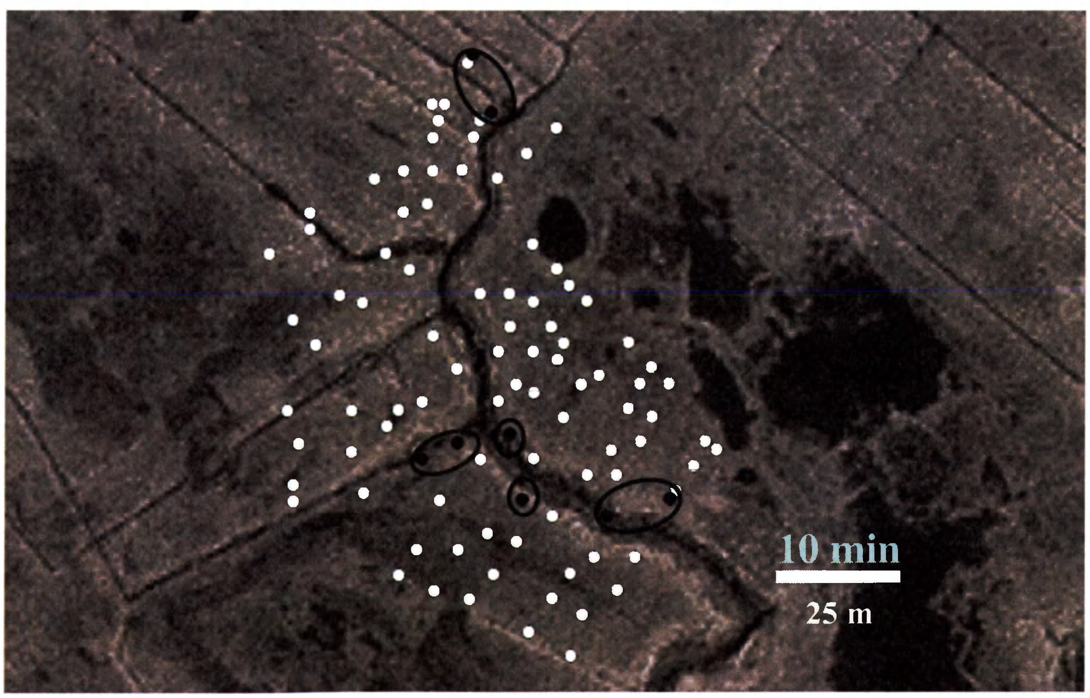


Figure 37b. 10 minutes.

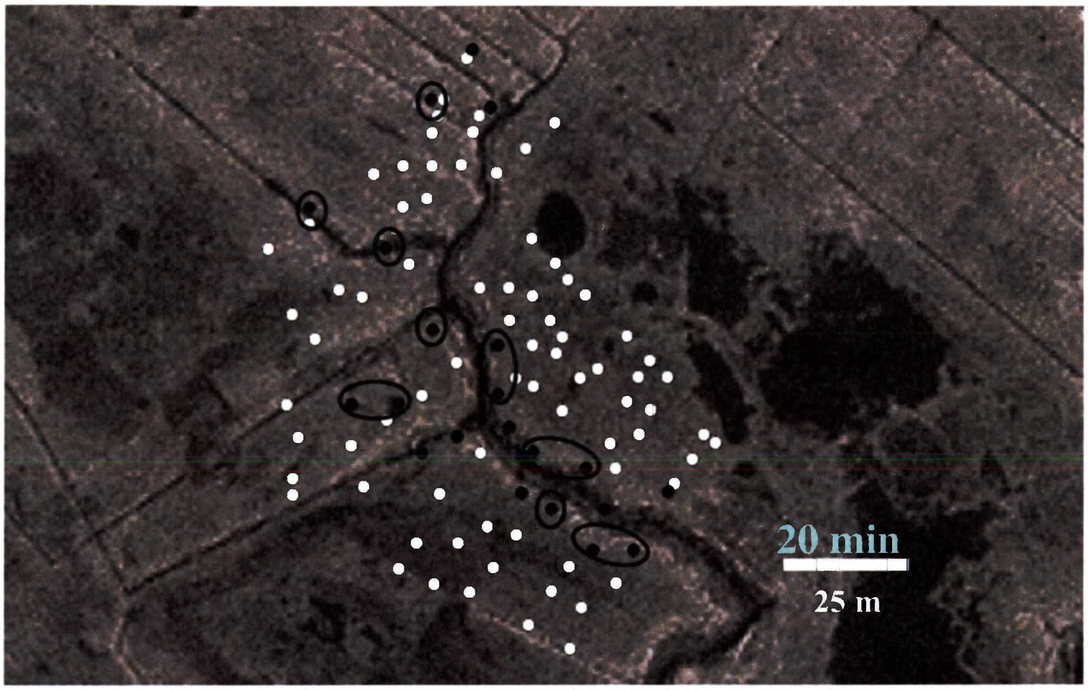


Figure 37c. 20 minutes.

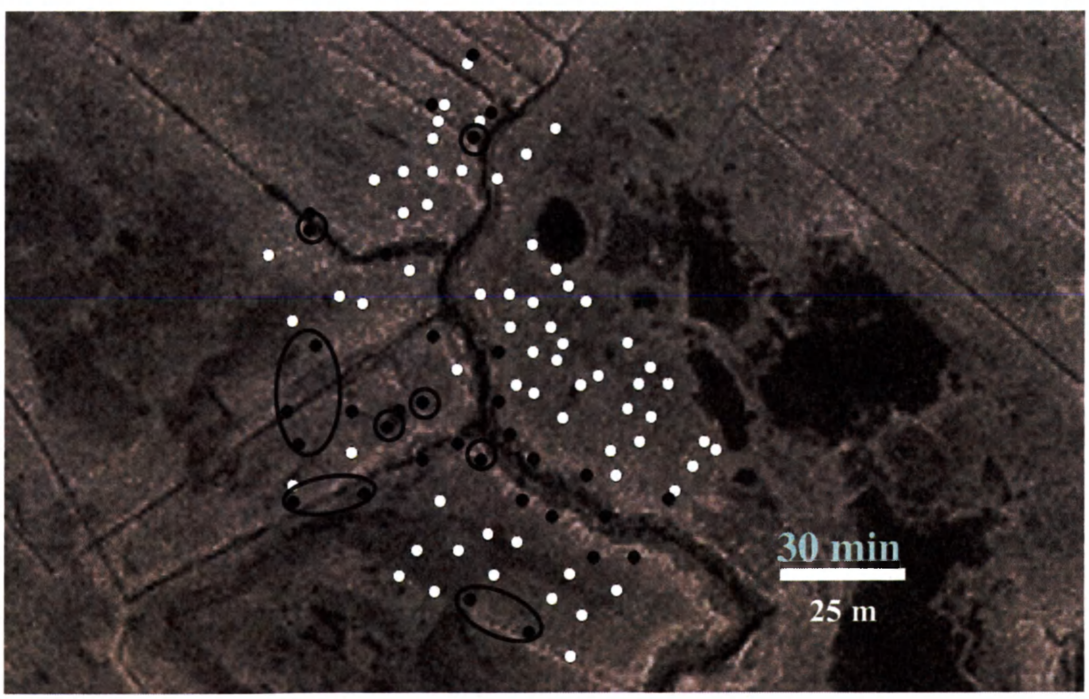


Figure 37d. 30 minutes.

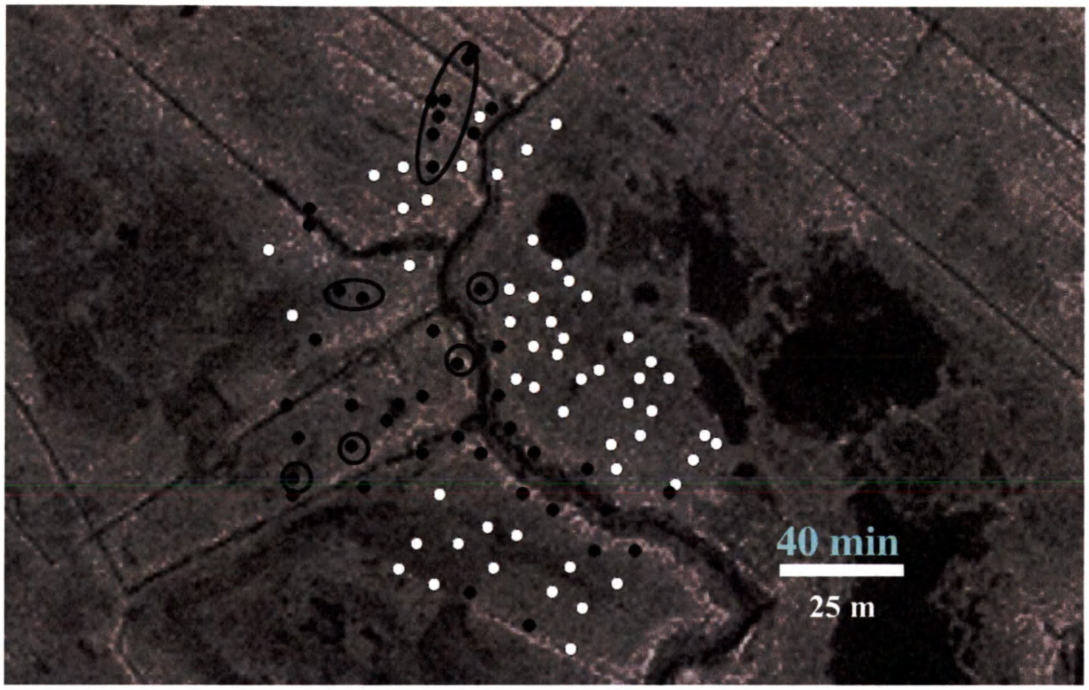


Figure 37e. 40 minutes.

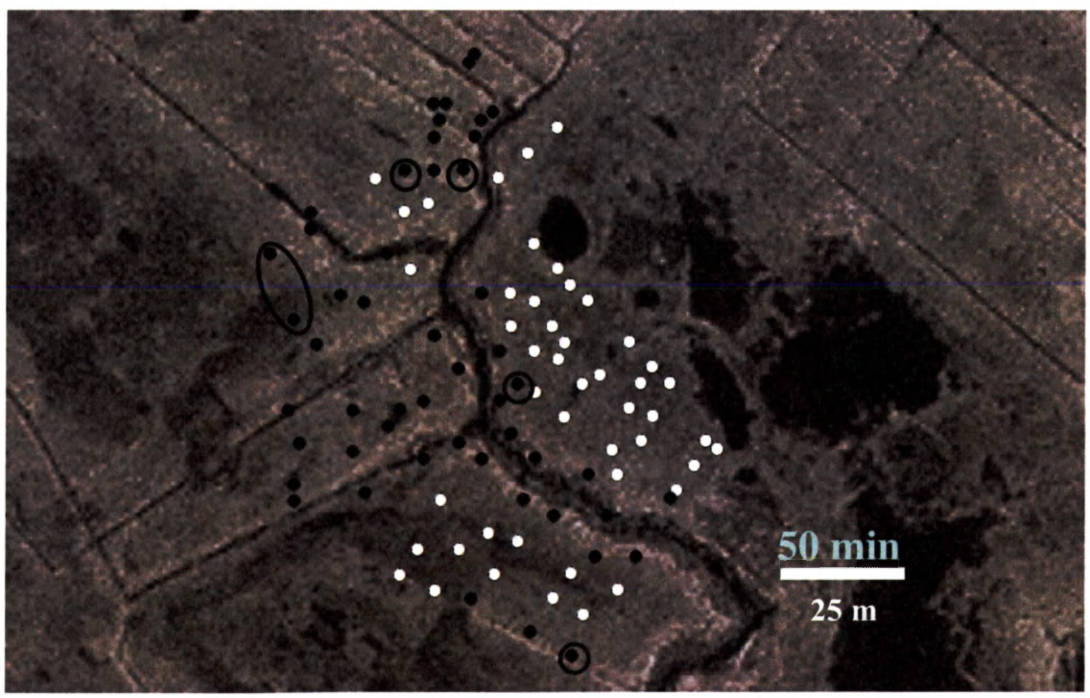


Figure 37f. 50 minutes.

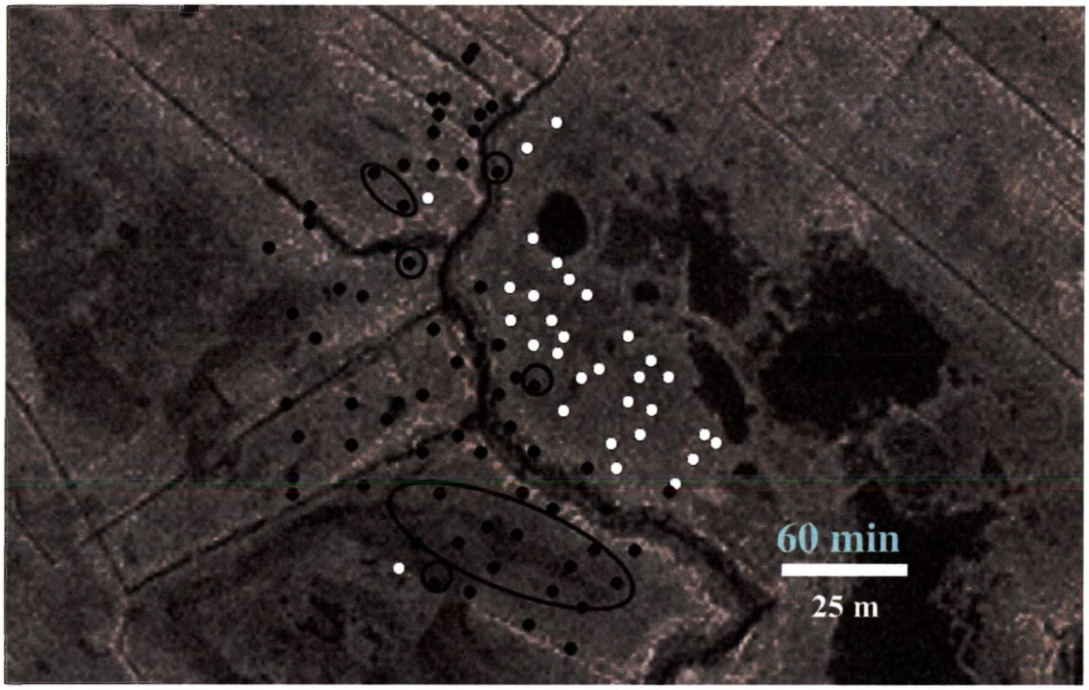


Figure 37g. 60 minutes.

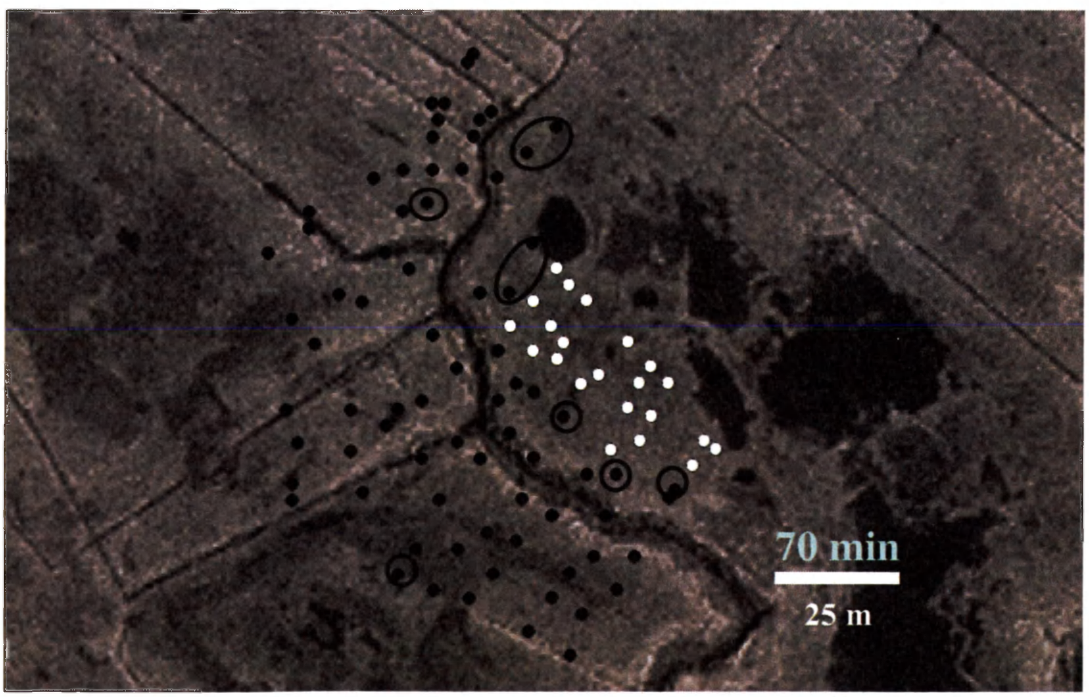


Figure 37h. 70 minutes.

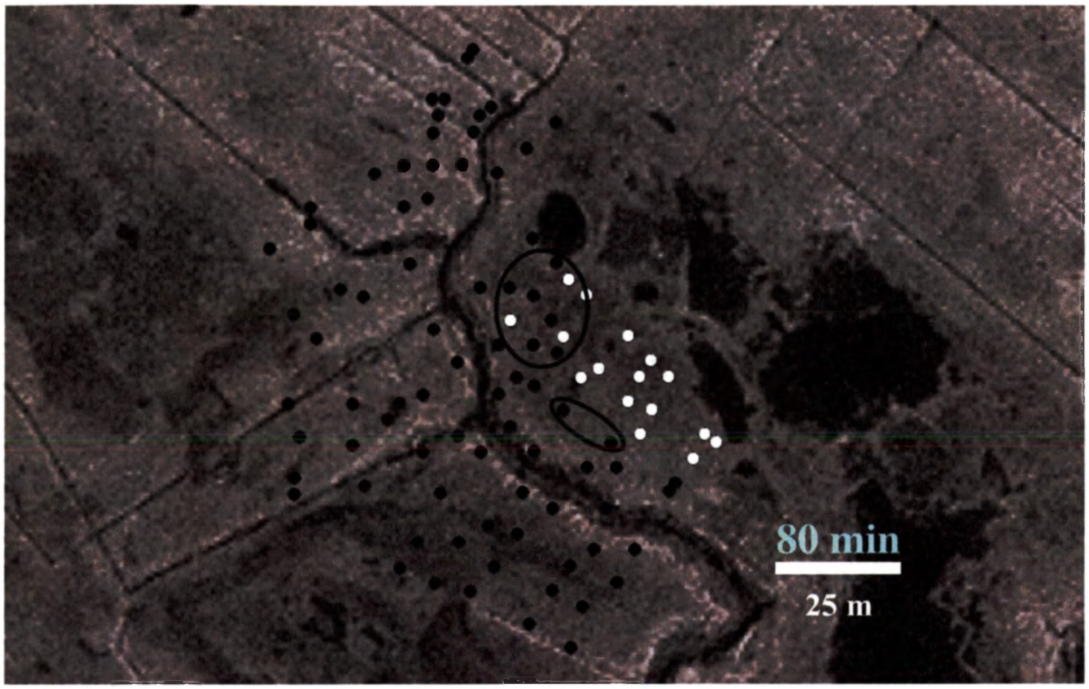


Figure 37i. 80 minutes.

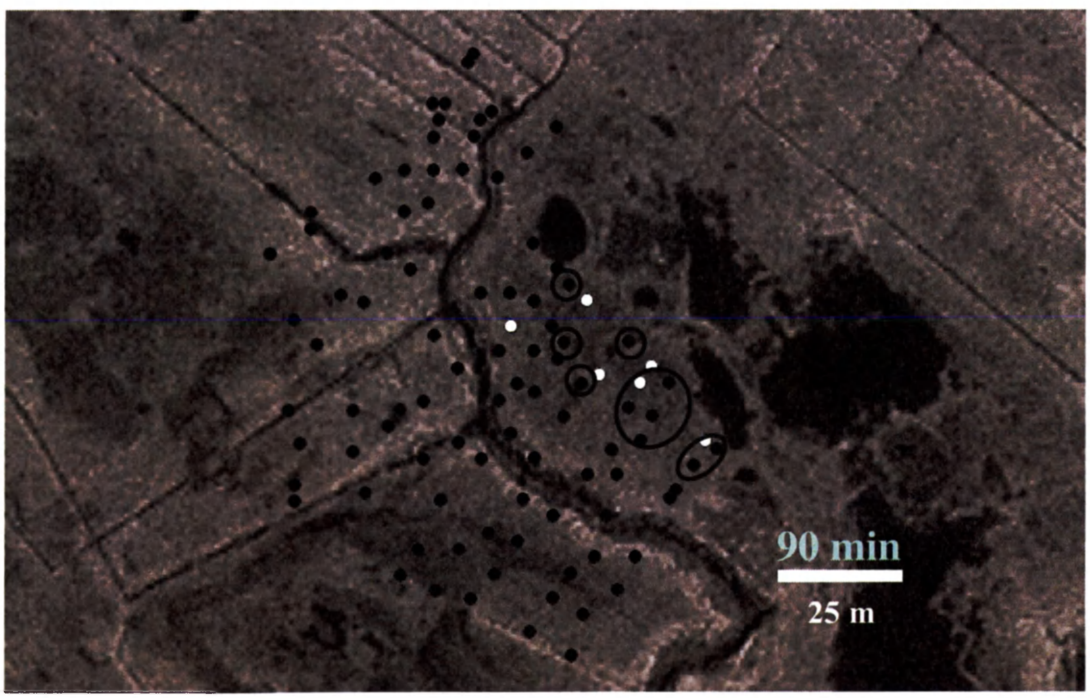


Figure 37j. 90 minutes.

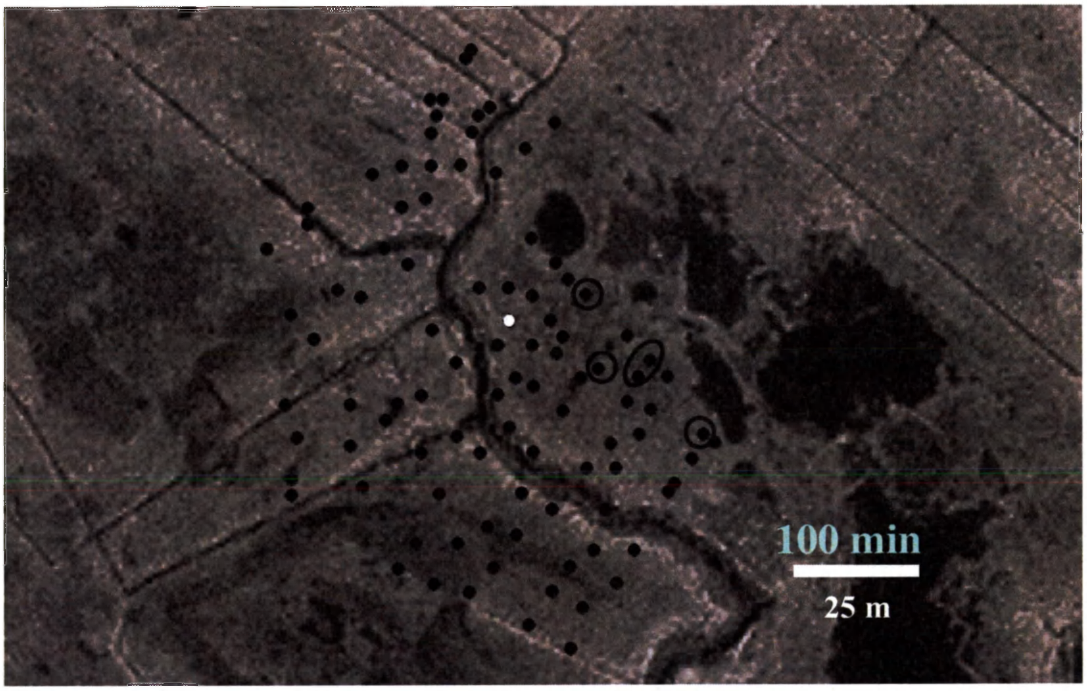


Figure 37k. 100 to 140 minutes.

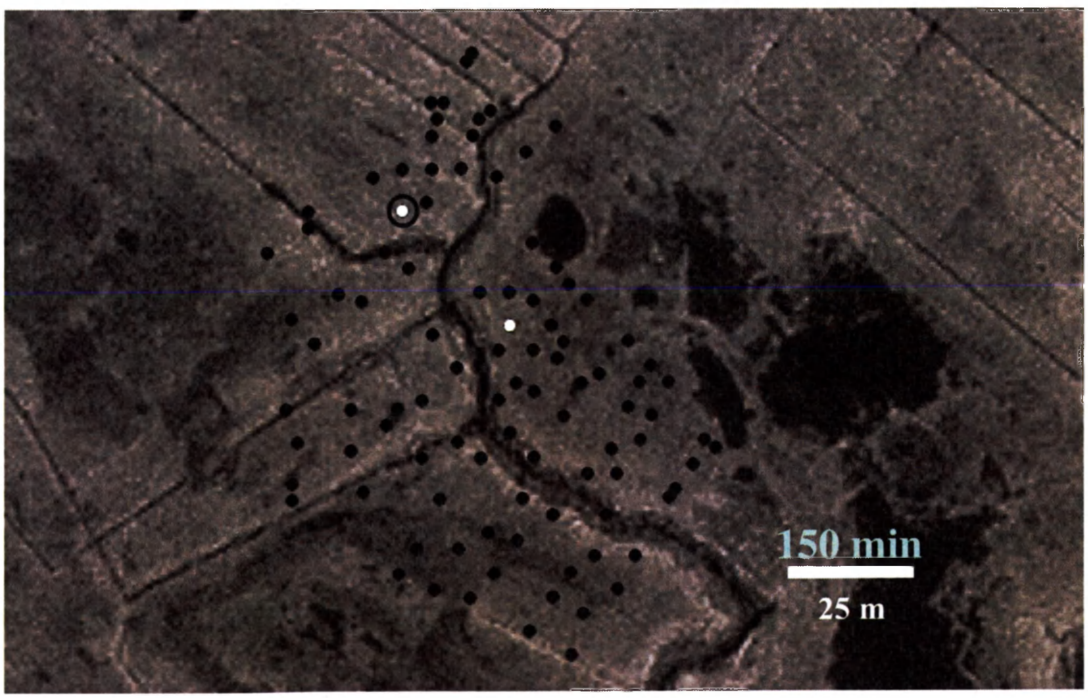


Figure 37l. 150 minutes.

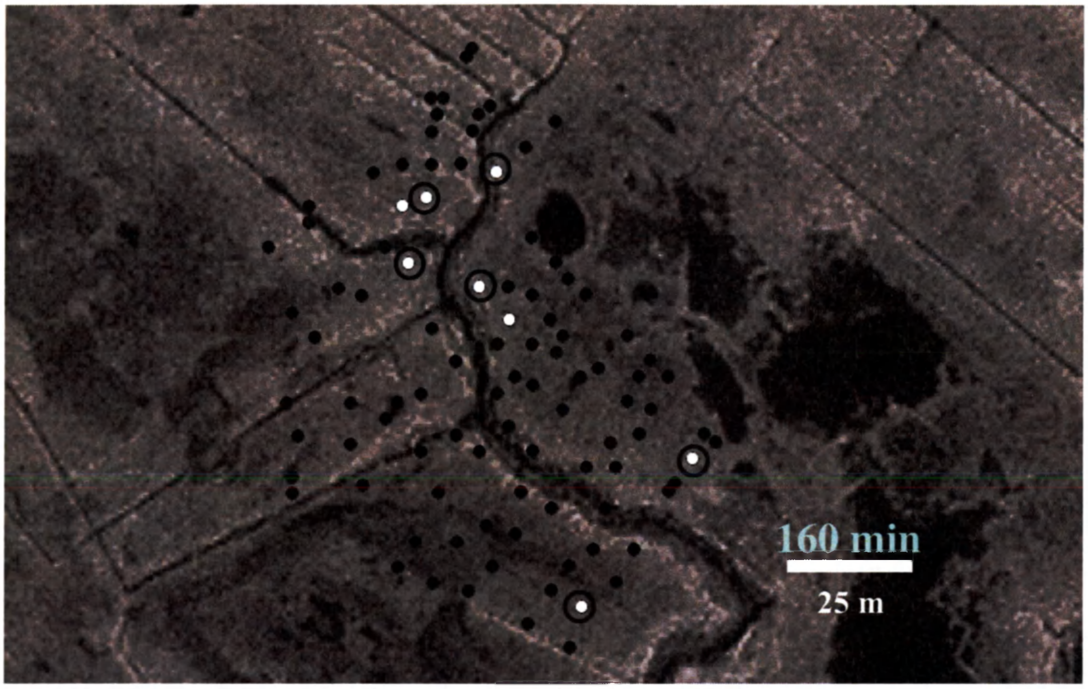


Figure 37m. 160 minutes.

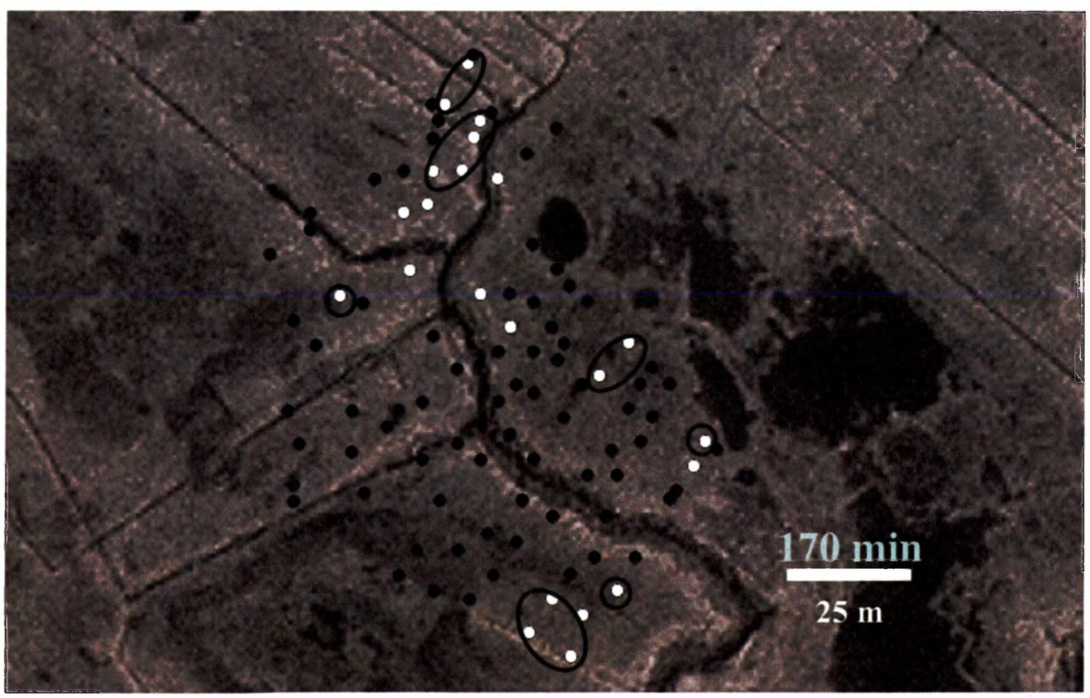


Figure 37n. 170 minutes.

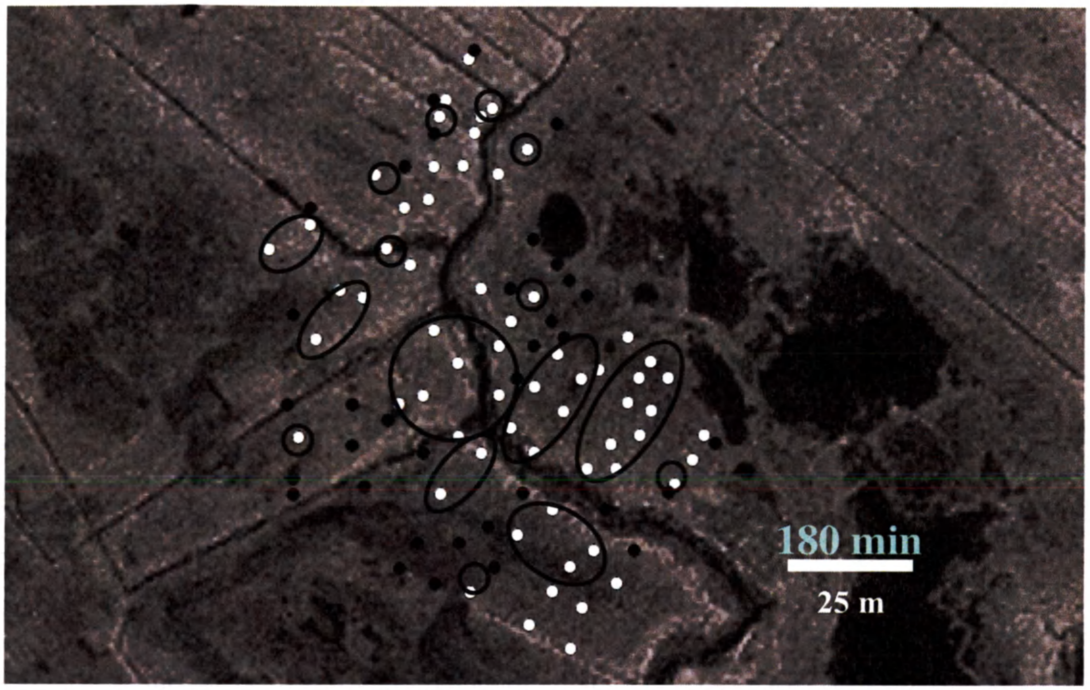


Figure 37o. 180 minutes.

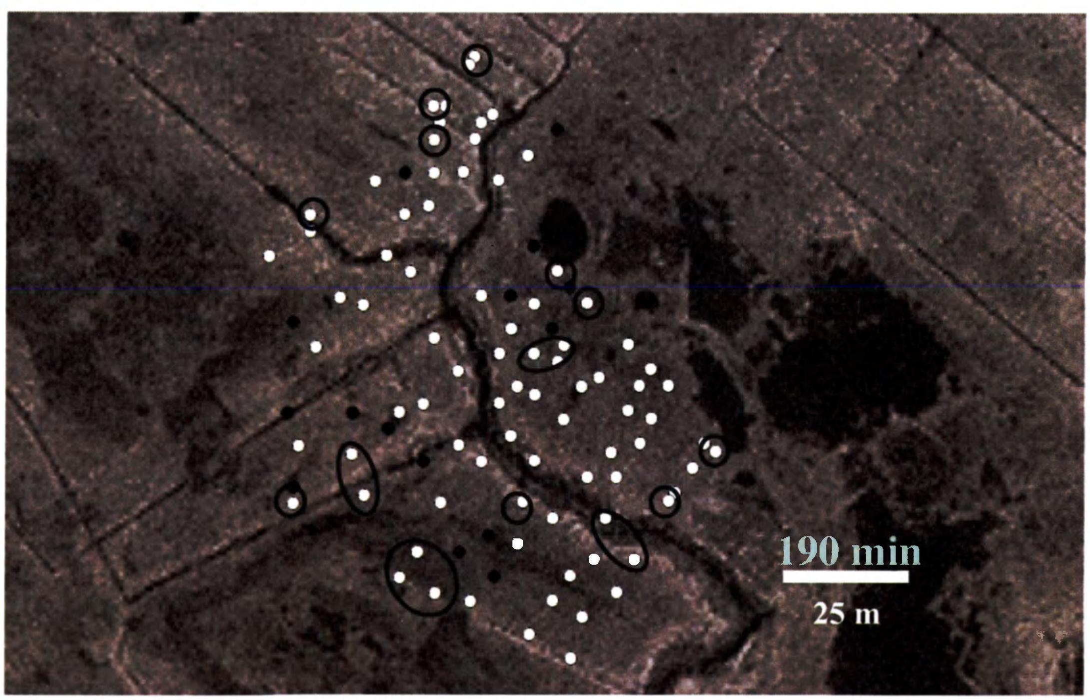


Figure 37p. 190 minutes.

Figure 38: Sweeney Creek flooding pattern maximum water heights.

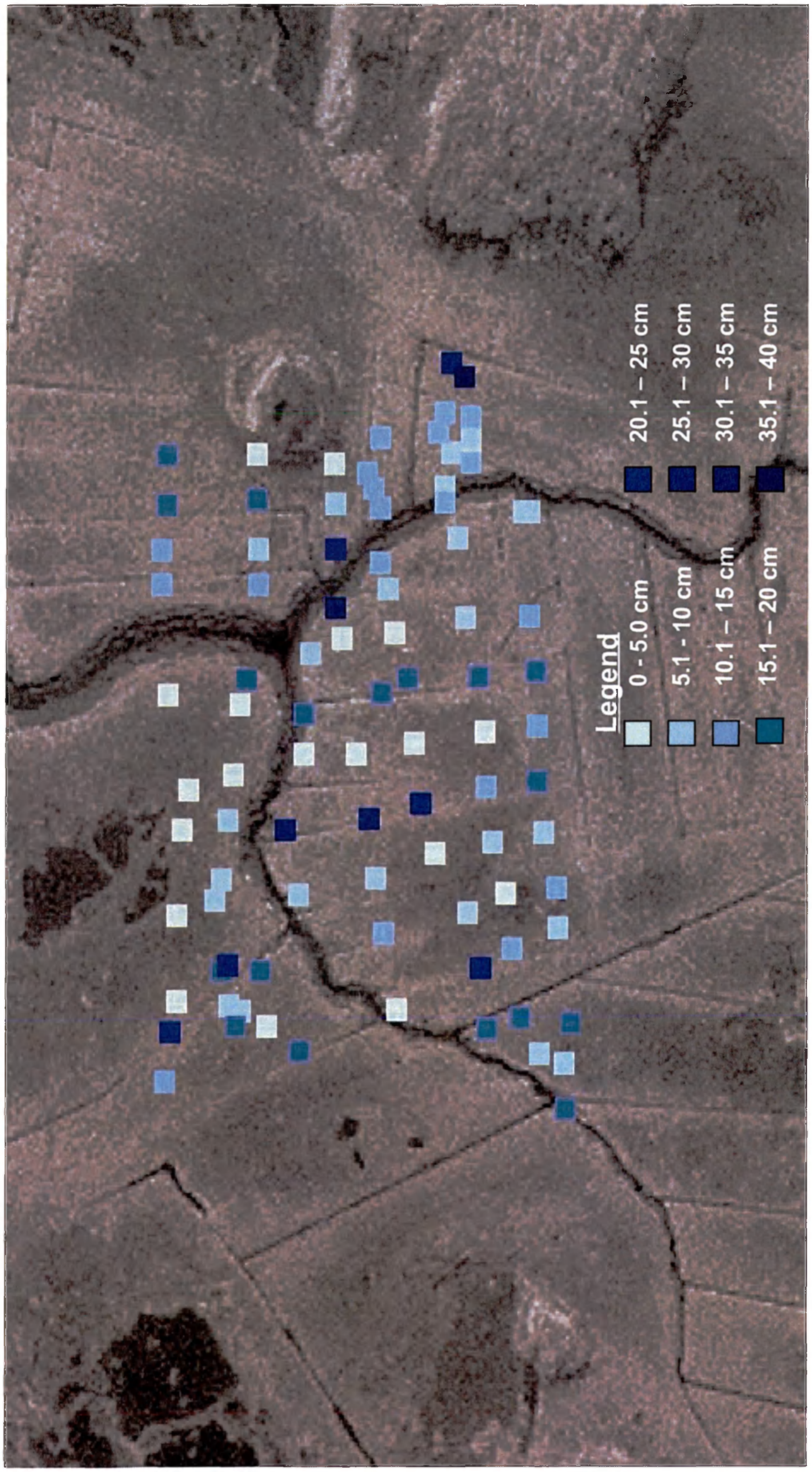
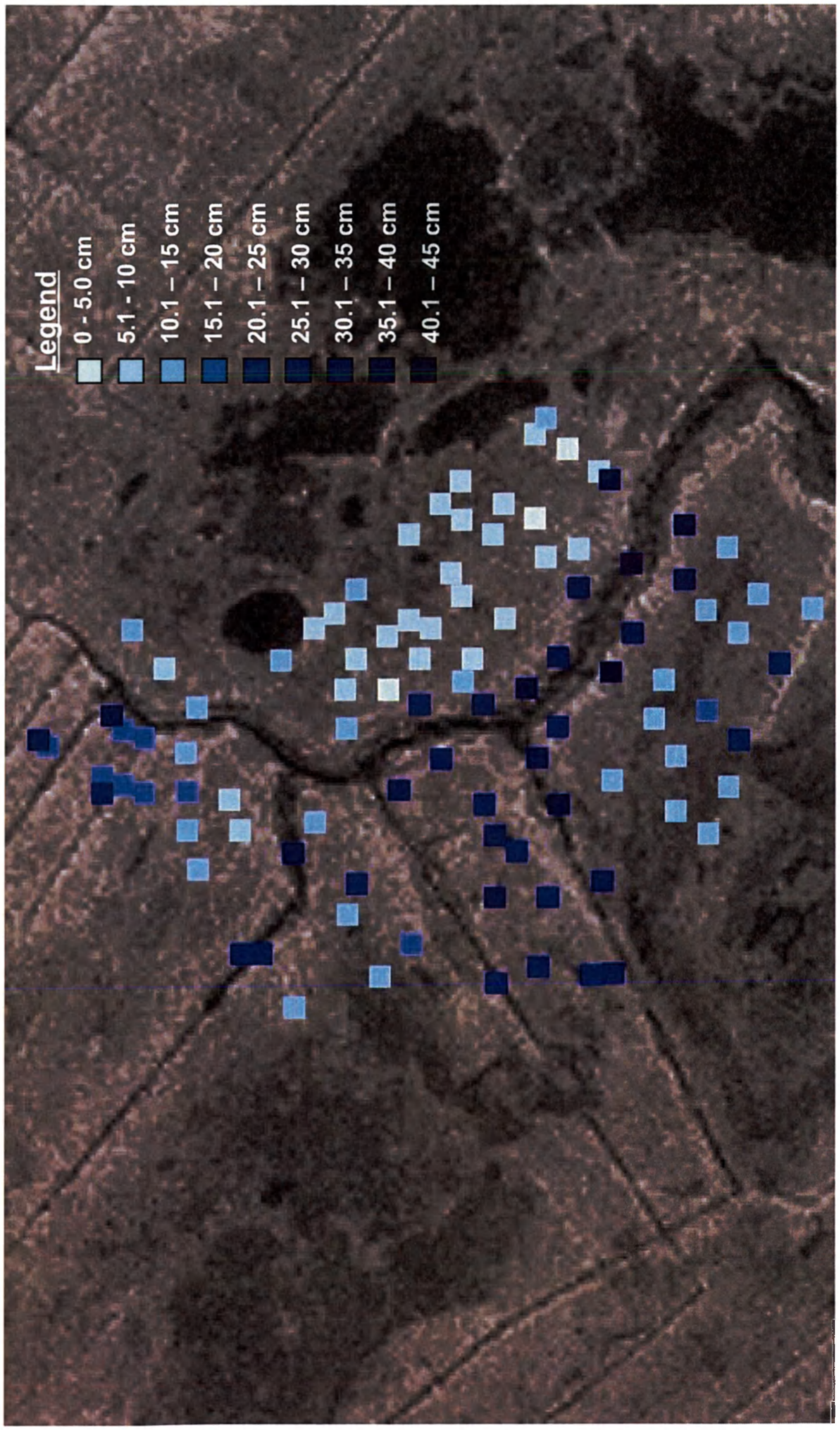


Figure 39: Club Head Creek flooding pattern maximum water heights.



APPENDIX 1. Explanation of symbols used in other appendices.

CREEKS

SYMBOL	MEANING
SW	Sweeney Creek
CL	Club Head Creek
WE	West Creek
NE	Nelson Island Creek

BRANCH

SYMBOL	MEANING
MOUTH	Mouth of creek
M	Main branch
CON	Confluence
R	Right branch
L	Left Branch
MOS	Mosquito ditch

TRANSECT

SYMBOL	MEANING
1	Transect closest to confluence
2	Central transect
3	Transect farthest from confluence

NOTE: Any TIDE established transect is denoted by a T in front of the transect number

APPENDIX 2. Coordinates for marsh platform station locations.

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Latitude (N)		Longitude (W)	
					Degrees	Minutes	Degrees	Minutes
SW	M	1	D	4	42	43.371	70	50.798
SW	M	1	D	10	42	43.367	70	50.798
SW	M	1	D	20	42	43.364	70	50.797
SW	M	1	D	50	42	43.343	70	50.795
SW	M	1	D	75	42	43.332	70	50.797
SW	M	1	ND	4	42	43.383	70	50.806
SW	M	1	ND	10	42	43.384	70	50.807
SW	M	1	ND	20	42	43.39	70	50.812
SW	M	1	ND	50	42	43.403	70	50.826
SW	M	1	ND	75	42	43.409	70	50.837
SW	M	2	D	4	42	43.333	70	50.826
SW	M	2	D	10	42	43.333	70	50.822
SW	M	2	D	20	42	43.337	70	50.807
SW	M	2	D	50	42	43.334	70	50.796
SW	M	2	D	75	42	43.337	70	50.777
SW	M	2	ND	4	42	43.333	70	50.841
SW	M	2	ND	10	42	43.333	70	50.842
SW	M	2	ND	20	42	43.334	70	50.852
SW	M	2	ND	50	42	43.334	70	50.874
SW	M	2	ND	75	42	43.335	70	50.892
SW	R	T1	D	4	42	43.312	70	50.857
SW	R	T1	D	10	42	43.31	70	50.857
SW	R	T1	D	20	42	43.304	70	50.856
SW	R	T1	D	50	42	43.293	70	50.852
SW	R	1	ND	4	42	43.324	70	50.851
SW	R	1	ND	10	42	43.326	70	50.854
SW	R	1	ND	20	42	43.322	70	50.854
SW	R	1	ND	50	42	43.342	70	50.856
SW	R	2	D	4	42	43.317	70	50.898
SW	R	2	D	10	42	43.319	70	50.898
SW	R	2	D	20	42	43.324	70	50.905
SW	R	2	D	50	42	43.339	70	50.909
SW	R	T2	D	4	42	43.311	70	50.891
SW	R	T2	D	10	42	43.307	70	50.889
SW	R	T2	D	20	42	43.302	70	50.885
SW	R	T2	D	50	42	43.291	70	50.878
SW	R	3	D	4	42	43.271	70	50.929
SW	R	3	D	10	42	43.272	70	50.918
SW	R	3	D	20	42	43.268	70	50.917
SW	R	3	D	37	42	43.268	70	50.908
SW	R	T3	ND	4	42	43.289	70	50.96
SW	R	T3	ND	10	42	43.276	70	50.945
SW	R	T3	ND	20	42	43.273	70	50.941
SW	R	T3	ND	50	42	43.27	70	50.938
SW	L	1	D	4	42	43.295	70	50.8
SW	L	1	D	10	42	43.295	70	50.797
SW	L	1	D	20	42	43.295	70	50.791
SW	L	1	D	50	42	43.302	70	50.775
SW	L	T1	D	4	42	43.293	70	50.811
SW	L	T1	D	10	42	43.293	70	50.815
SW	L	T1	D	20	42	43.293	70	50.822

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Latitude (N)		Longitude (W)	
					Degrees	Minutes	Degrees	Minutes
SW	L	T1	D	50	42	43.288	70	50.839
SW	L	T2	D	4	42	43.267	70	50.814
SW	L	T2	D	10	42	43.267	70	50.818
SW	L	T2	D	20	42	43.268	70	50.827
SW	L	T2	D	50	42	43.269	70	50.849
SW	L	T2	D	75	42	43.27	70	50.87
SW	L	T2	D	100	42	43.271	70	50.885
SW	L	T2	D	112	42	43.272	70	50.896
SW	L	2	ND	4	42	43.265	70	50.8
SW	L	2	ND	12	42	43.264	70	50.797
SW	L	2	ND	40	42	43.263	70	50.781
SW	L	T3	D	4	42	43.232	70	50.799
SW	L	T3	D	20	42	43.227	70	50.809
SW	L	T3	D	50	42	43.227	70	50.834
WE	R	T1	ND	4	42	44.268	70	50.892
WE	R	T1	ND	20	42	44.276	70	50.889
WE	R	T1	ND	50	42	44.291	70	50.885
WE	R	T2	D	4	42	44.279	70	50.868
WE	R	T2	D	20	42	44.288	70	50.866
WE	R	T2	D	50	42	44.301	70	50.868
WE	R	T3	ND	4	42	44.266	70	50.842
WE	R	T3	ND	20	42	44.275	70	50.833
WE	R	T3	ND	50	42	44.285	70	50.825
WE	L	T1	D	4	42	44.374	70	50.951
WE	L	T1	D	20	42	44.37	70	50.936
WE	L	T1	D	50	42	44.381	70	50.904
WE	L	T2	D	4	42	44.392	70	50.97
WE	L	T2	D	20	42	44.399	70	50.966
WE	L	T2	D	50	42	44.41	70	50.957
WE	L	T3	D	4	42	44.395	70	51.014
WE	L	T3	D	20	42	44.391	70	51.021
WE	L	T3	D	50	42	44.387	70	51.035
CL	M	1	D	4	42	44.352	70	50.106
CL	M	1	D	10	42	44.362	70	50.107
CL	M	1	D	20	42	44.367	70	50.11
CL	M	1	D	50	42	44.387	70	50.132
CL	M	1	ND	4	42	44.346	70	50.103
CL	M	1	ND	10	42	44.343	70	50.102
CL	M	1	ND	20	42	44.338	70	50.103
CL	M	1	ND	50	42	44.317	70	50.108
CL	M	2	D	4	42	44.361	70	50.168
CL	M	2	D	10	42	44.363	70	50.171
CL	M	2	D	20	42	44.369	70	50.172
CL	M	2	D	50	42	44.384	70	50.178
CL	M	2	ND	4	42	44.345	70	50.171
CL	M	2	ND	10	42	44.343	70	50.171
CL	M	2	ND	20	42	44.336	70	50.17
CL	R	T1	D	4	42	44.41	70	50.267
CL	R	T1	D	10	42	44.411	70	50.271
CL	R	T1	D	20	42	44.412	70	50.276
CL	R	T1	D	50	42	44.418	70	50.301
CL	R	1	ND	4	42	44.408	70	50.259
CL	R	1	ND	10	42	44.407	70	50.254
CL	R	1	ND	20	42	44.406	70	50.249

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Latitude (N)		Longitude (W)	
					Degrees	Minutes	Degrees	Minutes
CL	R	2	D	4	42	44.427	70	50.302
CL	R	2	D	10	42	44.425	70	50.307
CL	R	2	D	20	42	44.422	70	50.312
CL	R	2	D	50	42	44.416	70	50.331
CL	R	2	D	75	42	44.41	70	50.347
CL	R	2	D	95	42	44.405	70	50.362
CL	R	T2	ND	4	42	44.429	70	50.298
CL	R	T2	ND	10	42	44.431	70	50.294
CL	R	T2	ND	20	42	44.435	70	50.289
CL	R	T2	ND	50	42	44.45	70	50.276
CL	R	T2	ND	75	42	44.457	70	50.262
CL	R	T3	D	4	42	44.469	70	50.31
CL	R	T3	D	10	42	44.47	70	50.314
CL	R	T3	D	20	42	44.467	70	50.32
CL	R	T3	D	50	42	44.47	70	50.34
CL	R	T3	D	75	42	44.48	70	50.357
CL	R	3	ND	4	42	44.465	70	50.303
CL	R	3	ND	10	42	44.464	70	50.3
CL	R	3	ND	20	42	44.461	70	50.292
CL	R	3	ND	50	42	44.457	70	50.273
CL	R	3	ND	75	42	44.453	70	50.258
CL	L	1	D	4	42	44.37	70	50.335
CL	L	1	D	10	42	44.371	70	50.337
CL	L	1	D	20	42	44.365	70	50.343
CL	L	1	D	50	42	44.393	70	50.351
CL	L	1	D	85	42	44.412	70	50.362
CL	L	1	ND	4	42	44.365	70	50.333
CL	L	1	ND	10	42	44.363	70	50.334
CL	L	1	ND	20	42	44.355	70	50.338
CL	L	1	ND	50	42	44.346	70	50.343
CL	L	T1	ND	4	42	44.337	70	50.305
CL	L	T1	ND	20	42	44.338	70	50.306
CL	L	T1	ND	50	42	44.351	70	50.333
CL	L	T2	ND	4	42	44.331	70	50.338
CL	L	T2	ND	20	42	44.323	70	50.332
CL	L	T2	ND	50	42	44.308	70	50.322
CL	L	T3	ND	4	42	44.344	70	50.4
CL	L	T3	ND	20	42	44.352	70	50.394
CL	L	T3	ND	50	42	44.363	70	50.383
CL	MOS	MOS	D	4	42	44.448	70	50.393
CL	MOS	MOS	D	10	42	44.451	70	50.39
CL	MOS	MOS	D	20	42	44.454	70	50.385
CL	MOS	MOS	D	50	42	44.463	70	50.37
NE	R	T1	ND	4	42	44.572	70	49.959
NE	R	T1	ND	20	42	44.576	70	49.965
NE	R	T1	ND	50	42	44.59	70	49.978
NE	R	T2	ND	4	42	44.581	70	49.937
NE	R	T2	ND	20	42	44.59	70	49.939
NE	R	T2	ND	50	42	44.604	70	49.94
NE	R	T3	D	4	42	44.583	70	49.907
NE	R	T3	D	20	42	44.582	70	49.9
NE	R	T3	D	50	42	44.58	70	49.89
NE	L	T1	ND	4	42	44.512	70	50.001
NE	L	T1	ND	20	42	44.52	70	50.002

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Latitude (N)		Longitude (W)	
					Degrees	Minutes	Degrees	Minutes
NE	L	T1	ND	50	42	44.545	70	50.018
NE	L	T2	D	4	42	44.483	70	50.027
NE	L	T2	D	20	42	44.491	70	50.034
NE	L	T2	D	50	42	44.503	70	50.045
NE	L	T3	D	4	42	44.449	70	50.048
NE	L	T3	D	20	42	44.442	70	50.036
NE	L	T3	D	50	42	44.433	70	50.026

APPENDIX 3a. Total suspended solids in creeks near high water slack collected in 2003.

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
21-Jul	19:06	SW	R	T1	14.4	11.0
21-Jul	19:06	SW	R	T1	16.8	12.4
21-Jul	19:04	SW	R	T2	13.5	9.9
21-Jul	18:58	SW	R	T3	18.1	13.9
21-Jul	18:58	SW	R	T3	14.6	11.2
21-Jul	19:14	SW	L	T1	12.6	9.0
21-Jul	19:12	SW	L	T2	13.9	9.1
21-Jul	19:09	SW	L	T3	6.0	2.8
23-Jul	7:40	CL	R	T1	19.1	17.3
23-Jul	7:40	CL	R	T1	11.3	9.7
23-Jul	7:38	CL	R	T2	19.7	15.7
23-Jul	7:31	CL	R	T3	23.1	18.5
23-Jul	7:31	CL	R	T3	25.9	21.3
23-Jul	7:55	CL	L	T1	22.8	21.0
23-Jul	7:52	CL	L	T2	21.1	16.9
23-Jul	7:49	CL	L	T3	18.7	17.1
25-Jul	9:54	WE	R	T1	16.1	12.1
25-Jul	9:56	WE	R	T2	62.8	54.4
25-Jul	9:56	WE	R	T2	87.4	76.6
25-Jul	9:58	WE	R	T3	18.9	14.3
25-Jul	9:35	WE	L	T1	14.5	11.5
25-Jul	9:37	WE	L	T2	12.7	9.3
25-Jul	9:43	WE	L	T3	15.2	11.0
25-Jul	9:43	WE	L	T3	19.0	15.4
28-Jul	11:55	NE	CON	CON	14.2	12.6
28-Jul	11:58	NE	R	T1	15.1	12.3
28-Jul	12:02	NE	R	T2	12.4	9.8
28-Jul	12:05	NE	R	T3	13.9	11.5
28-Jul	12:14	NE	L	T1	0.1	9.8
28-Jul	12:17	NE	L	T2	12.5	9.3
28-Jul	12:17	NE	L	T2	13.3	10.5
28-Jul	12:22	NE	L	T3	14.1	10.7
29-Jul	12:22	SW	CON	CON	13.1	10.3
29-Jul	12:24	SW	R	T1	12.9	9.3
29-Jul	12:27	SW	R	T2	14.2	10.2
29-Jul	12:31	SW	R	T3	13.4	9.8
29-Jul	12:39	SW	L	T1	9.5	6.1
29-Jul	12:43	SW	L	T2	8.8	5.4
29-Jul	12:43	SW	L	T2	10.6	7.2
29-Jul	12:49	SW	L	T3	15.7	12.7

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
31-Jul	13:56	CL	CON	CON	18.8	15.2
31-Jul	13:58	CL	R	T1	7.3	5.9
31-Jul	14:00	CL	R	T2	12.0	10.8
31-Jul	14:03	CL	R	T3	31.8	28.6
31-Jul	14:08	CL	L	T1	17.9	15.1
31-Jul	14:10	CL	L	T2	17.5	15.3
31-Jul	14:15	CL	L	T3	35.4	33.0
31-Jul	14:15	CL	L	T3	29.9	21.7
1-Aug	14:06	WE	CON	CON	27.2	22.2
1-Aug	14:28	WE	R	T1	13.7	11.7
1-Aug	14:28	WE	R	T1	25.6	22.2
1-Aug	14:31	WE	R	T2	28.7	25.9
1-Aug	14:36	WE	R	T3	16.0	13.8
1-Aug	14:11	WE	L	T1	20.3	17.3
1-Aug	14:14	WE	L	T2	18.0	13.6
1-Aug	14:19	WE	L	T3	28.6	24.4
5-Aug	17:58	NE	CON	CON	14.3	12.3
5-Aug	17:49	NE	R	T1	12.6	10.8
5-Aug	17:50	NE	R	T2	12.1	9.9
5-Aug	17:53	NE	R	T3	10.2	8.6
5-Aug	18:02	NE	L	T1	18.9	13.7
5-Aug	18:05	NE	L	T2	19.2	17.0
5-Aug	18:08	NE	L	T3	9.6	7.4
5-Aug	18:08	NE	L	T3	11.1	9.1
6-Aug	18:21	SW	CON	CON	12.1	9.7
6-Aug	18:25	SW	R	T1	13.1	10.1
6-Aug	18:27	SW	R	T2	27.7	23.7
6-Aug	18:30	SW	R	T3	26.3	21.9
6-Aug	18:35	SW	L	T1	19.1	15.1
6-Aug	18:38	SW	L	T2	12.5	10.1
6-Aug	18:41	SW	L	T3	13.3	11.5
6-Aug	18:41	SW	L	T3	15.2	12.8
7-Aug	7:40	CL	CON	CON	15.6	13.4
7-Aug	7:42	CL	R	T1	9.9	8.1
7-Aug	7:44	CL	R	T2	17.5	14.7
7-Aug	7:44	CL	R	T2	13.5	11.5
7-Aug	7:47	CL	R	T3	24.4	20.4
7-Aug	7:53	CL	L	T1	33.5	28.3
7-Aug	7:56	CL	L	T2	17.5	14.5
7-Aug	7:59	CL	L	T3	20.8	16.8
8-Aug	8:56	WE	CON	CON	19.3	16.1
8-Aug	9:11	WE	R	T1	36.7	32.4
8-Aug	9:11	WE	R	T1	16.3	12.6
8-Aug	9:15	WE	R	T2	14.4	11.3

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
8-Aug	9:20	WE	R	T3	18.0	14.0
8-Aug	8:59	WE	L	T1	18.1	15.3
8-Aug	9:01	WE	L	T2	15.7	12.6
8-Aug	9:05	WE	L	T3	24.4	19.6
10-Aug	23:39	CL	CON	CON	15.6	13.0
10-Aug	23:41	CL	R	T1	16.7	14.3
10-Aug	23:43	CL	R	T2	13.2	10.2
10-Aug	23:47	CL	R	T3	9.1	7.3
10-Aug	23:47	CL	R	T3	10.2	8.2
10-Aug	23:52	CL	L	T1	16.9	13.9
10-Aug	23:55	CL	L	T2	13.5	11.1
10-Aug	0:01	CL	L	T3	25.1	21.3
10-Aug	23:02	NE	CON	CON	13.7	11.5
10-Aug	22:49	NE	R	T1	18.4	14.6
10-Aug	22:50	NE	R	T2	18.0	16.8
10-Aug	22:56	NE	R	T3	13.9	13.3
10-Aug	23:09	NE	L	T1	40.7	36.1
10-Aug	23:15	NE	L	T2	13.6	10.6
10-Aug	23:11	NE	L	T3	9.5	7.5
10-Aug	23:11	NE	L	T3	8.4	8.0
12-Aug	0:01	WE	CON	CON	17.3	14.7
12-Aug	0:04	WE	R	T1	17.4	15.2
12-Aug	0:06	WE	R	T2	18.8	16.6
12-Aug	0:09	WE	R	T3	17.0	14.6
12-Aug	0:16	WE	L	T1	20.0	16.8
12-Aug	0:18	WE	L	T2	17.8	15.2
12-Aug	0:18	WE	L	T2	20.9	18.5
12-Aug	0:23	WE	L	T3	23.1	20.7
12-Aug	0:23	WE	L	T3	14.6	13.0
12-Aug	0:42	SW	CON	CON	24.7	20.9
12-Aug	0:55	SW	R	T1	15.6	15.0
12-Aug	0:59	SW	R	T2	16.7	14.7
12-Aug	0:59	SW	R	T2	15.5	13.3
12-Aug	1:01	SW	R	T3	11.3	9.3
12-Aug	0:43	SW	L	T1	17.1	14.9
12-Aug	0:45	SW	L	T2	19.4	16.8
12-Aug	0:49	SW	L	T3	18.1	16.3

APPENDIX 3b. Total suspended solids in creeks near high water slack collected in 2004. When no time is listed, a time was not recorded. An approximate time means that the time was not recorded immediately.

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
9-Jun	5:13	SW	M	1	21.00	17.80
9-Jun	5:16	SW	M	2	23.50	20.30
9-Jun	5:16	SW	M	2	24.20	20.40
9-Jun	5:18	SW	CON	CON	18.29	15.00
9-Jun	5:22	SW	R	T1	18.57	15.71
9-Jun	5:25	SW	R	T2	22.87	19.50
9-Jun	5:32	SW	R	T3	26.50	22.63
9-Jun	5:32	SW	R	T3	32.00	26.63
9-Jun	5:41	SW	L	T1	17.00	14.10
9-Jun	5:44	SW	L	T2	21.40	17.70
9-Jun	5:46	SW	L	T3	19.40	15.90
10-Jun	6:41	CL	M	1	7.20	5.70
10-Jun	6:43	CL	M	2	8.20	6.30
10-Jun	6:44	CL	CON	CON	3.90	2.40
10-Jun	~7:05	CL	R	T1	14.50	11.50
10-Jun	~7:05	CL	R	T2	11.05	7.79
10-Jun	~7:05	CL	R	T3	4.20	2.70
10-Jun	6:47	CL	L	1	15.10	12.10
10-Jun	6:48	CL	L	T1	5.70	4.20
10-Jun	6:50	CL	L	T2	7.70	5.50
10-Jun	6:53	CL	L	T3	12.90	9.30
15-Jun	11:03	SW	MOUTH	MOUTH	7.00	4.70
15-Jun	11:10	SW	M	1	12.29	10.57
15-Jun	11:13	SW	M	2	10.71	7.00
15-Jun	11:14	SW	CON	CON	9.71	8.86
15-Jun	~11:28	SW	R	T1	9.00	7.75
15-Jun	~11:28	SW	R	T1	9.38	8.75
15-Jun	~11:30	SW	R	T2	12.29	7.86
15-Jun	~11:34	SW	R	T3	11.00	7.20
15-Jun	~11:35	SW	MOS	MOS	9.00	7.71
15-Jun	11:16	SW	L	T1	8.86	5.14
15-Jun	11:16	SW	L	T1	7.57	4.00
15-Jun	11:20	SW	L	T2	11.14	10.14
15-Jun	~11:25	SW	L	T3	10.86	6.57
17-Jun	12:40	CL	MOUTH	MOUTH	5.70	5.20
17-Jun	13:20	CL	M	1	9.30	7.50
17-Jun	12:46	CL	M	2	12.10	11.30
17-Jun	12:49	CL	CON	CON	14.30	12.20
17-Jun	13:06	CL	R	T1	10.10	7.70
17-Jun	~13:10	CL	R	T2	19.90	15.90
17-Jun	~13:12	CL	R	T3	12.70	9.50

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
17-Jun	13:03	CL	L	1	21.00	17.90
17-Jun	13:03	CL	L	1	31.00	26.40
17-Jun	12:52	CL	L	T1	12.60	10.60
17-Jun	12:54	CL	L	T2	17.10	13.70
17-Jun	12:58	CL	L	T3	11.60	9.30
17-Jun	13:14	CL	MOS	MOS	39.60	31.00
24-Jun	~17:00	SW	MOUTH	MOUTH	7.50	6.10
24-Jun		SW	M	1	10.30	7.90
24-Jun		SW	M	2	10.90	8.60
24-Jun		SW	CON	CON	7.30	5.90
24-Jun		SW	R	T1	16.00	12.90
24-Jun		SW	R	T2	14.63	12.03
24-Jun		SW	R	T3	12.70	10.30
24-Jun	~17:25	SW	MOS	MOS	22.70	18.50
24-Jun	~17:25	SW	MOS	MOS	21.80	18.10
24-Jun		SW	L	T1	12.20	9.50
24-Jun		SW	L	T2	11.90	9.70
24-Jun		SW	L	T3	9.30	7.60
24-Jun		SW	L	T3	8.70	6.60
25-Jun	17:28	CL	MOUTH	MOUTH	9.40	8.30
25-Jun	17:34	CL	M	1	13.10	11.20
25-Jun	17:35	CL	M	2	12.50	10.30
25-Jun	17:38	CL	CON	CON	13.50	11.00
25-Jun	17:39	CL	R	T1	10.90	8.70
25-Jun	17:40	CL	R	T2	10.60	8.70
25-Jun	17:43	CL	R	T3	21.30	17.80
25-Jun	17:45	CL	L	1	17.00	14.60
25-Jun	~17:50	CL	L	T1	15.90	13.40
25-Jun	~17:58	CL	L	T2	19.98	16.84
25-Jun	18:02	CL	L	T3	12.50	10.30
25-Jun	~17:45	CL	MOS	MOS	19.60	16.00
28-Jun	20:59	SW	MOUTH	MOUTH	9.33	7.53
28-Jun	20:56	SW	M	1	31.00	24.50
28-Jun	~20:54	SW	M	2	14.80	12.00
28-Jun	20:47	SW	CON	CON	21.15	18.33
28-Jun	20:41	SW	R	T1	17.60	14.80
28-Jun	~20:38	SW	R	T2	19.72	15.97
28-Jun	~20:45	SW	R	T3	21.30	17.60
28-Jun	~20:40	SW	MOS	MOS	14.10	11.40
28-Jun	20:33	SW	L	T1	22.40	18.60
28-Jun	20:26	SW	L	T2	23.40	19.40
28-Jun	20:26	SW	L	T2	25.20	20.90
28-Jun	20:26	SW	L	T3	24.90	20.60
30-Jun	22:18	CL	M	1	54.70	48.70
30-Jun	22:19	CL	M	2	40.00	36.10

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
30-Jun	22:22	CL	CON	CON	35.90	31.70
30-Jun	22:22	CL	CON	CON	34.50	30.50
30-Jun	22:23	CL	R	T1	55.70	49.20
30-Jun	22:24	CL	R	T2	49.40	43.70
30-Jun	22:26	CL	R	T3	50.60	44.20
30-Jun	22:31	CL	L	1	41.10	36.00
30-Jun	22:43	CL	L	T1	8.90	6.10
30-Jun	22:45	CL	L	T2	10.60	9.20
30-Jun	22:56	CL	L	T3	6.20	4.70
30-Jun	22:36	CL	MOS	MOS	7.40	5.50
9-Jul	6:38	SW	MOUTH	MOUTH	9.20	7.20
9-Jul	6:42	SW	M	1	20.50	16.20
9-Jul	6:45	SW	M	2	17.70	13.30
9-Jul	6:46	SW	CON	CON	16.80	12.90
9-Jul	6:55	SW	R	T1	17.50	13.80
9-Jul	6:59	SW	R	T2	19.10	15.20
9-Jul	6:59	SW	R	T2	21.60	16.20
9-Jul	7:05	SW	R	T3	16.25	13.75
9-Jul	7:00	SW	MOS	MOS	25.13	20.50
9-Jul	6:48	SW	L	T1	22.10	17.20
9-Jul	6:50	SW	L	T2	32.70	26.60
9-Jul	6:52	SW	L	T3	24.40	19.90
10-Jul	7:09	CL	MOUTH	MOUTH	13.20	11.60
10-Jul	7:11	CL	M	1	22.20	20.10
10-Jul	7:13	CL	M	2	13.80	12.10
10-Jul	7:14	CL	CON	CON	10.20	8.60
10-Jul	7:14	CL	CON	CON	17.90	15.70
10-Jul	7:16	CL	R	T1	54.40	49.60
10-Jul	7:17	CL	R	T2	12.00	10.10
10-Jul	7:20	CL	R	T3	25.20	22.00
10-Jul	7:25	CL	L	1	16.00	14.30
10-Jul	7:32	CL	L	T1	17.20	15.00
10-Jul	7:38	CL	L	T2	15.50	13.40
10-Jul	7:42	CL	L	T3	15.40	13.20
10-Jul	~7:34	CL	MOS	MOS	11.20	9.50
16-Jul	12:10	SW	MOUTH	MOUTH	18.40	16.40
16-Jul	12:14	SW	M	1	10.80	8.80
16-Jul	12:15	SW	M	2	10.30	8.70
16-Jul	12:17	SW	CON	CON	12.30	10.20
16-Jul		SW	R	T1	10.10	8.30
16-Jul		SW	R	T2	14.80	12.50
16-Jul		SW	R	T2	12.30	10.10
16-Jul		SW	R	T3	12.60	9.90
16-Jul		SW	MOS	MOS	9.80	7.40
16-Jul	12:21	SW	L	T1	11.30	9.30
16-Jul	12:23	SW	L	T2	10.00	8.00

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
16-Jul	12:25	SW	L	T3	12.80	10.40
17-Jul	12:30	CL	MOUTH	MOUTH	12.30	11.20
17-Jul	12:35	CL	M	1	16.80	14.60
17-Jul	12:37	CL	M	2	10.70	9.30
17-Jul	12:39	CL	CON	CON	16.20	14.00
17-Jul	12:39	CL	CON	CON	16.30	14.10
17-Jul	12:41	CL	R	T1	15.50	13.30
17-Jul	12:42	CL	R	T2	16.63	14.00
17-Jul	12:44	CL	R	T3	17.50	14.10
17-Jul	12:57	CL	L	1	9.60	8.10
17-Jul	13:01	CL	L	T1	16.10	13.80
17-Jul	13:02	CL	L	T2	14.40	12.30
17-Jul	13:05	CL	L	T3	10.60	8.60
17-Jul	12:53	CL	MOS	MOS	10.30	8.30
19-Jul	14:08	WE	MOUTH	MOUTH	10.80	8.60
19-Jul	14:12	WE	CON	CON	9.40	6.70
19-Jul	14:12	WE	CON	CON	9.30	6.90
19-Jul	~14:31	WE	R	T1	8.80	6.40
19-Jul	14:37	WE	R	T2	7.50	5.10
19-Jul	~14:35	WE	R	T3	12.70	9.30
19-Jul	14:14	WE	L	T1	11.30	7.80
19-Jul	14:16	WE	L	T2	12.00	8.60
19-Jul	14:20	WE	L	T3	9.50	6.60
20-Jul	13:56	NE	MOUTH	MOUTH	12.70	11.40
20-Jul	14:11	NE	CON	CON	18.70	16.20
20-Jul	14:25	NE	R	T1	18.70	15.80
20-Jul	14:18	NE	R	T2	11.30	9.20
20-Jul	14:20	NE	R	T2	11.60	9.40
20-Jul	14:20	NE	R	T3	16.60	13.90
20-Jul	14:20	NE	R	T3	34.40	29.29
20-Jul	14:29	NE	L	T1	14.20	12.00
20-Jul	14:31	NE	L	T2	16.10	13.00
20-Jul	14:33	NE	L	T3	22.70	19.20
21-Jul	15:00	SW	MOUTH	MOUTH	12.30	10.60
21-Jul	15:05	SW	M	1	10.70	8.60
21-Jul	15:07	SW	M	2	10.20	7.90
21-Jul	15:08	SW	CON	CON	10.10	6.90
21-Jul	15:21	SW	R	T1	14.20	9.50
21-Jul	15:25	SW	R	T2	10.80	7.30
21-Jul	15:25	SW	R	T2	8.40	5.30
21-Jul	15:28	SW	R	T3	11.50	7.90
21-Jul	15:34	SW	MOS	MOS	8.00	5.20
21-Jul	15:10	SW	L	T1	11.60	9.00
21-Jul	15:11	SW	L	T2	12.30	9.70
21-Jul	15:15	SW	L	T3	10.10	7.20

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
22-Jul	16:21	CL	MOUTH	MOUTH	14.70	13.50
22-Jul	16:12	CL	M	1	16.10	14.20
22-Jul	16:25	CL	M	2	14.50	12.30
22-Jul	16:28	CL	CON	CON	12.80	10.30
22-Jul	16:47	CL	R	T1	10.90	7.90
22-Jul	16:47	CL	R	T1	9.70	6.90
22-Jul	16:49	CL	R	T2	10.80	8.10
22-Jul	16:53	CL	R	T3	18.50	14.60
22-Jul	16:37	CL	L	1	19.30	16.20
22-Jul	16:31	CL	L	T1	11.00	8.90
22-Jul	16:34	CL	L	T2	9.20	6.90
22-Jul	16:36	CL	L	T3	10.30	8.10
22-Jul	16:47	CL	MOS	MOS	12.70	9.90
24-Jul	17:08	CL	MOUTH	MOUTH	14.60	11.70
24-Jul	17:39	CL	M	1	7.40	4.80
24-Jul	17:13	CL	M	2	10.90	7.60
24-Jul	17:14	CL	CON	CON	9.80	5.50
24-Jul	17:15	CL	R	T1	9.20	5.50
24-Jul	17:15	CL	R	T1	10.20	6.60
24-Jul	17:17	CL	R	T2	27.00	21.44
24-Jul	17:19	CL	R	T3	45.56	38.00
24-Jul	17:27	CL	L	1	15.50	10.88
24-Jul	17:35	CL	L	T1	14.60	10.40
24-Jul	17:33	CL	L	T2	15.00	10.50
24-Jul	17:30	CL	L	T3	13.70	8.80
24-Jul	17:26	CL	MOS	MOS	19.38	12.88
24-Jul	17:45	SW	MOUTH	MOUTH	9.70	9.40
24-Jul	17:48	SW	M	1	9.30	7.50
24-Jul	17:50	SW	M	2	9.58	7.50
24-Jul	17:51	SW	CON	CON	10.50	7.80
24-Jul	18:13	SW	R	T1	11.40	8.20
24-Jul	18:11	SW	R	T2	8.30	5.30
24-Jul	18:07	SW	R	T3	10.50	7.60
24-Jul	18:08	SW	MOS	MOS	10.70	5.30
24-Jul	17:52	SW	L	T1	12.50	10.40
24-Jul	17:53	SW	L	T2	9.70	7.00
24-Jul	17:58	SW	L	T3	9.80	6.20
24-Jul	17:58	SW	L	T3	14.90	11.20
27-Jul	7:39	WE	MOUTH	MOUTH	27.10	23.20
27-Jul	7:43	WE	CON	CON	52.90	44.40
27-Jul	7:58	WE	R	T1	22.00	17.00
27-Jul	8:00	WE	R	T2	17.70	12.40
27-Jul	8:08	WE	R	T3	14.30	9.20
27-Jul	7:46	WE	L	T1	191.13	164.50
27-Jul	7:47	WE	L	T2	43.00	34.40
27-Jul	7:50	WE	L	T3	37.00	29.20

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
27-Jul	7:50	WE	L	T3	38.40	30.80
28-Jul	8:32	CL	MOUTH	MOUTH	4.90	3.90
28-Jul	8:38	CL	M	1	7.70	6.30
28-Jul	8:39	CL	M	2	11.40	9.00
28-Jul	8:41	CL	CON	CON	10.60	8.30
28-Jul	8:59	CL	R	T1	11.30	9.50
28-Jul	8:59	CL	R	T1	10.40	8.40
28-Jul	9:01	CL	R	T2	23.70	20.20
28-Jul	9:03	CL	R	T3	23.30	19.60
28-Jul	8:55	CL	L	1	13.60	10.90
28-Jul	8:53	CL	L	T1	11.40	8.90
28-Jul	8:49	CL	L	T2	10.80	9.20
28-Jul	8:47	CL	L	T3	18.88	15.00
28-Jul	8:55	CL	MOS	MOS	6.40	4.80
28-Jul	9:11	SW	MOUTH	MOUTH	9.20	5.80
28-Jul	9:14	SW	M	1	15.10	9.90
28-Jul	9:17	SW	M	2	15.10	9.90
28-Jul	9:19	SW	CON	CON	14.70	8.70
28-Jul		SW	R	T1	17.90	12.50
28-Jul		SW	R	T1	15.10	9.60
28-Jul		SW	R	T2	15.20	9.50
28-Jul		SW	R	T3	12.80	8.00
28-Jul		SW	MOS	MOS	12.30	8.00
28-Jul	9:20	SW	L	T1	21.20	14.20
28-Jul	9:22	SW	L	T2	20.20	14.30
28-Jul		SW	L	T3	13.50	8.40
29-Jul	10:03	NE	MOUTH	MOUTH	7.20	6.10
29-Jul	10:07	NE	CON	CON	8.90	7.20
29-Jul	10:07	NE	CON	CON	7.50	5.90
29-Jul	10:10	NE	R	T1	10.10	8.30
29-Jul	10:13	NE	R	T2	8.30	6.70
29-Jul	10:15	NE	R	T3	10.84	9.34
29-Jul	10:25	NE	L	T1	9.80	8.10
29-Jul	10:31	NE	L	T2	9.30	6.80
29-Jul	10:36	NE	L	T3	5.70	4.00
4-Aug	15:09	WE	MOUTH	MOUTH	14.00	10.80
4-Aug	15:14	WE	CON	CON	14.30	10.90
4-Aug	15:37	WE	R	T1	10.90	7.80
4-Aug	15:40	WE	R	T2	9.20	6.00
4-Aug	15:43	WE	R	T3	7.70	4.60
4-Aug	15:16	WE	L	T1	9.10	6.10
4-Aug	15:17	WE	L	T2	11.60	8.20
4-Aug	15:20	WE	L	T3	12.50	9.10
5-Aug	15:52	NE	MOUTH	MOUTH	7.67	5.33

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
5-Aug	15:58	NE	CON	CON	6.50	3.58
5-Aug	16:18	NE	R	T1	15.40	12.10
5-Aug	16:20	NE	R	T2	15.50	11.40
5-Aug	16:23	NE	R	T3	9.60	6.20
5-Aug	15:59	NE	L	T1	12.60	9.30
5-Aug	16:02	NE	L	T2	11.50	7.50
5-Aug	16:11	NE	L	T3	11.20	7.70
9-Aug	7:17	CL	MOUTH	MOUTH	5.60	2.90
9-Aug	7:23	CL	M	1	86.60	76.30
9-Aug	7:24	CL	M	2	26.30	21.70
9-Aug	7:26	CL	CON	CON	10.20	6.50
9-Aug	7:27	CL	R	T1	38.20	31.60
9-Aug	7:27	CL	R	T1	108.30	97.70
9-Aug	7:30	CL	R	T2	49.60	41.60
9-Aug	7:31	CL	R	T3	13.80	9.40
9-Aug	7:41	CL	L	1	11.20	7.60
9-Aug	~7:43	CL	L	T1	17.90	13.20
9-Aug	~7:45	CL	L	T2	10.20	6.60
9-Aug	~7:47	CL	L	T3	15.30	11.00
9-Aug	7:42	CL	MOS	MOS	10.00	5.70
10-Aug	8:17	SW	MOUTH	MOUTH	9.00	6.10
10-Aug	8:22	SW	M	1	87.00	76.00
10-Aug	8:27	SW	M	2	13.10	9.10
10-Aug	8:29	SW	CON	CON	13.30	9.00
10-Aug	8:40	SW	R	T1	8.30	4.10
10-Aug	8:43	SW	R	T2	30.20	23.10
10-Aug	8:43	SW	R	T2	29.40	22.70
10-Aug	8:47	SW	R	T3	8.30	4.30
10-Aug	8:50	SW	MOS	MOS	10.73	7.19
10-Aug	8:30	SW	L	T1	13.23	8.23
10-Aug	8:32	SW	L	T2	14.40	10.90
10-Aug	8:36	SW	L	T3	288.80	219.40
11-Aug	9:20	WE	MOUTH	MOUTH	5.25	4.10
11-Aug	9:27	WE	CON	CON	16.60	14.00
11-Aug	9:48	WE	R	T1	10.00	7.60
11-Aug	9:43	WE	R	T2	8.10	6.10
11-Aug	9:45	WE	R	T3	12.10	9.30
11-Aug	9:30	WE	L	T1	23.40	18.70
11-Aug	9:32	WE	L	T2	20.60	16.20
11-Aug	9:35	WE	L	T3	13.60	10.70
14-Aug	11:45	NE	CON	CON	12.00	9.80
14-Aug	11:49	NE	R	T1	20.40	15.60
14-Aug	11:51	NE	R	T2	10.00	7.60
14-Aug	11:54	NE	R	T3	20.00	15.00
14-Aug	11:41	NE	L	T1	16.40	13.00

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
14-Aug	11:38	NE	L	T2	17.90	13.80
14-Aug	11:33	NE	L	T3	67.70	55.90

APPENDIX 3C. Total suspended solids in creeks near high water slack collected in 2005. When no time is listed, a time was not recorded. An approximate time means that the time was not recorded immediately.

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
13-Jun	16:51	SW	MOUTH	MOUTH	9.73	4.47
13-Jun	16:54	SW	M	1	13.80	10.90
13-Jun	16:56	SW	M	2	13.91	12.27
13-Jun	16:58	SW	CON	CON	9.20	7.60
13-Jun	17:14	SW	R	T1	18.80	16.30
13-Jun	17:18	SW	R	T2	10.10	7.80
13-Jun	17:20	SW	R	T3	11.55	9.55
13-Jun	17:23	SW	MOS	MOS	11.11	8.78
13-Jun	17:00	SW	L	T1	11.82	9.36
13-Jun	17:00	SW	L	T1	13.60	11.70
13-Jun	17:02	SW	L	T2	14.00	11.36
13-Jun	17:08	SW	L	T3	15.10	12.50
23-Jun	13:17	SW	MOUTH	MOUTH	11	9.7
23-Jun	13:20	SW	M	1	13.69231	11.84615
23-Jun	13:22	SW	M	2	13.69231	11.84615
23-Jun	13:23	SW	CON	CON	11.72457	10.3598
23-Jun	13:27	SW	R	T1	11.76923	10.38462
23-Jun	13:29	SW	R	T2	12.38462	10.53846
23-Jun	13:29	SW	R	T2	12.69231	10.84615
23-Jun	13:31	SW	R	T3	11.53333	10.2
23-Jun		SW	MOS	MOS	17.92857	15.92857
23-Jun	~13:25	SW	L	T1	14.64286	12.5
23-Jun	~13:27	SW	L	T2	9	7.928571
23-Jun	~13:30	SW	L	T3	15.46667	13.86667
30-Jun	19:50	SW	MOUTH	MOUTH	8.117647	
30-Jun	19:50	SW	MOUTH	MOUTH	10.58824	
30-Jun	19:46	SW	M	1	12.85714	
30-Jun	19:44	SW	M	2	14.35714	
30-Jun	19:18	SW	CON	CON	11.38462	
30-Jun	19:21	SW	R	T1	8.066667	
30-Jun	19:25	SW	R	T2	25.5	
30-Jun	19:28	SW	R	T3	22.83333	
30-Jun	19:31	SW	MOS	MOS	18.75	
30-Jun	19:37	SW	L	T1	17	
30-Jun	19:39	SW	L	T2	51.5	
30-Jun	19:41	SW	L	T3	31.6	
13-Jul	17:02	SW	MOUTH	MOUTH	7.75	
13-Jul	17:02	SW	MOUTH	MOUTH	7.69	

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
13-Jul	17:05	SW	M	1	7.55	
13-Jul	17:07	SW	M	2	8.46	
13-Jul	17:08	SW	CON	CON	8.18	
13-Jul		SW	R	T1	7.97	
13-Jul		SW	R	T2	7.55	
13-Jul		SW	R	T3	8.08	3.83
13-Jul		SW	MOS	MOS	7.75	
13-Jul	17:12	SW	L	T1	10.10	
13-Jul	17:15	SW	L	T2	19.60	
13-Jul	17:17	SW	L	T3	32.38	
18-Jul	9:22	CL	MOUTH	MOUTH	9.20	4.98
18-Jul	9:27	CL	CON	CON	15.67	8.25
18-Jul	9:40	CL	R	T1	11.64	5.36
18-Jul	9:43	CL	R	T2	19.33	9.56
18-Jul	9:48	CL	R	T3	31.33	11.83
18-Jul	9:29	CL	L	T1	14.40	6.50
18-Jul	9:29	CL	L	T1	14.90	7.60
18-Jul	9:30	CL	L	T2	17.63	7.62
18-Jul	9:33	CL	L	T3	33.00	16.00
21-Jul	11:58	WE	MOUTH	MOUTH	11.61	6.83
21-Jul	12:01	WE	CON	CON	12.50	7.72
21-Jul	12:21	WE	R	T1	13.25	7.69
21-Jul	12:22	WE	R	T2	19.63	13.50
21-Jul	12:23	WE	R	T3	28.62	19.15
21-Jul	12:12	WE	L	T1	15.40	8.80
21-Jul	12:06	WE	L	T2	15.00	8.36
21-Jul	12:10	WE	L	T3	29.00	20.75
22-Jul	12:53	NE	MOUTH	MOUTH	3.744493	3.127753
22-Jul	12:58	NE	CON	CON	10.77778	9.111111
22-Jul	13:21	NE	R	T1	8.333333	6.444444
22-Jul	13:24	NE	R	T2	21.375	18.625
22-Jul	13:28	NE	R	T3	8.333333	6.722222
22-Jul	13:28	NE	R	T3	8.15	6.7
22-Jul	13:03	NE	L	T1	8	6.5
22-Jul	13:07	NE	L	T2	9.277778	7.777778
22-Jul	11:10	NE	L	T3	10.61111	8.777778
24-Jul	13:29	SW	MOUTH	MOUTH	18.72222	16.44444
24-Jul	13:40	SW	M	1	17.17514	14.63277
24-Jul	13:42	SW	M	2	13.16667	11.16667
24-Jul	13:43	SW	CON	CON	13.375	11.3125
24-Jul	13:43	SW	CON	CON	16.1875	14.125
24-Ju	14:05	SW	R	T1	13.55263	11.31579

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
24-Jul	14:09	SW	R	T2	15.28571	13.21429
24-Jul	14:12	SW	R	T3	17	14.875
24-Jul	14:25	SW	MOS	MOS	14.85714	12.85714
24-Jul	13:49	SW	L	T1	14.14286	11.92857
24-Jul	13:53	SW	L	T2	19.35714	16.85714
24-Jul	13:56	SW	L	T3	18.9375	16.375
26-Jul	17:13	WE	MOUTH	MOUTH	4.851485	4.059406
26-Jul	17:16	WE	CON	CON	7.535545	6.303318
26-Jul	17:20	WE	R	T1	8.625	7.5625
26-Jul	17:20	WE	R	T1	8.3	7.3
26-Jul	17:23	WE	R	T2	8.714286	7.5
26-Jul	17:22	WE	R	T3	30	27.28571
26-Jul	17:33	WE	L	T1	9.140969	7.709251
26-Jul	17:35	WE	L	T2	6.944444	6
26-Jul	17:37	WE	L	T3	20.75	18.1875
26-Jul	17:10	SW	MOUTH	MOUTH	6.55	5.5
26-Jul	17:04	SW	M	1	8.05	6.7
26-Jul	17:06	SW	M	2	10.72222	9.166667
26-Jul	16:40	SW	CON	CON	10.05556	8.333333
26-Jul	16:43	SW	R	T1	13.5	11.16667
26-Jul	16:48	SW	R	T2	14.625	12.1875
26-Jul	16:56	SW	R	T3	12.57143	10.57143
26-Jul	16:53	SW	MOS	MOS	9.5	7.875
26-Jul	16:53	SW	MOS	MOS	9.222222	7.5
26-Jul	16:25	SW	L	T1	12	10.125
26-Jul	16:29	SW	L	T2	13	11.125
26-Jul	16:33	SW	L	T3	9.9375	8.1875
28-Jul	18:08	NE	MOUTH	MOUTH	5.970149	5.124378
28-Jul	18:36	NE	CON	CON	5.555556	4.111111
28-Jul	18:18	NE	R	T1	7.666667	6.666667
28-Jul	18:23	NE	R	T2	8.666667	7.333333
28-Jul	18:23	NE	R	T2	10.5	9.15
28-Jul	18:25	NE	R	T3	7.0625	5.8125
28-Jul	18:32	NE	L	T1	16.375	14.5
28-Jul		NE	L	T2	16.33721	14.47674
28-Jul	18:38	NE	L	T3	9	7.388889
28-Jul	19:00	CL	MOUTH	MOUTH	5.454545	4.59596
28-Jul	19:05	CL	CON	CON	7.397959	6.173469
28-Jul	19:15	CL	R	T1	8.166667	6.666667
28-Jul	19:15	CL	R	T1	11.25	9.6
28-Jul	19:17	CL	R	T2	9.1875	7.5625
28-Jul	19:20	CL	R	T3	7.5	6

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
28-Jul	19:32	CL	L	T1	9.18239	7.610063
28-Jul	19:29	CL	L	T2	4.944444	3.777778
28-Jul	19:27	CL	L	T3	8.5	7.25
4-Aug	12:24	WE	MOUTH	MOUTH	6.387435	5.706806
4-Aug	12:29	WE	CON	CON	6.3125	5.125
4-Aug	12:46	WE	R	T1	9.25	7.4375
4-Aug	12:49	WE	R	T2	10.57143	8.714286
4-Aug	12:53	WE	R	T3	11.25	9
4-Aug	12:32	WE	L	T1	23.55556	19.88889
4-Aug	12:35	WE	L	T2	66.83333	58.16667
4-Aug	12:38	WE	L	T3	15.9	13.1
4-Aug	12:38	WE	L	T3	19.5	14.4
5-Aug	13:00	SW	MOUTH	MOUTH	5.75	4.8
5-Aug	13:03	SW	M	1	6.5625	4.6875
5-Aug	13:05	SW	M	2	9.375	7.375
5-Aug	13:06	SW	CON	CON	7.5	5.375
5-Aug	13:12	SW	R	T1	8.0625	6.125
5-Aug	13:15	SW	R	T2	7.214286	5.142857
5-Aug	13:20	SW	R	T3	13.7	10.1
5-Aug	13:17	SW	MOS	MOS	9.857143	7
5-Aug	13:14	SW	L	T1	68.375	54.625
5-Aug	13:14	SW	L	T1	73.16667	59.16667
5-Aug	13:16	SW	L	T2	9.357143	6.785714
5-Aug	13:20	SW	L	T3	23.08333	17.58333
7-Aug	14:32	NE	MOUTH	MOUTH	4.671968	4.075547
7-Aug	13:29	NE	CON	CON	18.2	16.2
7-Aug	14:13	NE	R	T1	10.58333	8.25
7-Aug	14:13	NE	R	T2	10.9375	8.875
7-Aug	14:16	NE	R	T3	14.8	12.4
7-Aug	13:53	NE	L	T1	32.25	28.875
7-Aug	13:56	NE	L	T2	39.33333	35.16667
7-Aug	14:02	NE	L	T3	43.5	36.66667
6-Aug	13:15	CL	MOUTH	MOUTH	4.1	3.7
6-Aug	13:19	CL	CON	CON	12.16667	10.41667
6-Aug	13:37	CL	R	T1	8.1	6.4
6-Aug	13:37	CL	R	T1	10.8	8.2
6-Aug	13:03	CL	R	T2	31.5	26.875
6-Aug	13:42	CL	R	T3	41	30.8
6-Aug	13:21	CL	L	T1	9.928571	8
6-Aug	13:22	CL	L	T2	12	10.25
6-Aug	13:27	CL	L	T3	17.16667	15

Date	Time	Creek	Branch	Transect	TSS (mg/L)	FSS (mg/L)
15-Aug	7:43	WE	MOUTH	MOUTH	6.654344	5.175601
15-Aug	7:46	WE	CON	CON	45.5	40.16667
15-Aug		WE	R	T1	19.83333	12.5
15-Aug		WE	R	T2	23.16667	16.5
15-Aug		WE	R	T3	16.5	10.66667
15-Aug	7:49	WE	L	T1	11	7.4
15-Aug	7:51	WE	L	T2	18.2	9.8
15-Aug	7:55	WE	L	T3	17.92829	9.561753
15-Aug	7:55	WE	L	T3	22.65625	14.0625
15-Aug		CL	MOUTH	MOUTH	5.055556	3.5
15-Aug		CL	MOUTH	MOUTH	6.111111	4.444444
15-Aug		CL	CON	CON	12.16667	8.916667
15-Aug	8:28	CL	R	T1	12.375	7.5
15-Aug	8:30	CL	R	T2	55.75	40.5
15-Aug	8:32	CL	R	T3	39.75	27.5
15-Aug		CL	L	T1	13	9.4
15-Aug		CL	L	T2	26.97368	16.88596
15-Aug		CL	L	T3	20.83333	13.83333
15-Aug	8:21	SW	MOUTH	MOUTH	5.99455	4.04178
15-Aug	8:18	SW	M	1	9.9375	6.75
15-Aug	8:13	SW	M	2	25	18.75
15-Aug		SW	CON	CON	10.71429	7.571429
15-Aug		SW	R	T1	8.25	5.5625
15-Aug		SW	R	T2	10.33333	7.25
15-Aug		SW	R	T3	40.66667	30.66667
15-Aug		SW	MOS	MOS	12.33333	8.75
15-Aug		SW	L	T1	10.16667	6.833333
15-Aug		SW	L	T2	7.916667	5.25
15-Aug		SW	L	T2	8.333333	5.25
15-Aug		SW	L	T3	10.71429	8.214286
16-Aug	8:50	NE	MOUTH	MOUTH	5.699482	3.88601
16-Aug	8:58	NE	CON	CON	7.888889	5.833333
16-Aug	9:06	NE	R	T1	12.21429	8.642857
16-Aug		NE	R	T2	38.5	33
16-Aug		NE	R	T3	22.625	17
16-Aug	9:04	NE	L	T1	17.2	12.7
16-Aug	9:04	NE	L	T1	22.375	16.75
16-Aug	9:09	NE	L	T2	12.8	8.7
16-Aug	9:22	NE	L	T3	11.4	7.5
16-Aug	9:22	NE	L	T3	15.8	11.3

APPENDIX 3d. Total suspended solids in creeks near high water slack collected in 2006. When no time is listed, a time was not recorded. An approximate time means that the time was not recorded immediately.

DATE	TIME	CREEK	BRANCH	TRANSECT	TSS (mg/L)	FSS (mg/L)
21-Jun	8:37	SW	MOUTH	MOUTH	5.8	3.4
21-Jun	8:56	SW	CONF	CONF	11.8	7.2
21-Jun		SW	R	T1	14.4	9.1
21-Jun		SW	R	T2	16.9	11.1
21-Jun		SW	R	T3	18.8	11.4
21-Jun	9:00	SW.	L	T1	13.6	8.6
21-Jun	9:05	SW	L	T2	11.4	6.7
21-Jun	9:12	SW	L	T3	11.3	6.4
21-Jun	9:12	SW	L	T3	13.6	8.5
25-Jun	11:53	NE	MOUTH	MOUTH	5.9	4.2
25-Jun	11:56	NE	CONF	CONF	12.9	8.5
25-Jun	11:56	NE	CONF	CONF	15.0	9.8
25-Jun	11:59	NE	R	T1	15.4	11.2
25-Jun	12:10	NE	R	T2	11.8	8.0
25-Jun	12:15	NE	R	T3	23.9	17.4
25-Jun	12:25	NE	L	T1	14.3	9.5
25-Jun	12:27	NE	L	T2	25.6	19.2
25-Jun	12:32	NE	L	T3	17.9	12.4
26-Jun	12:45	CL	MOUTH	MOUTH	8.0	5.1
26-Jun	13:49	CL	CONF	CONF	20.3	14.5
26-Jun	14:23	CL	R	T1	19.6	14.6
26-Jun	14:25	CL	R	T2	15.0	9.8
26-Jun		CL	R	T3	14.3	8.5
26-Jun	13:51	CL	L	T1	21.7	16.0
26-Jun	14:02	CL	L	T2	13.9	8.3
26-Jun	14:02	CL	L	T2	16.2	9.9
26-Jun	13:45	CL	L	T3	10.8	5.3
27-Jun	14:00	WE	MOUTH	MOUTH	7.3	4.1
27-Jun	14:03	WE	CONF	CONF	11.2	5.2
27-Jun	14:05	WE	R	T1	8.5	3.1
27-Jun	14:07	WE	R	T2	8.9	3.8
27-Jun	14:07	WE	R	T2	8.2	3.4
27-Jun	14:09	WE	R	T3	8.2	3.1
27-Jun	14:15	WE	L	T1	7.3	2.5
27-Jun	~14:17	WE	L	T2	9.7	4.3
27-Jun	~14:19	WE	L	T3	10.1	4.5
29-Jun	15:26	SW	MOUTH	MOUTH	6.9	4.0

DATE	TIME	CREEK	BRANCH	TRANSECT	TSS (mg/L)	FSS (mg/L)
29-Jun	15:32	SW	CONF	CONF	11.0	5.5
29-Jun	~15:37	SW	R	T1	9.0	3.5
29-Jun	~15:37	SW	R	T1	9.9	4.1
29-Jun	~15:40	SW	R	T2	12.0	6.0
29-Jun	~15:45	SW	R	T3	10.8	3.9
29-Jun	15:35	SW	L	T1	12.6	6.6
29-Jun	15:37	SW	L	T2	10.6	4.8
29-Jun	15:40	SW	L	T3	8.4	3.5
30-Jun		NE	MOUTH	MOUTH	4.3	1.8
30-Jun	15:56	NE	CONF	CONF	4.3	0.6
30-Jun	15:45	NE	R	T1	10.5	5.7
30-Jun	15:36	NE	R	T2	11.9	6.6
30-Jun	15:36	NE	R	T2	19.9	13.7
30-Jun	15:34	NE	R	T3	15.4	7.9
30-Jun	16:00	NE	L	T1	14.3	8.9
30-Jun	16:02	NE	L	T2	10.6	5.9
30-Jun	16:06	NE	L	T3	21.2	13.9
3-Jul	18:00	CL	MOUTH	MOUTH	6.3	3.6
3-Jul	18:00	CL	MOUTH	MOUTH	4.9	2.7
3-Jul	17:34	CL	CONF	CONF	14.4	10.3
3-Jul	17:35	CL	R	T1	17.6	12.5
3-Jul	~17:40	CL	R	T2	10.6	5.4
3-Jul	17:42	CL	R	T3	35.3	27.9
3-Jul	17:21	CL	L	T1	13.9	9.7
3-Jul	17:28	CL	L	T2	24.2	18.6
3-Jul	17:20	CL	L	T3	40.1	31.3
3-Jul	18:03	WE	MOUTH	MOUTH	6.7	3.9
3-Jul	18:06	WE	CONF	CONF	12.5	8.6
3-Jul	~18:10	WE	R	T1	7.0	3.6
3-Jul	18:20	WE	R	T2	79.3	69.1
3-Jul	18:28	WE	R	T3	10.9	6.6
3-Jul		WE	L	T1	9.8	5.9
3-Jul		WE	L	T1	18.0	13.3
3-Jul		WE	L	T2	19.0	14.2
3-Jul		WE	L	T3	18.3	12.6
7-Jul	21:14	SW	MOUTH	MOUTH	6.2	4.8
7-Jul	21:18	SW	CONF	CONF	6.9	4.2
7-Jul	21:22	SW	R	T1	13.3	10.5
7-Jul	21:22	SW	R	T1	9.3	6.5
7-Jul	21:25	SW	R	T2	13.1	9.1
7-Jul	~21:28	SW	R	T3	15.5	10.6
7-Jul	21:21	SW	L	T1	32.2	26.9

DATE	TIME	CREEK	BRANCH	TRANSECT	TSS (mg/L)	FSS (mg/L)
7-Jul	21:22	SW	L	T2	22.2	16.9
7-Jul	21:25	SW	L	T3	24.4	18.1
7-Jul	21:47	NE	MOUTH	MOUTH	5.4	4.1
7-Jul	21:51	NE	CONF	CONF	10.2	7.8
7-Jul	21:59	NE	R	T1	14.9	11.4
7-Jul	22:02	NE	R	T2	32.6	27.0
7-Jul	22:04	NE	R	T3	9.7	4.9
7-Jul	22:11	NE	L	T1	8.8	5.7
7-Jul	22:11	NE	L	T1	9.8	6.7
7-Jul	22:12	NE	L	T2	14.4	10.1
7-Jul	22:14	NE	L	T3	13.2	8.8
11-Jul	23:44	CL	MOUTH	MOUTH	8.6	6.5
11-Jul	23:47	CL	CONF	CONF	20.8	14.4
11-Jul	23:48	CL	R	T1	39.8	28.7
11-Jul	23:48	CL	R	T1	58.0	45.8
11-Jul	23:50	CL	R	T2	36.2	28.6
11-Jul	23:55	CL	R	T3	46.5	38.5
11-Jul	0:05	CL	L	T1	32.1	25.0
11-Jul	0:06	CL	L	T2	93.8	67.5
11-Jul	0:14	CL	L	T3	29.7	22.6
11-Jul	0:32	WE	MOUTH	MOUTH	10.6	6.8
11-Jul	0:35	WE	CONF	CONF	11.3	6.7
11-Jul	0:35	WE	CONF	CONF	10.7	6.2
11-Jul	0:51	WE	R	T1	39.1	31.6
11-Jul	0:53	WE	R	T2	20.0	13.5
11-Jul	0:56	WE	R	T3	23.3	15.6
11-Jul	0:37	WE	L	T1	12.3	7.3
11-Jul	0:38	WE	L	T2	27.7	19.8
11-Jul	0:40	WE	L	T3	28.3	20.4

APPENDIX 4a. Tide stick readings at stations along transects in 2003. The height to water mark is the measurement from the marsh platform surface to the water mark observed on the tide stick. The tide height was recorded from the tide gauge at Ipswich Bay Yacht Club.

Date	Creek	Branch	Transect	Ditch/No-Ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
12-Aug	SW	L	T1	D	4	40.3	3.290316
12-Aug	SW	L	T1	D	20	27.5	3.290316
12-Aug	SW	L	T1	D	50	29	3.290316
12-Aug	SW	L	T2	D	4	32	3.290316
12-Aug	SW	L	T2	D	20	32	3.290316
12-Aug	SW	L	T2	D	50	42.3	3.290316
12-Aug	SW	L	T3	D	4	32	3.290316
12-Aug	SW	L	T3	D	20	32	3.290316
12-Aug	SW	L	T3	D	50	39.5	3.290316
12-Aug	SW	R	T1	D	4	31.9	3.290316
12-Aug	SW	R	T1	D	20	26.2	3.290316
12-Aug	SW	R	T1	D	50	27.4	3.290316
12-Aug	SW	R	T2	D	4	37.2	3.290316
12-Aug	SW	R	T2	D	20	28.8	3.290316
12-Aug	SW	R	T2	D	50	26.8	3.290316
12-Aug	SW	R	T3	ND	4	30.3	3.290316
12-Aug	SW	R	T3	ND	20	23.3	3.290316
12-Aug	SW	R	T3	ND	50	23	3.290316
12-Aug	WE	L	T1	D	4	47.8	3.290316
12-Aug	WE	L	T1	D	20	20.5	3.290316
12-Aug	WE	L	T1	D	50	29.4	3.290316
12-Aug	WE	L	T2	D	4	40.4	3.290316
12-Aug	WE	L	T2	D	20	28.4	3.290316
12-Aug	WE	L	T2	D	50	31	3.290316
12-Aug	WE	L	T3	D	4	38.9	3.290316
12-Aug	WE	L	T3	D	20	27	3.290316
12-Aug	WE	L	T3	D	50	26.5	3.290316
12-Aug	WE	R	T1	ND	4	44.2	3.290316
12-Aug	WE	R	T1	ND	20	24.5	3.290316
12-Aug	WE	R	T1	ND	50	24.5	3.290316
12-Aug	WE	R	T2	D	4	39.3	3.290316
12-Aug	WE	R	T2	D	20	32.3	3.290316
12-Aug	WE	R	T2	D	50	30.6	3.290316
12-Aug	WE	R	T3	ND	4	45.3	3.290316
12-Aug	WE	R	T3	ND	20	23.8	3.290316
12-Aug	CL	L	T1	ND	4	40.1	3.290316
12-Aug	CL	L	T1	ND	20	25	3.290316
12-Aug	CL	L	T1	ND	50	19.4	3.290316

Date	Creek	Branch	Transect	Ditch/No-Ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
12-Aug	CL	L	T2	ND	4	43.7	3.290316
12-Aug	CL	L	T2	ND	20	27.4	3.290316
12-Aug	CL	L	T2	ND	50	15.6	3.290316
12-Aug	CL	L	T3	ND	4	41	3.290316
12-Aug	CL	L	T3	ND	20	17	3.290316
12-Aug	CL	L	T3	ND	50	24.2	3.290316
12-Aug	CL	R	T1	D	4	47	3.290316
12-Aug	CL	R	T1	D	20	23	3.290316
12-Aug	CL	R	T1	D	50	27.3	3.290316
12-Aug	CL	R	T2	ND	4	34	3.290316
12-Aug	CL	R	T2	ND	20	19.7	3.290316
12-Aug	CL	R	T2	ND	50	25.5	3.290316
12-Aug	CL	R	T3	D	4	33.9	3.290316
12-Aug	CL	R	T3	D	20	23.9	3.290316
12-Aug	CL	R	T3	D	50	25.4	3.290316
12-Aug	NE	L	T1	ND	4	36	3.290316
12-Aug	NE	L	T1	ND	20	20.1	3.290316
12-Aug	NE	L	T1	ND	50	22.2	3.290316
12-Aug	NE	L	T2	D	4	44.9	3.290316
12-Aug	NE	L	T2	D	20	27.3	3.290316
12-Aug	NE	L	T2	D	50	22.4	3.290316
12-Aug	NE	L	T3	D	4	45	3.290316
12-Aug	NE	L	T3	D	20	39.8	3.290316
12-Aug	NE	L	T3	D	50	50.7	3.290316
12-Aug	NE	R	T1	ND	4	35.4	3.290316
12-Aug	NE	R	T1	ND	20	23	3.290316
12-Aug	NE	R	T1	ND	50	22	3.290316
12-Aug	NE	R	T2	ND	4	35	3.290316
12-Aug	NE	R	T2	ND	20	24.6	3.290316
12-Aug	NE	R	T2	ND	50	28	3.290316
12-Aug	NE	R	T3	D	4	35.5	3.290316
12-Aug	NE	R	T3	D	20	30	3.290316
12-Aug	NE	R	T3	D	50	26.1	3.290316
13-Aug	SW	L	T1	D	4	41	3.2988504
13-Aug	SW	L	T1	D	20	28.6	3.2988504
13-Aug	SW	L	T1	D	50	26	3.2988504
13-Aug	SW	L	T2	D	4	42	3.2988504
13-Aug	SW	L	T2	D	20	31.6	3.2988504
13-Aug	SW	L	T2	D	50	32	3.2988504
13-Aug	SW	L	T3	D	4	40.3	3.2988504
13-Aug	SW	L	T3	D	20	35.4	3.2988504
13-Aug	SW	L	T3	D	50	31.5	3.2988504
13-Aug	SW	R	T1	D	4	31.8	3.2988504
13-Aug	SW	R	T1	D	20	27.1	3.2988504
13-Aug	SW	R	T1	D	50	28.5	3.2988504

Date	Creek	Branch	Transect	Ditch/No-Ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
13-Aug	SW	R	T2	D	4	43.3	3.2988504
13-Aug	SW	R	T2	D	20	19.7	3.2988504
13-Aug	SW	R	T2	D	50	21.2	3.2988504
13-Aug	SW	R	T3	ND	4	32	3.2988504
13-Aug	SW	R	T3	ND	20	24.8	3.2988504
13-Aug	SW	R	T3	ND	50	23.5	3.2988504
13-Aug	WE	L	T1	D	4	49.5	3.2988504
13-Aug	WE	L	T1	D	20	25.1	3.2988504
13-Aug	WE	L	T1	D	50	30.9	3.2988504
13-Aug	WE	L	T2	D	4	35.4	3.2988504
13-Aug	WE	L	T2	D	20	29.3	3.2988504
13-Aug	WE	L	T2	D	50	32.7	3.2988504
13-Aug	WE	L	T3	D	4	49.7	3.2988504
13-Aug	WE	L	T3	D	20	27.7	3.2988504
13-Aug	WE	L	T3	D	50	28.2	3.2988504
13-Aug	WE	R	T1	ND	4	45	3.2988504
13-Aug	WE	R	T1	ND	20	24.5	3.2988504
13-Aug	WE	R	T1	ND	50	29.5	3.2988504
13-Aug	WE	R	T2	D	4	38.3	3.2988504
13-Aug	WE	R	T2	D	20	34	3.2988504
13-Aug	WE	R	T2	D	50	30.5	3.2988504
13-Aug	WE	R	T3	ND	4	26.5	3.2988504
13-Aug	WE	R	T3	ND	20	24.3	3.2988504
13-Aug	WE	R	T3	ND	50	44.9	3.2988504
13-Aug	CL	L	T1	ND	4	40	3.2988504
13-Aug	CL	L	T1	ND	20	27	3.2988504
13-Aug	CL	L	T1	ND	50	25.2	3.2988504
13-Aug	CL	L	T2	ND	4	44.5	3.2988504
13-Aug	CL	L	T2	ND	20	27.5	3.2988504
13-Aug	CL	L	T2	ND	50	25	3.2988504
13-Aug	CL	L	T3	ND	4	49	3.2988504
13-Aug	CL	L	T3	ND	20	28.8	3.2988504
13-Aug	CL	L	T3	ND	50	14	3.2988504
13-Aug	CL	R	T1	D	4	47	3.2988504
13-Aug	CL	R	T1	D	20	24	3.2988504
13-Aug	CL	R	T1	D	50	27.7	3.2988504
13-Aug	CL	R	T2	ND	4	37.3	3.2988504
13-Aug	CL	R	T2	ND	20	25	3.2988504
13-Aug	CL	R	T2	ND	50	26.9	3.2988504
13-Aug	CL	R	T3	D	4	35	3.2988504
13-Aug	CL	R	T3	D	20	27.9	3.2988504
13-Aug	CL	R	T3	D	50	25.4	3.2988504
13-Aug	NE	L	T1	ND	4	36.3	3.2988504
13-Aug	NE	L	T1	ND	20	20.7	3.2988504
13-Aug	NE	L	T1	ND	50	23.5	3.2988504

Date	Creek	Branch	Transect	Ditch/No-Ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
13-Aug	NE	L	T2	D	4	45.6	3.2988504
13-Aug	NE	L	T2	D	20	25.9	3.2988504
13-Aug	NE	L	T2	D	50	25.3	3.2988504
13-Aug	NE	L	T3	D	4	45	3.2988504
13-Aug	NE	L	T3	D	20	40	3.2988504
13-Aug	NE	L	T3	D	50	45	3.2988504
13-Aug	NE	R	T1	ND	4	29	3.2988504
13-Aug	NE	R	T1	ND	20	23.8	3.2988504
13-Aug	NE	R	T1	ND	50	18.6	3.2988504
13-Aug	NE	R	T2	ND	4	25.2	3.2988504
13-Aug	NE	R	T2	ND	20	25.2	3.2988504
13-Aug	NE	R	T2	ND	50	28	3.2988504
13-Aug	NE	R	T3	D	4	32	3.2988504
13-Aug	NE	R	T3	D	20	28.9	3.2988504
13-Aug	NE	R	T3	D	50	21.3	3.2988504

APPENDIX 4b. Tide stick readings at stations along transects in 2004. The height to water mark is the measurement from the marsh platform surface to the water mark observed on the tide stick. The tide height was recorded from the tide gauge at Ipswich Bay Yacht Club.

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
29-Jun	SW	M	1	D	4	25.7	3.102864
29-Jun	SW	M	1	D	10	15.5	3.102864
29-Jun	SW	M	1	D	20	16	3.102864
29-Jun	SW	M	1	D	50	12	3.102864
29-Jun	SW	M	1	D	75	16.5	3.102864
29-Jun	SW	M	1	ND	4	26.2	3.102864
29-Jun	SW	M	1	ND	10	7.8	3.102864
29-Jun	SW	M	1	ND	20	2.1	3.102864
29-Jun	SW	M	1	ND	50	0	3.102864
29-Jun	SW	M	1	ND	75	2	3.102864
29-Jun	SW	M	2	D	4	17.2	3.102864
29-Jun	SW	M	2	D	10	20.7	3.102864
29-Jun	SW	M	2	D	20	20.3	3.102864
29-Jun	SW	M	2	D	50	17	3.102864
29-Jun	SW	M	2	D	75	6.8	3.102864
29-Jun	SW	M	2	ND	4	15.2	3.102864
29-Jun	SW	M	2	ND	10	5.0 (?)	3.102864
29-Jun	SW	M	2	ND	20	3.5	3.102864
29-Jun	SW	M	2	ND	50	5	3.102864
29-Jun	SW	M	2	ND	75	3.4	3.102864
29-Jun	SW	L	1	D	4	14.6	3.102864
29-Jun	SW	L	1	D	10	21	3.102864
29-Jun	SW	L	1	D	20	31	3.102864
29-Jun	SW	L	1	D	50	14.2	3.102864
29-Jun	SW	L	T1	D	4	13	3.102864
29-Jun	SW	L	T1	D	10	6.5	3.102864
29-Jun	SW	L	T1	D	20	24	3.102864
29-Jun	SW	L	T1	D	50	25.8	3.102864
29-Jun	SW	L	T2	D	4	28.7	3.102864
29-Jun	SW	L	T2	D	10	17	3.102864
29-Jun	SW	L	T2	D	20	15	3.102864
29-Jun	SW	L	T2	D	50	15	3.102864
29-Jun	SW	L	T2	D	75	20.5	3.102864
29-Jun	SW	L	T2	D	100	21	3.102864
29-Jun	SW	L	T2	D	112	18.4	3.102864
29-Jun	SW	L	2	ND	4	n/a	3.102864
29-Jun	SW	L	2	ND	12	n/a	3.102864
29-Jun	SW	L	2	ND	40	n/a	3.102864

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
29-Jun	SW	L	3	D	4	11.5	3.102864
29-Jun	SW	L	3	D	20	17	3.102864
29-Jun	SW	L	3	D	50	23.5	3.102864
29-Jun	SW	R	T1	D	4	12.5	3.102864
29-Jun	SW	R	T1	D	10	3.5	3.102864
29-Jun	SW	R	T1	D	20	9.4	3.102864
29-Jun	SW	R	T1	D	50	9	3.102864
29-Jun	SW	R	1	ND	4	12.5	3.102864
29-Jun	SW	R	1	ND	10	7	3.102864
29-Jun	SW	R	1	ND	20	2.5	3.102864
29-Jun	SW	R	1	ND	50	2	3.102864
29-Jun	SW	R	2	D	4	19.8	3.102864
29-Jun	SW	R	2	D	10	16	3.102864
29-Jun	SW	R	2	D	20	26.7	3.102864
29-Jun	SW	R	2	D	50	12.5	3.102864
29-Jun	SW	R	T2	D	4	23.6	3.102864
29-Jun	SW	R	T2	D	10	12.3	3.102864
29-Jun	SW	R	T2	D	20	14.8	3.102864
29-Jun	SW	R	T2	D	50	12	3.102864
29-Jun	SW	R	3	D	4	12.6	3.102864
29-Jun	SW	R	3	D	10	10	3.102864
29-Jun	SW	R	3	D	20	8.5	3.102864
29-Jun	SW	R	3	D	37	19.3	3.102864
29-Jun	SW	R	T3	ND	4	15.8	3.102864
29-Jun	SW	R	T3	ND	10	6.8	3.102864
29-Jun	SW	R	T3	ND	20	7	3.102864
29-Jun	SW	R	T3	ND	50	8.2	3.102864
29-Jun	CL	M	1	D	4	16.8	3.102864
29-Jun	CL	M	1	D	10	15.5	3.102864
29-Jun	CL	M	1	D	20	14.8	3.102864
29-Jun	CL	M	1	D	50	16	3.102864
29-Jun	CL	M	1	ND	4	13	3.102864
29-Jun	CL	M	1	ND	10	8.5	3.102864
29-Jun	CL	M	1	ND	20	4.2	3.102864
29-Jun	CL	M	1	ND	50	1.5	3.102864
29-Jun	CL	M	2	D	4	8.5	3.102864
29-Jun	CL	M	2	D	10	6.8	3.102864
29-Jun	CL	M	2	D	20	12	3.102864
29-Jun	CL	M	2	D	50	10.3	3.102864
29-Jun	CL	M	2	ND	4	14.2	3.102864
29-Jun	CL	M	2	ND	10	10	3.102864
29-Jun	CL	M	2	ND	20	3.5	3.102864
29-Jun	CL	L	1	D	4	29.3	3.102864
29-Jun	CL	L	1	D	10	19.5	3.102864
29-Jun	CL	L	1	D	20	25.4	3.102864

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
29-Jun	CL	L	1	D	50	22.8	3.102864
29-Jun	CL	L	1	ND	4	25.7	3.102864
29-Jun	CL	L	1	ND	10	8.9	3.102864
29-Jun	CL	L	1	ND	20	8.2	3.102864
29-Jun	CL	L	1	ND	40	6.5	3.102864
29-Jun	CL	L	T1	ND	4	23.8	3.102864
29-Jun	CL	L	T1	ND	20	4.9 (?)	3.102864
29-Jun	CL	L	T1	ND	50	4.6	3.102864
29-Jun	CL	L	T2	ND	4	24	3.102864
29-Jun	CL	L	T2	ND	20	10.3	3.102864
29-Jun	CL	L	T2	ND	50	7.3	3.102864
29-Jun	CL	L	T3	ND	4	25.6	3.102864
29-Jun	CL	L	T3	ND	20	11.3	3.102864
29-Jun	CL	L	T3	ND	50	7.1	3.102864
29-Jun	CL	R	T1	D	4	13.3	3.102864
29-Jun	CL	R	T1	D	10	6.2	3.102864
29-Jun	CL	R	T1	D	20	4.1	3.102864
29-Jun	CL	R	T1	D	50	9	3.102864
29-Jun	CL	R	1	ND	4	10.3	3.102864
29-Jun	CL	R	1	ND	10	2.5	3.102864
29-Jun	CL	R	1	ND	17	0.6	3.102864
29-Jun	CL	R	2	D	4	8.1	3.102864
29-Jun	CL	R	2	D	10	10.2	3.102864
29-Jun	CL	R	2	D	20	8.2	3.102864
29-Jun	CL	R	2	D	50	6.3	3.102864
29-Jun	CL	R	2	D	75	8	3.102864
29-Jun	CL	R	2	D	95	12.8	3.102864
29-Jun	CL	R	T2	ND	4	11.1	3.102864
29-Jun	CL	R	T2	ND	10	5	3.102864
29-Jun	CL	R	T2	ND	20	0	3.102864
29-Jun	CL	R	T2	ND	50	3.5	3.102864
29-Jun	CL	R	T2	ND	75	6.6	3.102864
29-Jun	CL	R	T3	D	4	10.8	3.102864
29-Jun	CL	R	T3	D	10	9.4	3.102864
29-Jun	CL	R	T3	D	20	12.7	3.102864
29-Jun	CL	R	T3	D	50	9.5	3.102864
29-Jun	CL	R	T3	D	75	11.4	3.102864
29-Jun	CL	R	3	ND	4	7.6	3.102864
29-Jun	CL	R	3	ND	10	4	3.102864
29-Jun	CL	R	3	ND	20	3.6	3.102864
29-Jun	CL	R	3	ND	50	16.6	3.102864
29-Jun	CL	R	3	ND	75	6.6	3.102864
29-Jun	CL	Mos	1	D	4	13.3	3.102864
29-Jun	CL	Mos	1	D	10	11.2	3.102864
29-Jun	CL	Mos	1	D	20	7.3	3.102864

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
29-Jun	CL	Mos	1	D	50	9	3.102864
4-Jul	SW	M	1	D	4	53.8	3.4866072
4-Jul	SW	M	1	D	10	53.2	3.4866072
4-Jul	SW	M	1	D	20	>49.0	3.4866072
4-Jul	SW	M	1	D	50	59	3.4866072
4-Jul	SW	M	1	D	75	54	3.4866072
4-Jul	SW	M	1	ND	4	52	3.4866072
4-Jul	SW	M	1	ND	10	37	3.4866072
4-Jul	SW	M	1	ND	20	36.5	3.4866072
4-Jul	SW	M	1	ND	50	36	3.4866072
4-Jul	SW	M	1	ND	75	39	3.4866072
4-Jul	SW	M	2	D	4	55	3.4866072
4-Jul	SW	M	2	D	10	58.8	3.4866072
4-Jul	SW	M	2	D	20	54	3.4866072
4-Jul	SW	M	2	D	50	55	3.4866072
4-Jul	SW	M	2	D	75	44	3.4866072
4-Jul	SW	M	2	ND	4	51	3.4866072
4-Jul	SW	M	2	ND	10	42	3.4866072
4-Jul	SW	M	2	ND	20	40.5	3.4866072
4-Jul	SW	M	2	ND	50	45.8	3.4866072
4-Jul	SW	M	2	ND	75	42.6	3.4866072
4-Jul	SW	L	1	D	4	51	3.4866072
4-Jul	SW	L	1	D	10	51.7	3.4866072
4-Jul	SW	L	1	D	20	53.5	3.4866072
4-Jul	SW	L	1	D	50	58.4	3.4866072
4-Jul	SW	L	T1	D	4	51.4	3.4866072
4-Jul	SW	L	T1	D	10	42.8	3.4866072
4-Jul	SW	L	T1	D	20	60	3.4866072
4-Jul	SW	L	T1	D	50	63	3.4866072
4-Jul	SW	L	T2	D	4	66.5	3.4866072
4-Jul	SW	L	T2	D	10	55.6	3.4866072
4-Jul	SW	L	T2	D	20	52	3.4866072
4-Jul	SW	L	T2	D	50	53	3.4866072
4-Jul	SW	L	T2	D	75	43.5	3.4866072
4-Jul	SW	L	T2	D	100	57.5	3.4866072
4-Jul	SW	L	T2	D	112	55	3.4866072
4-Jul	SW	L	2	ND	4	36	3.4866072
4-Jul	SW	L	2	ND	12	48.9	3.4866072
4-Jul	SW	L	2	ND	40	50.6	3.4866072
4-Jul	SW	L	3	D	4	51	3.4866072
4-Jul	SW	L	3	D	20	55	3.4866072
4-Jul	SW	L	3	D	50	63	3.4866072
4-Jul	SW	R	T1	D	4	57	3.4866072
4-Jul	SW	R	T1	D	10	53.5	3.4866072
4-Jul	SW	R	T1	D	20	46	3.4866072

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Jul	SW	R	T1	D	50	44.5	3.4866072
4-Jul	SW	R	1	ND	4	49.2	3.4866072
4-Jul	SW	R	1	ND	10	44.5	3.4866072
4-Jul	SW	R	1	ND	20	40	3.4866072
4-Jul	SW	R	1	ND	50	40.8	3.4866072
4-Jul	SW	R	2	D	4	57.2	3.4866072
4-Jul	SW	R	2	D	10	52.2	3.4866072
4-Jul	SW	R	2	D	20	64.5	3.4866072
4-Jul	SW	R	2	D	50	58	3.4866072
4-Jul	SW	R	T2	D	4	60.7	3.4866072
4-Jul	SW	R	T2	D	10	37	3.4866072
4-Jul	SW	R	T2	D	20	48	3.4866072
4-Jul	SW	R	T2	D	50	50.8	3.4866072
4-Jul	SW	R	3	D	4	58	3.4866072
4-Jul	SW	R	3	D	10	44	3.4866072
4-Jul	SW	R	3	D	20	45	3.4866072
4-Jul	SW	R	3	D	37	57	3.4866072
4-Jul	SW	R	T3	ND	4	55.4	3.4866072
4-Jul	SW	R	T3	ND	10	44	3.4866072
4-Jul	SW	R	T3	ND	20	45.2	3.4866072
4-Jul	SW	R	T3	ND	50	45	3.4866072
4-Jul	CL	M	1	D	4	53	3.4866072
4-Jul	CL	M	1	D	10	53.2	3.4866072
4-Jul	CL	M	1	D	20	52.3	3.4866072
4-Jul	CL	M	1	D	50	53.8	3.4866072
4-Jul	CL	M	1	ND	4	50.3	3.4866072
4-Jul	CL	M	1	ND	10	46	3.4866072
4-Jul	CL	M	1	ND	20	43	3.4866072
4-Jul	CL	M	1	ND	50	37.7	3.4866072
4-Jul	CL	M	2	D	4	45.5	3.4866072
4-Jul	CL	M	2	D	10	44.8	3.4866072
4-Jul	CL	M	2	D	20	51	3.4866072
4-Jul	CL	M	2	D	50	51	3.4866072
4-Jul	CL	M	2	ND	4	53	3.4866072
4-Jul	CL	M	2	ND	10	46.8	3.4866072
4-Jul	CL	M	2	ND	20	43.4	3.4866072
4-Jul	CL	L	1	D	4	67.2	3.4866072
4-Jul	CL	L	1	D	10	58	3.4866072
4-Jul	CL	L	1	D	20	61.3	3.4866072
4-Jul	CL	L	1	D	50	61	3.4866072
4-Jul	CL	L	1	D	85	51	3.4866072
4-Jul	CL	L	1	ND	4	61.6	3.4866072
4-Jul	CL	L	1	ND	10	46	3.4866072
4-Jul	CL	L	1	ND	20	37.2	3.4866072
4-Jul	CL	L	1	ND	40	46	3.4866072

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Jul	CL	L	T1	ND	4	60	3.4866072
4-Jul	CL	L	T1	ND	20	47.5	3.4866072
4-Jul	CL	L	T1	ND	50	44.5	3.4866072
4-Jul	CL	L	T2	ND	4	61.5	3.4866072
4-Jul	CL	L	T2	ND	20	49.5	3.4866072
4-Jul	CL	L	T2	ND	50	46	3.4866072
4-Jul	CL	L	T3	ND	4	64	3.4866072
4-Jul	CL	L	T3	ND	20	49.5	3.4866072
4-Jul	CL	L	T3	ND	50	47	3.4866072
4-Jul	CL	R	T1	D	4	60.6	3.4866072
4-Jul	CL	R	T1	D	10	43.7	3.4866072
4-Jul	CL	R	T1	D	20	42.9	3.4866072
4-Jul	CL	R	T1	D	50	47.5	3.4866072
4-Jul	CL	R	1	ND	4	0.7	3.4866072
4-Jul	CL	R	1	ND	10	49.3	3.4866072
4-Jul	CL	R	1	ND	17	43.2	3.4866072
4-Jul	CL	R	2	D	4	56.5	3.4866072
4-Jul	CL	R	2	D	10	48.4	3.4866072
4-Jul	CL	R	2	D	20	46.3	3.4866072
4-Jul	CL	R	2	D	50	35.8	3.4866072
4-Jul	CL	R	2	D	75	37.5	3.4866072
4-Jul	CL	R	2	D	95	53.5	3.4866072
4-Jul	CL	R	T2	ND	4	50.3	3.4866072
4-Jul	CL	R	T2	ND	10	40.3	3.4866072
4-Jul	CL	R	T2	ND	20	39	3.4866072
4-Jul	CL	R	T2	ND	50	43	3.4866072
4-Jul	CL	R	T2	ND	75	47.5	3.4866072
4-Jul	CL	R	T3	D	4	49.5	3.4866072
4-Jul	CL	R	T3	D	10	29	3.4866072
4-Jul	CL	R	T3	D	20	51.6	3.4866072
4-Jul	CL	R	T3	D	50	50.2	3.4866072
4-Jul	CL	R	T3	D	75	53	3.4866072
4-Jul	CL	R	3	ND	4	47	3.4866072
4-Jul	CL	R	3	ND	10	43.3	3.4866072
4-Jul	CL	R	3	ND	20	43.5	3.4866072
4-Jul	CL	R	3	ND	50	55	3.4866072
4-Jul	CL	R	3	ND	75	47	3.4866072
4-Jul	CL	Mos	1	D	4	54	3.4866072
4-Jul	CL	Mos	1	D	10	52	3.4866072
4-Jul	CL	Mos	1	D	20	48.7	3.4866072
4-Jul	CL	Mos	1	D	50	50	3.4866072
30-Jul	SW	M	1	D	4	48.5	3.3290256
30-Jul	SW	M	1	D	10	38.5	3.3290256
30-Jul	SW	M	1	D	20	37.8	3.3290256
30-Jul	SW	M	1	D	50	48.1	3.3290256

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
30-Jul	SW	M	1	D	75	38.9	3.3290256
30-Jul	SW	M	1	ND	4	46.1	3.3290256
30-Jul	SW	M	1	ND	10	30	3.3290256
30-Jul	SW	M	1	ND	20	23.2	3.3290256
30-Jul	SW	M	1	ND	50	20.6	3.3290256
30-Jul	SW	M	1	ND	75	23.2	3.3290256
30-Jul	SW	M	2	D	4	38.3	3.3290256
30-Jul	SW	M	2	D	10	42	3.3290256
30-Jul	SW	M	2	D	20	41.4	3.3290256
30-Jul	SW	M	2	D	50	39	3.3290256
30-Jul	SW	M	2	D	75	29.5	3.3290256
30-Jul	SW	M	2	ND	4	35	3.3290256
30-Jul	SW	M	2	ND	10	26	3.3290256
30-Jul	SW	M	2	ND	20	25.4	3.3290256
30-Jul	SW	M	2	ND	50	29.6	3.3290256
30-Jul	SW	M	2	ND	75	25.5	3.3290256
30-Jul	SW	L	1	D	4	34	3.3290256
30-Jul	SW	L	1	D	10	40.9	3.3290256
30-Jul	SW	L	1	D	20	54.4	3.3290256
30-Jul	SW	L	1	D	50	42.5	3.3290256
30-Jul	SW	L	T1	D	4	34.2	3.3290256
30-Jul	SW	L	T1	D	10	25.6	3.3290256
30-Jul	SW	L	T1	D	20	43.6	3.3290256
30-Jul	SW	L	T1	D	50	45.8	3.3290256
30-Jul	SW	L	T2	D	4	48	3.3290256
30-Jul	SW	L	T2	D	10	37.9	3.3290256
30-Jul	SW	L	T2	D	20	34.4	3.3290256
30-Jul	SW	L	T2	D	50	35.3	3.3290256
30-Jul	SW	L	T2	D	75	41.2	3.3290256
30-Jul	SW	L	T2	D	100	38.9	3.3290256
30-Jul	SW	L	T2	D	112	38.5	3.3290256
30-Jul	SW	L	2	ND	4	29.4	3.3290256
30-Jul	SW	L	2	ND	12	32.1	3.3290256
30-Jul	SW	L	2	ND	40	32.5	3.3290256
30-Jul	SW	L	T3	D	4	32	3.3290256
30-Jul	SW	L	T3	D	20	37.6	3.3290256
30-Jul	SW	L	T3	D	50	44	3.3290256
30-Jul	SW	R	T1	D	4	41.5	3.3290256
30-Jul	SW	R	T1	D	10	24	3.3290256
30-Jul	SW	R	T1	D	20	29.2	3.3290256
30-Jul	SW	R	T1	D	50	29.5	3.3290256
30-Jul	SW	R	1	ND	4	33.7	3.3290256
30-Jul	SW	R	1	ND	10	27.1	3.3290256
30-Jul	SW	R	1	ND	20	24	3.3290256
30-Jul	SW	R	1	ND	50	22.9	3.3290256

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
30-Jul	SW	R	2	D	4	42.1	3.3290256
30-Jul	SW	R	2	D	10	32.2	3.3290256
30-Jul	SW	R	2	D	20	34.9	3.3290256
30-Jul	SW	R	2	D	50	33.3	3.3290256
30-Jul	SW	R	T2	D	4	39.1	3.3290256
30-Jul	SW	R	T2	D	10	35.8	3.3290256
30-Jul	SW	R	T2	D	20	46.9	3.3290256
30-Jul	SW	R	T2	D	50	31	3.3290256
30-Jul	SW	R	3	D	4	31	3.3290256
30-Jul	SW	R	3	D	10	31.5	3.3290256
30-Jul	SW	R	3	D	20	26.5	3.3290256
30-Jul	SW	R	3	D	37	39.5	3.3290256
30-Jul	SW	R	T3	ND	4	35.6	3.3290256
30-Jul	SW	R	T3	ND	10	26.6	3.3290256
30-Jul	SW	R	T3	ND	20	27.3	3.3290256
30-Jul	SW	R	T3	ND	50	25.9	3.3290256
30-Jul	WE	R	T1	ND	4	55.7	3.3290256
30-Jul	WE	R	T1	ND	20	28.8	3.3290256
30-Jul	WE	R	T1	ND	50	32.8	3.3290256
30-Jul	WE	R	T2	D	4	56.4	3.3290256
30-Jul	WE	R	T2	D	20	35	3.3290256
30-Jul	WE	R	T2	D	50	30.8	3.3290256
30-Jul	WE	R	T3	ND	4	40.1	3.3290256
30-Jul	WE	R	T3	ND	20	29.5	3.3290256
30-Jul	WE	R	T3	ND	50	30.7	3.3290256
30-Jul	WE	L	T1	D	4	34.7	3.3290256
30-Jul	WE	L	T1	D	20	30.5	3.3290256
30-Jul	WE	L	T1	D	50	35.3	3.3290256
30-Jul	WE	L	T2	D	4	40.7	3.3290256
30-Jul	WE	L	T2	D	20	30.6	3.3290256
30-Jul	WE	L	T2	D	50	33	3.3290256
30-Jul	WE	L	T3	D	4	43.3	3.3290256
30-Jul	WE	L	T3	D	20	30	3.3290256
30-Jul	WE	L	T3	D	50	30.5	3.3290256
30-Jul	CL	M	1	D	4	37.5	3.3290256
30-Jul	CL	M	1	D	10	37	3.3290256
30-Jul	CL	M	1	D	20	36.3	3.3290256
30-Jul	CL	M	1	D	50	37.9	3.3290256
30-Jul	CL	M	1	ND	4	34.4	3.3290256
30-Jul	CL	M	1	ND	10	29	3.3290256
30-Jul	CL	M	1	ND	20	36.7	3.3290256
30-Jul	CL	M	1	ND	50	29.3	3.3290256
30-Jul	CL	M	2	D	4	29.9	3.3290256
30-Jul	CL	M	2	D	10	29.3	3.3290256
30-Jul	CL	M	2	D	20	34.5	3.3290256

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
30-Jul	CL	M	2	D	50	32.6	3.3290256
30-Jul	CL	M	2	ND	4	35.7	3.3290256
30-Jul	CL	M	2	ND	10	30.5	3.3290256
30-Jul	CL	M	2	ND	20	37.4	3.3290256
30-Jul	CL	L	1	D	4	46	3.3290256
30-Jul	CL	L	1	D	10	40	3.3290256
30-Jul	CL	L	1	D	20	24.5	3.3290256
30-Jul	CL	L	1	D	50	43.7	3.3290256
30-Jul	CL	L	1	D	85	34.2	3.3290256
30-Jul	CL	L	1	ND	4	46.8	3.3290256
30-Jul	CL	L	1	ND	10	30.6	3.3290256
30-Jul	CL	L	1	ND	20	30.4	3.3290256
30-Jul	CL	L	1	ND	40	29.4	3.3290256
30-Jul	CL	L	T1	ND	4	28	3.3290256
30-Jul	CL	L	T1	ND	20	30.5	3.3290256
30-Jul	CL	L	T1	ND	50	45.6	3.3290256
30-Jul	CL	L	T2	ND	4	46.2	3.3290256
30-Jul	CL	L	T2	ND	20	32.9	3.3290256
30-Jul	CL	L	T2	ND	50	38.8	3.3290256
30-Jul	CL	L	T3	ND	4	48.2	3.3290256
30-Jul	CL	L	T3	ND	20	32.9	3.3290256
30-Jul	CL	L	T3	ND	50	29.8	3.3290256
30-Jul	CL	R	T1	D	4	50.6	3.3290256
30-Jul	CL	R	T1	D	10	29	3.3290256
30-Jul	CL	R	T1	D	20	26.2	3.3290256
30-Jul	CL	R	T1	D	50	31.3	3.3290256
30-Jul	CL	R	1	ND	4	33.6	3.3290256
30-Jul	CL	R	1	ND	10	24.1	3.3290256
30-Jul	CL	R	1	ND	17	25.8	3.3290256
30-Jul	CL	R	2	D	4	40.2	3.3290256
30-Jul	CL	R	2	D	10	30.5	3.3290256
30-Jul	CL	R	2	D	20	32.1	3.3290256
30-Jul	CL	R	2	D	50	28.8	3.3290256
30-Jul	CL	R	2	D	75	30.6	3.3290256
30-Jul	CL	R	2	D	95	36.1	3.3290256
30-Jul	CL	R	T2	ND	4	28.6	3.3290256
30-Jul	CL	R	T2	ND	10	24.3	3.3290256
30-Jul	CL	R	T2	ND	20	22.6	3.3290256
30-Jul	CL	R	T2	ND	50	26.5	3.3290256
30-Jul	CL	R	T2	ND	75	30.8	3.3290256
30-Jul	CL	R	T3	D	4	32.5	3.3290256
30-Jul	CL	R	T3	D	10	32.2	3.3290256
30-Jul	CL	R	T3	D	20	35	3.3290256
30-Jul	CL	R	T3	D	50	32.5	3.3290256
30-Jul	CL	R	T3	D	75	40.8	3.3290256

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
30-Jul	CL	R	3	ND	4	29.4	3.3290256
30-Jul	CL	R	3	ND	10	25.9	3.3290256
30-Jul	CL	R	3	ND	20	26.7	3.3290256
30-Jul	CL	R	3	ND	50	39.5	3.3290256
30-Jul	CL	R	3	ND	75	29.9	3.3290256
30-Jul	CL	Mos	1	D	4	37.9	3.3290256
30-Jul	CL	Mos	1	D	10	35.7	3.3290256
30-Jul	CL	Mos	1	D	20	32	3.3290256
30-Jul	CL	Mos	1	D	50	33.1	3.3290256
30-Jul	NE	R	T1	ND	4	40.3	3.3290256
30-Jul	NE	R	T1	ND	20	24.7	3.3290256
30-Jul	NE	R	T1	ND	50	28.8	3.3290256
30-Jul	NE	R	T2	ND	4	30.4	3.3290256
30-Jul	NE	R	T2	ND	20	39.6	3.3290256
30-Jul	NE	R	T2	ND	50	30.4	3.3290256
30-Jul	NE	R	T3	D	4	48	3.3290256
30-Jul	NE	R	T3	D	20	29.7	3.3290256
30-Jul	NE	R	T3	D	50	28.8	3.3290256
30-Jul	NE	L	T1	ND	4	37.8	3.3290256
30-Jul	NE	L	T1	ND	20	23.5	3.3290256
30-Jul	NE	L	T1	ND	50	27.5	3.3290256
30-Jul	NE	L	T2	D	4	44.1	3.3290256
30-Jul	NE	L	T2	D	20	29.8	3.3290256
30-Jul	NE	L	T2	D	50	28	3.3290256
30-Jul	NE	L	T3	D	4	45.5	3.3290256
30-Jul	NE	L	T3	D	20	>42.3	3.3290256
30-Jul	NE	L	T3	D	50	>48.5	3.3290256
3-Aug	WE	R	T1	ND	4	61	3.3957768
3-Aug	WE	R	T1	ND	20	32	3.3957768
3-Aug	WE	R	T1	ND	50	37.3	3.3957768
3-Aug	WE	R	T2	D	4	60.3	3.3957768
3-Aug	WE	R	T2	D	20	39.8	3.3957768
3-Aug	WE	R	T2	D	50	34	3.3957768
3-Aug	WE	R	T3	ND	4	36.5	3.3957768
3-Aug	WE	R	T3	ND	20	34.3	3.3957768
3-Aug	WE	R	T3	ND	50	34	3.3957768
3-Aug	WE	L	T1	D	4	40.2	3.3957768
3-Aug	WE	L	T1	D	20	35.5	3.3957768
3-Aug	WE	L	T1	D	50	40.3	3.3957768
3-Aug	WE	L	T2	D	4	46.1	3.3957768
3-Aug	WE	L	T2	D	20	34.9	3.3957768
3-Aug	WE	L	T2	D	50	39.4	3.3957768
3-Aug	WE	L	T3	D	4	46.8	3.3957768
3-Aug	WE	L	T3	D	20	36	3.3957768
3-Aug	WE	L	T3	D	50	35.6	3.3957768

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
3-Aug	NE	R	T1	ND	4	43.5	3.3957768
3-Aug	NE	R	T1	ND	20	31	3.3957768
3-Aug	NE	R	T1	ND	50	32.7	3.3957768
3-Aug	NE	R	T2	ND	4	35.8	3.3957768
3-Aug	NE	R	T2	ND	20	34.5	3.3957768
3-Aug	NE	R	T2	ND	50	35.4	3.3957768
3-Aug	NE	R	T3	D	4	51.2	3.3957768
3-Aug	NE	R	T3	D	20	44.6	3.3957768
3-Aug	NE	R	T3	D	50	36.1	3.3957768
3-Aug	NE	L	T1	ND	4	43.3	3.3957768
3-Aug	NE	L	T1	ND	20	28.4	3.3957768
3-Aug	NE	L	T1	ND	50	33	3.3957768
3-Aug	NE	L	T2	D	4	49.6	3.3957768
3-Aug	NE	L	T2	D	20	34.6	3.3957768
3-Aug	NE	L	T2	D	50	32.9	3.3957768
3-Aug	NE	L	T3	D	4	50.2	3.3957768
3-Aug	NE	L	T3	D	20	52.2	3.3957768
3-Aug	NE	L	T3	D	50	63.6	3.3957768
4-Aug	SW	M	1	D	4	36.5	3.3186624
4-Aug	SW	M	1	D	10	33	3.3186624
4-Aug	SW	M	1	D	20	34	3.3186624
4-Aug	SW	M	1	D	50	43.5	3.3186624
4-Aug	SW	M	1	D	75	35.7	3.3186624
4-Aug	SW	M	1	ND	4	43.5	3.3186624
4-Aug	SW	M	1	ND	10	25	3.3186624
4-Aug	SW	M	1	ND	20	18.1	3.3186624
4-Aug	SW	M	1	ND	50	17.7	3.3186624
4-Aug	SW	M	1	ND	75	16.4	3.3186624
4-Aug	SW	M	2	D	4	33	3.3186624
4-Aug	SW	M	2	D	10	39	3.3186624
4-Aug	SW	M	2	D	20	37	3.3186624
4-Aug	SW	M	2	D	50	36	3.3186624
4-Aug	SW	M	2	D	75	20.5	3.3186624
4-Aug	SW	M	2	ND	4	31.7	3.3186624
4-Aug	SW	M	2	ND	10	22.5	3.3186624
4-Aug	SW	M	2	ND	20	17.2	3.3186624
4-Aug	SW	M	2	ND	50	26.8	3.3186624
4-Aug	SW	M	2	ND	75	21.4	3.3186624
4-Aug	SW	L	1	D	4	31	3.3186624
4-Aug	SW	L	1	D	10	27.9	3.3186624
4-Aug	SW	L	1	D	20	39.8	3.3186624
4-Aug	SW	L	1	D	50	21.9	3.3186624
4-Aug	SW	L	T1	D	4	31	3.3186624
4-Aug	SW	L	T1	D	10	37.5	3.3186624
4-Aug	SW	L	T1	D	20	52.2	3.3186624

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Aug	SW	L	T1	D	50	38.3	3.3186624
4-Aug	SW	L	T2	D	4	45.5	3.3186624
4-Aug	SW	L	T2	D	10	35.7	3.3186624
4-Aug	SW	L	T2	D	20	30	3.3186624
4-Aug	SW	L	T2	D	50	30	3.3186624
4-Aug	SW	L	T2	D	75	38	3.3186624
4-Aug	SW	L	T2	D	100	38.2	3.3186624
4-Aug	SW	L	T2	D	112	36	3.3186624
4-Aug	SW	L	2	ND	4	24	3.3186624
4-Aug	SW	L	2	ND	12	28.7	3.3186624
4-Aug	SW	L	2	ND	40	28.4	3.3186624
4-Aug	SW	L	T3	D	4	29.5	3.3186624
4-Aug	SW	L	T3	D	20	34	3.3186624
4-Aug	SW	L	T3	D	50	40	3.3186624
4-Aug	SW	R	T1	D	4	29	3.3186624
4-Aug	SW	R	T1	D	10	21	3.3186624
4-Aug	SW	R	T1	D	20	23.6	3.3186624
4-Aug	SW	R	T1	D	50	25.2	3.3186624
4-Aug	SW	R	1	ND	4	30	3.3186624
4-Aug	SW	R	1	ND	10	24.5	3.3186624
4-Aug	SW	R	1	ND	20	20	3.3186624
4-Aug	SW	R	1	ND	50	38.8	3.3186624
4-Aug	SW	R	2	D	4	37.2	3.3186624
4-Aug	SW	R	2	D	10	33.8	3.3186624
4-Aug	SW	R	2	D	20	43.8	3.3186624
4-Aug	SW	R	2	D	50	26.5	3.3186624
4-Aug	SW	R	T2	ND	4	40.5	3.3186624
4-Aug	SW	R	T2	ND	10	28.7	3.3186624
4-Aug	SW	R	T2	ND	20	32	3.3186624
4-Aug	SW	R	T2	ND	50	30	3.3186624
4-Aug	SW	R	3	D	4	29	3.3186624
4-Aug	SW	R	3	D	10	27.5	3.3186624
4-Aug	SW	R	3	D	20	28	3.3186624
4-Aug	SW	R	3	D	37	37	3.3186624
4-Aug	SW	R	T3	ND	4	32.7	3.3186624
4-Aug	SW	R	T3	ND	10	23	3.3186624
4-Aug	SW	R	T3	ND	20	24.5	3.3186624
4-Aug	SW	R	T3	ND	50	24	3.33186624
4-Aug	WE	R	T1	ND	4	55.2	3.3186624
4-Aug	WE	R	T1	ND	20	24.5	3.3186624
4-Aug	WE	R	T1	ND	50	29	3.3186624
4-Aug	WE	R	T2	D	4	52.9	3.3186624
4-Aug	WE	R	T2	D	20	33	3.3186624
4-Aug	WE	R	T2	D	50	24	3.3186624
4-Aug	WE	R	T3	ND	4	39	3.3186624

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Aug	WE	R	T3	ND	20	27.1	3.3186624
4-Aug	WE	R	T3	ND	50	26	3.3186624
4-Aug	WE	L	T1	D	4	34.7	3.3186624
4-Aug	WE	L	T1	D	20	35.5	3.3186624
4-Aug	WE	L	T1	D	50	40	3.3186624
4-Aug	WE	L	T2	D	4	38.4	3.3186624
4-Aug	WE	L	T2	D	20	29.7	3.3186624
4-Aug	WE	L	T2	D	50	39.2	3.3186624
4-Aug	WE	L	T3	D	4	39	3.3186624
4-Aug	WE	L	T3	D	20	27.6	3.3186624
4-Aug	WE	L	T3	D	50	28	3.3186624
4-Aug	CL	M	1	D	4	31.4	3.3186624
4-Aug	CL	M	1	D	10	33	3.3186624
4-Aug	CL	M	1	D	20	32	3.3186624
4-Aug	CL	M	1	D	50	33.9	3.3186624
4-Aug	CL	M	1	ND	4	31	3.3186624
4-Aug	CL	M	1	ND	10	26.5	3.3186624
4-Aug	CL	M	1	ND	20	23.5	3.3186624
4-Aug	CL	M	1	ND	50	20	3.3186624
4-Aug	CL	M	2	D	4	26	3.3186624
4-Aug	CL	M	2	D	10	20.4	3.3186624
4-Aug	CL	M	2	D	20	30	3.3186624
4-Aug	CL	M	2	D	50	30.1	3.3186624
4-Aug	CL	M	2	ND	4	33	3.3186624
4-Aug	CL	M	2	ND	10	27.5	3.3186624
4-Aug	CL	M	2	ND	20	24.5	3.3186624
4-Aug	CL	L	1	D	4	47.5	3.3186624
4-Aug	CL	L	1	D	10	37.7	3.3186624
4-Aug	CL	L	1	D	20	44	3.3186624
4-Aug	CL	L	1	D	50	40	3.3186624
4-Aug	CL	L	1	D	85	29.5	3.3186624
4-Aug	CL	L	1	ND	4	43.2	3.3186624
4-Aug	CL	L	1	ND	10	26.5	3.3186624
4-Aug	CL	L	1	ND	20	25.4	3.3186624
4-Aug	CL	L	1	ND	40	21.2	3.3186624
4-Aug	CL	L	T1	ND	4	44	3.3186624
4-Aug	CL	L	T1	ND	20	26	3.3186624
4-Aug	CL	L	T1	ND	50	24.1	3.3186624
4-Aug	CL	L	T2	ND	4	41.7	3.3186624
4-Aug	CL	L	T2	ND	20	29.5	3.3186624
4-Aug	CL	L	T2	ND	50	25.9	3.3186624
4-Aug	CL	L	T3	ND	4	45	3.3186624
4-Aug	CL	L	T3	ND	20	29.5	3.3186624
4-Aug	CL	L	T3	ND	50	24.5	3.3186624
4-Aug	CL	R	T1	D	4	40.9	3.3186624

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Aug	CL	R	T1	D	10	24	3.3186624
4-Aug	CL	R	T1	D	20	28	3.3186624
4-Aug	CL	R	T1	D	50	28	3.3186624
4-Aug	CL	R	1	ND	4	31.5	3.3186624
4-Aug	CL	R	1	ND	10	21	3.3186624
4-Aug	CL	R	1	ND	17	19.9	3.3186624
4-Aug	CL	R	2	D	4	37	3.3186624
4-Aug	CL	R	2	D	10	28	3.3186624
4-Aug	CL	R	2	D	20	27	3.3186624
4-Aug	CL	R	2	D	50	25.5	3.3186624
4-Aug	CL	R	2	D	75	27.5	3.3186624
4-Aug	CL	R	2	D	95	33	3.3186624
4-Aug	CL	R	T2	ND	4	39	3.3186624
4-Aug	CL	R	T2	ND	10	18.5	3.3186624
4-Aug	CL	R	T2	ND	20	19	3.3186624
4-Aug	CL	R	T2	ND	50	23.3	3.3186624
4-Aug	CL	R	T2	ND	75	27	3.3186624
4-Aug	CL	R	T3	D	4	29	3.3186624
4-Aug	CL	R	T3	D	10	27.5	3.3186624
4-Aug	CL	R	T3	D	20	27	3.3186624
4-Aug	CL	R	T3	D	50	29.5	3.3186624
4-Aug	CL	R	T3	D	75	38.2	3.3186624
4-Aug	CL	R	3	ND	4	26.5	3.3186624
4-Aug	CL	R	3	ND	10	22.4	3.3186624
4-Aug	CL	R	3	ND	20	23	3.3186624
4-Aug	CL	R	3	ND	50	25.6	3.3186624
4-Aug	CL	R	3	ND	75	27	3.3186624
4-Aug	CL	Mos	1	D	4	33.5	3.3186624
4-Aug	CL	Mos	1	D	10	31	3.3186624
4-Aug	CL	Mos	1	D	20	27.8	3.3186624
4-Aug	CL	Mos	1	D	50	17.5	3.3186624
4-Aug	NE	R	T1	ND	4	35.2	3.3186624
4-Aug	NE	R	T1	ND	20	22	3.3186624
4-Aug	NE	R	T1	ND	50	24.5	3.3186624
4-Aug	NE	R	T2	ND	4	27.1	3.3186624
4-Aug	NE	R	T2	ND	20	26.2	3.3186624
4-Aug	NE	R	T2	ND	50	29	3.3186624
4-Aug	NE	R	T3	D	4	44	3.3186624
4-Aug	NE	R	T3	D	20	44	3.3186624
4-Aug	NE	R	T3	D	50	27.5	3.3186624
4-Aug	NE	L	T1	ND	4	35.2	3.3186624
4-Aug	NE	L	T1	ND	20	21	3.3186624
4-Aug	NE	L	T1	ND	50	25	3.3186624
4-Aug	NE	L	T2	D	4	41.2	3.3186624
4-Aug	NE	L	T2	D	20	26.5	3.3186624

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
4-Aug	NE	L	T2	D	50	25.8	3.3186624
4-Aug	NE	L	T3	D	4	42	3.3186624
4-Aug	NE	L	T3	D	20	45	3.3186624
4-Aug	NE	L	T3	D	50	57.5	3.3186624

APPENDIX 4c. Tide stick readings at stations along transects in 2005. The height to water mark is the measurement from the marsh platform surface to the water mark observed on the tide stick. The tide height was recorded from the tide gauge at Ipswich Bay Yacht Club.

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
24-Jun	SW	M	1	D	4	N/A	3.53568
24-Jun	SW	M	1	D	10	53	3.53568
24-Jun	SW	M	1	D	20	53.6	3.53568
24-Jun	SW	M	1	D	50	53	3.53568
24-Jun	SW	M	1	D	75	55.3	3.53568
24-Jun	SW	M	1	ND	4	61.3	3.53568
24-Jun	SW	M	1	ND	10	45.5	3.53568
24-Jun	SW	M	1	ND	20	39.8	3.53568
24-Jun	SW	M	1	ND	50	34.5	3.53568
24-Jun	SW	M	2	D	4	54.8	3.53568
24-Jun	SW	M	2	D	10	59.1	3.53568
24-Jun	SW	M	2	D	20	54.7	3.53568
24-Jun	SW	M	2	D	50	57.1	3.53568
24-Jun	SW	M	2	D	75	N/A	3.53568
24-Jun	SW	M	2	ND	4	52.2	3.53568
24-Jun	SW	M	2	ND	10	42.4	3.53568
24-Jun	SW	M	2	ND	20	41.2	3.53568
24-Jun	SW	M	2	ND	50	45.6	3.53568
24-Jun	SW	L	1	D	4	N/A	3.53568
24-Jun	SW	L	1	D	10	N/A	3.53568
24-Jun	SW	L	1	D	20	N/A	3.53568
24-Jun	SW	L	1	D	50	N/A	3.53568
24-Jun	SW	L	T1	D	4	N/A	3.53568
24-Jun	SW	L	T1	D	10	N/A	3.53568
24-Jun	SW	L	T1	D	20	N/A	3.53568
24-Jun	SW	L	T1	D	50	N/A	3.53568
24-Jun	SW	L	T2	D	4	66.1	3.53568
24-Jun	SW	L	T2	D	10	57.4	3.53568
24-Jun	SW	L	T2	D	20	52.7	3.53568
24-Jun	SW	L	T2	D	50	52.3	3.53568
24-Jun	SW	L	2	ND	4	46.9	3.53568
24-Jun	SW	L	2	ND	10	48.4	3.53568
24-Jun	SW	L	2	ND	20	50.9	3.53568
24-Jun	SW	L	2	ND	37	49	3.53568
24-Jun	SW	L	T3	D	4	53	3.53568
24-Jun	SW	L	T3	D	20	54.5	3.53568
24-Jun	SW	L	T3	D	50	61.2	3.53568
24-Jun	SW	R	T1	D	4	47.2	3.53568

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
24-Jun	SW	R	T1	D	10	41.3	3.53568
24-Jun	SW	R	T1	D	20	46.8	3.53568
24-Jun	SW	R	T1	D	50	45.5	3.53568
24-Jun	SW	R	T1	D	80	N/A	3.53568
24-Jun	SW	R	1	ND	4	49.5	3.53568
24-Jun	SW	R	1	ND	10	43.6	3.53568
24-Jun	SW	R	1	ND	20	40.7	3.53568
24-Jun	SW	R	1	ND	50	40.1	3.53568
24-Jun	SW	R	2	D	4	47.8	3.53568
24-Jun	SW	R	2	D	10	53.2	3.53568
24-Jun	SW	R	2	D	20	54	3.53568
24-Jun	SW	R	2	D	50	48.5	3.53568
24-Jun	SW	R	T2	D	4	49.4	3.53568
24-Jun	SW	R	T2	D	10	48.5	3.53568
24-Jun	SW	R	T2	D	20	50.9	3.53568
24-Jun	SW	R	T2	D	50	49.6	3.53568
24-Jun	SW	R	3	D	4	49.9	3.53568
24-Jun	SW	R	3	D	10	49.3	3.53568
24-Jun	SW	R	3	D	20	43.2	3.53568
24-Jun	SW	R	3	D	50	57.6	3.53568
24-Jun	SW	R	T3	ND	4	52.8	3.53568
24-Jun	SW	R	T3	ND	10	45	3.53568
24-Jun	SW	R	T3	ND	20	45.2	3.53568
24-Jun	SW	R	T3	ND	50	44.9	3.53568
24-Jun	WE	L	T1	D	4	>59.5	3.53568
24-Jun	WE	L	T1	D	20	47.2	3.53568
24-Jun	WE	L	T1	D	50	52.7	3.53568
24-Jun	WE	L	T2	D	4	>61.0	3.53568
24-Jun	WE	L	T2	D	20	49.1	3.53568
24-Jun	WE	L	T2	D	50	50.2	3.53568
24-Jun	WE	L	T3	D	4	62.1	3.53568
24-Jun	WE	L	T3	D	20	49.4	3.53568
24-Jun	WE	L	T3	D	50	48.6	3.53568
24-Jun	WE	R	T1	ND	4	72.3	3.53568
24-Jun	WE	R	T1	ND	20	44.3	3.53568
24-Jun	WE	R	T1	ND	50	48.7	3.53568
24-Jun	WE	R	T2	D	4	>72.5	3.53568
24-Jun	WE	R	T2	D	20	52.6	3.53568
24-Jun	WE	R	T2	D	50	47.6	3.53568
24-Jun	WE	R	T3	ND	4	45.2	3.53568
24-Jun	WE	R	T3	ND	20	44	3.53568
24-Jun	WE	R	T3	ND	50	56.1	3.53568
24-Jun	CL	L	T1	ND	4	44	3.53568
24-Jun	CL	L	T1	ND	20	64.1	3.53568
24-Jun	CL	L	T1	ND	50	48.8	3.53568

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
24-Jun	CL	L	T2	ND	4	63.1	3.53568
24-Jun	CL	L	T2	ND	20	49.5	3.53568
24-Jun	CL	L	T2	ND	50	47.1	3.53568
24-Jun	CL	L	T3	ND	4	>71.5	3.53568
24-Jun	CL	L	T3	ND	20	51.7	3.53568
24-Jun	CL	L	T3	ND	50	47.5	3.53568
24-Jun	CL	R	T1	D	4	61.5	3.53568
24-Jun	CL	R	T1	D	20	43.7	3.53568
24-Jun	CL	R	T1	D	50	50.3	3.53568
24-Jun	CL	R	T2	ND	4	51	3.53568
24-Jun	CL	R	T2	ND	20	39.2	3.53568
24-Jun	CL	R	T2	ND	50	44.8	3.53568
24-Jun	CL	R	T3	D	4	49.3	3.53568
24-Jun	CL	R	T3	D	20	52.6	3.53568
24-Jun	CL	R	T3	D	50	49.7	3.53568
24-Jun	NE	L	T1	ND	4	64.2	3.53568
24-Jun	NE	L	T1	ND	20	40.3	3.53568
24-Jun	NE	L	T1	ND	50	44.1	3.53568
24-Jun	NE	L	T2	D	4	60.2	3.53568
24-Jun	NE	L	T2	D	20	47.2	3.53568
24-Jun	NE	L	T2	D	50	45	3.53568
24-Jun	NE	L	T3	D	4	62.8	3.53568
24-Jun	NE	L	T3	D	20	64.2	3.53568
24-Jun	NE	L	T3	D	50	75.4	3.53568
24-Jun	NE	R	T1	ND	4	49.5	3.53568
24-Jun	NE	R	T1	ND	20	42.5	3.53568
24-Jun	NE	R	T1	ND	50	47	3.53568
24-Jun	NE	R	T2	ND	4	48	3.53568
24-Jun	NE	R	T2	ND	20	46.9	3.53568
24-Jun	NE	R	T2	ND	50	49	3.53568
24-Jun	NE	R	T3	D	4	64.8	3.53568
24-Jun	NE	R	T3	D	20	56.2	3.53568
24-Jun	NE	R	T3	D	50	48.3	3.53568
25-Jun	SW	M	1	D	4	N/A	3.5052
25-Jun	SW	M	1	D	10	45.5	3.5052
25-Jun	SW	M	1	D	20	45	3.5052
25-Jun	SW	M	1	D	50	63.4	3.5052
25-Jun	SW	M	1	D	75	55.5	3.5052
25-Jun	SW	M	1	ND	4	>56.4	3.5052
25-Jun	SW	M	1	ND	10	45.8	3.5052
25-Jun	SW	M	1	ND	20	40.7	3.5052
25-Jun	SW	M	1	ND	50	28.4	3.5052
25-Jun	SW	M	2	D	4	54.9	3.5052
25-Jun	SW	M	2	D	10	57.8	3.5052
25-Jun	SW	M	2	D	20	56.8	3.5052

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
25-Jun	SW	M	2	D	50	54.3	3.5052
25-Jun	SW	M	2	D	75	N/A	3.5052
25-Jun	SW	M	2	ND	4	43	3.5052
25-Jun	SW	M	2	ND	10	32.1	3.5052
25-Jun	SW	M	2	ND	20	32.2	3.5052
25-Jun	SW	M	2	ND	50	45.1	3.5052
25-Jun	SW	L	1	D	4	42.5	3.5052
25-Jun	SW	L	1	D	10	48.7	3.5052
25-Jun	SW	L	1	D	20	63.6	3.5052
25-Jun	SW	L	1	D	50	51	3.5052
25-Jun	SW	L	T1	D	4	40.4	3.5052
25-Jun	SW	L	T1	D	10	31.4	3.5052
25-Jun	SW	L	T1	D	20	50.3	3.5052
25-Jun	SW	L	T1	D	50	53.6	3.5052
25-Jun	SW	L	T2	D	4	57.4	3.5052
25-Jun	SW	L	T2	D	10	47.9	3.5052
25-Jun	SW	L	T2	D	20	45	3.5052
25-Jun	SW	L	T2	D	50	51.9	3.5052
25-Jun	SW	L	2	ND	4	38.5	3.5052
25-Jun	SW	L	2	ND	10	40.3	3.5052
25-Jun	SW	L	2	ND	20	44	3.5052
25-Jun	SW	L	2	ND	37	40.3	3.5052
25-Jun	SW	L	T3	D	4	45	3.5052
25-Jun	SW	L	T3	D	20	45.8	3.5052
25-Jun	SW	L	T3	D	50	53.3	3.5052
25-Jun	SW	R	T1	D	4	43.5	3.5052
25-Jun	SW	R	T1	D	10	41.7	3.5052
25-Jun	SW	R	T1	D	20	47.3	3.5052
25-Jun	SW	R	T1	D	50	46	3.5052
25-Jun	SW	R	T1	D	80	N/A	3.5052
25-Jun	SW	R	1	ND	4	48.3	3.5052
25-Jun	SW	R	1	ND	10	43.6	3.5052
25-Jun	SW	R	1	ND	20	41	3.5052
25-Jun	SW	R	1	ND	50	40.1	3.5052
25-Jun	SW	R	2	D	4	57.4	3.5052
25-Jun	SW	R	2	D	10	53.2	3.5052
25-Jun	SW	R	2	D	20	57.9	3.5052
25-Jun	SW	R	2	D	50	49.4	3.5052
25-Jun	SW	R	T2	D	4	59.7	3.5052
25-Jun	SW	R	T2	D	10	49.3	3.5052
25-Jun	SW	R	T2	D	20	49.8	3.5052
25-Jun	SW	R	T2	D	50	49.9	3.5052
25-Jun	SW	R	3	D	4	49.7	3.5052
25-Jun	SW	R	3	D	10	49.4	3.5052
25-Jun	SW	R	3	D	20	45.5	3.5052

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
25-Jun	SW	R	3	D	50	57.5	3.5052
25-Jun	SW	R	T3	ND	4	52.1	3.5052
25-Jun	SW	R	T3	ND	10	45.3	3.5052
25-Jun	SW	R	T3	ND	20	45.8	3.5052
25-Jun	SW	R	T3	ND	50	44.2	3.5052
21-Jul	SW	M	1	D	4	N/A	3.544519
21-Jul	SW	M	1	D	10	N/A	3.544519
21-Jul	SW	M	1	D	20	N/A	3.544519
21-Jul	SW	M	1	D	50	N/A	3.544519
21-Jul	SW	M	1	D	75	N/A	3.544519
21-Jul	SW	M	1	ND	4	N/A	3.544519
21-Jul	SW	M	1	ND	10	N/A	3.544519
21-Jul	SW	M	1	ND	20	N/A	3.544519
21-Jul	SW	M	1	ND	50	N/A	3.544519
21-Jul	SW	M	2	D	4	N/A	3.544519
21-Jul	SW	M	2	D	10	N/A	3.544519
21-Jul	SW	M	2	D	20	N/A	3.544519
21-Jul	SW	M	2	D	50	N/A	3.544519
21-Jul	SW	M	2	D	75	N/A	3.544519
21-Jul	SW	M	2	ND	4	58.3	3.544519
21-Jul	SW	M	2	ND	10	47.5	3.544519
21-Jul	SW	M	2	ND	20	47.9	3.544519
21-Jul	SW	M	2	ND	50	51.3	3.544519
21-Jul	SW	L	1	D	4	57.9	3.544519
21-Jul	SW	L	1	D	10	>56.5	3.544519
21-Jul	SW	L	1	D	20	>70.1	3.544519
21-Jul	SW	L	1	D	50	53.2	3.544519
21-Jul	SW	L	T1	D	4	56.7	3.544519
21-Jul	SW	L	T1	D	10	51	3.544519
21-Jul	SW	L	T1	D	20	67	3.544519
21-Jul	SW	L	T1	D	50	>71.5	3.544519
21-Jul	SW	L	T2	D	4	>77.1	3.544519
21-Jul	SW	L	T2	D	10	62.8	3.544519
21-Jul	SW	L	T2	D	20	59.2	3.544519
21-Jul	SW	L	T2	D	50	57.4	3.544519
21-Jul	SW	L	2	ND	4	53.1	3.544519
21-Jul	SW	L	2	ND	10	57	3.544519
21-Jul	SW	L	2	ND	20	59.6	3.544519
21-Jul	SW	L	2	ND	37	54.9	3.544519
21-Jul	SW	L	T3	D	4	60.5	3.544519
21-Jul	SW	L	T3	D	20	61.4	3.544519
21-Jul	SW	L	T3	D	50	>66.0	3.544519
21-Jul	SW	R	T1	D	4	54.8	3.544519
21-Jul	SW	R	T1	D	10	57.6	3.544519
21-Jul	SW	R	T1	D	20	52.7	3.544519

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
21-Jul	SW	R	T1	D	50	53.6	3.544519
21-Jul	SW	R	T1	D	80	64.3	3.544519
21-Jul	SW	R	1	ND	4	55.6	3.544519
21-Jul	SW	R	1	ND	10	51	3.544519
21-Jul	SW	R	1	ND	20	48	3.544519
21-Jul	SW	R	1	ND	50	46.2	3.544519
21-Jul	SW	R	2	D	4	63.9	3.544519
21-Jul	SW	R	2	D	10	59.7	3.544519
21-Jul	SW	R	2	D	20	71.5	3.544519
21-Jul	SW	R	2	D	50	55.1	3.544519
21-Jul	SW	R	T2	D	4	66.7	3.544519
21-Jul	SW	R	T2	D	10	56.4	3.544519
21-Jul	SW	R	T2	D	20	55.3	3.544519
21-Jul	SW	R	T2	D	50	55.7	3.544519
21-Jul	SW	R	3	D	4	56.1	3.544519
21-Jul	SW	R	3	D	10	54.8	3.544519
21-Jul	SW	R	3	D	20	52.7	3.544519
21-Jul	SW	R	3	D	50	64	3.544519
21-Jul	SW	R	T3	ND	4	58.7	3.544519
21-Jul	SW	R	T3	ND	10	50.5	3.544519
21-Jul	SW	R	T3	ND	20	51.8	3.544519
21-Jul	SW	R	T3	ND	50	51.1	3.544519
21-Jul	WE	L	T1	D	4	>64.0	3.544519
21-Jul	WE	L	T1	D	20	55	3.544519
21-Jul	WE	L	T1	D	50	>60.0	3.544519
21-Jul	WE	L	T2	D	4	63.5	3.544519
21-Jul	WE	L	T2	D	20	55.5	3.544519
21-Jul	WE	L	T2	D	50	58.7	3.544519
21-Jul	WE	L	T3	D	4	68	3.544519
21-Jul	WE	L	T3	D	20	56	3.544519
21-Jul	WE	L	T3	D	50	55.6	3.544519
21-Jul	WE	R	T1	ND	4	>76.1	3.544519
21-Jul	WE	R	T1	ND	20	51.6	3.544519
21-Jul	WE	R	T1	ND	50	56.4	3.544519
21-Jul	WE	R	T2	D	4	>76.5	3.544519
21-Jul	WE	R	T2	D	20	58.7	3.544519
21-Jul	WE	R	T2	D	50	54.5	3.544519
21-Jul	WE	R	T3	ND	4	63.5	3.544519
21-Jul	WE	R	T3	ND	20	50.4	3.544519
21-Jul	WE	R	T3	ND	50	51.3	3.544519
19-Jul	CL	L	T1	ND	4	45.1	3.32232
19-Jul	CL	L	T1	ND	20	29.7	3.32232
19-Jul	CL	L	T1	ND	50	26.9	3.32232
19-Jul	CL	L	T2	ND	4	45.6	3.32232
19-Jul	CL	L	T2	ND	20	31	3.32232

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
19-Jul	CL	L	T2	ND	50	28.7	3.32232
19-Jul	CL	L	T3	ND	4	49.1	3.32232
19-Jul	CL	L	T3	ND	20	32.7	3.32232
19-Jul	CL	L	T3	ND	50	28.8	3.32232
19-Jul	CL	R	T1	D	4	45.4	3.32232
19-Jul	CL	R	T1	D	20	24.4	3.32232
19-Jul	CL	R	T1	D	50	28.3	3.32232
19-Jul	CL	R	T2	ND	4	32.8	3.32232
19-Jul	CL	R	T2	ND	20	21.2	3.32232
19-Jul	CL	R	T2	ND	50	25.5	3.32232
19-Jul	CL	R	T3	D	4	31.5	3.32232
19-Jul	CL	R	T3	D	20	34.1	3.32232
19-Jul	CL	R	T3	D	50	29.6	3.32232
21-Jul	NE	L	T1	ND	4	>67.0	3.544519
21-Jul	NE	L	T1	ND	20	48.3	3.544519
21-Jul	NE	L	T1	ND	50	40.5	3.544519
21-Jul	NE	L	T2	D	4	>59.5	3.544519
21-Jul	NE	L	T2	D	20	53.4	3.544519
21-Jul	NE	L	T2	D	50	53.3	3.544519
21-Jul	NE	L	T3	D	4	67.9	3.544519
21-Jul	NE	L	T3	D	20	70	3.544519
21-Jul	NE	L	T3	D	50	73.5	3.544519
21-Jul	NE	R	T1	ND	4	63.4	3.544519
21-Jul	NE	R	T1	ND	20	51	3.544519
21-Jul	NE	R	T1	ND	50	53.1	3.544519
21-Jul	NE	R	T2	ND	4	54.5	3.544519
21-Jul	NE	R	T2	ND	20	52	3.544519
21-Jul	NE	R	T2	ND	50	54.9	3.544519
21-Jul	NE	R	T3	D	4	70.8	3.544519
21-Jul	NE	R	T3	D	20	61.7	3.544519
21-Jul	NE	R	T3	D	50	54.6	3.544519
16-Aug	SW	M	1	D	4	N/A	3.216554
16-Aug	SW	M	1	D	10	N/A	3.216554
16-Aug	SW	M	1	D	20	N/A	3.216554
16-Aug	SW	M	1	D	50	N/A	3.216554
16-Aug	SW	M	1	D	75	N/A	3.216554
16-Aug	SW	M	1	ND	4	N/A	3.216554
16-Aug	SW	M	1	ND	10	N/A	3.216554
16-Aug	SW	M	1	ND	20	N/A	3.216554
16-Aug	SW	M	1	ND	50	N/A	3.216554
16-Aug	SW	M	2	D	4	28.1	3.216554
16-Aug	SW	M	2	D	10	29.1	3.216554
16-Aug	SW	M	2	D	20	29.6	3.216554
16-Aug	SW	M	2	D	50	27.6	3.216554
16-Aug	SW	M	2	D	75	N/A	3.216554

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
16-Aug	SW	M	2	ND	4	23	3.216554
16-Aug	SW	M	2	ND	10	14.7	3.216554
16-Aug	SW	M	2	ND	20	14.5	3.216554
16-Aug	SW	M	2	ND	50	18.5	3.216554
16-Aug	SW	L	1	D	4	23.5	3.216554
16-Aug	SW	L	1	D	10	30.8	3.216554
16-Aug	SW	L	1	D	20	43.7	3.216554
16-Aug	SW	L	1	D	50	31	3.216554
16-Aug	SW	L	T1	D	4	23.6	3.216554
16-Aug	SW	L	T1	D	10	15.3	3.216554
16-Aug	SW	L	T1	D	20	31.5	3.216554
16-Aug	SW	L	T1	D	50	34.4	3.216554
16-Aug	SW	L	T2	D	4	39.2	3.216554
16-Aug	SW	L	T2	D	10	28	3.216554
16-Aug	SW	L	T2	D	20	25.2	3.216554
16-Aug	SW	L	T2	D	50	24	3.216554
16-Aug	SW	L	2	ND	4	18.4	3.216554
16-Aug	SW	L	2	ND	10	21.2	3.216554
16-Aug	SW	L	2	ND	20	N/A	3.216554
16-Aug	SW	L	2	ND	37	20	3.216554
16-Aug	SW	L	T3	D	4	25.1	3.216554
16-Aug	SW	L	T3	D	20	25.8	3.216554
16-Aug	SW	L	T3	D	50	33	3.216554
16-Aug	SW	R	T1	D	4	20.2	3.216554
16-Aug	SW	R	T1	D	10	15	3.216554
16-Aug	SW	R	T1	D	20	17.7	3.216554
16-Aug	SW	R	T1	D	50	17.5	3.216554
16-Aug	SW	R	T1	D	80	28.7	3.216554
16-Aug	SW	R	1	ND	4	22.4	3.216554
16-Aug	SW	R	1	ND	10	18.1	3.216554
16-Aug	SW	R	1	ND	20	13.5	3.216554
16-Aug	SW	R	1	ND	50	N/A	3.216554
16-Aug	SW	R	2	D	4	30.3	3.216554
16-Aug	SW	R	2	D	10	25.2	3.216554
16-Aug	SW	R	2	D	20	36.5	3.216554
16-Aug	SW	R	2	D	50	21.1	3.216554
16-Aug	SW	R	T2	D	4	32.3	3.216554
16-Aug	SW	R	T2	D	10	21.5	3.216554
16-Aug	SW	R	T2	D	20	22.5	3.216554
16-Aug	SW	R	T2	D	50	22	3.216554
16-Aug	SW	R	3	D	4	21.8	3.216554
16-Aug	SW	R	3	D	10	20	3.216554
16-Aug	SW	R	3	D	20	16.2	3.216554
16-Aug	SW	R	3	D	50	29.5	3.216554
16-Aug	SW	R	T3	ND	4	31	3.216554

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
16-Aug	SW	R	T3	ND	10	16.6	3.216554
16-Aug	SW	R	T3	ND	20	17.7	3.216554
16-Aug	SW	R	T3	ND	50	16.2	3.216554
16-Aug	WE	L	T1	D	4	30.5	3.216554
16-Aug	WE	L	T1	D	20	18.9	3.216554
16-Aug	WE	L	T1	D	50	23.8	3.216554
16-Aug	WE	L	T2	D	4	30.8	3.216554
16-Aug	WE	L	T2	D	20	20.1	3.216554
16-Aug	WE	L	T2	D	50	23	3.216554
16-Aug	WE	L	T3	D	4	31.7	3.216554
16-Aug	WE	L	T3	D	20	19	3.216554
16-Aug	WE	L	T3	D	50	18.6	3.216554
16-Aug	WE	R	T1	ND	4	48.2	3.216554
16-Aug	WE	R	T1	ND	20	16.5	3.216554
16-Aug	WE	R	T1	ND	50	22.1	3.216554
16-Aug	WE	R	T2	D	4	47.4	3.216554
16-Aug	WE	R	T2	D	20	24	3.216554
16-Aug	WE	R	T2	D	50	19.2	3.216554
16-Aug	WE	R	T3	ND	4	32	3.216554
16-Aug	WE	R	T3	ND	20	16.8	3.216554
16-Aug	WE	R	T3	ND	50	13.5	3.216554
16-Aug	CL	L	T1	ND	4	34.6	3.216554
16-Aug	CL	L	T1	ND	20	19.1	3.216554
16-Aug	CL	L	T1	ND	50	17	3.216554
16-Aug	CL	L	T2	ND	4	35.5	3.216554
16-Aug	CL	L	T2	ND	20	22.1	3.216554
16-Aug	CL	L	T2	ND	50	19.2	3.216554
16-Aug	CL	L	T3	ND	4	36.6	3.216554
16-Aug	CL	L	T3	ND	20	20.9	3.216554
16-Aug	CL	L	T3	ND	50	17.5	3.216554
16-Aug	CL	R	T1	D	4	35	3.216554
16-Aug	CL	R	T1	D	20	15.9	3.216554
16-Aug	CL	R	T1	D	50	19.8	3.216554
16-Aug	CL	R	T2	ND	4	22.4	3.216554
16-Aug	CL	R	T2	ND	20	11.3	3.216554
16-Aug	CL	R	T2	ND	50	15.5	3.216554
16-Aug	CL	R	T3	D	4	21.2	3.216554
16-Aug	CL	R	T3	D	20	22.5	3.216554
16-Aug	CL	R	T3	D	50	20.5	3.216554
16-Aug	NE	L	T1	ND	4	33.7	3.216554
16-Aug	NE	L	T1	ND	20	11.9	3.216554
16-Aug	NE	L	T1	ND	50	15.5	3.216554
16-Aug	NE	L	T2	D	4	32.4	3.216554
16-Aug	NE	L	T2	D	20	19.3	3.216554
16-Aug	NE	L	T2	D	50	16	3.216554

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
16-Aug	NE	L	T3	D	4	33.9	3.216554
16-Aug	NE	L	T3	D	20	35.9	3.216554
16-Aug	NE	L	T3	D	50	45.2	3.216554
16-Aug	NE	R	T1	ND	4	27.8	3.216554
16-Aug	NE	R	T1	ND	20	14.7	3.216554
16-Aug	NE	R	T1	ND	50	17.3	3.216554
16-Aug	NE	R	T2	ND	4	18.85	3.216554
16-Aug	NE	R	T2	ND	20	17.25	3.216554
16-Aug	NE	R	T2	ND	50	19.85	3.216554
16-Aug	NE	R	T3	D	4	33.75	3.216554
16-Aug	NE	R	T3	D	20	28.05	3.216554
16-Aug	NE	R	T3	D	50	20.25	3.216554

APPENDIX 4D. Tide stick readings at stations along transects in 2006. The height to water mark is the measurement from the marsh platform surface to the water mark observed on the tide stick. The tide height was recorded from the tide gauge at Ipswich Bay Yacht Club.

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
22-Jun	SW	R	T1	D	4	11.3	3.138
22-Jun	SW	R	T1	D	20	11.1	3.138
22-Jun	SW	R	T1	D	37	11.7	3.138
22-Jun	SW	R	T2	ND	4	15.2	3.138
22-Jun	SW	R	T2	ND	20	17.3	3.138
22-Jun	SW	R	T2	ND	50	26.2	3.138
22-Jun	SW	R	T3	ND	4	19.5	3.138
22-Jun	SW	R	T3	ND	20	10.1	3.138
22-Jun	SW	R	T3	ND	50	10.3	3.138
22-Jun	SW	L	T1	ND	4	16	3.138
22-Jun	SW	L	T1	ND	20	25.7	3.138
22-Jun	SW	L	T1	ND	50	28	3.138
22-Jun	SW	L	T2	D	4	32.4	3.138
22-Jun	SW	L	T2	D	20	18	3.138
22-Jun	SW	L	T2	D	50	16	3.138
22-Jun	SW	L	T3	D	4	17	3.138
22-Jun	SW	L	T3	D	20	20	3.138
22-Jun	SW	L	T3	D	50	16.5	3.138
22-Jun	WE	R	T1	ND	4	34.9	3.138
22-Jun	WE	R	T1	ND	20	8.5	3.138
22-Jun	WE	R	T1	ND	50	14.3	3.138
22-Jun	WE	R	T2	D	4	33.7	3.138
22-Jun	WE	R	T2	D	20	15.7	3.138
22-Jun	WE	R	T2	D	50	11.8	3.138
22-Jun	WE	R	T3	ND	4	18.1	3.138
22-Jun	WE	R	T3	ND	20	11	3.138
22-Jun	WE	R	T3	ND	50	9	3.138
22-Jun	WE	L	T1	D	4	22.7	3.138
22-Jun	WE	L	T1	D	20	12.6	3.138
22-Jun	WE	L	T1	D	50	19.1	3.138
22-Jun	WE	L	T2	D	4	23.8	3.138
22-Jun	WE	L	T2	D	20	13	3.138
22-Jun	WE	L	T2	D	50	14.7	3.138
22-Jun	WE	L	T3	D	4	25.5	3.138
22-Jun	WE	L	T3	D	20	10.8	3.138
22-Jun	WE	L	T3	D	50	11.3	3.138
22-Jun	CL	R	T1	D	4	27	3.138
22-Jun	CL	R	T1	D	20	6.5	3.138
22-Jun	CL	R	T1	D	50	12.5	3.138

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
22-Jun	CL	R	T2	ND	4	11.5	3.138
22-Jun	CL	R	T2	ND	20	3	3.138
22-Jun	CL	R	T2	ND	50	7.4	3.138
22-Jun	CL	R	T3	D	4	13.5	3.138
22-Jun	CL	R	T3	D	20	15.7	3.138
22-Jun	CL	R	T3	D	50	12.5	3.138
22-Jun	CL	L	T1	ND	4	27	3.138
22-Jun	CL	L	T1	ND	20	10	3.138
22-Jun	CL	L	T1	ND	50	8.5	3.138
22-Jun	CL	L	T2	ND	4	27.5	3.138
22-Jun	CL	L	T2	ND	20	13.8	3.138
22-Jun	CL	L	T2	ND	50	9	3.138
22-Jun	CL	L	T3	ND	4	29.2	3.138
22-Jun	CL	L	T3	ND	20	14	3.138
22-Jun	CL	L	T3	ND	50	9.5	3.138
22-Jun	NE	L	T1	ND	4	32	3.138
22-Jun	NE	L	T1	ND	20	4.5	3.138
22-Jun	NE	L	T1	ND	50	6.6	3.138
22-Jun	NE	L	T2	ND	4	23.7	3.138
22-Jun	NE	L	T2	ND	20	11.5	3.138
22-Jun	NE	L	T2	ND	50	7	3.138
22-Jun	NE	L	T3	D	4	25.7	3.138
22-Jun	NE	L	T3	D	20	21.7	3.138
22-Jun	NE	L	T3	D	50	39	3.138
22-Jun	NE	R	T1	D	4	21.7	3.138
22-Jun	NE	R	T1	D	20	6	3.138
22-Jun	NE	R	T1	D	50	10.4	3.138
22-Jun	NE	R	T2	ND	4	11.6	3.138
22-Jun	NE	R	T2	ND	20	9.5	3.138
22-Jun	NE	R	T2	ND	50	11.9	3.138
22-Jun	NE	R	T3	ND	4	19.3	3.138
22-Jun	NE	R	T3	ND	20	20.4	3.138
22-Jun	NE	R	T3	ND	50	11.5	3.138
23-Jun	SW	R	T1	D	4	15.7	3.19
23-Jun	SW	R	T1	D	20	15	3.19
23-Jun	SW	R	T1	D	37	16	3.19
23-Jun	SW	R	T2	ND	4	30.4	3.19
23-Jun	SW	R	T2	ND	20	21.1	3.19
23-Jun	SW	R	T2	ND	50	19.4	3.19
23-Jun	SW	R	T3	ND	4	23.8	3.19
23-Jun	SW	R	T3	ND	20	14.2	3.19
23-Jun	SW	R	T3	ND	50	14.3	3.19
23-Jun	SW	L	T1	ND	4	20.5	3.19
23-Jun	SW	L	T1	ND	20	29.6	3.19

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
23-Jun	SW	L	T1	ND	50	32.7	3.19
23-Jun	SW	L	T2	D	4	36.8	3.19
23-Jun	SW	L	T2	D	20	22.5	3.19
23-Jun	SW	L	T2	D	50	30.7	3.19
23-Jun	SW	L	T3	D	4	21.8	3.19
23-Jun	SW	L	T3	D	20	24	3.19
23-Jun	SW	L	T3	D	50	29.1	3.19
23-Jun	WE	R	T1	ND	4	38.5	3.19
23-Jun	WE	R	T1	ND	20	13	3.19
23-Jun	WE	R	T1	ND	50	17.5	3.19
23-Jun	WE	R	T2	D	4	40.5	3.19
23-Jun	WE	R	T2	D	20	19.5	3.19
23-Jun	WE	R	T2	D	50	15	3.19
23-Jun	WE	R	T3	ND	4	23	3.19
23-Jun	WE	R	T3	ND	20	14.5	3.19
23-Jun	WE	R	T3	ND	50	13	3.19
23-Jun	WE	L	T1	D	4	25	3.19
23-Jun	WE	L	T1	D	20	16.5	3.19
23-Jun	WE	L	T1	D	50	22.5	3.19
23-Jun	WE	L	T2	D	4	27	3.19
23-Jun	WE	L	T2	D	20	16.5	3.19
23-Jun	WE	L	T2	D	50	19.5	3.19
23-Jun	WE	L	T3	D	4	29.5	3.19
23-Jun	WE	L	T3	D	20	15	3.19
23-Jun	WE	L	T3	D	50	15	3.19
11-Jul	SW	R	T1	D	4	15.5	3.21
11-Jul	SW	R	T1	D	20	18.4	3.21
11-Jul	SW	R	T1	D	37	18.5	3.21
11-Jul	SW	R	T2	ND	4	31.2	3.21
11-Jul	SW	R	T2	ND	20	23.5	3.21
11-Jul	SW	R	T2	ND	50	21.6	3.21
11-Jul	SW	R	T3	ND	4	23.6	3.21
11-Jul	SW	R	T3	ND	20	17.3	3.21
11-Jul	SW	R	T3	ND	50	17.1	3.21
11-Jul	SW	L	T1	ND	4	21.4	3.21
11-Jul	SW	L	T1	ND	20	32.8	3.21
11-Jul	SW	L	T1	ND	50	34.3	3.21
11-Jul	SW	L	T2	D	4	39.7	3.21
11-Jul	SW	L	T2	D	20	24.8	3.21
11-Jul	SW	L	T2	D	50	23.6	3.21
11-Jul	SW	L	T3	D	4	21.6	3.21
11-Jul	SW	L	T3	D	20	26.2	3.21
11-Jul	SW	L	T3	D	50	33.1	3.21
11-Jul	WE	R	T1	ND	4	24.3	3.21

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
11-Jul	WE	R	T1	ND	20	16.6	3.21
11-Jul	WE	R	T1	ND	50	20.5	3.21
11-Jul	WE	R	T2	D	4	45.9	3.21
11-Jul	WE	R	T2	D	20	22	3.21
11-Jul	WE	R	T2	D	50	18.5	3.21
11-Jul	WE	R	T3	ND	4	28.1	3.21
11-Jul	WE	R	T3	ND	20	18.2	3.21
11-Jul	WE	R	T3	ND	50	16.8	3.21
11-Jul	WE	L	T1	D	4	31.2	3.21
11-Jul	WE	L	T1	D	20	20.3	3.21
11-Jul	WE	L	T1	D	50	26.4	3.21
11-Jul	WE	L	T2	D	4	29.7	3.21
11-Jul	WE	L	T2	D	20	20.1	3.21
11-Jul	WE	L	T2	D	50	22.7	3.21
11-Jul	WE	L	T3	D	4	33.4	3.21
11-Jul	WE	L	T3	D	20	18.5	3.21
11-Jul	WE	L	T3	D	50	18.5	3.21
11-Jul	CL	R	T1	D	4	35.2	3.21
11-Jul	CL	R	T1	D	20	14.1	3.21
11-Jul	CL	R	T1	D	50	19.5	3.21
11-Jul	CL	R	T2	ND	4	17	3.21
11-Jul	CL	R	T2	ND	20	10.5	3.21
11-Jul	CL	R	T2	ND	50	15.1	3.21
11-Jul	CL	R	T3	D	4	20.1	3.21
11-Jul	CL	R	T3	D	20	23.6	3.21
11-Jul	CL	R	T3	D	50	19.7	3.21
11-Jul	CL	L	T1	ND	4	34.5	3.21
11-Jul	CL	L	T1	ND	20	18.6	3.21
11-Jul	CL	L	T1	ND	50	16.6	3.21
11-Jul	CL	L	T2	ND	4	32.1	3.21
11-Jul	CL	L	T2	ND	20	22	3.21
11-Jul	CL	L	T2	ND	50	17.5	3.21
11-Jul	CL	L	T3	ND	4	34.4	3.21
11-Jul	CL	L	T3	ND	20	20	3.21
11-Jul	CL	L	T3	ND	50	16.8	3.21
11-Jul	NE	L	T1	ND	4	28.2	3.21
11-Jul	NE	L	T1	ND	20	13.9	3.21
11-Jul	NE	L	T1	ND	50	17.2	3.21
11-Jul	NE	L	T2	ND	4	19	3.21
11-Jul	NE	L	T2	ND	20	17.3	3.21
11-Jul	NE	L	T2	ND	50	19	3.21
11-Jul	NE	L	T3	D	4	24.7	3.21
11-Jul	NE	L	T3	D	20	26.3	3.21
11-Jul	NE	L	T3	D	50	19.3	3.21

Date	Creek	Branch	Transect	Ditch/No-ditch	Location (m)	Height to water mark (cm)	Tide Height (m)
11-Jul	NE	R	T1	D	4	39	3.21
11-Jul	NE	R	T1	D	20	11.8	3.21
11-Jul	NE	R	T1	D	50	15.5	3.21
11-Jul	NE	R	T2	ND	4	31.5	3.21
11-Jul	NE	R	T2	ND	20	18.4	3.21
11-Jul	NE	R	T2	ND	50	15	3.21
11-Jul	NE	R	T3	ND	4	33.5	3.21
11-Jul	NE	R	T3	ND	20	29.6	3.21
11-Jul	NE	R	T3	ND	50	43.7	3.21

APPENDIX 5a. Marsh platform sediment plate data from 2003. Negative values indicate damage to the filter. Note: first two deployments have been left out due to sampling problems.

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
30-Jul	6-Aug	CL	L	T1	ND	4	2.9199	0.0178	0.0105	13.25
30-Jul	6-Aug	CL	L	T1	ND	4	2.9199	0.0973	0.0834	13.25
30-Jul	6-Aug	CL	L	T1	ND	20	3.016	0.0470	0.0388	5.5
30-Jul	6-Aug	CL	L	T1	ND	20	3.016	0.0874	0.0766	5.5
30-Jul	6-Aug	CL	L	T1	ND	50	3.0444	0.2364	0.1971	4.5
30-Jul	6-Aug	CL	L	T1	ND	50	3.0444	0.3975	0.2931	4.5
30-Jul	6-Aug	CL	L	T2	ND	4	2.869	0.1030	0.0787	17
30-Jul	6-Aug	CL	L	T2	ND	4	2.869	0.0939	0.0789	17
30-Jul	6-Aug	CL	L	T2	ND	20	3.0134	0.0552	0.0454	5.75
30-Jul	6-Aug	CL	L	T2	ND	20	3.0134	0.0769	0.0655	5.75
30-Jul	6-Aug	CL	L	T2	ND	50	3.0491	0.2759	0.2421	3.5
30-Jul	6-Aug	CL	L	T2	ND	50	3.0491	0.1058	0.0868	3.5
30-Jul	6-Aug	CL	L	T3	ND	4	2.8459	0.0733	0.0584	18
30-Jul	6-Aug	CL	L	T3	ND	4	2.8459	0.1272	0.1001	18
30-Jul	6-Aug	CL	L	T3	ND	20	3.0247	0.0868	0.0728	5
30-Jul	6-Aug	CL	L	T3	ND	20	3.0247	0.2352	0.1858	5
30-Jul	6-Aug	CL	L	T3	ND	50	3.0625	0.1834	0.1402	3
30-Jul	6-Aug	CL	L	T3	ND	50	3.0625	0.2986	0.2231	3
30-Jul	6-Aug	CL	R	T1	D	4	2.8685	0.0539	0.0393	17.25
30-Jul	6-Aug	CL	R	T1	D	4	2.8685	0.1197	0.0968	17.25
30-Jul	6-Aug	CL	R	T1	D	20	3.0647	0.0226	0.0134	2.75
30-Jul	6-Aug	CL	R	T1	D	20	3.0647	0.0694	0.0580	2.75
30-Jul	6-Aug	CL	R	T1	D	50	3.0232	0.0574	0.0445	5.2
30-Jul	6-Aug	CL	R	T1	D	50	3.0232	0.1079	0.0857	5.2
30-Jul	6-Aug	CL	R	T2	ND	4	2.9764	0.0438	0.0323	9
30-Jul	6-Aug	CL	R	T2	ND	4	2.9764	0.0863	0.0700	9
30-Jul	6-Aug	CL	R	T2	ND	20	3.0994	0.0655	0.0535	0.75
30-Jul	6-Aug	CL	R	T2	ND	20	3.0994	0.3832	0.3179	0.75
30-Jul	6-Aug	CL	R	T2	ND	50	3.0578	0.0396	0.0306	3
30-Jul	6-Aug	CL	R	T2	ND	50	3.0578	0.0737	0.0614	3
30-Jul	6-Aug	CL	R	T3	D	4	2.991	0.0457	0.0347	8
30-Jul	6-Aug	CL	R	T3	D	4	2.991	0.1794	0.1469	8
30-Jul	6-Aug	CL	R	T3	D	20	3.0078	0.1146	0.0887	6.5
30-Jul	6-Aug	CL	R	T3	D	20	3.0078	0.0789	0.0672	6.5
30-Jul	6-Aug	CL	R	T3	D	50	3.0237	0.0416	0.0328	5
30-Jul	6-Aug	CL	R	T3	D	50	3.0237	0.1821	0.1489	5
30-Jul	6-Aug	NE	L	T1	ND	4	2.9266	0.0467	0.0426	12.25
30-Jul	6-Aug	NE	L	T1	ND	4	2.9266	0.1278	0.1125	12.25
30-Jul	6-Aug	NE	L	T1	ND	20	3.0976	0.1346	0.1201	0.75
30-Jul	6-Aug	NE	L	T1	ND	20	3.0976	0.0926	0.0841	0.75
30-Jul	6-Aug	NE	L	T1	ND	50	3.0758	0.0514	0.0470	1.5
30-Jul	6-Aug	NE	L	T1	ND	50	3.0758	0.0821	0.0726	1.5
30-Jul	6-Aug	NE	L	T2	ND	4	2.8845	0.0553	0.0468	15.5
30-Jul	6-Aug	NE	L	T2	ND	4	2.8845	0.1295	0.1122	15.5
30-Jul	6-Aug	NE	L	T2	ND	20	3.0353	0.0348	0.0305	5
30-Jul	6-Aug	NE	L	T2	ND	20	3.0353	0.0692	0.0596	5
30-Jul	6-Aug	NE	L	T2	ND	50	3.0554	0.1486	0.1285	3
30-Jul	6-Aug	NE	L	T2	ND	50	3.0554	0.1617	0.1427	3
30-Jul	6-Aug	NE	L	T3	D	4	2.8723	0.0267	0.0314	16.25
30-Jul	6-Aug	NE	L	T3	D	4	2.8723	0.0689	0.0675	16.25
30-Jul	6-Aug	NE	L	T3	D	20	2.8774	0.0363	0.0380	15.75
30-Jul	6-Aug	NE	L	T3	D	20	2.8774	0.0942	0.0846	15.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
30-Jul	6-Aug	NE	L	T3	D	50	2.7844	0.0557	0.0462	23.25
30-Jul	6-Aug	NE	L	T3	D	50	2.7844	0.0911	0.0790	23.25
30-Jul	6-Aug	NE	R	T1	D	4	2.9623	0.1291	0.1127	9.25
30-Jul	6-Aug	NE	R	T1	D	20	3.0737	-0.1930	-0.1959	1.75
30-Jul	6-Aug	NE	R	T1	D	20	3.0737	0.0660	0.0548	1.75
30-Jul	6-Aug	NE	R	T1	D	50	3.0646	-0.0284	-0.0342	2.75
30-Jul	6-Aug	NE	R	T1	D	50	3.0646	0.0762	0.0644	2.75
30-Jul	6-Aug	NE	R	T2	ND	4	3.0194	-0.0562	-0.0562	5.5
30-Jul	6-Aug	NE	R	T2	ND	4	3.0194	0.0746	0.0619	5.5
30-Jul	6-Aug	NE	R	T2	ND	20	3.0347	-0.0087	-0.0071	5
30-Jul	6-Aug	NE	R	T2	ND	20	3.0347	0.0705	0.0601	5
30-Jul	6-Aug	NE	R	T2	ND	50	3.0221	0.0712	0.0600	5.2
30-Jul	6-Aug	NE	R	T2	ND	50	3.0221	0.1406	0.1039	5.2
30-Jul	6-Aug	NE	R	T3	ND	4	2.8984	-0.0583	-0.0684	14.25
30-Jul	6-Aug	NE	R	T3	ND	4	2.8984	0.0833	0.0675	14.25
30-Jul	6-Aug	NE	R	T3	ND	20	2.9664	0.0299	0.0221	9.25
30-Jul	6-Aug	NE	R	T3	ND	20	2.9664	0.0663	0.0544	9.25
30-Jul	6-Aug	NE	R	T3	ND	50	3.0397	0.0839	0.0707	4.5
30-Jul	6-Aug	NE	R	T3	ND	50	3.0397	0.0885	0.0708	4.5
1-Aug	8-Aug	SW	L	T1	ND	4	3.0025	-0.0206	-0.0247	8.5
1-Aug	8-Aug	SW	L	T1	ND	4	3.0025	0.1070	0.0896	8.5
1-Aug	8-Aug	SW	L	T1	ND	20	2.8929	-0.0234	-0.0262	15.75
1-Aug	8-Aug	SW	L	T1	ND	20	2.8929	0.0680	0.0538	15.75
1-Aug	8-Aug	SW	L	T1	ND	50	2.899	-0.0483	-0.0525	15.25
1-Aug	8-Aug	SW	L	T1	ND	50	2.899	0.0682	0.0530	15.25
1-Aug	8-Aug	SW	L	T2	D	4	2.8572	-0.0227	-0.0255	18.5
1-Aug	8-Aug	SW	L	T2	D	4	2.8572	0.0670	0.0546	18.5
1-Aug	8-Aug	SW	L	T2	D	20	2.988	-0.0650	-0.0678	9.25
1-Aug	8-Aug	SW	L	T2	D	20	2.988	0.0659	0.0529	9.25
1-Aug	8-Aug	SW	L	T2	D	50	2.9813	-0.0558	-0.0581	9.5
1-Aug	8-Aug	SW	L	T2	D	50	2.9813	0.0222	0.0124	9.5
1-Aug	8-Aug	SW	L	T3	D	4	2.9746	-0.0401	-0.0446	9.75
1-Aug	8-Aug	SW	L	T3	D	4	2.9746	0.0546	0.0430	9.75
1-Aug	8-Aug	SW	L	T3	D	20	2.9632	-0.0324	-0.0358	10
1-Aug	8-Aug	SW	L	T3	D	20	2.9632	0.0398	0.0224	10
1-Aug	8-Aug	SW	L	T3	D	50	2.9167	-0.0301	-0.0334	14.75
1-Aug	8-Aug	SW	L	T3	D	50	2.9167	0.0386	0.0206	14.75
1-Aug	8-Aug	SW	R	T1	D	4	2.9905	-0.0310	-0.0339	9.25
1-Aug	8-Aug	SW	R	T1	D	4	2.9905	0.0627	0.0522	9.25
1-Aug	8-Aug	SW	R	T1	D	20	3.0354	-0.0313	-0.0343	6
1-Aug	8-Aug	SW	R	T1	D	20	3.0354	0.0587	0.0468	6
1-Aug	8-Aug	SW	R	T1	D	50	3.0326	-0.0082	-0.0131	6
1-Aug	8-Aug	SW	R	T1	D	50	3.0326	0.0209	0.0144	6
1-Aug	8-Aug	SW	R	T2	ND	4	2.9073	-0.0178	-0.0205	14.75
1-Aug	8-Aug	SW	R	T2	ND	4	2.9073	0.0796	0.0601	14.75
1-Aug	8-Aug	SW	R	T2	ND	20	3.0038	-0.0040	-0.0067	8.5
1-Aug	8-Aug	SW	R	T2	ND	20	3.0038	0.0916	0.0623	8.5
1-Aug	8-Aug	SW	R	T2	ND	50	3.0206	-0.0215	-0.0248	6.5
1-Aug	8-Aug	SW	R	T2	ND	50	3.0206	0.0578	0.0467	6.5
1-Aug	8-Aug	SW	R	T3	ND	4	2.9692	-0.0277	-0.0314	10
1-Aug	8-Aug	SW	R	T3	ND	4	2.9692	0.0475	0.0376	10
1-Aug	8-Aug	SW	R	T3	ND	20	3.0509	0.0282	0.0203	5
1-Aug	8-Aug	SW	R	T3	ND	20	3.0509	0.0629	0.0449	5
1-Aug	8-Aug	SW	R	T3	ND	50	3.0577	0.0370	0.0269	5
1-Aug	8-Aug	SW	R	T3	ND	50	3.0577	0.0526	0.0393	5
1-Aug	8-Aug	WE	L	T1	D	4	2.9007	-0.0309	-0.0389	15.25
1-Aug	8-Aug	WE	L	T1	D	4	2.9007	0.0634	0.0507	15.25
1-Aug	8-Aug	WE	L	T1	D	20	3.0349	-0.0091	-0.0153	6

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Aug	8-Aug	WE	L	T1	D	20	3.0349	0.0832	0.0687	6
1-Aug	8-Aug	WE	L	T1	D	50	2.9831	0.0188	0.0023	9.5
1-Aug	8-Aug	WE	L	T1	D	50	2.9831	0.0433	0.0331	9.5
1-Aug	8-Aug	WE	L	T2	D	4	2.9184	-0.0370	-0.0403	14.5
1-Aug	8-Aug	WE	L	T2	D	4	2.9184	0.0403	0.0338	14.5
1-Aug	8-Aug	WE	L	T2	D	20	3.0177	-0.0530	-0.0545	6.5
1-Aug	8-Aug	WE	L	T2	D	20	3.0177	0.0528	0.0416	6.5
1-Aug	8-Aug	WE	L	T2	D	50	2.9815	-0.0669	-0.0695	9.5
1-Aug	8-Aug	WE	L	T2	D	50	2.9815	0.0636	0.0500	9.5
1-Aug	8-Aug	WE	L	T3	D	4	2.8873	-0.0389	-0.0422	16
1-Aug	8-Aug	WE	L	T3	D	4	2.8873	0.0477	0.0393	16
1-Aug	8-Aug	WE	L	T3	D	20	3.0248	-0.0411	-0.0438	6
1-Aug	8-Aug	WE	L	T3	D	20	3.0248	0.0805	0.0671	6
1-Aug	8-Aug	WE	L	T3	D	50	3.0261	-0.0287	-0.0304	6
1-Aug	8-Aug	WE	L	T3	D	50	3.0261	0.0663	0.0519	6
1-Aug	8-Aug	WE	R	T1	ND	4	2.799	-0.0578	-0.0600	23.75
1-Aug	8-Aug	WE	R	T1	ND	4	2.799	0.0427	0.0352	23.75
1-Aug	8-Aug	WE	R	T1	ND	20	3.0569	-0.0636	-0.0661	5
1-Aug	8-Aug	WE	R	T1	ND	20	3.0569	0.0641	0.0522	5
1-Aug	8-Aug	WE	R	T1	ND	50	3.0168	0.0438	0.0345	6.5
1-Aug	8-Aug	WE	R	T1	ND	50	3.0168	0.0476	0.0380	6.5
1-Aug	8-Aug	WE	R	T2	D	4	2.8105	-0.0300	-0.0333	23.25
1-Aug	8-Aug	WE	R	T2	D	4	2.8105	0.0794	0.0682	23.25
1-Aug	8-Aug	WE	R	T2	D	20	2.9776	-0.0778	-0.0792	9.75
1-Aug	8-Aug	WE	R	T2	D	20	2.9776	0.0537	0.0413	9.75
1-Aug	8-Aug	WE	R	T2	D	50	3.0229	0.0510	0.0411	6.5
1-Aug	8-Aug	WE	R	T2	D	50	3.0229	0.0552	0.0449	6.5
1-Aug	8-Aug	WE	R	T3	ND	4	2.9538	-0.0393	-0.0415	10.75
1-Aug	8-Aug	WE	R	T3	ND	4	2.9538	0.0558	0.0427	10.75
1-Aug	8-Aug	WE	R	T3	ND	20	3.0535	-0.0484	-0.0526	5
1-Aug	8-Aug	WE	R	T3	ND	20	3.0535	0.0608	0.0482	5
1-Aug	8-Aug	WE	R	T3	ND	50	2.9749	0.0396	0.0330	9.75
1-Aug	8-Aug	WE	R	T3	ND	50	2.9749	0.0481	0.0354	9.75
6-Aug	13-Aug	CL	L	T1	ND	4	2.9199	0.0632	0.0475	18
6-Aug	13-Aug	CL	L	T1	ND	4	2.9199	0.1036	0.0850	18
6-Aug	13-Aug	CL	L	T1	ND	20	3.016	0.1518	0.1324	13.75
6-Aug	13-Aug	CL	L	T1	ND	20	3.016	0.0753	0.0659	13.75
6-Aug	13-Aug	CL	L	T1	ND	50	3.0444	0.1636	0.1292	13.25
6-Aug	13-Aug	CL	L	T1	ND	50	3.0444	0.1564	0.1368	13.25
6-Aug	13-Aug	CL	L	T2	ND	4	2.869	0.0729	0.0584	20.25
6-Aug	13-Aug	CL	L	T2	ND	4	2.869	0.0954	0.0799	20.25
6-Aug	13-Aug	CL	L	T2	ND	20	3.0134	0.0844	0.0749	14.25
6-Aug	13-Aug	CL	L	T2	ND	20	3.0134	0.0879	0.0795	14.25
6-Aug	13-Aug	CL	L	T2	ND	50	3.0491	0.1773	0.1518	13.25
6-Aug	13-Aug	CL	L	T2	ND	50	3.0491	0.1376	0.1201	13.25
6-Aug	13-Aug	CL	L	T3	ND	4	2.8459	0.0776	0.0627	21
6-Aug	13-Aug	CL	L	T3	ND	4	2.8459	0.1016	0.0845	21
6-Aug	13-Aug	CL	L	T3	ND	20	3.0247	0.1738	0.1532	13.5
6-Aug	13-Aug	CL	L	T3	ND	20	3.0247	0.1632	0.1402	13.5
6-Aug	13-Aug	CL	L	T3	ND	50	3.0625	0.0603	0.0506	12.5
6-Aug	13-Aug	CL	L	T3	ND	50	3.0625	0.0876	0.0757	12.5
6-Aug	13-Aug	CL	R	T1	D	4	2.8685	0.1665	0.1407	20.25
6-Aug	13-Aug	CL	R	T1	D	4	2.8685	0.2063	0.1797	20.25
6-Aug	13-Aug	CL	R	T1	D	20	3.0647	0.0517	0.0442	12.5
6-Aug	13-Aug	CL	R	T1	D	20	3.0647	0.0764	0.0653	12.5
6-Aug	13-Aug	CL	R	T1	D	50	3.0232	0.2023	0.1784	13.75
6-Aug	13-Aug	CL	R	T1	D	50	3.0232	0.0961	0.0844	13.75
6-Aug	13-Aug	CL	R	T2	ND	4	2.9764	0.0662	0.0544	15.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
6-Aug	13-Aug	CL	R	T2	ND	4	2.9764	0.1229	0.1048	15.5
6-Aug	13-Aug	CL	R	T2	ND	20	3.0994	0.1898	0.1669	10.5
6-Aug	13-Aug	CL	R	T2	ND	20	3.0994	0.1442	0.1236	10.5
6-Aug	13-Aug	CL	R	T2	ND	50	3.0578	0.0532	0.0456	12.75
6-Aug	13-Aug	CL	R	T2	ND	50	3.0578	0.0659	0.0592	12.75
6-Aug	13-Aug	CL	R	T3	D	4	2.991	0.1074	0.0902	15
6-Aug	13-Aug	CL	R	T3	D	4	2.991	0.4405	0.3877	15
6-Aug	13-Aug	CL	R	T3	D	20	3.0078	0.0209	0.0146	14.75
6-Aug	13-Aug	CL	R	T3	D	20	3.0078	0.0820	0.0708	14.75
6-Aug	13-Aug	CL	R	T3	D	50	3.0237	0.0679	0.0567	13.5
6-Aug	13-Aug	CL	R	T3	D	50	3.0237	0.1279	0.1048	13.5
6-Aug	13-Aug	NE	L	T1	ND	4	2.9266	0.1905	0.1680	17
6-Aug	13-Aug	NE	L	T1	ND	4	2.9266	0.4848	0.4266	17
6-Aug	13-Aug	NE	L	T1	ND	20	3.0976	0.1201	0.1059	10.75
6-Aug	13-Aug	NE	L	T1	ND	20	3.0976	0.1062	0.0915	10.75
6-Aug	13-Aug	NE	L	T1	ND	50	3.0758	0.0991	0.0856	11.75
6-Aug	13-Aug	NE	L	T1	ND	50	3.0758	0.0951	0.0789	11.75
6-Aug	13-Aug	NE	L	T2	ND	4	2.8845	0.0326	0.0248	19.5
6-Aug	13-Aug	NE	L	T2	ND	4	2.8845	0.1546	0.1338	19.5
6-Aug	13-Aug	NE	L	T2	ND	20	3.0353	0.0576	0.0446	13.5
6-Aug	13-Aug	NE	L	T2	ND	20	3.0353	0.0858	0.0696	13.5
6-Aug	13-Aug	NE	L	T2	ND	50	3.0554	0.0600	0.0494	12.75
6-Aug	13-Aug	NE	L	T2	ND	50	3.0554	0.1462	0.1300	12.75
6-Aug	13-Aug	NE	L	T3	D	4	2.8723	0.0040	-0.0021	20.25
6-Aug	13-Aug	NE	L	T3	D	4	2.8723	0.0792	0.0698	20.25
6-Aug	13-Aug	NE	L	T3	D	20	2.8774	0.0159	0.0050	20
6-Aug	13-Aug	NE	L	T3	D	20	2.8774	0.0997	0.0820	20
6-Aug	13-Aug	NE	L	T3	D	50	2.7844	-0.3573	-0.3573	25.75
6-Aug	13-Aug	NE	L	T3	D	50	2.7844	0.1247	0.1062	25.75
6-Aug	13-Aug	NE	R	T1	D	4	2.9623	0.1381	0.1232	15.75
6-Aug	13-Aug	NE	R	T1	D	4	2.9623	0.0985	0.0866	15.75
6-Aug	13-Aug	NE	R	T1	D	20	3.0737	0.0217	0.0134	12.25
6-Aug	13-Aug	NE	R	T1	D	20	3.0737	0.1198	0.1005	12.25
6-Aug	13-Aug	NE	R	T1	D	50	3.0646	0.0412	0.0319	12.5
6-Aug	13-Aug	NE	R	T1	D	50	3.0646	0.0783	0.0697	12.5
6-Aug	13-Aug	NE	R	T2	ND	4	3.0194	0.0460	0.0341	13.75
6-Aug	13-Aug	NE	R	T2	ND	4	3.0194	0.0784	0.0696	13.75
6-Aug	13-Aug	NE	R	T2	ND	20	3.0347	0.0376	0.0305	13.5
6-Aug	13-Aug	NE	R	T2	ND	20	3.0347	0.1407	0.1194	13.5
6-Aug	13-Aug	NE	R	T2	ND	50	3.0221	0.0669	0.0571	13.75
6-Aug	13-Aug	NE	R	T2	ND	50	3.0221	0.1373	0.0984	13.75
6-Aug	13-Aug	NE	R	T3	ND	4	2.8984	0.0244	0.0163	18.5
6-Aug	13-Aug	NE	R	T3	ND	4	2.8984	0.1014	0.0865	18.5
6-Aug	13-Aug	NE	R	T3	ND	20	2.9664	0.0196	0.0144	15.75
6-Aug	13-Aug	NE	R	T3	ND	20	2.9664	0.0792	0.0692	15.75
6-Aug	13-Aug	NE	R	T3	ND	50	3.0397	0.1323	0.1002	13.5
6-Aug	13-Aug	NE	R	T3	ND	50	3.0397	0.0686	0.0529	13.5
8-Aug	15-Aug	SW	L	T1	ND	4	3.0025	0.1490	0.1320	14.5
8-Aug	15-Aug	SW	L	T1	ND	4	3.0025	0.3426	0.3072	14.5
8-Aug	15-Aug	SW	L	T1	ND	20	2.8929	0.0868	0.0717	21
8-Aug	15-Aug	SW	L	T1	ND	20	2.8929	0.0991	0.0842	21
8-Aug	15-Aug	SW	L	T1	ND	50	2.899	0.0672	0.0563	20.25
8-Aug	15-Aug	SW	L	T1	ND	50	2.899	0.1155	0.0876	20.25
8-Aug	15-Aug	SW	L	T2	D	4	2.8572	0.1275	0.1126	23
8-Aug	15-Aug	SW	L	T2	D	4	2.8572	0.2160	0.1906	23
8-Aug	15-Aug	SW	L	T2	D	20	2.988	0.0545	0.0465	15.25
8-Aug	15-Aug	SW	L	T2	D	20	2.988	0.0748	0.0653	15.25
8-Aug	15-Aug	SW	L	T2	D	50	2.9813	0.0518	0.0370	15.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
8-Aug	15-Aug	SW	L	T2	D	50	2.9813	0.0758	0.0631	15.75
8-Aug	15-Aug	SW	L	T3	D	4	2.9746	0.0531	0.0454	16
8-Aug	15-Aug	SW	L	T3	D	4	2.9746	0.0694	0.0595	16
8-Aug	15-Aug	SW	L	T3	D	20	2.9632	0.0691	0.0479	16
8-Aug	15-Aug	SW	L	T3	D	20	2.9632	0.0686	0.0576	16
8-Aug	15-Aug	SW	L	T3	D	50	2.9167	0.0404	0.0290	19.5
8-Aug	15-Aug	SW	L	T3	D	50	2.9167	0.0618	0.0519	19.5
8-Aug	15-Aug	SW	R	T1	D	4	2.9905	0.1130	0.0986	15
8-Aug	15-Aug	SW	R	T1	D	4	2.9905	0.3573	0.3153	15
8-Aug	15-Aug	SW	R	T1	D	20	3.0354	0.0390	0.0282	13.75
8-Aug	15-Aug	SW	R	T1	D	20	3.0354	0.0722	0.0614	13.75
8-Aug	15-Aug	SW	R	T1	D	50	3.0326	0.0481	0.0321	13.75
8-Aug	15-Aug	SW	R	T1	D	50	3.0326	0.0849	0.0697	13.75
8-Aug	15-Aug	SW	R	T2	ND	4	2.9073	0.0543	0.0463	19.5
8-Aug	15-Aug	SW	R	T2	ND	4	2.9073	0.1176	0.1017	19.5
8-Aug	15-Aug	SW	R	T2	ND	20	3.0038	0.1911	0.1635	14.5
8-Aug	15-Aug	SW	R	T2	ND	20	3.0038	0.2653	0.2223	14.5
8-Aug	15-Aug	SW	R	T2	ND	50	3.0206	0.0298	0.0195	13.75
8-Aug	15-Aug	SW	R	T2	ND	50	3.0206	0.0633	0.0523	13.75
8-Aug	15-Aug	SW	R	T3	ND	4	2.9692	0.0404	0.0313	16
8-Aug	15-Aug	SW	R	T3	ND	4	2.9692	0.0862	0.0770	16
8-Aug	15-Aug	SW	R	T3	ND	20	3.0509	0.1915	0.1637	13.5
8-Aug	15-Aug	SW	R	T3	ND	20	3.0509	0.1832	0.1575	13.5
8-Aug	15-Aug	SW	R	T3	ND	50	3.0577	0.2115	0.1779	13
8-Aug	15-Aug	SW	R	T3	ND	50	3.0577	0.0710	0.0638	13
8-Aug	15-Aug	WE	L	T1	D	4	2.9007	0.0378	0.0281	20.25
8-Aug	15-Aug	WE	L	T1	D	4	2.9007	0.2087	0.1847	20.25
8-Aug	15-Aug	WE	L	T1	D	20	3.0349	0.0191	0.0124	13.75
8-Aug	15-Aug	WE	L	T1	D	20	3.0349	0.0819	0.0725	13.75
8-Aug	15-Aug	WE	L	T1	D	50	2.9831	0.1189	0.1063	15.75
8-Aug	15-Aug	WE	L	T1	D	50	2.9831	0.0200	0.0144	15.75
8-Aug	15-Aug	WE	L	T2	D	20	3.0177	0.0935	0.0801	13.75
8-Aug	15-Aug	WE	L	T2	D	50	2.9815	0.0649	0.0568	15.75
8-Aug	15-Aug	WE	L	T2	D	50	2.9815	0.0713	0.0622	15.75
8-Aug	15-Aug	WE	L	T3	D	4	2.8873	0.1172	0.1010	21.25
8-Aug	15-Aug	WE	L	T3	D	4	2.8873	0.2416	0.2083	21.25
8-Aug	15-Aug	WE	L	T3	D	20	3.0248	0.0643	0.0541	13.75
8-Aug	15-Aug	WE	L	T3	D	20	3.0248	0.0863	0.0714	13.75
8-Aug	15-Aug	WE	L	T3	D	50	3.0261	0.0714	0.0595	13.75
8-Aug	15-Aug	WE	L	T3	D	50	3.0261	0.1071	0.0904	13.75
8-Aug	15-Aug	WE	R	T1	ND	4	2.799	0.2562	0.2213	27.25
8-Aug	15-Aug	WE	R	T1	ND	4	2.799	0.3405	0.2942	27.25
8-Aug	15-Aug	WE	R	T1	ND	20	3.0569	0.0766	0.0651	13
8-Aug	15-Aug	WE	R	T1	ND	20	3.0569	0.1361	0.1157	13
8-Aug	15-Aug	WE	R	T1	ND	50	3.0168	0.1281	0.1030	14
8-Aug	15-Aug	WE	R	T1	ND	50	3.0168	0.1076	0.0806	14
8-Aug	15-Aug	WE	R	T2	D	4	2.8105	0.1565	0.1389	26.25
8-Aug	15-Aug	WE	R	T2	D	4	2.8105	0.2041	0.1814	26.25
8-Aug	15-Aug	WE	R	T2	D	20	2.9776	0.0381	0.0330	15.75
8-Aug	15-Aug	WE	R	T2	D	20	2.9776	0.0740	0.0664	15.75
8-Aug	15-Aug	WE	R	T2	D	50	3.0229	0.0862	0.0747	13.75
8-Aug	15-Aug	WE	R	T2	D	50	3.0229	0.0899	0.0764	13.75
8-Aug	15-Aug	WE	R	T3	ND	4	2.9538	0.0607	0.0547	16.5
8-Aug	15-Aug	WE	R	T3	ND	4	2.9538	0.0949	0.0831	16.5
8-Aug	15-Aug	WE	R	T3	ND	20	3.0535	0.0889	0.0793	13.25
8-Aug	15-Aug	WE	R	T3	ND	20	3.0535	0.1027	0.0938	13.25
8-Aug	15-Aug	WE	R	T3	ND	50	2.9749	0.0914	0.0807	16
8-Aug	15-Aug	WE	R	T3	ND	50	2.9749	0.1849	0.1661	16

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No data missing

APPENDIX 5b. Marsh platform sediment plate data from 2004. Negative values indicate damage to the filter.

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Jun	10-Jun	SW	M	1	D	4	2.898	1.36595	1.2089	33.25
1-Jun	10-Jun	SW	M	1	D	4	2.898	0.61155	0.5409	33.25
1-Jun	10-Jun	SW	M	1	D	10	2.9934	0.98035	0.8498	24.5
1-Jun	10-Jun	SW	M	1	D	10	2.9934	2.60975	2.2586	24.5
1-Jun	10-Jun	SW	M	1	D	20	2.9925	0.67975	0.5801	24.75
1-Jun	10-Jun	SW	M	1	D	50	2.9206	0.1518	0.1276	24.75
1-Jun	10-Jun	SW	M	1	D	75	2.9565	0.10275	0.0809	29
1-Jun	10-Jun	SW	M	1	D	75	2.9565	0.0849	0.0639	29
1-Jun	10-Jun	SW	M	1	ND	4	2.8842	0.33195	0.2664	33.5
1-Jun	10-Jun	SW	M	1	ND	4	2.8842	0.1738	0.1438	33.5
1-Jun	10-Jun	SW	M	1	ND	10	3.0211	0.0793	0.0589	21.75
1-Jun	10-Jun	SW	M	1	ND	10	3.0211	0.08385	0.0629	21.75
1-Jun	10-Jun	SW	M	1	ND	20	3.1137	0.0876	0.0437	17.25
1-Jun	10-Jun	SW	M	1	ND	20	3.1137	0.07735	0.0587	17.25
1-Jun	10-Jun	SW	M	1	ND	50	3.1647	0.06835	0.0543	14.75
1-Jun	10-Jun	SW	M	1	ND	50	3.1647	0.38415	0.0697	14.75
1-Jun	10-Jun	SW	M	1	ND	75	3.1078	0.04425	0.0277	17.5
1-Jun	10-Jun	SW	M	1	ND	75	3.1078	0.04735	0.035	17.5
1-Jun	10-Jun	SW	M	2	D	4	2.9552	0.24485	0.2068	29
1-Jun	10-Jun	SW	M	2	D	10	2.9203	0.3708	0.285	31
1-Jun	10-Jun	SW	M	2	D	20	2.9382	0.1242	0.1034	30.75
1-Jun	10-Jun	SW	M	2	D	20	2.9382	0.10915	0.0907	30.75
1-Jun	10-Jun	SW	M	2	D	50	2.9488	0.07765	0.0505	29.75
1-Jun	10-Jun	SW	M	2	D	50	2.9488	0.1248	0.0917	29.75
1-Jun	10-Jun	SW	M	2	D	75	3.0573	0.04405	0.0335	19.5
1-Jun	10-Jun	SW	M	2	ND	4	2.9931	0.17735	0.148	24.75
1-Jun	10-Jun	SW	M	2	ND	4	2.9931	0.2637	0.2176	24.75
1-Jun	10-Jun	SW	M	2	ND	10	3.0926	0.05235	0.0331	18.25
1-Jun	10-Jun	SW	M	2	ND	10	3.0926	0.16445	0.1324	18.25
1-Jun	10-Jun	SW	M	2	ND	20	3.1019	0.15025	0.125	18
1-Jun	10-Jun	SW	M	2	ND	20	3.1019	0.1379	0.1081	18
1-Jun	10-Jun	SW	M	2	ND	50	3.0453	0.1898	0.142	20.25
1-Jun	10-Jun	SW	M	2	ND	50	3.0453	0.17885	0.1409	20.25
1-Jun	10-Jun	SW	M	2	ND	75	3.077	0.03525	0.0223	19.25
1-Jun	10-Jun	SW	M	2	ND	75	3.077	0.09015	0.0621	19.25
1-Jun	10-Jun	SW	L	1	D	4	2.9959	2.33115	2.0528	24.25
1-Jun	10-Jun	SW	L	1	D	10	2.9595	0.89805	0.4321	28.5
1-Jun	10-Jun	SW	L	1	D	20	2.8807	1.01795	0.7399	33.75
1-Jun	10-Jun	SW	L	1	D	20	2.8807	1.2471	0.9341	33.75
1-Jun	10-Jun	SW	L	1	D	50	2.9691	0.1911	0.0836	27
1-Jun	10-Jun	SW	L	1	D	50	2.9691	0.10575	0.0849	27
1-Jun	10-Jun	SW	L	T1	ND	4	3.0025	4.1291	3.5788	23
1-Jun	10-Jun	SW	L	T1	ND	4	3.0025	4.1337	3.6071	23
1-Jun	10-Jun	SW	L	T1	ND	10	3.0624	0.5614	0.4755	19.5
1-Jun	10-Jun	SW	L	T1	ND	10	3.0624	0.6378	0.5472	19.5
1-Jun	10-Jun	SW	L	T1	ND	20	2.8929	0.1852	0.152	33.25
1-Jun	10-Jun	SW	L	T1	ND	20	2.8929	0.3116	0.2586	33.25
1-Jun	10-Jun	SW	L	T1	ND	50	2.899	0.1592	0.1354	33.25
1-Jun	10-Jun	SW	L	T1	ND	50	2.899	0.15645	0.1344	33.25
1-Jun	10-Jun	SW	L	T2	D	4	2.8572	2.0008	1.7702	37.25
1-Jun	10-Jun	SW	L	T2	D	4	2.8572	2.1134	1.8369	37.25
1-Jun	10-Jun	SW	L	T2	D	10	2.952	0.2591	0.2201	29.75
1-Jun	10-Jun	SW	L	T2	D	10	2.952	0.34715	0.2942	29.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Jun	10-Jun	SW	L	T2	D	20	2.988	0.25705	0.2205	25.25
1-Jun	10-Jun	SW	L	T2	D	50	2.9813	0.0985	0.0809	25.75
1-Jun	10-Jun	SW	L	T2	D	50	2.9813	0.09105	0.0695	25.75
1-Jun	10-Jun	SW	L	T2	D	75	2.9513	0.11135	0.089	29.75
1-Jun	10-Jun	SW	L	T2	D	75	2.9513	0.1375	0.1129	29.75
1-Jun	10-Jun	SW	L	T2	D	100	2.9203	0.10585	0.0839	31
1-Jun	10-Jun	SW	L	T2	D	100	2.9203	0.12325	0.0916	31
1-Jun	10-Jun	SW	L	T2	D	112	2.9395	0.0831	0.066	30.25
1-Jun	10-Jun	SW	L	T2	D	112	2.9395	0.12245	0.0856	30.25
1-Jun	10-Jun	SW	L	2	ND	4	3.0692	0.1296	0.1057	19.25
1-Jun	10-Jun	SW	L	2	ND	12	3.0228	0.15485	0.1284	21.75
1-Jun	10-Jun	SW	L	2	ND	12	3.0228	0.10705	0.0871	21.75
1-Jun	10-Jun	SW	L	2	ND	40	3.0232	0.0467	0.0318	21.75
2-Jun	11-Jun	SW	R	TI	D	4	2.9905	6.31235	5.5075	20.75
2-Jun	11-Jun	SW	R	TI	D	4	2.9905	2.0334	1.7804	20.75
2-Jun	11-Jun	SW	R	TI	D	10	3.0579	1.5545	1.3473	16
2-Jun	11-Jun	SW	R	TI	D	10	3.0579	1.11645	0.9767	16
2-Jun	11-Jun	SW	R	TI	D	20	3.0354	0.2235	0.1967	16.5
2-Jun	11-Jun	SW	R	TI	D	20	3.0354	0.30845	0.2584	16.5
2-Jun	11-Jun	SW	R	TI	D	50	3.0326	0.1013	0.0827	16.75
2-Jun	11-Jun	SW	R	TI	D	50	3.0326	0.15185	0.1268	16.75
2-Jun	11-Jun	SW	R	1	ND	4	3.0034	0.9734	0.8533	18
2-Jun	11-Jun	SW	R	1	ND	4	3.0034	0.8231	0.7051	18
2-Jun	11-Jun	SW	R	1	ND	10	3.0556	0.2349	0.2026	16
2-Jun	11-Jun	SW	R	1	ND	10	3.0556	0.13605	0.1153	16
2-Jun	11-Jun	SW	R	1	ND	20	3.0928	0.1727	0.1466	15.25
2-Jun	11-Jun	SW	R	1	ND	20	3.0928	0.0764	0.062	15.25
2-Jun	11-Jun	SW	R	1	ND	50	3.0776	0.36925	0.3211	15.75
2-Jun	11-Jun	SW	R	2	D	4	2.9353	0.952	0.814	26
2-Jun	11-Jun	SW	R	2	D	4	2.9353	0.94085	0.81	26
2-Jun	11-Jun	SW	R	2	D	10	2.973	0.1269	0.1059	22
2-Jun	11-Jun	SW	R	2	D	10	2.973	0.12745	0.101	22
2-Jun	11-Jun	SW	R	2	D	20	2.8926	0.23885	0.1972	29.25
2-Jun	11-Jun	SW	R	2	D	20	2.8926	0.15715	0.128	29.25
2-Jun	11-Jun	SW	R	2	D	50	2.9994	0.03945	0.027	29
2-Jun	11-Jun	SW	R	2	D	50	2.9994	0.0338	0.0226	29
2-Jun	11-Jun	SW	R	T2	ND	4	2.9073	0.75395	0.6381	27.75
2-Jun	11-Jun	SW	R	T2	ND	10	3.018	0.12095	0.0991	17.75
2-Jun	11-Jun	SW	R	T2	ND	10	3.018	0.1547	0.1289	17.75
2-Jun	11-Jun	SW	R	T2	ND	20	3.0038	0.35075	0.2805	18
2-Jun	11-Jun	SW	R	T2	ND	20	3.0038	0.2995	0.2478	18
2-Jun	11-Jun	SW	R	T2	ND	50	3.0206	0.2539	0.2084	17.5
2-Jun	11-Jun	SW	R	3	D	4	2.9948	1.27245	1.079	20.25
2-Jun	11-Jun	SW	R	3	D	4	2.9948	0.4651	0.3814	20.25
2-Jun	11-Jun	SW	R	3	D	10	3.0218	0.066	0.0491	17.5
2-Jun	11-Jun	SW	R	3	D	10	3.0218	0.1237	0.0987	17.5
2-Jun	11-Jun	SW	R	3	D	20	3.0479	0.0422	0.031	16.25
2-Jun	11-Jun	SW	R	3	D	20	3.0479	0.0159	0.005	16.25
2-Jun	11-Jun	SW	R	3	D	37	2.9281	0.10625	0.0843	26.25
2-Jun	11-Jun	SW	R	3	D	37	2.9281	0.0839	0.0637	26.25
2-Jun	11-Jun	SW	R	T3	ND	4	2.9692	0.30335	0.2613	22.25
2-Jun	11-Jun	SW	R	T3	ND	4	2.9692	0.525	0.4496	22.25
2-Jun	11-Jun	SW	R	T3	ND	10	3.0576	0.12935	0.1063	16
2-Jun	11-Jun	SW	R	T3	ND	10	3.0576	0.18465	0.1581	16
2-Jun	11-Jun	SW	R	T3	ND	20	3.0509	0.0859	0.0695	16
2-Jun	11-Jun	SW	R	T3	ND	50	3.0577	0.4232	0.3212	16
2-Jun	11-Jun	SW	R	T3	ND	50	3.0577	-0.3762	-0.3762	16
3-Jun	12-Jun	CL	M	1	D	4	2.9625	2.9843	2.6701	18.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
3-Jun	12-Jun	CL	M	1	D	4	2.9625	0.6832	0.6209	18.25
3-Jun	12-Jun	CL	M	1	D	10	2.9625	0.6377	0.5797	18.25
3-Jun	12-Jun	CL	M	1	D	10	2.9625	0.6627	0.58	18.25
3-Jun	12-Jun	CL	M	1	D	20	2.9708	0.14625	0.1257	17.25
3-Jun	12-Jun	CL	M	1	D	20	2.9708	0.2062	0.1778	17.25
3-Jun	12-Jun	CL	M	1	D	50	2.9553	0.3548	0.3192	19
3-Jun	12-Jun	CL	M	1	D	50	2.9553	0.41105	0.7977	19
3-Jun	12-Jun	CL	M	1	ND	4	2.9875	0.0124	0.0044	16
3-Jun	12-Jun	CL	M	1	ND	10	3.0343	0.2113	0.1834	12.25
3-Jun	12-Jun	CL	M	1	ND	10	3.0343	0.0464	0.0399	12.25
3-Jun	12-Jun	CL	M	1	ND	20	3.0408	1.12705	0.7382	12.25
3-Jun	12-Jun	CL	M	1	ND	20	3.0408	1.6864	1.2931	12.25
3-Jun	12-Jun	CL	M	1	ND	50	3.066	0.08905	0.0775	12
3-Jun	12-Jun	CL	M	1	ND	50	3.066	0.0274	0.0198	12
3-Jun	12-Jun	CL	M	2	D	4	3.0345	0.3292	0.281	12.25
3-Jun	12-Jun	CL	M	2	D	4	3.0345	0.2267	0.2039	12.25
3-Jun	12-Jun	CL	M	2	D	10	3.056	0.2726	0.2358	12.25
3-Jun	12-Jun	CL	M	2	D	10	3.056	0.34465	0.3009	12.25
3-Jun	12-Jun	CL	M	2	D	20	2.9905	0.2564	0.2222	16
3-Jun	12-Jun	CL	M	2	D	20	2.9905	0.4482	0.4069	16
3-Jun	12-Jun	CL	M	2	D	50	2.9993	0.6646	0.5368	15
3-Jun	12-Jun	CL	M	2	D	50	2.9993	0.99465	0.7752	15
3-Jun	12-Jun	CL	M	2	ND	4	2.9695	0.36325	0.2966	17.5
3-Jun	12-Jun	CL	M	2	ND	4	2.9695	0.352	0.2854	17.5
3-Jun	12-Jun	CL	M	2	ND	10	3.0223	0.12595	0.1035	13.25
3-Jun	12-Jun	CL	M	2	ND	10	3.0223	0.30925	0.268	13.25
3-Jun	12-Jun	CL	M	2	ND	20	3.0373	0.1299	0.0936	12.25
3-Jun	12-Jun	CL	M	2	ND	20	3.0373	0.199	0.1632	12.25
4-Jun	13-Jun	CL	L	1	D	4	2.8343	2.2454	1.9676	27
4-Jun	13-Jun	CL	L	1	D	4	2.8343	3.05355	2.6862	27
4-Jun	13-Jun	CL	L	1	D	10	2.9213	0.5558	0.4988	17.75
4-Jun	13-Jun	CL	L	1	D	10	2.9213	1.0294	0.9141	17.75
4-Jun	13-Jun	CL	L	1	D	20	2.9213	0.98315	0.8681	17.75
4-Jun	13-Jun	CL	L	1	D	20	2.9213	0.72955	0.6318	17.75
4-Jun	13-Jun	CL	L	1	D	50	2.8905	0.1169	0.102	21
4-Jun	13-Jun	CL	L	1	D	50	2.8905	0.13565	0.1169	21
4-Jun	13-Jun	CL	L	1	D	85	2.9958	0.1175	0.1067	11.75
4-Jun	13-Jun	CL	L	1	D	85	2.9958	0.2023	0.1783	11.75
4-Jun	13-Jun	CL	L	1	ND	4	2.866	0.1408	0.1228	22.75
4-Jun	13-Jun	CL	L	1	ND	4	2.866	0.2174	0.1916	22.75
4-Jun	13-Jun	CL	L	1	ND	10	3.0293	0.09695	0.0819	9.75
4-Jun	13-Jun	CL	L	1	ND	10	3.0293	0.1315	0.1161	9.75
4-Jun	13-Jun	CL	L	1	ND	20	3.0563	0.0833	0.0704	9.25
4-Jun	13-Jun	CL	L	1	ND	20	3.0563	0.0868	0.0769	9.25
4-Jun	13-Jun	CL	L	1	ND	40	3.0515	0.082	0.0702	9.25
4-Jun	13-Jun	CL	L	1	ND	40	3.0515	0.1994	0.1858	9.25
4-Jun	13-Jun	CL	R	T1	D	4	2.8685	2.105	1.7672	22.5
4-Jun	13-Jun	CL	R	T1	D	4	2.8685	2.3014	2.0488	22.5
4-Jun	13-Jun	CL	R	T1	D	10	3.052	1.0841	0.9663	9.25
4-Jun	13-Jun	CL	R	T1	D	10	3.052	1.26905	1.135	9.25
4-Jun	13-Jun	CL	R	T1	D	20	3.0647	1.17605	1.061	9.25
4-Jun	13-Jun	CL	R	T1	D	20	3.0647	0.2729	0.2476	9.25
4-Jun	13-Jun	CL	R	T1	D	50	3.0232	0.1985	0.1702	10.25
4-Jun	13-Jun	CL	R	T1	D	50	3.0232	0.43765	0.3863	10.25
4-Jun	13-Jun	CL	R	1	ND	4	3.119	4.54495	4.0557	8.5
4-Jun	13-Jun	CL	R	1	ND	4	3.119	5.11785	4.5523	8.5
4-Jun	13-Jun	CL	R	1	ND	10	3.067	0.17665	0.1584	9
4-Jun	13-Jun	CL	R	1	ND	10	3.067	0.12045	0.1088	9

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
4-Jun	13-Jun	CL	R	1	ND	20	3.0855	0.27945	0.2508	9
4-Jun	13-Jun	CL	R	1	ND	20	3.0855	0.3078	0.2761	9
4-Jun	13-Jun	CL	R	2	D	4	2.9548	0.08955	0.0785	15
4-Jun	13-Jun	CL	R	2	D	4	2.9548	0.12035	0.1031	15
4-Jun	13-Jun	CL	R	2	D	10	3.0165	0.1335	0.1155	10.5
4-Jun	13-Jun	CL	R	2	D	10	3.0165	0.4466	0.3625	10.5
4-Jun	13-Jun	CL	R	2	D	20	3.0253	0.52065	0.4712	10.25
4-Jun	13-Jun	CL	R	2	D	20	3.0253	0.04785	0.0383	10.25
4-Jun	13-Jun	CL	R	2	D	50	3.0683	0.2831	0.2452	9
4-Jun	13-Jun	CL	R	2	D	50	3.0683	0.10635	0.0919	9
4-Jun	13-Jun	CL	R	2	D	75	3.0503	0.0709	0.0575	9.25
4-Jun	13-Jun	CL	R	2	D	75	3.0503	0.1035	0.0874	9.25
4-Jun	13-Jun	CL	R	2	D	95	2.9708	0.1271	0.1123	13.5
4-Jun	13-Jun	CL	R	2	D	95	2.9708	-0.18671	-0.19836	13.5
4-Jun	13-Jun	CL	R	T2	ND	4	2.9764	1.0493	0.9365	13.25
4-Jun	13-Jun	CL	R	T2	ND	4	2.9764	0.9538	0.8629	13.25
4-Jun	13-Jun	CL	R	T2	ND	10	3.089	0.1879	0.1654	9
4-Jun	13-Jun	CL	R	T2	ND	10	3.089	0.15895	0.1353	9
4-Jun	13-Jun	CL	R	T2	ND	20	3.0994	0.11955	0.1051	8.75
4-Jun	13-Jun	CL	R	T2	ND	20	3.0994	0.02325	0.0116	8.75
4-Jun	13-Jun	CL	R	T2	ND	50	3.0578	0.1067	0.094	9.25
4-Jun	13-Jun	CL	R	T2	ND	50	3.0578	0.1617	0.1448	9.25
4-Jun	13-Jun	CL	R	T3	ND	75	3.0295	0.15495	0.1361	9.75
4-Jun	13-Jun	CL	R	T3	ND	75	3.0295	0.17145	0.1541	9.75
4-Jun	13-Jun	CL	R	T3	D	4	2.991	2.5605	2.2723	12.25
4-Jun	13-Jun	CL	R	T3	D	4	2.991	0.2537	0.2276	12.25
4-Jun	13-Jun	CL	R	T3	D	10	3.064	0.1489	0.1284	9.25
4-Jun	13-Jun	CL	R	T3	D	10	3.064	0.1576	0.1404	9.25
4-Jun	13-Jun	CL	R	T3	D	20	3.0078	0.0807	0.0701	10.5
4-Jun	13-Jun	CL	R	T3	D	20	3.0078	0.1233	0.1102	10.5
4-Jun	13-Jun	CL	R	T3	D	50	3.0237	0.21945	0.1953	10.25
4-Jun	13-Jun	CL	R	T3	D	50	3.0237	0.1633	0.1434	10.25
4-Jun	13-Jun	CL	R	T3	D	75	2.9508	0.1414	0.1218	15
4-Jun	13-Jun	CL	R	T3	D	75	2.9508	0.13305	0.1147	15
4-Jun	13-Jun	CL	R	3	ND	4	3.033	0.48595	0.43	9.5
4-Jun	13-Jun	CL	R	3	ND	4	3.033	0.5128	0.4595	9.5
4-Jun	13-Jun	CL	R	3	ND	10	3.0703	0.2889	0.2543	9
4-Jun	13-Jun	CL	R	3	ND	10	3.0703	0.1134	0.0978	9
4-Jun	13-Jun	CL	R	3	ND	20	3.0725	0.11645	0.1022	9
4-Jun	13-Jun	CL	R	3	ND	20	3.0725	0.2539	0.2336	9
4-Jun	13-Jun	CL	R	3	ND	50	2.9675	0.08985	0.0791	13.5
4-Jun	13-Jun	CL	R	3	ND	75	3.033	0.086	0.0748	9.5
4-Jun	13-Jun	CL	R	3	ND	75	3.033	0.05295	0.0439	9.5
4-Jun	13-Jun	CL	MOS	1	D	4	2.9625	0.15715	0.1357	14.25
4-Jun	13-Jun	CL	MOS	1	D	4	2.9625	0.10265	0.0872	14.25
4-Jun	13-Jun	CL	MOS	1	D	10	2.9845	0.1352	0.1193	12.5
4-Jun	13-Jun	CL	MOS	1	D	10	2.9845	0.09265	0.0782	12.5
4-Jun	13-Jun	CL	MOS	1	D	20	3.0198	0.19435	0.1731	10.25
4-Jun	13-Jun	CL	MOS	1	D	20	3.0198	0.1677	0.151	10.25
4-Jun	13-Jun	CL	MOS	1	D	50	3.0353	0.2654	0.2361	9.25
4-Jun	13-Jun	CL	MOS	1	D	50	3.0353	0.2596	0.2344	9.25
10-Jun	29-Jun	SW	M	1	D	4	2.898	0.11315	0.0971	15.75
10-Jun	29-Jun	SW	M	1	D	4	2.898	0.10215	0.0874	15.75
10-Jun	29-Jun	SW	M	1	D	10	2.9934	0.14275	0.1275	3.25
10-Jun	29-Jun	SW	M	1	D	10	2.9934	0.14035	0.125	3.25
10-Jun	29-Jun	SW	M	1	D	20	2.9925	0.13805	0.124	3.25
10-Jun	29-Jun	SW	M	1	D	20	2.9925	0.11965	0.1058	3.25
10-Jun	29-Jun	SW	M	1	D	50	2.9206	0.1106	0.0941	10.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
10-Jun	29-Jun	SW	M	1	D	50	2.9206	0.09685	0.0814	10.5
10-Jun	29-Jun	SW	M	1	D	75	2.9565	0.0934	0.0805	6
10-Jun	29-Jun	SW	M	1	D	75	2.9565	0.05705	0.0437	6
10-Jun	29-Jun	SW	M	1	ND	4	2.8842	0.10405	0.0898	18
10-Jun	29-Jun	SW	M	1	ND	4	2.8842	0.1073	0.0942	18
10-Jun	29-Jun	SW	M	1	ND	10	3.0211	0.08735	0.0772	2.25
10-Jun	29-Jun	SW	M	1	ND	10	3.0211	0.09875	0.0819	2.25
10-Jun	29-Jun	SW	M	1	ND	20	3.1137	0.0758	0.0648	0
10-Jun	29-Jun	SW	M	1	ND	20	3.1137	0.0766	0.0663	0
10-Jun	29-Jun	SW	M	1	ND	50	3.1647	0.0161	0.0116	0
10-Jun	29-Jun	SW	M	1	ND	50	3.1647	0.0252	0.0216	0
10-Jun	29-Jun	SW	M	1	ND	75	3.1078	0.07975	0.0705	0
10-Jun	29-Jun	SW	M	1	ND	75	3.1078	0.0905	0.0787	0
10-Jun	29-Jun	SW	M	2	D	4	2.9552	0.1136	0.0995	6.25
10-Jun	29-Jun	SW	M	2	D	4	2.9552	0.1068	0.0924	6.25
10-Jun	29-Jun	SW	M	2	D	10	2.9203	0.1011	0.0904	10.5
10-Jun	29-Jun	SW	M	2	D	10	2.9203	0.09185	0.0786	10.5
10-Jun	29-Jun	SW	M	2	D	20	2.9382	0.1028	0.0924	7.5
10-Jun	29-Jun	SW	M	2	D	20	2.9382	0.1083	0.0958	7.5
10-Jun	29-Jun	SW	M	2	D	50	2.9488	0.0983	0.0862	6.25
10-Jun	29-Jun	SW	M	2	D	50	2.9488	0.09855	0.085	6.25
10-Jun	29-Jun	SW	M	2	D	75	3.0573	0.08515	0.0753	1
10-Jun	29-Jun	SW	M	2	D	75	3.0573	0.072	0.0621	1
10-Jun	29-Jun	SW	M	2	ND	4	2.9931	0.1069	0.0953	3.25
10-Jun	29-Jun	SW	M	2	ND	4	2.9931	0.05625	0.0462	3.25
10-Jun	29-Jun	SW	M	2	ND	10	3.0926	0.08985	0.0814	0.5
10-Jun	29-Jun	SW	M	2	ND	10	3.0926	0.09905	0.0861	0.5
10-Jun	29-Jun	SW	M	2	ND	20	3.1019	0.0776	0.0688	0.25
10-Jun	29-Jun	SW	M	2	ND	20	3.1019	0.08755	0.0772	0.25
10-Jun	29-Jun	SW	M	2	ND	50	3.0453	0.96975	0.6404	1.25
10-Jun	29-Jun	SW	M	2	ND	50	3.0453	0.53035	0.4063	1.25
10-Jun	29-Jun	SW	M	2	ND	75	3.077	0.0828	0.0749	0.75
10-Jun	29-Jun	SW	M	2	ND	75	3.077	0.0753	0.0656	0.75
10-Jun	29-Jun	SW	L	1	D	4	2.9959	0.115	0.1018	3.25
10-Jun	29-Jun	SW	L	1	D	4	2.9959	0.12755	0.1154	3.25
10-Jun	29-Jun	SW	L	1	D	10	2.9595	0.1243	0.1097	5.75
10-Jun	29-Jun	SW	L	1	D	10	2.9595	0.11595	0.1049	5.75
10-Jun	29-Jun	SW	L	1	D	20	2.8807	0.1841	0.1572	19.25
10-Jun	29-Jun	SW	L	1	D	20	2.8807	0.18665	0.1595	19.25
10-Jun	29-Jun	SW	L	1	D	50	2.9691	0.07965	0.0637	4.75
10-Jun	29-Jun	SW	L	1	D	50	2.9691	0.0909	0.0796	4.75
10-Jun	29-Jun	SW	L	T1	ND	4	3.0025	0.08135	0.0701	3
10-Jun	29-Jun	SW	L	T1	ND	4	3.0025	0.0842	0.0737	3
10-Jun	29-Jun	SW	L	T1	ND	10	3.0624	0.09595	0.086	1
10-Jun	29-Jun	SW	L	T1	ND	10	3.0624	0.09435	0.0827	1
10-Jun	29-Jun	SW	L	T1	ND	20	2.8929	0.1145	0.0996	16.75
10-Jun	29-Jun	SW	L	T1	ND	20	2.8929	0.14415	0.1228	16.75
10-Jun	29-Jun	SW	L	T1	ND	50	2.899	0.122	0.1063	15.25
10-Jun	29-Jun	SW	L	T1	ND	50	2.899	0.1006	0.0861	15.25
10-Jun	29-Jun	SW	L	T2	D	4	2.8572	0.1184	0.1028	25
10-Jun	29-Jun	SW	L	T2	D	4	2.8572	0.1441	0.1293	25
10-Jun	29-Jun	SW	L	T2	D	10	2.952	0.13055	0.1156	6.25
10-Jun	29-Jun	SW	L	T2	D	10	2.952	0.11625	0.1008	6.25
10-Jun	29-Jun	SW	L	T2	D	20	2.988	0.08015	0.0704	3.75
10-Jun	29-Jun	SW	L	T2	D	20	2.988	0.10805	0.0959	3.75
10-Jun	29-Jun	SW	L	T2	D	50	2.9813	0.0838	0.0732	4.25
10-Jun	29-Jun	SW	L	T2	D	50	2.9813	0.0927	0.0814	4.25
10-Jun	29-Jun	SW	L	T2	D	75	2.9513	0.09465	0.0827	6.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
10-Jun	29-Jun	SW	L	T2	D	75	2.9513	0.1156	0.0978	6.25
10-Jun	29-Jun	SW	L	T2	D	100	2.9203	0.10295	0.0878	10.5
10-Jun	29-Jun	SW	L	T2	D	100	2.9203	0.09755	0.0792	10.5
10-Jun	29-Jun	SW	L	T2	D	112	2.9395	0.0994	0.0876	7.25
10-Jun	29-Jun	SW	L	T2	D	112	2.9395	0.10435	0.0898	7.25
10-Jun	29-Jun	SW	L	2	ND	4	3.0692	0.1148	0.1016	0.75
10-Jun	29-Jun	SW	L	2	ND	4	3.0692	0.11305	0.1009	0.75
10-Jun	29-Jun	SW	L	2	ND	12	3.0228	0.10215	0.0894	2
10-Jun	29-Jun	SW	L	2	ND	12	3.0228	0.10345	0.0903	2
10-Jun	29-Jun	SW	L	2	ND	40	3.0232	0.09115	0.0797	2
10-Jun	29-Jun	SW	L	2	ND	40	3.0232	0.0991	0.088	2
11-Jun	30-Jun	SW	R	T1	D	4	2.9905	0.22475	0.1956	5.5
11-Jun	30-Jun	SW	R	T1	D	4	2.9905	0.2732	0.2372	5.5
11-Jun	30-Jun	SW	R	T1	D	10	3.0579	0.13175	0.1208	2.75
11-Jun	30-Jun	SW	R	T1	D	10	3.0579	0.13455	0.1237	2.75
11-Jun	30-Jun	SW	R	T1	D	20	3.0354	0.13275	0.1175	3.25
11-Jun	30-Jun	SW	R	T1	D	20	3.0354	0.1395	0.1263	3.25
11-Jun	30-Jun	SW	R	T1	D	50	3.0326	0.0958	0.0857	3.25
11-Jun	30-Jun	SW	R	T1	D	50	3.0326	0.10225	0.0921	3.25
11-Jun	30-Jun	SW	R	1	ND	4	3.0034	0.12075	0.1106	5
11-Jun	30-Jun	SW	R	1	ND	4	3.0034	0.14885	0.1333	5
11-Jun	30-Jun	SW	R	1	ND	10	3.0556	0.09435	0.0858	2.75
11-Jun	30-Jun	SW	R	1	ND	10	3.0556	0.11375	0.1047	2.75
11-Jun	30-Jun	SW	R	1	ND	20	3.0928	0.1	0.0853	2
11-Jun	30-Jun	SW	R	1	ND	20	3.0928	0.10805	0.097	2
11-Jun	30-Jun	SW	R	1	ND	50	3.0776	0.1171	0.1067	2.5
11-Jun	30-Jun	SW	R	1	ND	50	3.0776	0.10075	0.0921	2.5
11-Jun	30-Jun	SW	R	2	D	4	2.9353	0.14485	0.1286	10.5
11-Jun	30-Jun	SW	R	2	D	4	2.9353	0.13835	0.1214	10.5
11-Jun	30-Jun	SW	R	2	D	10	2.973	0.14335	0.1233	6.75
11-Jun	30-Jun	SW	R	2	D	10	2.973	0.13375	0.1165	6.75
11-Jun	30-Jun	SW	R	2	D	20	2.8926	0.1149	0.0979	18.25
11-Jun	30-Jun	SW	R	2	D	20	2.8926	0.12525	0.1053	18.25
11-Jun	30-Jun	SW	R	2	D	50	2.9994	0.09625	0.085	5.25
11-Jun	30-Jun	SW	R	2	D	50	2.9994	0.09875	0.0869	5.25
11-Jun	30-Jun	SW	R	T2	ND	4	2.9073	0.13325	0.1162	6.75
11-Jun	30-Jun	SW	R	T2	ND	4	2.9073	0.19605	0.1699	6.75
11-Jun	30-Jun	SW	R	T2	ND	10	3.018	0.123	0.1102	4.25
11-Jun	30-Jun	SW	R	T2	ND	10	3.018	0.1249	0.1109	4.25
11-Jun	30-Jun	SW	R	T2	ND	20	3.0038	0.17585	0.1555	5
11-Jun	30-Jun	SW	R	T2	ND	20	3.0038	0.13045	0.1168	5
11-Jun	30-Jun	SW	R	T2	ND	50	3.0206	0.1337	0.1207	4.25
11-Jun	30-Jun	SW	R	T2	ND	50	3.0206	0.1361	0.121	4.25
11-Jun	30-Jun	SW	R	3	D	4	2.9948	0.13135	0.1191	5.25
11-Jun	30-Jun	SW	R	3	D	4	2.9948	0.1271	0.1147	5.25
11-Jun	30-Jun	SW	R	3	D	10	3.0218	0.10225	0.0924	4
11-Jun	30-Jun	SW	R	3	D	10	3.0218	0.10295	0.0929	4
11-Jun	30-Jun	SW	R	3	D	20	3.0479	0.0887	0.0796	3
11-Jun	30-Jun	SW	R	3	D	20	3.0479	0.08935	0.0804	3
11-Jun	30-Jun	SW	R	3	D	37	2.9281	0.09545	0.082	11.5
11-Jun	30-Jun	SW	R	3	D	37	2.9281	0.11655	0.0989	11.5
11-Jun	30-Jun	SW	R	T3	ND	4	2.9692	0.1208	0.1061	7
11-Jun	30-Jun	SW	R	T3	ND	4	2.9692	0.11645	0.1062	7
11-Jun	30-Jun	SW	R	T3	ND	10	3.0576	0.1122	0.0994	2.75
11-Jun	30-Jun	SW	R	T3	ND	10	3.0576	0.1158	0.1047	2.75
11-Jun	30-Jun	SW	R	T3	ND	20	3.0509	0.13205	0.1198	2.75
11-Jun	30-Jun	SW	R	T3	ND	20	3.0509	0.11765	0.1032	2.75
11-Jun	30-Jun	SW	R	T3	ND	50	3.0577	0.0964	0.0864	2.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
11-Jun	30-Jun	SW	R	T3	ND	50	3.0577	0.10675	0.0926	2.75
12-Jun	1-Jul	CL	M	1	D	4	2.9625	0.46645	0.4211	10.25
12-Jun	1-Jul	CL	M	1	D	4	2.9625	0.4597	0.4185	10.25
12-Jun	1-Jul	CL	M	1	D	10	2.9625	0.17475	0.1533	10.25
12-Jun	1-Jul	CL	M	1	D	10	2.9625	0.19535	0.1728	10.25
12-Jun	1-Jul	CL	M	1	D	20	2.9708	0.1427	0.1285	9.5
12-Jun	1-Jul	CL	M	1	D	20	2.9708	0.1378	0.1229	9.5
12-Jun	1-Jul	CL	M	1	D	50	2.9553	0.1695	0.1529	11
12-Jun	1-Jul	CL	M	1	D	50	2.9553	0.16265	0.1448	11
12-Jun	1-Jul	CL	M	1	ND	4	2.9875	0.13895	0.1264	8.5
12-Jun	1-Jul	CL	M	1	ND	4	2.9875	0.1276	0.1147	8.5
12-Jun	1-Jul	CL	M	1	ND	10	3.0343	0.1074	0.0933	5.75
12-Jun	1-Jul	CL	M	1	ND	10	3.0343	0.1132	0.1006	5.75
12-Jun	1-Jul	CL	M	1	ND	20	3.0408	0.1033	0.0895	5.75
12-Jun	1-Jul	CL	M	1	ND	20	3.0408	0.1126	0.097	5.75
12-Jun	1-Jul	CL	M	1	ND	50	3.066	0.09865	0.0951	5.25
12-Jun	1-Jul	CL	M	1	ND	50	3.066	0.1132	0.1018	5.25
12-Jun	1-Jul	CL	M	2	D	4	3.0345	0.21245	0.1824	5.75
12-Jun	1-Jul	CL	M	2	D	4	3.0345	0.2263	0.2012	5.75
12-Jun	1-Jul	CL	M	2	D	10	3.056	0.1361	0.1222	5.25
12-Jun	1-Jul	CL	M	2	D	10	3.056	0.13885	0.1231	5.25
12-Jun	1-Jul	CL	M	2	D	20	2.9905	0.1299	0.1165	8
12-Jun	1-Jul	CL	M	2	D	20	2.9905	0.15295	0.1346	8
12-Jun	1-Jul	CL	M	2	D	50	2.9993	0.10965	0.0994	7.75
12-Jun	1-Jul	CL	M	2	D	50	2.9993	0.1154	0.1021	7.75
12-Jun	1-Jul	CL	M	2	ND	4	2.9695	0.1269	0.1153	9.5
12-Jun	1-Jul	CL	M	2	ND	4	2.9695	0.1172	0.1061	9.5
12-Jun	1-Jul	CL	M	2	ND	10	3.0223	0.08315	0.0758	6.5
12-Jun	1-Jul	CL	M	2	ND	10	3.0223	0.12035	0.1092	6.5
12-Jun	1-Jul	CL	M	2	ND	20	3.0373	0.11655	0.1036	5.75
12-Jun	1-Jul	CL	M	2	ND	20	3.0373	0.08835	0.0793	5.75
13-Jun	2-Jul	CL	L	1	D	4	2.8343	2.25495	1.9852	35
13-Jun	2-Jul	CL	L	1	D	4	2.8343	2.2791	2.0209	35
13-Jun	2-Jul	CL	L	1	D	10	2.9213	0.44785	0.4008	18.5
13-Jun	2-Jul	CL	L	1	D	10	2.9213	0.5895	0.5248	18.5
13-Jun	2-Jul	CL	L	1	D	20	2.9213	0.4337	0.3816	18.5
13-Jun	2-Jul	CL	L	1	D	20	2.9213	0.30335	0.2607	18.5
13-Jun	2-Jul	CL	L	1	D	50	2.8905	0.1289	0.1155	24
13-Jun	2-Jul	CL	L	1	D	50	2.8905	0.1658	0.1419	24
13-Jun	2-Jul	CL	L	1	D	85	2.9958	0.1126	0.1028	10.5
13-Jun	2-Jul	CL	L	1	D	85	2.9958	0.1657	0.1508	10.5
13-Jun	2-Jul	CL	L	1	ND	4	2.866	0.3011	0.2668	29.75
13-Jun	2-Jul	CL	L	1	ND	4	2.866	0.35825	0.3167	29.75
13-Jun	2-Jul	CL	L	1	ND	10	3.0293	0.1237	0.111	9
13-Jun	2-Jul	CL	L	1	ND	10	3.0293	0.1035	0.0935	9
13-Jun	2-Jul	CL	L	1	ND	20	3.0563	0.16435	0.1494	7.75
13-Jun	2-Jul	CL	L	1	ND	20	3.0563	0.10045	0.0898	7.75
13-Jun	2-Jul	CL	L	1	ND	40	3.0515	0.10785	0.0968	8
13-Jun	2-Jul	CL	L	1	ND	40	3.0515	0.1217	0.1082	8
13-Jun	2-Jul	CL	R	T1	D	4	2.8685	1.8516	1.6646	28.5
13-Jun	2-Jul	CL	R	T1	D	4	2.8685	1.71925	1.5372	28.5
13-Jun	2-Jul	CL	R	T1	D	10	3.052	0.41465	0.3737	8
13-Jun	2-Jul	CL	R	T1	D	10	3.052	0.5231	0.4683	8
13-Jun	2-Jul	CL	R	T1	D	20	3.0647	0.3295	0.2914	7.75
13-Jun	2-Jul	CL	R	T1	D	20	3.0647	0.2276	0.2032	7.75
13-Jun	2-Jul	CL	R	T1	D	50	3.0232	0.209	0.1858	9.25
13-Jun	2-Jul	CL	R	T1	D	50	3.0232	0.12835	0.1157	9.25
13-Jun	2-Jul	CL	R	1	ND	4	3.119	1.04	0.9432	6

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
13-Jun	2-Jul	CL	R	1	ND	4	3.119	2.001	1.7813	6
13-Jun	2-Jul	CL	R	1	ND	10	3.067	0.30705	0.276	7.5
13-Jun	2-Jul	CL	R	1	ND	10	3.067	0.2038	0.1849	7.5
13-Jun	2-Jul	CL	R	1	ND	20	3.0855	0.223	0.2028	6.75
13-Jun	2-Jul	CL	R	1	ND	20	3.0855	0.15995	0.144	6.75
13-Jun	2-Jul	CL	R	2	D	4	2.9548	0.13315	0.1223	14.5
13-Jun	2-Jul	CL	R	2	D	4	2.9548	0.1578	0.1418	14.5
13-Jun	2-Jul	CL	R	2	D	10	3.0165	0.15835	0.1451	9.75
13-Jun	2-Jul	CL	R	2	D	10	3.0165	0.12875	0.1164	9.75
13-Jun	2-Jul	CL	R	2	D	20	3.0253	0.2099	0.1876	9.25
13-Jun	2-Jul	CL	R	2	D	20	3.0253	0.1456	0.1274	9.25
13-Jun	2-Jul	CL	R	2	D	50	3.0683	0.2562	0.2328	7.5
13-Jun	2-Jul	CL	R	2	D	50	3.0683	0.2614	0.2351	7.5
13-Jun	2-Jul	CL	R	2	D	75	3.0503	0.1828	0.1677	8
13-Jun	2-Jul	CL	R	2	D	75	3.0503	0.1606	0.1436	8
13-Jun	2-Jul	CL	R	2	D	95	2.9708	0.1247	0.1116	12.5
13-Jun	2-Jul	CL	R	2	D	95	2.9708	0.1098	0.0951	12.5
13-Jun	2-Jul	CL	R	T2	ND	4	2.9764	0.7181	0.6376	12
13-Jun	2-Jul	CL	R	T2	ND	4	2.9764	0.5714	0.5151	12
13-Jun	2-Jul	CL	R	T2	ND	10	3.089	0.1871	0.1649	6.5
13-Jun	2-Jul	CL	R	T2	ND	10	3.089	0.18215	0.1565	6.5
13-Jun	2-Jul	CL	R	T2	ND	20	3.0994	0.0885	0.0765	6.25
13-Jun	2-Jul	CL	R	T2	ND	20	3.0994	0.1083	0.0918	6.25
13-Jun	2-Jul	CL	R	T2	ND	50	3.0578	0.17595	0.159	7.75
13-Jun	2-Jul	CL	R	T2	ND	50	3.0578	0.1061	0.0951	7.75
13-Jun	2-Jul	CL	R	T2	ND	75	3.0295	-0.20465	-0.2163	9
13-Jun	2-Jul	CL	R	T2	ND	75	3.0295	0.11515	0.1	9
13-Jun	2-Jul	CL	R	T3	D	4	2.991	0.75545	0.6688	10.75
13-Jun	2-Jul	CL	R	T3	D	4	2.991	0.0919	0.024	10.75
13-Jun	2-Jul	CL	R	T3	D	10	3.064	0.15015	0.1359	7.75
13-Jun	2-Jul	CL	R	T3	D	10	3.064	0.1828	0.1652	7.75
13-Jun	2-Jul	CL	R	T3	D	20	3.0078	0.1142	0.1006	10
13-Jun	2-Jul	CL	R	T3	D	20	3.0078	0.14845	0.1291	10
13-Jun	2-Jul	CL	R	T3	D	50	3.0237	0.1317	0.1173	9.25
13-Jun	2-Jul	CL	R	T3	D	50	3.0237	0.13	0.1163	9.25
13-Jun	2-Jul	CL	R	T3	D	75	2.9508	0.1683	0.14	14.75
13-Jun	2-Jul	CL	R	T3	D	75	2.9508	0.17205	0.1397	14.75
13-Jun	2-Jul	CL	R	3	ND	4	3.033	0.217	0.1953	8.5
13-Jun	2-Jul	CL	R	3	ND	4	3.033	0.2343	0.2044	8.5
13-Jun	2-Jul	CL	R	3	ND	10	3.0703	0.15335	0.1357	7.5
13-Jun	2-Jul	CL	R	3	ND	10	3.0703	0.13395	0.1214	7.5
13-Jun	2-Jul	CL	R	3	ND	20	3.0725	0.1518	0.1355	7.25
13-Jun	2-Jul	CL	R	3	ND	20	3.0725	0.119	0.1051	7.25
13-Jun	2-Jul	CL	R	3	ND	50	2.9675	0.11715	0.1036	12.75
13-Jun	2-Jul	CL	R	3	ND	50	2.9675	0.11025	0.0934	12.75
13-Jun	2-Jul	CL	R	3	ND	75	3.033	0.14325	0.1276	8.5
13-Jun	2-Jul	CL	R	3	ND	75	3.033	0.0929	0.0813	8.5
13-Jun	2-Jul	CL	MOS	1	D	4	2.9625	0.10715	0.0964	13.75
13-Jun	2-Jul	CL	MOS	1	D	4	2.9625	0.1067	0.095	13.75
13-Jun	2-Jul	CL	MOS	1	D	10	2.9845	0.1164	0.1032	11.75
13-Jun	2-Jul	CL	MOS	1	D	10	2.9845	0.10495	0.0912	11.75
13-Jun	2-Jul	CL	MOS	1	D	20	3.0198	0.10445	0.094	9.5
13-Jun	2-Jul	CL	MOS	1	D	20	3.0198	0.09205	0.0828	9.5
13-Jun	2-Jul	CL	MOS	1	D	50	3.0353	0.14505	0.1282	8.5
13-Jun	2-Jul	CL	MOS	1	D	50	3.0353	0.14875	0.1306	8.5
29-Jun	8-Jul	SW	M	1	D	4	2.898	1.26595	1.1484	33.25
29-Jun	8-Jul	SW	M	1	D	4	2.898	0.55865	0.5049	33.25
29-Jun	8-Jul	SW	M	1	D	10	2.9934	0.24905	0.2175	24.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
29-Jun	8-Jul	SW	M	1	D	10	2.9934	0.26255	0.2342	24.25
29-Jun	8-Jul	SW	M	1	D	20	2.9925	0.2167	0.195	24.25
29-Jun	8-Jul	SW	M	1	D	20	2.9925	0.26745	0.2359	24.25
29-Jun	8-Jul	SW	M	1	D	50	2.9206	0.12725	0.1063	31.5
29-Jun	8-Jul	SW	M	1	D	50	2.9206	0.13085	0.1194	31.5
29-Jun	8-Jul	SW	M	1	D	75	2.9565	0.0752	0.0648	29
29-Jun	8-Jul	SW	M	1	D	75	2.9565	0.08095	0.0705	29
29-Jun	8-Jul	SW	M	1	ND	4	2.8842	0.1689	0.1472	34
29-Jun	8-Jul	SW	M	1	ND	4	2.8842	0.1754	0.1504	34
29-Jun	8-Jul	SW	M	1	ND	10	3.0211	0.1362	0.1198	21.5
29-Jun	8-Jul	SW	M	1	ND	10	3.0211	0.09875	0.085	21.5
29-Jun	8-Jul	SW	M	1	ND	20	3.1137	0.1572	0.1384	17.25
29-Jun	8-Jul	SW	M	1	ND	20	3.1137	0.1453	0.1255	17.25
29-Jun	8-Jul	SW	M	1	ND	50	3.1647	0.162	0.1409	14
29-Jun	8-Jul	SW	M	1	ND	50	3.1647	0.1544	0.1359	14
29-Jun	8-Jul	SW	M	1	ND	75	3.1078	0.2356	0.2058	17.25
29-Jun	8-Jul	SW	M	1	ND	75	3.1078	0.15755	0.1376	17.25
29-Jun	8-Jul	SW	M	2	D	4	2.9552	0.19865	0.1781	29
29-Jun	8-Jul	SW	M	2	D	4	2.9552	0.2824	0.2465	29
29-Jun	8-Jul	SW	M	2	D	10	2.9203	0.2089	0.1818	31.5
29-Jun	8-Jul	SW	M	2	D	10	2.9203	0.1856	0.1582	31.5
29-Jun	8-Jul	SW	M	2	D	20	2.9382	0.1102	0.0927	31.25
29-Jun	8-Jul	SW	M	2	D	20	2.9382	0.1085	0.0929	31.25
29-Jun	8-Jul	SW	M	2	D	50	2.9488	0.10155	0.0893	29.75
29-Jun	8-Jul	SW	M	2	D	50	2.9488	0.111	0.0896	29.75
29-Jun	8-Jul	SW	M	2	D	75	3.0573	0.1399	0.1226	18.5
29-Jun	8-Jul	SW	M	2	D	75	3.0573	0.12035	0.1023	18.5
29-Jun	8-Jul	SW	M	2	ND	4	2.9931	0.15205	0.1347	24.25
29-Jun	8-Jul	SW	M	2	ND	4	2.9931	0.2168	0.1919	24.25
29-Jun	8-Jul	SW	M	2	ND	10	3.0926	0.22365	0.1988	17.5
29-Jun	8-Jul	SW	M	2	ND	10	3.0926	0.21675	0.1959	17.5
29-Jun	8-Jul	SW	M	2	ND	20	3.1019	0.28155	0.2494	17.25
29-Jun	8-Jul	SW	M	2	ND	20	3.1019	0.215	0.1894	17.25
29-Jun	8-Jul	SW	M	2	ND	50	3.0453	0.2274	0.1687	20.25
29-Jun	8-Jul	SW	M	2	ND	50	3.0453	0.13585	0.1073	20.25
29-Jun	8-Jul	SW	M	2	ND	75	3.077	0.15585	0.1361	18
29-Jun	8-Jul	SW	M	2	ND	75	3.077	0.15905	0.1404	18
29-Jun	8-Jul	SW	L	1	D	4	2.9959	2.086	1.8359	23.75
29-Jun	8-Jul	SW	L	1	D	4	2.9959	1.08175	0.9563	23.75
29-Jun	8-Jul	SW	L	1	D	10	2.9595	0.71395	0.624	28.75
29-Jun	8-Jul	SW	L	1	D	10	2.9595	0.39305	0.3421	28.75
29-Jun	8-Jul	SW	L	1	D	20	2.8807	0.4437	0.3893	34.5
29-Jun	8-Jul	SW	L	1	D	20	2.8807	0.25975	0.2223	34.5
29-Jun	8-Jul	SW	L	1	D	50	2.9691	0.1027	0.0862	27
29-Jun	8-Jul	SW	L	1	D	50	2.9691	0.09565	0.0758	27
29-Jun	8-Jul	SW	L	T1	ND	4	3.0025	2.18555	1.8929	23.5
29-Jun	8-Jul	SW	L	T1	ND	4	3.0025	3.10485	2.7642	23.5
29-Jun	8-Jul	SW	L	T1	ND	10	3.0624	0.28655	0.2492	18.5
29-Jun	8-Jul	SW	L	T1	ND	10	3.0624	0.83045	0.7284	18.5
29-Jun	8-Jul	SW	L	T1	ND	20	2.8929	0.14405	0.1226	33.5
29-Jun	8-Jul	SW	L	T1	ND	20	2.8929	0.1662	0.1428	33.5
29-Jun	8-Jul	SW	L	T1	ND	50	2.899	0.1495	0.1282	33
29-Jun	8-Jul	SW	L	T1	ND	50	2.899	0.16665	0.1429	33
29-Jun	8-Jul	SW	L	T2	D	4	2.8572	3.7952	3.3495	37
29-Jun	8-Jul	SW	L	T2	D	4	2.8572	3.84595	3.4294	37
29-Jun	8-Jul	SW	L	T2	D	10	2.952	0.1753	0.1498	29.5
29-Jun	8-Jul	SW	L	T2	D	10	2.952	0.18315	0.1585	29.5
29-Jun	8-Jul	SW	L	T2	D	20	2.988	0.1229	0.1026	25.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
29-Jun	8-Jul	SW	L	T2	D	20	2.988	0.1594	0.1377	25.25
29-Jun	8-Jul	SW	L	T2	D	50	2.9813	0.08865	0.0774	26.25
29-Jun	8-Jul	SW	L	T2	D	50	2.9813	0.08435	0.0725	26.25
29-Jun	8-Jul	SW	L	T2	D	75	2.9513	0.1359	0.1147	29.5
29-Jun	8-Jul	SW	L	T2	D	75	2.9513	0.1609	0.1361	29.5
29-Jun	8-Jul	SW	L	T2	D	100	2.9203	0.114	0.0929	31.5
29-Jun	8-Jul	SW	L	T2	D	100	2.9203	0.1136	0.0908	31.5
29-Jun	8-Jul	SW	L	T2	D	112	2.9395	0.10125	0.0894	31.25
29-Jun	8-Jul	SW	L	T2	D	112	2.9395	0.09535	0.0792	31.25
29-Jun	8-Jul	SW	L	2	ND	4	3.0692	0.2947	0.2654	18.25
29-Jun	8-Jul	SW	L	2	ND	4	3.0692	0.20845	0.1857	18.25
29-Jun	8-Jul	SW	L	2	ND	12	3.0228	0.09785	0.0814	21.5
29-Jun	8-Jul	SW	L	2	ND	12	3.0228	0.11065	0.0943	21.5
29-Jun	8-Jul	SW	L	2	ND	40	3.0232	0.10515	0.0859	21.25
29-Jun	8-Jul	SW	L	2	ND	40	3.0232	0.11945	0.1021	21.25
30-Jun	9-Jul	SW	R	T1	D	4	2.9905	7.09185	6.2574	22.5
30-Jun	9-Jul	SW	R	T1	D	4	2.9905	3.75925	3.3027	22.5
30-Jun	9-Jul	SW	R	T1	D	10	3.0579	1.86295	1.6319	16.75
30-Jun	9-Jul	SW	R	T1	D	10	3.0579	1.90585	1.665	16.75
30-Jun	9-Jul	SW	R	T1	D	20	3.0354	0.07135	0.0584	16.25
30-Jun	9-Jul	SW	R	T1	D	20	3.0354	0.27295	0.2376	16.25
30-Jun	9-Jul	SW	R	T1	D	50	3.0326	0.04675	0.0403	19
30-Jun	9-Jul	SW	R	T1	D	50	3.0326	0.0486	0.0403	19
30-Jun	9-Jul	SW	R	1	ND	4	3.0034	1.66435	1.4943	21.5
30-Jun	9-Jul	SW	R	1	ND	4	3.0034	0.7272	0.6518	21.5
30-Jun	9-Jul	SW	R	1	ND	10	3.0556	0.10785	0.0936	17
30-Jun	9-Jul	SW	R	1	ND	10	3.0556	0.08265	0.0686	17
30-Jun	9-Jul	SW	R	1	ND	20	3.0928	0.08285	0.0709	16
30-Jun	9-Jul	SW	R	1	ND	20	3.0928	0.12925	0.1162	16
30-Jun	9-Jul	SW	R	1	ND	50	3.0776	0.17195	0.1481	16.25
30-Jun	9-Jul	SW	R	1	ND	50	3.0776	0.16245	0.1444	16.25
30-Jun	9-Jul	SW	R	2	D	4	2.9353	1.2434	1.1006	29.25
30-Jun	9-Jul	SW	R	2	D	4	2.9353	0.6801	0.6039	29.25
30-Jun	9-Jul	SW	R	2	D	10	2.973	0.0872	0.0755	24.25
30-Jun	9-Jul	SW	R	2	D	10	2.973	0.05055	0.0371	24.25
30-Jun	9-Jul	SW	R	2	D	20	2.8926	0.2738	0.2353	32.5
30-Jun	9-Jul	SW	R	2	D	20	2.8926	0.26805	0.2343	32.5
30-Jun	9-Jul	SW	R	2	D	50	2.9994	0.07505	0.0638	21.5
30-Jun	9-Jul	SW	R	2	D	50	2.9994	-0.0149	-0.0196	21.5
30-Jun	9-Jul	SW	R	T2	ND	4	2.9073	1.8813	1.6529	30.5
30-Jun	9-Jul	SW	R	T2	ND	4	2.9073	1.5576	1.3757	30.5
30-Jun	9-Jul	SW	R	T2	ND	10	3.018	0.04045	0.0301	19.75
30-Jun	9-Jul	SW	R	T2	ND	10	3.018	0.08475	0.0683	19.75
30-Jun	9-Jul	SW	R	T2	ND	20	3.0038	0.21635	0.1667	21.5
30-Jun	9-Jul	SW	R	T2	ND	20	3.0038	0.10125	0.0839	21.5
30-Jun	9-Jul	SW	R	T2	ND	50	3.0206	0.0921	0.0753	19.5
30-Jun	9-Jul	SW	R	T2	ND	50	3.0206	0.1114	0.0936	19.5
30-Jun	9-Jul	SW	R	3	D	4	2.9948	1.3886	1.2226	22.25
30-Jun	9-Jul	SW	R	3	D	4	2.9948	0.7167	0.6177	22.25
30-Jun	9-Jul	SW	R	3	D	10	3.0218	0.0248	0.015	19.5
30-Jun	9-Jul	SW	R	3	D	10	3.0218	0.10125	0.0894	19.5
30-Jun	9-Jul	SW	R	3	D	20	3.0479	0.0479	0.0371	18
30-Jun	9-Jul	SW	R	3	D	20	3.0479	0.04735	0.039	18
30-Jun	9-Jul	SW	R	3	D	37	2.9281	0.0967	0.082	29.5
30-Jun	9-Jul	SW	R	3	D	37	2.9281	0.13135	0.1106	29.5
30-Jun	9-Jul	SW	R	T3	ND	4	2.9692	1.0861	0.9597	24.75
30-Jun	9-Jul	SW	R	T3	ND	4	2.9692	1.23025	1.0822	24.75
30-Jun	9-Jul	SW	R	T3	ND	10	3.0576	0.1142	0.1055	16.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
30-Jun	9-Jul	SW	R	T3	ND	10	3.0576	0.14395	0.1258	16.75
30-Jun	9-Jul	SW	R	T3	ND	20	3.0509	0.09925	0.0826	17.5
30-Jun	9-Jul	SW	R	T3	ND	20	3.0509	0.1398	0.1165	17.5
30-Jun	9-Jul	SW	R	T3	ND	50	3.0577	0.13395	0.0984	16.75
30-Jun	9-Jul	SW	R	T3	ND	50	3.0577	0.0406	0.0241	16.75
1-Jul	10-Jul	CL	M	1	D	4	2.9625	3.93615	3.588	23.75
1-Jul	10-Jul	CL	M	1	D	4	2.9625	2.6097	2.3771	23.75
1-Jul	10-Jul	CL	M	1	D	10	2.9625	0.8076	0.7328	23.75
1-Jul	10-Jul	CL	M	1	D	10	2.9625	0.9495	0.8605	23.75
1-Jul	10-Jul	CL	M	1	D	20	2.9708	0.1408	0.1254	21.75
1-Jul	10-Jul	CL	M	1	D	20	2.9708	0.13895	0.1211	21.75
1-Jul	10-Jul	CL	M	1	D	50	2.9553	0.1743	0.1549	24.25
1-Jul	10-Jul	CL	M	1	D	50	2.9553	0.1789	0.1586	24.25
1-Jul	10-Jul	CL	M	1	ND	4	2.9875	0.1458	0.1312	20.75
1-Jul	10-Jul	CL	M	1	ND	4	2.9875	0.12885	0.1096	20.75
1-Jul	10-Jul	CL	M	1	ND	10	3.0343	0.0727	0.0639	16.25
1-Jul	10-Jul	CL	M	1	ND	10	3.0343	0.10095	0.0902	16.25
1-Jul	10-Jul	CL	M	1	ND	20	3.0408	0.2032	0.175	16
1-Jul	10-Jul	CL	M	1	ND	20	3.0408	0.25455	0.23	16
1-Jul	10-Jul	CL	M	1	ND	50	3.066	0.10755	0.097	14
1-Jul	10-Jul	CL	M	1	ND	50	3.066	-0.00765	-0.011	14
1-Jul	10-Jul	CL	M	2	D	4	3.0345	0.773	0.6921	16.25
1-Jul	10-Jul	CL	M	2	D	4	3.0345	0.85185	0.7661	16.25
1-Jul	10-Jul	CL	M	2	D	10	3.056	0.22725	0.2032	14.5
1-Jul	10-Jul	CL	M	2	D	10	3.056	0.171	0.1557	14.5
1-Jul	10-Jul	CL	M	2	D	20	2.9905	0.1425	0.1257	20
1-Jul	10-Jul	CL	M	2	D	20	2.9905	0.04165	0.0336	20
1-Jul	10-Jul	CL	M	2	D	50	2.9993	0.1502	0.1393	19
1-Jul	10-Jul	CL	M	2	D	50	2.9993	0.1629	0.1376	19
1-Jul	10-Jul	CL	M	2	ND	4	2.9695	0.11425	0.101	22
1-Jul	10-Jul	CL	M	2	ND	4	2.9695	0.0596	0.0448	22
1-Jul	10-Jul	CL	M	2	ND	10	3.0223	0.08375	0.072	17
1-Jul	10-Jul	CL	M	2	ND	10	3.0223	0.00255	0.0008	17
1-Jul	10-Jul	CL	M	2	ND	20	3.0373	0.1232	0.1105	16.25
1-Jul	10-Jul	CL	M	2	ND	20	3.0373	-0.00555	-0.0095	16.25
2-Jul	11-Jul	CL	L	1	D	4	2.8343	6.1314	5.4514	31
2-Jul	11-Jul	CL	L	1	D	4	2.8343	6.1409	5.4544	31
2-Jul	11-Jul	CL	L	1	D	10	2.9213	0.7097	0.634	22.75
2-Jul	11-Jul	CL	L	1	D	10	2.9213	1.0952	0.972	22.75
2-Jul	11-Jul	CL	L	1	D	20	2.9213	1.22955	1.0797	22.75
2-Jul	11-Jul	CL	L	1	D	20	2.9213	1.1646	1.0336	22.75
2-Jul	11-Jul	CL	L	1	D	50	2.8905	0.13995	0.1235	25.75
2-Jul	11-Jul	CL	L	1	D	50	2.8905	0.1823	0.1608	25.75
2-Jul	11-Jul	CL	L	1	D	85	2.9958	0.0843	0.0734	16.5
2-Jul	11-Jul	CL	L	1	D	85	2.9958	0.10465	0.0925	16.5
2-Jul	11-Jul	CL	L	1	ND	4	2.866	0.3665	0.3236	28.5
2-Jul	11-Jul	CL	L	1	ND	4	2.866	0.4181	0.3684	28.5
2-Jul	11-Jul	CL	L	1	ND	10	3.0293	0.0886	0.0761	13.75
2-Jul	11-Jul	CL	L	1	ND	10	3.0293	0.11895	0.1023	13.75
2-Jul	11-Jul	CL	L	1	ND	20	3.0563	0.10035	0.0881	12
2-Jul	11-Jul	CL	L	1	ND	20	3.0563	0.10885	0.1048	12
2-Jul	11-Jul	CL	L	1	ND	40	3.0515	0.12265	0.1034	12.5
2-Jul	11-Jul	CL	L	1	ND	40	3.0515	0.12055	0.1012	12.5
2-Jul	11-Jul	CL	R	T1	D	4	2.8685	5.2556	4.6935	28
2-Jul	11-Jul	CL	R	T1	D	4	2.8685	4.72945	4.2419	28
2-Jul	11-Jul	CL	R	T1	D	10	3.052	1.4422	1.2928	12.25
2-Jul	11-Jul	CL	R	T1	D	10	3.052	1.8613	1.6736	12.25
2-Jul	11-Jul	CL	R	T1	D	20	3.0647	1.3802	1.2586	11.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
2-Jul	11-Jul	CL	R	T1	D	20	3.0647	0.8846	0.7861	11.5
2-Jul	11-Jul	CL	R	T1	D	50	3.0232	0.0733	0.0587	14
2-Jul	11-Jul	CL	R	T1	D	50	3.0232	0.06665	0.056	14
2-Jul	11-Jul	CL	R	1	ND	4	3.119	5.74825	5.1236	11.25
2-Jul	11-Jul	CL	R	1	ND	10	3.067	0.19905	0.161	11.5
2-Jul	11-Jul	CL	R	1	ND	10	3.067	0.46735	0.4232	11.5
2-Jul	11-Jul	CL	R	1	ND	20	3.0855	0.4687	0.4171	11.5
2-Jul	11-Jul	CL	R	1	ND	20	3.0855	0.4267	0.38	11.5
2-Jul	11-Jul	CL	R	2	D	4	2.9548	0.1596	0.1469	20.75
2-Jul	11-Jul	CL	R	2	D	4	2.9548	0.0944	0.0818	20.75
2-Jul	11-Jul	CL	R	2	D	10	3.0165	0.04585	0.0347	14.75
2-Jul	11-Jul	CL	R	2	D	10	3.0165	0.23695	0.1794	14.75
2-Jul	11-Jul	CL	R	2	D	20	3.0253	0.0679	0.0588	14
2-Jul	11-Jul	CL	R	2	D	20	3.0253	0.1036	0.0913	14
2-Jul	11-Jul	CL	R	2	D	50	3.0683	0.1399	0.1114	11.5
2-Jul	11-Jul	CL	R	2	D	75	3.0503	0.1851	0.1698	12.5
2-Jul	11-Jul	CL	R	2	D	75	3.0503	0.09805	0.0832	12.5
2-Jul	11-Jul	CL	R	2	D	95	2.9708	0.1475	0.1337	18.75
2-Jul	11-Jul	CL	R	2	D	95	2.9708	0.11615	0.1036	18.75
2-Jul	11-Jul	CL	R	T2	ND	4	2.9764	2.8759	2.5746	18.5
2-Jul	11-Jul	CL	R	T2	ND	4	2.9764	0.9312	0.8338	18.5
2-Jul	11-Jul	CL	R	T2	ND	10	3.089	0.5389	0.4812	11.5
2-Jul	11-Jul	CL	R	T2	ND	10	3.089	0.27695	0.2427	11.5
2-Jul	11-Jul	CL	R	T2	ND	20	3.0994	0.1535	0.1347	11.25
2-Jul	11-Jul	CL	R	T2	ND	20	3.0994	0.1199	0.0986	11.25
2-Jul	11-Jul	CL	R	T2	ND	50	3.0578	0.04215	0.0286	11.75
2-Jul	11-Jul	CL	R	T2	ND	50	3.0578	0.1077	0.091	11.75
2-Jul	11-Jul	CL	R	T2	ND	75	3.0295	-0.00075	-0.0127	13.75
2-Jul	11-Jul	CL	R	T2	ND	75	3.0295	0.06385	0.0511	13.75
2-Jul	11-Jul	CL	R	T3	D	4	2.991	1.26065	1.1299	17.25
2-Jul	11-Jul	CL	R	T3	D	4	2.991	1.3419	1.2097	17.25
2-Jul	11-Jul	CL	R	T3	D	10	3.064	0.1554	0.1375	11.5
2-Jul	11-Jul	CL	R	T3	D	10	3.064	0.15775	0.139	11.5
2-Jul	11-Jul	CL	R	T3	D	20	3.0078	0.07715	0.0632	16.25
2-Jul	11-Jul	CL	R	T3	D	20	3.0078	0.1092	0.0939	16.25
2-Jul	11-Jul	CL	R	T3	D	50	3.0237	0.07265	0.0596	14
2-Jul	11-Jul	CL	R	T3	D	50	3.0237	0.12305	0.1072	14
2-Jul	11-Jul	CL	R	T3	D	75	2.9508	0.1908	0.1508	21.25
2-Jul	11-Jul	CL	R	T3	D	75	2.9508	0.1515	0.1179	21.25
2-Jul	11-Jul	CL	R	3	ND	4	3.033	0.14065	0.122	13.75
2-Jul	11-Jul	CL	R	3	ND	4	3.033	0.316	0.2831	13.75
2-Jul	11-Jul	CL	R	3	ND	10	3.0703	0.0799	0.0642	11.5
2-Jul	11-Jul	CL	R	3	ND	10	3.0703	0.14035	0.1219	11.5
2-Jul	11-Jul	CL	R	3	ND	20	3.0725	0.17005	0.1478	11.5
2-Jul	11-Jul	CL	R	3	ND	20	3.0725	0.1683	0.1456	11.5
2-Jul	11-Jul	CL	R	3	ND	50	2.9675	0.09135	0.0768	19.5
2-Jul	11-Jul	CL	R	3	ND	50	2.9675	0.0995	0.0837	19.5
2-Jul	11-Jul	CL	R	3	ND	75	3.033	0.1061	0.0895	13.75
2-Jul	11-Jul	CL	R	3	ND	75	3.033	0.20035	0.1822	13.75
2-Jul	11-Jul	CL	MOS	1	D	4	2.9625	0.0797	0.0699	20.25
2-Jul	11-Jul	CL	MOS	1	D	4	2.9625	0.04585	0.0371	20.25
2-Jul	11-Jul	CL	MOS	1	D	10	2.9845	0.0773	0.0654	17.75
2-Jul	11-Jul	CL	MOS	1	D	10	2.9845	0.03145	0.0247	17.75
2-Jul	11-Jul	CL	MOS	1	D	20	3.0198	0.0442	0.0329	14.25
2-Jul	11-Jul	CL	MOS	1	D	20	3.0198	0.08605	0.0697	14.25
2-Jul	11-Jul	CL	MOS	1	D	50	3.0353	0.1804	0.1417	13.5
2-Jul	11-Jul	CL	MOS	1	D	50	3.0353	0.16455	0.1352	13.5
8-Jul	29-Jul	SW	M	1	D	4	2.898	0.1558	0.1292	21

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
8-Jul	29-Jul	SW	M	1	D	4	2.898	0.1832	0.1576	21
8-Jul	29-Jul	SW	M	1	D	10	2.9934	0.1402	0.1224	10.5
8-Jul	29-Jul	SW	M	1	D	10	2.9934	0.15335	0.1289	10.5
8-Jul	29-Jul	SW	M	1	D	20	2.9925	0.10795	0.0903	10.5
8-Jul	29-Jul	SW	M	1	D	20	2.9925	0.14935	0.1252	10.5
8-Jul	29-Jul	SW	M	1	D	50	2.9206	0.0894	0.0679	17.75
8-Jul	29-Jul	SW	M	1	D	50	2.9206	0.095	0.0696	17.75
8-Jul	29-Jul	SW	M	1	D	75	2.9565	0.06405	0.0475	13.5
8-Jul	29-Jul	SW	M	1	D	75	2.9565	0.09775	0.0805	13.5
8-Jul	29-Jul	SW	M	1	ND	4	2.8842	0.14745	0.1142	23.5
8-Jul	29-Jul	SW	M	1	ND	4	2.8842	0.11755	0.092	23.5
8-Jul	29-Jul	SW	M	1	ND	10	3.0211	0.11865	0.1026	7
8-Jul	29-Jul	SW	M	1	ND	10	3.0211	0.1196	0.0982	7
8-Jul	29-Jul	SW	M	1	ND	20	3.1137	0.12035	0.1029	2
8-Jul	29-Jul	SW	M	1	ND	20	3.1137	0.11395	0.0963	2
8-Jul	29-Jul	SW	M	1	ND	50	3.1647	0.1141	0.0952	1
8-Jul	29-Jul	SW	M	1	ND	50	3.1647	0.13255	0.1102	1
8-Jul	29-Jul	SW	M	1	ND	75	3.1078	0.11245	0.0883	2
8-Jul	29-Jul	SW	M	1	ND	75	3.1078	0.11705	0.094	2
8-Jul	29-Jul	SW	M	2	D	4	2.9552	0.12565	0.1062	13.75
8-Jul	29-Jul	SW	M	2	D	4	2.9552	0.1488	0.1251	13.75
8-Jul	29-Jul	SW	M	2	D	10	2.9203	0.11895	0.0965	17.75
8-Jul	29-Jul	SW	M	2	D	10	2.9203	0.113	0.0899	17.75
8-Jul	29-Jul	SW	M	2	D	20	2.9382	0.09765	0.0793	15.5
8-Jul	29-Jul	SW	M	2	D	20	2.9382	0.11415	0.0892	15.5
8-Jul	29-Jul	SW	M	2	D	50	2.9488	0.1371	0.0987	14.75
8-Jul	29-Jul	SW	M	2	D	75	3.0573	0.108	0.0898	5.5
8-Jul	29-Jul	SW	M	2	D	75	3.0573	0.1148	0.0874	5.5
8-Jul	29-Jul	SW	M	2	ND	4	2.9931	0.1466	0.1237	10.5
8-Jul	29-Jul	SW	M	2	ND	4	2.9931	0.14425	0.1247	10.5
8-Jul	29-Jul	SW	M	2	ND	10	3.0926	0.1204	0.102	2.75
8-Jul	29-Jul	SW	M	2	ND	10	3.0926	0.1415	0.1153	2.75
8-Jul	29-Jul	SW	M	2	ND	20	3.1019	0.122	0.0996	2
8-Jul	29-Jul	SW	M	2	ND	20	3.1019	0.07735	0.0507	2
8-Jul	29-Jul	SW	M	2	ND	50	3.0453	0.1987	0.1783	6
8-Jul	29-Jul	SW	M	2	ND	50	3.0453	0.13105	0.1074	6
8-Jul	29-Jul	SW	M	2	ND	75	3.077	0.10445	0.0865	4.25
8-Jul	29-Jul	SW	M	2	ND	75	3.077	0.0967	0.0813	4.25
8-Jul	29-Jul	SW	L	1	D	4	2.9959	0.1627	0.0947	9.5
8-Jul	29-Jul	SW	L	1	D	4	2.9959	0.12505	0.1086	9.5
8-Jul	29-Jul	SW	L	1	D	10	2.9595	0.16135	0.1353	13.5
8-Jul	29-Jul	SW	L	1	D	10	2.9595	0.16625	0.1382	13.5
8-Jul	29-Jul	SW	L	1	D	20	2.8807	0.2165	0.1703	24.25
8-Jul	29-Jul	SW	L	1	D	20	2.8807	0.143	0.1088	24.25
8-Jul	29-Jul	SW	L	1	D	50	2.9691	0.1182	0.0791	13.25
8-Jul	29-Jul	SW	L	1	D	50	2.9691	0.11735	0.09	13.25
8-Jul	29-Jul	SW	L	T1	ND	4	3.0025	0.17025	0.1511	9.25
8-Jul	29-Jul	SW	L	T1	ND	4	3.0025	0.1536	0.1367	9.25
8-Jul	29-Jul	SW	L	T1	ND	10	3.0624	0.1271	0.1231	5
8-Jul	29-Jul	SW	L	T1	ND	10	3.0624	0.1521	0.1273	5
8-Jul	29-Jul	SW	L	T1	ND	20	2.8929	0.14965	0.1236	22
8-Jul	29-Jul	SW	L	T1	ND	20	2.8929	0.17595	0.1437	22
8-Jul	29-Jul	SW	L	T1	ND	50	2.899	0.14835	0.1247	20.75
8-Jul	29-Jul	SW	L	T1	ND	50	2.899	0.14185	0.1128	20.75
8-Jul	29-Jul	SW	L	T2	D	4	2.8572	0.19545	0.1528	28
8-Jul	29-Jul	SW	L	T2	D	4	2.8572	0.1408	0.1139	28
8-Jul	29-Jul	SW	L	T2	D	10	2.952	0.1687	0.1408	14.5
8-Jul	29-Jul	SW	L	T2	D	10	2.952	0.1633	0.1346	14.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
8-Jul	29-Jul	SW	L	T2	D	20	2.988	0.1248	0.1073	11.5
8-Jul	29-Jul	SW	L	T2	D	20	2.988	0.1434	0.123	11.5
8-Jul	29-Jul	SW	L	T2	D	50	2.9813	0.1228	0.1052	12
8-Jul	29-Jul	SW	L	T2	D	50	2.9813	0.0992	0.0846	12
8-Jul	29-Jul	SW	L	T2	D	75	2.9513	0.1276	0.1004	14.75
8-Jul	29-Jul	SW	L	T2	D	75	2.9513	0.12555	0.1011	14.75
8-Jul	29-Jul	SW	L	T2	D	100	2.9203	0.1168	0.0892	17.75
8-Jul	29-Jul	SW	L	T2	D	100	2.9203	0.11685	0.092	17.75
8-Jul	29-Jul	SW	L	T2	D	112	2.9395	0.0997	0.0826	15.5
8-Jul	29-Jul	SW	L	T2	D	112	2.9395	0.1354	0.1072	15.5
8-Jul	29-Jul	SW	L	2	ND	4	3.0692	0.1611	0.1399	4.75
8-Jul	29-Jul	SW	L	2	ND	4	3.0692	0.11975	0.0993	4.75
8-Jul	29-Jul	SW	L	2	ND	12	3.0228	0.151	0.1325	7
8-Jul	29-Jul	SW	L	2	ND	12	3.0228	0.1371	0.1186	7
8-Jul	29-Jul	SW	L	2	ND	40	3.0232	0.1147	0.0945	7
8-Jul	29-Jul	SW	L	2	ND	40	3.0232	0.11415	0.0966	7
8-Jul	29-Jul	SW	L	T3	D	4	2.9746	0.15965	0.1421	12.5
8-Jul	29-Jul	SW	L	T3	D	4	2.9746	0.22025	0.1901	12.5
8-Jul	29-Jul	SW	L	T3	D	20	2.9632	0.1246	0.1062	13.5
8-Jul	29-Jul	SW	L	T3	D	20	2.9632	0.1222	0.1033	13.5
8-Jul	29-Jul	SW	L	T3	D	50	2.9167	0.09665	0.0795	18
8-Jul	29-Jul	SW	L	T3	D	50	2.9167	0.1083	0.0905	18
9-Jul	30-Jul	SW	R	T1	D	4	2.9905	0.4772	0.4433	13.75
9-Jul	30-Jul	SW	R	T1	D	4	2.9905	0.503	0.4365	13.75
9-Jul	30-Jul	SW	R	T1	D	10	3.0579	0.1592	0.1402	5.5
9-Jul	30-Jul	SW	R	T1	D	10	3.0579	0.18515	0.1791	5.5
9-Jul	30-Jul	SW	R	T1	D	20	3.0354	0.4174	0.3981	9.5
9-Jul	30-Jul	SW	R	T1	D	20	3.0354	0.1618	0.1395	9.5
9-Jul	30-Jul	SW	R	T1	D	50	3.0326	0.12855	0.1118	9.5
9-Jul	30-Jul	SW	R	T1	D	50	3.0326	0.13125	0.1138	9.5
9-Jul	30-Jul	SW	R	1	ND	4	3.0034	0.1795	0.1572	11.25
9-Jul	30-Jul	SW	R	1	ND	4	3.0034	0.18415	0.1612	11.25
9-Jul	30-Jul	SW	R	1	ND	10	3.0556	0.1443	0.1236	8
9-Jul	30-Jul	SW	R	1	ND	10	3.0556	0.14495	0.1351	8
9-Jul	30-Jul	SW	R	1	ND	20	3.0928	0.142	0.1205	4.75
9-Jul	30-Jul	SW	R	1	ND	20	3.0928	0.1261	0.1035	4.75
9-Jul	30-Jul	SW	R	1	ND	50	3.0776	0.13055	0.1082	6.5
9-Jul	30-Jul	SW	R	1	ND	50	3.0776	0.10465	0.09	6.5
9-Jul	30-Jul	SW	R	2	D	4	2.9353	0.1858	0.1569	18.25
9-Jul	30-Jul	SW	R	2	D	4	2.9353	0.1844	0.1561	18.25
9-Jul	30-Jul	SW	R	2	D	10	2.973	0.1213	0.1029	15.5
9-Jul	30-Jul	SW	R	2	D	10	2.973	0.168	0.1377	15.5
9-Jul	30-Jul	SW	R	2	D	20	2.8926	0.1479	0.1178	23.5
9-Jul	30-Jul	SW	R	2	D	20	2.8926	0.11345	0.0919	23.5
9-Jul	30-Jul	SW	R	2	D	50	2.9994	0.1145	0.0975	12
9-Jul	30-Jul	SW	R	T2	ND	4	2.9073	0.1554	0.1283	21.5
9-Jul	30-Jul	SW	R	T2	ND	4	2.9073	0.1579	0.1327	21.5
9-Jul	30-Jul	SW	R	T2	ND	10	3.018	0.1514	0.1408	10.25
9-Jul	30-Jul	SW	R	T2	ND	10	3.018	0.1215	0.1027	10.25
9-Jul	30-Jul	SW	R	T2	ND	20	3.0038	0.21945	0.1745	11.25
9-Jul	30-Jul	SW	R	T2	ND	20	3.0038	0.17215	0.1407	11.25
9-Jul	30-Jul	SW	R	T2	ND	50	3.0206	0.1385	0.1262	9.5
9-Jul	30-Jul	SW	R	T2	ND	50	3.0206	0.1429	0.1145	9.5
9-Jul	30-Jul	SW	R	3	D	4	2.9948	0.1395	0.1218	12.25
9-Jul	30-Jul	SW	R	3	D	4	2.9948	0.13075	0.1131	12.25
9-Jul	30-Jul	SW	R	3	D	10	3.0218	0.13005	0.1139	9.5
9-Jul	30-Jul	SW	R	3	D	20	3.0479	0.12275	0.1056	8.5
9-Jul	30-Jul	SW	R	3	D	20	3.0479	0.13365	0.1148	8.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
9-Jul	30-Jul	SW	R	3	D	50	2.9281	0.1508	0.1238	19
9-Jul	30-Jul	SW	R	3	D	50	2.9281	0.13625	0.1077	19
9-Jul	30-Jul	SW	R	T3	ND	4	2.9692	0.14875	0.1421	15.75
9-Jul	30-Jul	SW	R	T3	ND	4	2.9692	0.19085	0.1674	15.75
9-Jul	30-Jul	SW	R	T3	ND	10	3.0576	0.11785	0.0937	8
9-Jul	30-Jul	SW	R	T3	ND	20	3.0509	0.1324	0.1144	8.5
9-Jul	30-Jul	SW	R	T3	ND	20	3.0509	0.17705	0.1466	8.5
9-Jul	30-Jul	SW	R	T3	ND	50	3.0577	0.114	0.0925	8
9-Jul	30-Jul	SW	R	T3	ND	50	3.0577	0.11715	0.0979	8
10-Jul	31-Jul	CL	M	1	D	4	2.9625	0.51495	0.4613	18.75
10-Jul	31-Jul	CL	M	1	D	4	2.9625	0.61595	0.5561	18.75
10-Jul	31-Jul	CL	M	1	D	10	2.9625	0.17825	0.1598	18.75
10-Jul	31-Jul	CL	M	1	D	10	2.9625	0.1776	0.1583	18.75
10-Jul	31-Jul	CL	M	1	D	20	2.9708	0.1523	0.1318	18.25
10-Jul	31-Jul	CL	M	1	D	50	2.9553	0.1433	0.1288	19.5
10-Jul	31-Jul	CL	M	1	D	50	2.9553	0.1565	0.1377	19.5
10-Jul	31-Jul	CL	M	1	ND	4	2.9875	0.13935	0.1203	16.5
10-Jul	31-Jul	CL	M	1	ND	4	2.9875	0.131	0.1113	16.5
10-Jul	31-Jul	CL	M	1	ND	10	3.0343	0.201	0.1697	12
10-Jul	31-Jul	CL	M	1	ND	10	3.0343	0.16105	0.1378	12
10-Jul	31-Jul	CL	M	1	ND	20	3.0408	0.18475	0.1568	11.75
10-Jul	31-Jul	CL	M	1	ND	20	3.0408	0.28025	0.2454	11.75
10-Jul	31-Jul	CL	M	1	ND	50	3.066	0.11665	0.0948	9.75
10-Jul	31-Jul	CL	M	1	ND	50	3.066	0.08965	0.073	9.75
10-Jul	31-Jul	CL	M	2	D	4	3.0345	0.20255	0.1791	12
10-Jul	31-Jul	CL	M	2	D	10	3.056	0.14115	0.1243	10.5
10-Jul	31-Jul	CL	M	2	D	10	3.056	0.13145	0.112	10.5
10-Jul	31-Jul	CL	M	2	D	20	2.9905	0.11015	0.0912	16.25
10-Jul	31-Jul	CL	M	2	D	20	2.9905	0.1499	0.1265	16.25
10-Jul	31-Jul	CL	M	2	D	50	2.9993	0.14635	0.1178	14.5
10-Jul	31-Jul	CL	M	2	D	50	2.9993	0.1282	0.1085	14.5
10-Jul	31-Jul	CL	M	2	ND	4	2.9695	0.1252	0.1059	18.5
10-Jul	31-Jul	CL	M	2	ND	4	2.9695	0.1449	0.1242	18.5
10-Jul	31-Jul	CL	M	2	ND	10	3.0223	0.1335	0.1147	12
10-Jul	31-Jul	CL	M	2	ND	10	3.0223	0.13385	0.1163	12
10-Jul	31-Jul	CL	M	2	ND	20	3.0373	0.11935	0.1035	12
10-Jul	31-Jul	CL	M	2	ND	20	3.0373	0.1295	0.1123	12
10-Jul	31-Jul	CL	L	T1	ND	4	2.9199	0.1226	0.0974	23.75
10-Jul	31-Jul	CL	L	T1	ND	4	2.9199	0.17285	0.1372	23.75
10-Jul	31-Jul	CL	L	T1	ND	20	3.016	0.14025	0.1156	13.25
10-Jul	31-Jul	CL	L	T1	ND	20	3.016	0.12875	0.1071	13.25
10-Jul	31-Jul	CL	L	T1	ND	50	3.0444	0.33755	0.2913	11.5
10-Jul	31-Jul	CL	L	T1	ND	50	3.0444	0.31195	0.2716	11.5
10-Jul	31-Jul	CL	L	T2	ND	4	2.869	0.1319	0.1003	29.5
10-Jul	31-Jul	CL	L	T2	ND	4	2.869	0.14505	0.1112	29.5
10-Jul	31-Jul	CL	L	T2	ND	20	3.0134	0.1683	0.1401	13.25
10-Jul	31-Jul	CL	L	T2	ND	20	3.0134	0.1301	0.1116	13.25
10-Jul	31-Jul	CL	L	T2	ND	50	3.0491	0.1422	0.1221	11
10-Jul	31-Jul	CL	L	T3	ND	4	2.8459	0.1169	0.087	33.25
10-Jul	31-Jul	CL	L	T3	ND	4	2.8459	0.14325	0.0989	33.25
10-Jul	31-Jul	CL	L	T3	ND	20	3.0247	0.17645	0.1466	12
10-Jul	31-Jul	CL	L	T3	ND	20	3.0247	0.13015	0.1076	12
10-Jul	31-Jul	CL	L	T3	ND	50	3.0625	0.1878	0.1658	10
10-Jul	31-Jul	CL	L	T3	ND	50	3.0625	0.15145	0.1209	10
11-Jul	1-Aug	CL	L	1	D	4	2.8343	2.1008	1.8409	39
11-Jul	1-Aug	CL	L	1	D	4	2.8343	2.13705	1.8782	39
11-Jul	1-Aug	CL	L	1	D	10	2.9213	0.2855	0.2433	27.5
11-Jul	1-Aug	CL	L	1	D	10	2.9213	0.2462	0.2084	27.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
11-Jul	1-Aug	CL	L	1	D	20	2.9213	0.3234	0.2693	27.5
11-Jul	1-Aug	CL	L	1	D	20	2.9213	0.26475	0.2215	27.5
11-Jul	1-Aug	CL	L	1	D	50	2.8905	0.1406	0.1132	31
11-Jul	1-Aug	CL	L	1	D	50	2.8905	0.15735	0.1258	31
11-Jul	1-Aug	CL	L	1	D	85	2.9958	0.3058	0.1802	17.5
11-Jul	1-Aug	CL	L	1	D	85	2.9958	0.25145	0.1518	17.5
11-Jul	1-Aug	CL	L	1	ND	4	2.866	0.37405	0.3152	34.25
11-Jul	1-Aug	CL	L	1	ND	4	2.866	0.333	0.284	34.25
11-Jul	1-Aug	CL	L	1	ND	10	3.0293	0.14765	0.1229	14.5
11-Jul	1-Aug	CL	L	1	ND	10	3.0293	0.16525	0.1373	14.5
11-Jul	1-Aug	CL	L	1	ND	20	3.0563	0.1457	0.1222	13
11-Jul	1-Aug	CL	L	1	ND	20	3.0563	0.2072	0.1868	13
11-Jul	1-Aug	CL	L	1	ND	40	3.0515	0.16205	0.1296	13.25
11-Jul	1-Aug	CL	L	1	ND	40	3.0515	0.1606	0.1342	13.25
11-Jul	1-Aug	CL	R	T1	D	4	2.8685	1.4437	1.2765	33.5
11-Jul	1-Aug	CL	R	T1	D	4	2.8685	1.36345	1.1965	33.5
11-Jul	1-Aug	CL	R	T1	D	10	3.052	0.2177	0.1899	13.25
11-Jul	1-Aug	CL	R	T1	D	10	3.052	0.2673	0.2343	13.25
11-Jul	1-Aug	CL	R	T1	D	20	3.0647	0.21895	0.1896	12.25
11-Jul	1-Aug	CL	R	T1	D	20	3.0647	0.20095	0.1733	12.25
11-Jul	1-Aug	CL	R	T1	D	50	3.0232	0.139	0.1214	14.5
11-Jul	1-Aug	CL	R	T1	D	50	3.0232	0.1479	0.1243	14.5
11-Jul	1-Aug	CL	R	1	ND	4	3.119	0.44225	0.3906	8.75
11-Jul	1-Aug	CL	R	1	ND	4	3.119	0.86615	0.7604	8.75
11-Jul	1-Aug	CL	R	1	ND	10	3.067	0.25135	0.2184	12
11-Jul	1-Aug	CL	R	1	ND	10	3.067	0.25245	0.2203	12
11-Jul	1-Aug	CL	R	1	ND	20	3.0855	0.1988	0.1674	10
11-Jul	1-Aug	CL	R	1	ND	20	3.0855	0.1904	0.1487	10
11-Jul	1-Aug	CL	R	2	D	4	2.9548	0.1204	0.1026	23
11-Jul	1-Aug	CL	R	2	D	4	2.9548	0.10255	0.0874	23
11-Jul	1-Aug	CL	R	2	D	10	3.0165	0.1505	0.1251	16
11-Jul	1-Aug	CL	R	2	D	20	3.0253	0.13855	0.1157	14.5
11-Jul	1-Aug	CL	R	2	D	20	3.0253	0.12935	0.1063	14.5
11-Jul	1-Aug	CL	R	2	D	50	3.0683	0.1963	0.1637	12
11-Jul	1-Aug	CL	R	2	D	50	3.0683	0.17	0.148	12
11-Jul	1-Aug	CL	R	2	D	75	3.0503	0.13195	0.1133	13.5
11-Jul	1-Aug	CL	R	2	D	75	3.0503	0.1269	0.1114	13.5
11-Jul	1-Aug	CL	R	2	D	95	2.9708	0.11585	0.1022	21.75
11-Jul	1-Aug	CL	R	2	D	95	2.9708	0.2563	0.2334	21.75
11-Jul	1-Aug	CL	R	T2	ND	4	2.9764	0.40665	0.3586	21
11-Jul	1-Aug	CL	R	T2	ND	4	2.9764	0.5794	0.492	21
11-Jul	1-Aug	CL	R	T2	ND	10	3.089	0.1966	0.1699	10
11-Jul	1-Aug	CL	R	T2	ND	10	3.089	0.19745	0.1705	10
11-Jul	1-Aug	CL	R	T2	ND	20	3.0994	0.11855	0.1021	9
11-Jul	1-Aug	CL	R	T2	ND	20	3.0994	0.14235	0.1202	9
11-Jul	1-Aug	CL	R	T2	ND	50	3.0578	0.13425	0.1165	13
11-Jul	1-Aug	CL	R	T3	D	4	2.991	0.4153	0.3646	19.25
11-Jul	1-Aug	CL	R	T3	D	4	2.991	0.3772	0.3317	19.25
11-Jul	1-Aug	CL	R	T3	D	10	3.064	0.1316	0.1136	12.25
11-Jul	1-Aug	CL	R	T3	D	10	3.064	0.1547	0.1352	12.25
11-Jul	1-Aug	CL	R	T3	D	20	3.0078	0.1214	0.0975	16.5
11-Jul	1-Aug	CL	R	T3	D	20	3.0078	0.1492	0.1196	16.5
11-Jul	1-Aug	CL	R	T3	D	50	3.0237	0.11085	0.0877	14.5
11-Jul	1-Aug	CL	R	T3	D	50	3.0237	0.14765	0.1182	14.5
11-Jul	1-Aug	CL	R	T3	D	75	2.9508	0.20595	0.1514	24.25
11-Jul	1-Aug	CL	R	T3	D	75	2.9508	0.2294	0.1536	24.25
11-Jul	1-Aug	CL	R	T2	ND	50	3.0578	0.13365	0.1117	13
11-Jul	1-Aug	CL	R	T2	ND	75	3.0295	0.15465	0.136	14.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
11-Jul	1-Aug	CL	R	T2	ND	75	3.0295	0.0879	0.0624	14.5
11-Jul	1-Aug	CL	R	3	ND	4	3.033	0.18735	0.1563	14.5
11-Jul	1-Aug	CL	R	3	ND	4	3.033	0.17665	0.1535	14.5
11-Jul	1-Aug	CL	R	3	ND	10	3.0703	0.15185	0.1274	12
11-Jul	1-Aug	CL	R	3	ND	10	3.0703	0.1539	0.1246	12
11-Jul	1-Aug	CL	R	3	ND	20	3.0725	0.14285	0.122	11.75
11-Jul	1-Aug	CL	R	3	ND	20	3.0725	0.15005	0.1268	11.75
11-Jul	1-Aug	CL	R	3	ND	50	2.9675	0.1105	0.0913	22
11-Jul	1-Aug	CL	R	3	ND	50	2.9675	0.12565	0.0994	22
11-Jul	1-Aug	CL	R	3	ND	75	3.033	0.1419	0.1166	14.5
11-Jul	1-Aug	CL	R	3	ND	75	3.033	0.14865	0.1176	14.5
11-Jul	1-Aug	CL	MOS	1	D	4	2.9625	0.16635	0.1517	22.25
11-Jul	1-Aug	CL	MOS	1	D	4	2.9625	0.11055	0.0931	22.25
11-Jul	1-Aug	CL	MOS	1	D	10	2.9845	0.11855	0.0954	20.25
11-Jul	1-Aug	CL	MOS	1	D	10	2.9845	0.12475	0.0978	20.25
11-Jul	1-Aug	CL	MOS	1	D	20	3.0198	0.0903	0.0635	15.25
11-Jul	1-Aug	CL	MOS	1	D	20	3.0198	0.13565	0.1119	15.25
11-Jul	1-Aug	CL	MOS	1	D	50	3.0353	0.21965	0.1524	14.5
11-Jul	1-Aug	CL	MOS	1	D	50	3.0353	0.1981	0.1411	14.5
16-Jul	30-Jul	NE	L	T1	ND	4	2.9266	0.20225	0.1764	17
16-Jul	30-Jul	NE	L	T1	ND	4	2.9266	0.18555	0.164	17
16-Jul	30-Jul	NE	L	T1	ND	20	3.0976	0.138	0.1154	4.25
16-Jul	30-Jul	NE	L	T1	ND	20	3.0976	0.1599	0.1369	4.25
16-Jul	30-Jul	NE	L	T1	ND	50	3.0758	0.1483	0.1282	6
16-Jul	30-Jul	NE	L	T1	ND	50	3.0758	0.1513	0.1333	6
16-Jul	30-Jul	NE	L	T2	ND	4	2.8845	0.19465	0.1705	19.75
16-Jul	30-Jul	NE	L	T2	ND	4	2.8845	0.1856	0.1605	19.75
16-Jul	30-Jul	NE	L	T2	ND	20	3.0353	0.13425	0.1143	8.25
16-Jul	30-Jul	NE	L	T2	ND	20	3.0353	0.14135	0.1179	8.25
16-Jul	30-Jul	NE	L	T2	ND	50	3.0554	0.13345	0.1138	7
16-Jul	30-Jul	NE	L	T2	ND	50	3.0554	0.1567	0.1348	7
16-Jul	30-Jul	NE	L	T3	D	4	2.8723	0.1293	0.1146	21
16-Jul	30-Jul	NE	L	T3	D	4	2.8723	0.12985	0.1145	21
16-Jul	30-Jul	NE	L	T3	D	20	2.8774	0.1885	0.1569	20.5
16-Jul	30-Jul	NE	L	T3	D	20	2.8774	0.1796	0.1392	20.5
16-Jul	30-Jul	NE	L	T3	D	50	2.7844	0.16115	0.1287	31.75
16-Jul	30-Jul	NE	L	T3	D	50	2.7844	0.1775	0.1419	31.75
16-Jul	30-Jul	NE	R	T1	D	4	2.9623	0.1686	0.1461	14.25
16-Jul	30-Jul	NE	R	T1	D	4	2.9623	0.1457	0.1273	14.25
16-Jul	30-Jul	NE	R	T1	D	20	3.0737	0.12665	0.1066	6
16-Jul	30-Jul	NE	R	T1	D	20	3.0737	0.11245	0.0909	6
16-Jul	30-Jul	NE	R	T1	D	50	3.0646	0.14675	0.13	6.5
16-Jul	30-Jul	NE	R	T1	D	50	3.0646	0.12975	0.1142	6.5
16-Jul	30-Jul	NE	R	T2	ND	4	3.0194	0.1461	0.1261	9
16-Jul	30-Jul	NE	R	T2	ND	4	3.0194	0.12315	0.1072	9
16-Jul	30-Jul	NE	R	T2	ND	20	3.0347	0.15645	0.1397	8.25
16-Jul	30-Jul	NE	R	T2	ND	20	3.0347	0.16855	0.1345	8.25
16-Jul	30-Jul	NE	R	T2	ND	50	3.0221	0.14615	0.1283	8.25
16-Jul	30-Jul	NE	R	T2	ND	50	3.0221	0.1158	0.1027	8.25
16-Jul	30-Jul	NE	R	T3	ND	4	2.8984	0.176	0.148	18.75
16-Jul	30-Jul	NE	R	T3	ND	4	2.8984	0.1738	0.1557	18.75
16-Jul	30-Jul	NE	R	T3	ND	20	2.9664	0.11525	0.096	14.25
16-Jul	30-Jul	NE	R	T3	ND	20	2.9664	0.1305	0.1137	14.25
16-Jul	30-Jul	NE	R	T3	ND	50	3.0397	0.2016	0.1522	8.25
16-Jul	30-Jul	NE	R	T3	ND	50	3.0397	0.18465	0.1625	8.25
16-Jul	30-Jul	WE	L	T1	D	4	2.9007	0.26535	0.2162	18.75
16-Jul	30-Jul	WE	L	T1	D	4	2.9007	0.1795	0.1567	18.75
16-Jul	30-Jul	WE	L	T1	D	20	3.0349	0.12	0.1041	8.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
16-Jul	30-Jul	WE	L	T1	D	20	3.0349	0.1243	0.1106	8.25
16-Jul	30-Jul	WE	L	T1	D	50	2.9831	0.1158	0.0994	12.5
16-Jul	30-Jul	WE	L	T1	D	50	2.9831	0.11825	0.1016	12.5
16-Jul	30-Jul	WE	L	T2	D	4	2.9184	0.59595	0.4828	17
16-Jul	30-Jul	WE	L	T2	D	4	2.9184	0.393	0.3391	17
16-Jul	30-Jul	WE	L	T2	D	20	3.0177	0.1297	0.1172	9
16-Jul	30-Jul	WE	L	T2	D	20	3.0177	0.1322	0.1199	9
16-Jul	30-Jul	WE	L	T2	D	50	2.9815	0.1186	0.1034	12.75
16-Jul	30-Jul	WE	L	T2	D	50	2.9815	0.12455	0.1113	12.75
16-Jul	30-Jul	WE	L	T3	D	4	2.8873	0.14435	0.1221	19.5
16-Jul	30-Jul	WE	L	T3	D	4	2.8873	0.17945	0.1554	19.5
16-Jul	30-Jul	WE	L	T3	D	20	3.0248	0.1077	0.095	8.25
16-Jul	30-Jul	WE	L	T3	D	20	3.0248	0.1173	0.1018	8.25
16-Jul	30-Jul	WE	L	T3	D	50	3.0261	0.11085	0.0948	8.25
16-Jul	30-Jul	WE	L	T3	D	50	3.0261	0.1061	0.0915	8.25
16-Jul	30-Jul	WE	R	T1	ND	4	2.799	0.41035	0.3516	29.5
16-Jul	30-Jul	WE	R	T1	ND	4	2.799	0.38775	0.3309	29.5
16-Jul	30-Jul	WE	R	T1	ND	20	3.0569	0.1709	0.1424	7
16-Jul	30-Jul	WE	R	T1	ND	20	3.0569	0.22815	0.199	7
16-Jul	30-Jul	WE	R	T1	ND	50	3.0168	0.10345	0.088	9
16-Jul	30-Jul	WE	R	T1	ND	50	3.0168	0.10765	0.0894	9
16-Jul	30-Jul	WE	R	T2	D	4	2.8105	0.17945	0.1533	27.25
16-Jul	30-Jul	WE	R	T2	D	4	2.8105	0.2057	0.1747	27.25
16-Jul	30-Jul	WE	R	T2	D	20	2.9776	0.19555	0.1606	12.75
16-Jul	30-Jul	WE	R	T2	D	20	2.9776	0.178	0.1297	12.75
16-Jul	30-Jul	WE	R	T2	D	50	3.0229	0.09615	0.0825	8.25
16-Jul	30-Jul	WE	R	T2	D	50	3.0229	0.11125	0.0935	8.25
16-Jul	30-Jul	WE	R	T3	ND	4	2.9538	0.1867	0.1543	15
16-Jul	30-Jul	WE	R	T3	ND	4	2.9538	0.1584	0.1373	15
16-Jul	30-Jul	WE	R	T3	ND	20	3.0535	0.1847	0.1453	7
16-Jul	30-Jul	WE	R	T3	ND	20	3.0535	0.14565	0.122	7
16-Jul	30-Jul	WE	R	T3	ND	50	2.9749	0.21535	0.189	13.25
16-Jul	30-Jul	WE	R	T3	ND	50	2.9749	0.13395	0.113	13.25
29-Jul	7-Aug	SW	M	1	D	4	2.898	0.28755	0.252	33.5
29-Jul	7-Aug	SW	M	1	D	4	2.898	0.20595	0.1858	33.5
29-Jul	7-Aug	SW	M	1	D	10	2.9934	0.17245	0.1515	26
29-Jul	7-Aug	SW	M	1	D	20	2.9925	0.1538	0.1287	26
29-Jul	7-Aug	SW	M	1	D	20	2.9925	0.1519	0.1319	26
29-Jul	7-Aug	SW	M	1	D	50	2.9206	0.1362	0.1172	32.75
29-Jul	7-Aug	SW	M	1	D	50	2.9206	0.1244	0.1103	32.75
29-Jul	7-Aug	SW	M	1	D	75	2.9565	0.1445	0.1187	29.25
29-Jul	7-Aug	SW	M	1	D	75	2.9565	0.1296	0.1076	29.25
29-Jul	7-Aug	SW	M	1	ND	4	2.8842	0.2173	0.1873	33.75
29-Jul	7-Aug	SW	M	1	ND	4	2.8842	0.17825	0.153	33.75
29-Jul	7-Aug	SW	M	1	ND	10	3.0211	0.1676	0.1481	24
29-Jul	7-Aug	SW	M	1	ND	10	3.0211	0.17195	0.151	24
29-Jul	7-Aug	SW	M	1	ND	20	3.1137	0.16745	0.1419	17.25
29-Jul	7-Aug	SW	M	1	ND	20	3.1137	0.1761	0.1484	17.25
29-Jul	7-Aug	SW	M	1	ND	50	3.1647	0.04105	0.0231	12
29-Jul	7-Aug	SW	M	1	ND	50	3.1647	0.09145	0.0681	12
29-Jul	7-Aug	SW	M	1	ND	75	3.1078	0.2161	0.1822	17.5
29-Jul	7-Aug	SW	M	1	ND	75	3.1078	0.2674	0.2228	17.5
29-Jul	7-Aug	SW	M	2	D	4	2.9552	0.1448	0.1308	29.25
29-Jul	7-Aug	SW	M	2	D	4	2.9552	0.1618	0.1407	29.25
29-Jul	7-Aug	SW	M	2	D	10	2.9203	0.1415	0.1236	32.75
29-Jul	7-Aug	SW	M	2	D	10	2.9203	0.13465	0.107	32.75
29-Jul	7-Aug	SW	M	2	D	20	2.9382	0.15125	0.1233	31
29-Jul	7-Aug	SW	M	2	D	20	2.9382	0.15185	0.1278	31

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
29-Jul	7-Aug	SW	M	2	D	50	2.9488	0.0616	0.0475	30
29-Jul	7-Aug	SW	M	2	D	50	2.9488	0.13985	0.1201	30
29-Jul	7-Aug	SW	M	2	D	75	3.0573	0.31855	0.2682	22.25
29-Jul	7-Aug	SW	M	2	D	75	3.0573	0.4071	0.3376	22.25
29-Jul	7-Aug	SW	M	2	ND	4	2.9931	0.1921	0.1713	26
29-Jul	7-Aug	SW	M	2	ND	4	2.9931	0.2261	0.2011	26
29-Jul	7-Aug	SW	M	2	ND	10	3.0926	0.15935	0.1385	19.25
29-Jul	7-Aug	SW	M	2	ND	10	3.0926	0.1682	0.1505	19.25
29-Jul	7-Aug	SW	M	2	ND	20	3.1019	0.43295	0.3734	18
29-Jul	7-Aug	SW	M	2	ND	20	3.1019	0.2697	0.2267	18
29-Jul	7-Aug	SW	M	2	ND	50	3.0453	0.3311	0.2904	22.25
29-Jul	7-Aug	SW	M	2	ND	50	3.0453	0.94455	0.8489	22.25
29-Jul	7-Aug	SW	M	2	ND	75	3.077	0.1492	0.1235	20
29-Jul	7-Aug	SW	M	2	ND	75	3.077	0.1524	0.1293	20
29-Jul	7-Aug	SW	L	1	D	4	2.9959	0.3411	0.2972	25.75
29-Jul	7-Aug	SW	L	1	D	4	2.9959	0.24185	0.2105	25.75
29-Jul	7-Aug	SW	L	1	D	10	2.9595	0.16565	0.1377	29
29-Jul	7-Aug	SW	L	1	D	10	2.9595	0.1757	0.1459	29
29-Jul	7-Aug	SW	L	1	D	20	2.8807	0.23525	0.1823	34
29-Jul	7-Aug	SW	L	1	D	20	2.8807	0.1695	0.1349	34
29-Jul	7-Aug	SW	L	1	D	50	2.9691	0.13165	0.107	28.75
29-Jul	7-Aug	SW	L	1	D	50	2.9691	0.12525	0.0991	28.75
29-Jul	7-Aug	SW	L	T1	ND	4	3.0025	1.4543	1.2755	25.5
29-Jul	7-Aug	SW	L	T1	ND	4	3.0025	1.4422	1.267	25.5
29-Jul	7-Aug	SW	L	T1	ND	10	3.0624	0.22555	0.1977	21.5
29-Jul	7-Aug	SW	L	T1	ND	10	3.0624	0.24635	0.2167	21.5
29-Jul	7-Aug	SW	L	T1	ND	20	2.8929	0.1341	0.1098	33.5
29-Jul	7-Aug	SW	L	T1	ND	20	2.8929	0.18515	0.1481	33.5
29-Jul	7-Aug	SW	L	T1	ND	50	2.899	0.1459	0.1283	33.5
29-Jul	7-Aug	SW	L	T1	ND	50	2.899	0.15675	0.133	33.5
29-Jul	7-Aug	SW	L	T2	D	4	2.8572	1.091	0.9297	36.75
29-Jul	7-Aug	SW	L	T2	D	4	2.8572	0.523	0.4577	36.75
29-Jul	7-Aug	SW	L	T2	D	10	2.952	0.1451	0.1237	29.75
29-Jul	7-Aug	SW	L	T2	D	10	2.952	0.1592	0.1348	29.75
29-Jul	7-Aug	SW	L	T2	D	20	2.988	0.1751	0.1424	26.25
29-Jul	7-Aug	SW	L	T2	D	20	2.988	0.2443	0.2127	26.25
29-Jul	7-Aug	SW	L	T2	D	50	2.9813	0.1374	0.1174	27.5
29-Jul	7-Aug	SW	L	T2	D	50	2.9813	0.14705	0.1258	27.5
29-Jul	7-Aug	SW	L	T2	D	75	2.9513	0.13395	0.1092	29.75
29-Jul	7-Aug	SW	L	T2	D	75	2.9513	0.1742	0.1455	29.75
29-Jul	7-Aug	SW	L	T2	D	100	2.9203	0.14465	0.1097	32.75
29-Jul	7-Aug	SW	L	T2	D	100	2.9203	0.1506	0.1143	32.75
29-Jul	7-Aug	SW	L	T2	D	112	2.9395	0.1187	0.0951	31
29-Jul	7-Aug	SW	L	T2	D	112	2.9395	0.1188	0.0965	31
29-Jul	7-Aug	SW	L	2	ND	4	3.0692	0.1825	0.159	21.25
29-Jul	7-Aug	SW	L	2	ND	4	3.0692	0.1823	0.1629	21.25
29-Jul	7-Aug	SW	L	2	ND	12	3.0228	0.1592	0.1377	24
29-Jul	7-Aug	SW	L	2	ND	12	3.0228	0.14925	0.1302	24
29-Jul	7-Aug	SW	L	2	ND	40	3.0232	0.30735	0.2615	23.75
29-Jul	7-Aug	SW	L	2	ND	40	3.0232	0.30275	0.2474	23.75
29-Jul	7-Aug	SW	L	T3	D	4	2.9746	1.0162	0.8811	28.5
29-Jul	7-Aug	SW	L	T3	D	4	2.9746	1.0323	0.9033	28.5
29-Jul	7-Aug	SW	L	T3	D	20	2.9632	0.1417	0.1195	28.75
29-Jul	7-Aug	SW	L	T3	D	20	2.9632	0.14135	0.1214	28.75
29-Jul	7-Aug	SW	L	T3	D	50	2.9167	0.1348	0.1043	33
29-Jul	7-Aug	SW	L	T3	D	50	2.9167	0.13675	0.1158	33
30-Jul	8-Aug	SW	R	T1	D	4	2.9905	2.6161	2.2845	23.5
30-Jul	8-Aug	SW	R	T1	D	4	2.9905	2.72735	2.5088	23.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
30-Jul	8-Aug	SW	R	T1	D	10	3.0579	0.39585	0.3503	19.75
30-Jul	8-Aug	SW	R	T1	D	10	3.0579	0.5247	0.459	19.75
30-Jul	8-Aug	SW	R	T1	D	20	3.0354	0.09645	0.0751	20.5
30-Jul	8-Aug	SW	R	T1	D	20	3.0354	0.17505	0.1524	20.5
30-Jul	8-Aug	SW	R	T1	D	50	3.0326	0.1677	0.1475	20.75
30-Jul	8-Aug	SW	R	T1	D	50	3.0326	0.16885	0.1495	20.75
30-Jul	8-Aug	SW	R	1	ND	4	3.0034	0.55695	0.4947	23
30-Jul	8-Aug	SW	R	1	ND	4	3.0034	0.36985	0.3256	23
30-Jul	8-Aug	SW	R	1	ND	10	3.0556	0.1868	0.1604	19.75
30-Jul	8-Aug	SW	R	1	ND	10	3.0556	0.1568	0.1368	19.75
30-Jul	8-Aug	SW	R	1	ND	20	3.0928	0.24805	0.2133	17
30-Jul	8-Aug	SW	R	1	ND	20	3.0928	0.19	0.1594	17
30-Jul	8-Aug	SW	R	1	ND	50	3.0776	0.1597	0.1408	17.75
30-Jul	8-Aug	SW	R	1	ND	50	3.0776	0.2195	0.1928	17.75
30-Jul	8-Aug	SW	R	2	D	4	2.9353	0.29245	0.2382	29.25
30-Jul	8-Aug	SW	R	2	D	4	2.9353	0.30005	0.2596	29.25
30-Jul	8-Aug	SW	R	2	D	10	2.973	0.1563	0.1376	26.25
30-Jul	8-Aug	SW	R	2	D	10	2.973	0.14925	0.1276	26.25
30-Jul	8-Aug	SW	R	2	D	20	2.8926	0.18675	0.154	31.75
30-Jul	8-Aug	SW	R	2	D	20	2.8926	0.15605	-0.7707	31.75
30-Jul	8-Aug	SW	R	2	D	50	2.9994	0.1405	0.1202	23.25
30-Jul	8-Aug	SW	R	2	D	50	2.9994	0.13495	0.1178	23.25
30-Jul	8-Aug	SW	R	T2	ND	4	2.9073	0.1312	0.1174	31.25
30-Jul	8-Aug	SW	R	T2	ND	4	2.9073	0.1629	0.1349	31.25
30-Jul	8-Aug	SW	R	T2	ND	10	3.018	0.12205	0.1014	22.5
30-Jul	8-Aug	SW	R	T2	ND	10	3.018	0.14985	0.1286	22.5
30-Jul	8-Aug	SW	R	T2	ND	20	3.0038	0.3606	0.3084	23
30-Jul	8-Aug	SW	R	T2	ND	20	3.0038	0.5675	0.4914	23
30-Jul	8-Aug	SW	R	T2	ND	50	3.0206	0.3633	0.3069	21.75
30-Jul	8-Aug	SW	R	T2	ND	50	3.0206	0.35925	0.2936	21.75
30-Jul	8-Aug	SW	R	3	D	4	2.9948	0.26675	0.2353	23.25
30-Jul	8-Aug	SW	R	3	D	4	2.9948	0.28375	0.2507	23.25
30-Jul	8-Aug	SW	R	3	D	10	3.0218	0.13845	0.1167	21.5
30-Jul	8-Aug	SW	R	3	D	10	3.0218	0.1585	0.1338	21.5
30-Jul	8-Aug	SW	R	3	D	20	3.0479	0.17495	0.1475	19.75
30-Jul	8-Aug	SW	R	3	D	37	2.9281	0.15695	0.1217	29.75
30-Jul	8-Aug	SW	R	3	D	37	2.9281	0.1283	0.1096	29.75
30-Jul	8-Aug	SW	R	T3	ND	4	2.9692	0.38245	0.3371	26.25
30-Jul	8-Aug	SW	R	T3	ND	4	2.9692	0.4532	0.3881	26.25
30-Jul	8-Aug	SW	R	T3	ND	10	3.0576	0.2693	0.2408	19.75
30-Jul	8-Aug	SW	R	T3	ND	10	3.0576	0.24825	0.218	19.75
30-Jul	8-Aug	SW	R	T3	ND	20	3.0509	0.47395	0.4127	19.75
30-Jul	8-Aug	SW	R	T3	ND	20	3.0509	0.4227	0.3569	19.75
30-Jul	8-Aug	SW	R	T3	ND	50	3.0577	0.34395	0.3045	19.75
30-Jul	8-Aug	SW	R	T3	ND	50	3.0577	0.951	0.8593	19.75
31-Jul	9-Aug	CL	M	1	D	4	2.9625	0.9126	0.8276	23.5
31-Jul	9-Aug	CL	M	1	D	4	2.9625	0.53735	0.4797	23.5
31-Jul	9-Aug	CL	M	1	D	10	2.9625	0.18015	0.16	23.5
31-Jul	9-Aug	CL	M	1	D	10	2.9625	0.29445	0.262	23.5
31-Jul	9-Aug	CL	M	1	D	20	2.9708	0.17675	0.1572	23.5
31-Jul	9-Aug	CL	M	1	D	20	2.9708	0.2286	0.2034	23.5
31-Jul	9-Aug	CL	M	1	D	50	2.9553	0.2094	0.1861	23.5
31-Jul	9-Aug	CL	M	1	D	50	2.9553	0.2194	0.1808	23.5
31-Jul	9-Aug	CL	M	1	ND	4	2.9875	0.1948	0.175	21.5
31-Jul	9-Aug	CL	M	1	ND	4	2.9875	0.21475	0.1947	21.5
31-Jul	9-Aug	CL	M	1	ND	10	3.0343	0.2712	0.2462	18
31-Jul	9-Aug	CL	M	1	ND	10	3.0343	0.2885	0.2647	18
31-Jul	9-Aug	CL	M	1	ND	20	3.0408	0.2419	0.2192	17.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
31-Jul	9-Aug	CL	M	1	ND	20	3.0408	0.2497	0.2308	17.75
31-Jul	9-Aug	CL	M	1	ND	50	3.066	0.15635	0.1306	16.5
31-Jul	9-Aug	CL	M	1	ND	50	3.066	0.14085	0.123	16.5
31-Jul	9-Aug	CL	M	2	D	4	3.0345	0.58845	0.5293	18
31-Jul	9-Aug	CL	M	2	D	4	3.0345	0.55445	0.4965	18
31-Jul	9-Aug	CL	M	2	D	10	3.056	0.1839	0.1625	17.25
31-Jul	9-Aug	CL	M	2	D	10	3.056	0.299	0.2649	17.25
31-Jul	9-Aug	CL	M	2	D	20	2.9905	0.2197	0.1974	21
31-Jul	9-Aug	CL	M	2	D	20	2.9905	0.1569	0.1397	21
31-Jul	9-Aug	CL	M	2	D	50	2.9993	0.4759	0.4214	20.75
31-Jul	9-Aug	CL	M	2	D	50	2.9993	0.56775	0.4978	20.75
31-Jul	9-Aug	CL	M	2	ND	4	2.9695	0.1355	0.1231	23.5
31-Jul	9-Aug	CL	M	2	ND	4	2.9695	0.24145	0.2246	23.5
31-Jul	9-Aug	CL	M	2	ND	10	3.0223	0.15	0.1335	19
31-Jul	9-Aug	CL	M	2	ND	10	3.0223	0.19755	0.1734	19
31-Jul	9-Aug	CL	M	2	ND	20	3.0373	0.17105	0.1532	17.75
31-Jul	9-Aug	CL	M	2	ND	20	3.0373	0.1499	0.1334	17.75
31-Jul	9-Aug	CL	L	T1	ND	4	2.9199	0.2137	0.1666	27.25
31-Jul	9-Aug	CL	L	T1	ND	4	2.9199	0.1624	0.1404	27.25
31-Jul	9-Aug	CL	L	T1	ND	20	3.016	0.19495	0.1628	20
31-Jul	9-Aug	CL	L	T1	ND	20	3.016	0.20045	0.1624	20
31-Jul	9-Aug	CL	L	T1	ND	50	3.0444	0.8148	0.7338	17.25
31-Jul	9-Aug	CL	L	T1	ND	50	3.0444	0.5533	0.4836	17.25
31-Jul	9-Aug	CL	L	T2	ND	4	2.869	0.1203	0.1045	30
31-Jul	9-Aug	CL	L	T2	ND	4	2.869	0.09595	0.0841	30
31-Jul	9-Aug	CL	L	T2	ND	20	3.0134	0.2535	0.2159	20
31-Jul	9-Aug	CL	L	T2	ND	20	3.0134	0.42245	0.3773	20
31-Jul	9-Aug	CL	L	T2	ND	50	3.0491	0.42735	0.3896	17.25
31-Jul	9-Aug	CL	L	T2	ND	50	3.0491	0.14295	-0.7137	17.25
31-Jul	9-Aug	CL	L	T3	ND	4	2.8459	0.14235	0.1222	31.75
31-Jul	9-Aug	CL	L	T3	ND	4	2.8459	0.13495	0.1124	31.75
31-Jul	9-Aug	CL	L	T3	ND	20	3.0247	0.1858	0.1575	18.5
31-Jul	9-Aug	CL	L	T3	ND	20	3.0247	0.15395	0.1295	18.5
31-Jul	9-Aug	CL	L	T3	ND	50	3.0625	0.45465	0.3942	16.5
31-Jul	9-Aug	CL	L	T3	ND	50	3.0625	0.3434	0.3072	16.5
1-Aug	10-Aug	CL	L	1	D	4	2.8343	2.264	2.0271	27.25
1-Aug	10-Aug	CL	L	1	D	4	2.8343	2.02155	1.7892	27.25
1-Aug	10-Aug	CL	L	1	D	10	2.9213	0.1777	0.1587	23.25
1-Aug	10-Aug	CL	L	1	D	10	2.9213	0.14895	0.1328	23.25
1-Aug	10-Aug	CL	L	1	D	20	2.9213	0.15515	0.1372	23.25
1-Aug	10-Aug	CL	L	1	D	20	2.9213	0.15485	0.1373	23.25
1-Aug	10-Aug	CL	L	1	D	50	2.8905	0.1292	0.1142	24
1-Aug	10-Aug	CL	L	1	D	50	2.8905	0.17585	0.1551	24
1-Aug	10-Aug	CL	L	1	D	85	2.9958	0.16305	0.1469	17.75
1-Aug	10-Aug	CL	L	1	D	85	2.9958	0.1506	0.1362	17.75
1-Aug	10-Aug	CL	L	1	ND	4	2.866	0.16095	0.1424	25.75
1-Aug	10-Aug	CL	L	1	ND	4	2.866	0.16695	0.1498	25.75
1-Aug	10-Aug	CL	L	1	ND	10	3.0293	0.1697	0.1472	15.75
1-Aug	10-Aug	CL	L	1	ND	10	3.0293	0.1827	0.1589	15.75
1-Aug	10-Aug	CL	L	1	ND	20	3.0563	0.35585	0.3191	14.75
1-Aug	10-Aug	CL	L	1	ND	20	3.0563	0.4612	0.4092	14.75
1-Aug	10-Aug	CL	L	1	ND	40	3.0515	0.20725	0.1801	14.75
1-Aug	10-Aug	CL	L	1	ND	40	3.0515	0.3305	0.2929	14.75
1-Aug	10-Aug	CL	R	T1	D	4	2.8685	1.67095	1.4953	25.75
1-Aug	10-Aug	CL	R	T1	D	4	2.8685	1.0481	0.9412	25.75
1-Aug	10-Aug	CL	R	T1	D	10	3.052	0.26265	0.2392	14.75
1-Aug	10-Aug	CL	R	T1	D	10	3.052	0.23995	0.2194	14.75
1-Aug	10-Aug	CL	R	T1	D	20	3.0647	0.19835	0.1747	14

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Aug	10-Aug	CL	R	T1	D	20	3.0647	0.1908	0.1697	14
1-Aug	10-Aug	CL	R	T1	D	50	3.0232	0.177	0.1542	16.25
1-Aug	10-Aug	CL	R	T1	D	50	3.0232	0.1818	0.1588	16.25
1-Aug	10-Aug	CL	R	1	ND	4	3.119	0.49995	0.4518	9.75
1-Aug	10-Aug	CL	R	1	ND	4	3.119	0.49625	0.4403	9.75
1-Aug	10-Aug	CL	R	1	ND	10	3.067	0.248	0.2232	14
1-Aug	10-Aug	CL	R	1	ND	10	3.067	0.28775	0.2598	14
1-Aug	10-Aug	CL	R	1	ND	20	3.0855	0.2712	0.2376	12.5
1-Aug	10-Aug	CL	R	1	ND	20	3.0855	0.30595	0.2721	12.5
1-Aug	10-Aug	CL	R	2	D	4	2.9548	0.1313	0.1166	20
1-Aug	10-Aug	CL	R	2	D	4	2.9548	0.1336	0.1195	20
1-Aug	10-Aug	CL	R	2	D	10	3.0165	0.18065	0.1464	17.25
1-Aug	10-Aug	CL	R	2	D	10	3.0165	0.1731	0.1483	17.25
1-Aug	10-Aug	CL	R	2	D	20	3.0253	0.20235	0.1801	16
1-Aug	10-Aug	CL	R	2	D	20	3.0253	0.1761	0.1518	16
1-Aug	10-Aug	CL	R	2	D	50	3.0683	0.51175	0.4546	14
1-Aug	10-Aug	CL	R	2	D	50	3.0683	0.506	0.4486	14
1-Aug	10-Aug	CL	R	2	D	75	3.0503	0.17275	0.1531	14.75
1-Aug	10-Aug	CL	R	2	D	75	3.0503	0.16515	0.1453	14.75
1-Aug	10-Aug	CL	R	2	D	95	2.9708	0.2261	0.1987	20
1-Aug	10-Aug	CL	R	2	D	95	2.9708	0.262	0.2348	20
1-Aug	10-Aug	CL	R	T2	ND	4	2.9764	0.326	0.291	19.75
1-Aug	10-Aug	CL	R	T2	ND	4	2.9764	0.2136	0.1863	19.75
1-Aug	10-Aug	CL	R	T2	ND	10	3.089	0.1889	0.1639	12.5
1-Aug	10-Aug	CL	R	T2	ND	10	3.089	0.2153	0.1827	12.5
1-Aug	10-Aug	CL	R	T2	ND	20	3.0994	0.19335	0.1674	11.25
1-Aug	10-Aug	CL	R	T2	ND	20	3.0994	0.15585	0.1358	11.25
1-Aug	10-Aug	CL	R	T2	ND	50	3.0578	0.1562	0.1378	14.75
1-Aug	10-Aug	CL	R	T2	ND	50	3.0578	0.15025	0.1308	14.75
1-Aug	10-Aug	CL	R	T2	ND	75	3.0295	0.15115	0.1329	15.75
1-Aug	10-Aug	CL	R	T2	ND	75	3.0295	0.15105	0.1293	15.75
1-Aug	10-Aug	CL	R	T3	D	4	2.991	0.2397	0.2097	18
1-Aug	10-Aug	CL	R	T3	D	4	2.991	0.3135	0.2776	18
1-Aug	10-Aug	CL	R	T3	D	10	3.064	0.158	0.1376	14
1-Aug	10-Aug	CL	R	T3	D	10	3.064	0.14275	0.1275	14
1-Aug	10-Aug	CL	R	T3	D	20	3.0078	0.1515	0.1296	17.5
1-Aug	10-Aug	CL	R	T3	D	20	3.0078	0.1572	0.1363	17.5
1-Aug	10-Aug	CL	R	T3	D	50	3.0237	0.2198	0.1891	16.25
1-Aug	10-Aug	CL	R	T3	D	50	3.0237	0.18255	0.155	16.25
1-Aug	10-Aug	CL	R	T3	D	75	2.9508	0.2034	0.1719	20.5
1-Aug	10-Aug	CL	R	T3	D	75	2.9508	0.20745	0.1759	20.5
1-Aug	10-Aug	CL	R	3	ND	4	3.033	0.14355	0.1261	15.5
1-Aug	10-Aug	CL	R	3	ND	4	3.033	0.1645	0.1441	15.5
1-Aug	10-Aug	CL	R	3	ND	10	3.0703	0.1791	0.1551	13.75
1-Aug	10-Aug	CL	R	3	ND	10	3.0703	0.16335	0.1399	13.75
1-Aug	10-Aug	CL	R	3	ND	20	3.0725	0.1844	0.1635	13.5
1-Aug	10-Aug	CL	R	3	ND	20	3.0725	0.22185	0.1931	13.5
1-Aug	10-Aug	CL	R	3	ND	50	2.9675	0.15155	0.1327	20
1-Aug	10-Aug	CL	R	3	ND	50	2.9675	0.14795	0.1302	20
1-Aug	10-Aug	CL	R	3	ND	75	3.033	0.2482	0.2163	15.5
1-Aug	10-Aug	CL	R	3	ND	75	3.033	0.3105	0.2694	15.5
1-Aug	10-Aug	CL	MOS	1	D	4	2.9625	0.2579	0.2318	20
1-Aug	10-Aug	CL	MOS	1	D	4	2.9625	0.1721	0.1525	20
1-Aug	10-Aug	CL	MOS	1	D	10	2.9845	0.23465	0.2071	19
1-Aug	10-Aug	CL	MOS	1	D	10	2.9845	0.1987	0.1744	19
1-Aug	10-Aug	CL	MOS	1	D	20	3.0198	0.59015	0.5243	16.75
1-Aug	10-Aug	CL	MOS	1	D	20	3.0198	0.4246	0.3847	16.75
1-Aug	10-Aug	CL	MOS	1	D	50	3.0353	0.36735	0.3294	15.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Aug	10-Aug	CL	MOS	1	D	50	3.0353	0.58915	0.5322	15.5
30-Jul	13-Aug	NE	L	T1	ND	4	2.9266	0.1918	0.1633	30.25
30-Jul	13-Aug	NE	L	T1	ND	4	2.9266	0.05545	0.0422	30.25
30-Jul	13-Aug	NE	L	T1	ND	20	3.0976	0.08605	0.0448	16
30-Jul	13-Aug	NE	L	T1	ND	20	3.0976	0.2183	0.1645	16
30-Jul	13-Aug	NE	L	T1	ND	50	3.0758	0.06315	0.0488	17.75
30-Jul	13-Aug	NE	L	T1	ND	50	3.0758	0.036	0.027	17.75
30-Jul	13-Aug	NE	L	T2	ND	4	2.8845	-0.00665	-0.0181	32
30-Jul	13-Aug	NE	L	T2	ND	4	2.8845	0.0466	0.0311	32
30-Jul	13-Aug	NE	L	T2	ND	50	3.0554	-0.0199	-0.0252	19.75
30-Jul	13-Aug	NE	L	T3	D	4	2.8723	0.0832	0.0691	33
30-Jul	13-Aug	NE	L	T3	D	4	2.8723	-0.06405	-0.0675	33
30-Jul	13-Aug	NE	L	T3	D	20	2.8774	0.03975	0.0122	32.5
30-Jul	13-Aug	NE	L	T3	D	20	2.8774	0.1201	0.0791	32.5
30-Jul	13-Aug	NE	L	T3	D	50	2.7844	0.11495	0.0903	43.5
30-Jul	13-Aug	NE	L	T3	D	50	2.7844	0.138	0.113	43.5
30-Jul	13-Aug	NE	R	T1	D	4	2.9623	0.1745	0.1629	26.25
30-Jul	13-Aug	NE	R	T1	D	4	2.9623	-0.0277	-0.0359	26.25
30-Jul	13-Aug	NE	R	T1	D	20	3.0737	-0.0348	-0.045	18
30-Jul	13-Aug	NE	R	T1	D	50	3.0646	-0.0138	-0.0233	19
30-Jul	13-Aug	NE	R	T2	ND	20	3.0347	0.0117	-0.0003	20.5
30-Jul	13-Aug	NE	R	T3	ND	4	2.8984	0.0057	-0.0089	31.5
30-Jul	13-Aug	NE	R	T3	ND	4	2.8984	0.04135	0.0274	31.5
30-Jul	13-Aug	NE	R	T3	ND	20	2.9664	0.04505	0.0312	26.25
30-Jul	13-Aug	NE	R	T3	ND	20	2.9664	0.0075	-0.0042	26.25
30-Jul	13-Aug	NE	R	T3	ND	50	3.0397	0.029	0.0116	20.25
30-Jul	13-Aug	NE	R	T3	ND	50	3.0397	0.04735	0.0333	20.25
30-Jul	13-Aug	WE	L	T1	D	4	2.9007	0.5035	0.4497	31.5
30-Jul	13-Aug	WE	L	T1	D	4	2.9007	0.1312	0.1151	31.5
30-Jul	13-Aug	WE	L	T1	D	20	3.0349	-0.0008	-0.0065	20.5
30-Jul	13-Aug	WE	L	T1	D	50	2.9831	0.0455	0.0365	25
30-Jul	13-Aug	WE	L	T2	D	4	2.9184	1.6837	1.4875	31
30-Jul	13-Aug	WE	L	T2	D	4	2.9184	0.7164	0.615	31
30-Jul	13-Aug	WE	L	T2	D	20	3.0177	0.1279	0.1113	22.5
30-Jul	13-Aug	WE	L	T2	D	20	3.0177	0.08985	0.0771	22.5
30-Jul	13-Aug	WE	L	T2	D	50	2.9815	0.0353	0.0211	25
30-Jul	13-Aug	WE	L	T2	D	50	2.9815	-0.004	-0.0158	25
30-Jul	13-Aug	WE	L	T3	D	4	2.8873	0.0424	0.0341	32
30-Jul	13-Aug	WE	L	T3	D	4	2.8873	0.04505	0.035	32
30-Jul	13-Aug	WE	L	T3	D	20	3.0248	0.0231	0.0162	21
30-Jul	13-Aug	WE	L	T3	D	20	3.0248	0.0964	0.0826	21
30-Jul	13-Aug	WE	L	T3	D	50	3.0261	0.00785	-0.0019	21
30-Jul	13-Aug	WE	L	T3	D	50	3.0261	0.03635	0.0262	21
30-Jul	13-Aug	WE	R	T1	ND	4	2.799	1.1705	1.0371	41.25
30-Jul	13-Aug	WE	R	T1	ND	4	2.799	1.01595	0.9119	41.25
30-Jul	13-Aug	WE	R	T1	ND	20	3.0569	0.08425	0.0712	19.75
30-Jul	13-Aug	WE	R	T1	ND	50	3.0168	0.02775	0.0087	22.5
30-Jul	13-Aug	WE	R	T1	ND	50	3.0168	0.02625	0.0084	22.5
30-Jul	13-Aug	WE	R	T2	D	4	2.8105	0.26585	0.2311	40
30-Jul	13-Aug	WE	R	T2	D	4	2.8105	0.34785	0.3031	40
30-Jul	13-Aug	WE	R	T2	D	20	2.9776	0.04655	0.0327	26
30-Jul	13-Aug	WE	R	T2	D	20	2.9776	0.05475	0.04	26
30-Jul	13-Aug	WE	R	T2	D	50	3.0229	0.01445	0.0041	21.5
30-Jul	13-Aug	WE	R	T3	ND	4	2.9538	0.14415	0.1274	26.75
30-Jul	13-Aug	WE	R	T3	ND	4	2.9538	0.1541	0.1337	26.75
30-Jul	13-Aug	WE	R	T3	ND	20	3.0535	0.0261	0.0166	19.75
30-Jul	13-Aug	WE	R	T3	ND	50	2.9749	0.017	-0.0012	26

APPENDIX 5c. Marsh platform sediment plate data from 2005. Negative values indicate damage to the filter.

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Jul	29-Jul	SW	M	2	D	4	2.9552	0.3247	0.2452	52.5
1-Jul	29-Jul	SW	M	2	D	4	2.9552	0.1329	0.0883	52.5
1-Jul	29-Jul	SW	M	2	D	10	2.9203	0.25805	0.1726	58.75
1-Jul	29-Jul	SW	M	2	D	10	2.9203	0.1946	0.1291	58.75
1-Jul	29-Jul	SW	M	2	D	20	2.9382	0.2201	0.1296	54.5
1-Jul	29-Jul	SW	M	2	D	20	2.9382	0.13175	0.0585	54.5
1-Jul	29-Jul	SW	M	2	D	50	2.9488	0.1219	0.078	53.75
1-Jul	29-Jul	SW	M	2	D	50	2.9488	0.0283	-0.0073	53.75
1-Jul	29-Jul	SW	M	2	ND	4	2.9931	0.1549	0.1251	45.5
1-Jul	29-Jul	SW	M	2	ND	4	2.9931	0.495	0.4237	45.5
1-Jul	29-Jul	SW	M	2	ND	10	3.0926	0.1643	0.1331	25.75
1-Jul	29-Jul	SW	M	2	ND	10	3.0926	0.12345	0.0964	25.75
1-Jul	29-Jul	SW	M	2	ND	20	3.1019	0.21895	0.1687	23.5
1-Jul	29-Jul	SW	M	2	ND	20	3.1019	0.2848	0.2445	23.5
1-Jul	29-Jul	SW	M	2	ND	50	3.0453	0.2407	0.1799	33.5
1-Jul	29-Jul	SW	M	2	ND	50	3.0453	0.31155	0.2599	33.5
1-Jul	29-Jul	SW	L	1	D	4	2.9959	1.49525	1.2867	45.5
1-Jul	29-Jul	SW	L	1	D	4	2.9959	1.0552	0.8951	45.5
1-Jul	29-Jul	SW	L	1	D	10	2.9595	0.15145	0.1053	50.25
1-Jul	29-Jul	SW	L	1	D	10	2.9595	0.4498	0.3714	50.25
1-Jul	29-Jul	SW	L	1	D	20	2.8807	0.3176	0.2482	65.5
1-Jul	29-Jul	SW	L	1	D	20	2.8807	0.33795	0.2584	65.5
1-Jul	29-Jul	SW	L	1	D	50	2.9691	0.15535	0.0942	49.25
1-Jul	29-Jul	SW	L	1	D	50	2.9691	0.2655	0.1775	49.25
1-Jul	29-Jul	SW	L	T1	ND	4	3.0025	2.85295	2.492	44.25
1-Jul	29-Jul	SW	L	T1	ND	4	3.0025	2.11175	1.8361	44.25
1-Jul	29-Jul	SW	L	T1	ND	10	3.0624	0.49715	0.425	29.75
1-Jul	29-Jul	SW	L	T1	ND	20	2.8929	0.13305	0.0963	62.75
1-Jul	29-Jul	SW	L	T1	ND	20	2.8929	0.1724	0.1194	62.75
1-Jul	29-Jul	SW	L	T1	ND	50	2.899	0.138	0.0754	61.5
1-Jul	29-Jul	SW	L	T1	ND	50	2.899	0.09325	0.0356	61.5
1-Jul	29-Jul	SW	L	T2	D	4	2.8572	0.1092	0.101	70
1-Jul	29-Jul	SW	L	T2	D	4	2.8572	1.19605	1.0373	70
1-Jul	29-Jul	SW	L	T2	D	10	2.952	0.16205	0.1184	53.25
1-Jul	29-Jul	SW	L	T2	D	20	2.988	0.2134	0.1518	46.5
1-Jul	29-Jul	SW	L	T2	D	20	2.988	0.3542	0.2617	46.5
1-Jul	29-Jul	SW	L	T2	D	50	2.9813	0.24555	0.1424	47.5
1-Jul	29-Jul	SW	L	T2	D	50	2.9813	0.20645	0.1189	47.5
1-Jul	29-Jul	SW	L	2	ND	4	3.0692	0.25885	0.2131	29
1-Jul	29-Jul	SW	L	2	ND	4	3.0692	0.2267	0.1892	29
1-Jul	29-Jul	SW	L	2	ND	12	3.0228	0.0691	0.0224	38.75
1-Jul	29-Jul	SW	L	2	ND	12	3.0228	0.12375	0.0647	38.75
1-Jul	29-Jul	SW	L	2	ND	40	3.0232	0.17335	0.1121	38.75
1-Jul	29-Jul	SW	L	2	ND	40	3.0232	0.18735	0.1033	38.75
1-Jul	29-Jul	SW	L	T3	D	4	2.9746	3.13365	2.7104	48.5
1-Jul	29-Jul	SW	L	T3	D	4	2.9746	3.063	2.6532	48.5
1-Jul	29-Jul	SW	L	T3	D	20	2.9632	0.22095	0.1486	49.25
1-Jul	29-Jul	SW	L	T3	D	20	2.9632	0.1753	0.1197	49.25
1-Jul	29-Jul	SW	L	T3	D	50	2.9167	0.15945	0.0836	59
1-Jul	29-Jul	SW	L	T3	D	50	2.9167	0.10835	0.0616	59
1-Jul	29-Jul	SW	R	T1	D	4	2.9905	3.5547	3.103	45.5
1-Jul	29-Jul	SW	R	T1	D	4	2.9905	3.33755	2.913	45.5
1-Jul	29-Jul	SW	R	T1	D	10	3.0579	0.6509	0.5578	31.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
1-Jul	29-Jul	SW	R	T1	D	10	3.0579	0.2669	0.2167	31.25
1-Jul	29-Jul	SW	R	T1	D	20	3.0354	0.19845	0.1692	35.75
1-Jul	29-Jul	SW	R	T1	D	20	3.0354	0.34485	0.278	35.75
1-Jul	29-Jul	SW	R	T1	D	50	3.0326	0.1018	0.0806	36.5
1-Jul	29-Jul	SW	R	1	ND	4	3.0034	0.4065	0.3522	43.75
1-Jul	29-Jul	SW	R	1	ND	4	3.0034	0.4754	0.4063	43.75
1-Jul	29-Jul	SW	R	1	ND	10	3.0556	0.15425	0.114	31.5
1-Jul	29-Jul	SW	R	1	ND	10	3.0556	0.10865	0.0745	31.5
1-Jul	29-Jul	SW	R	1	ND	20	3.0928	0.1496	0.1151	25.75
1-Jul	29-Jul	SW	R	1	ND	20	3.0928	0.11755	0.092	25.75
1-Jul	29-Jul	SW	R	1	ND	50	3.0776	0.1899	0.1535	28.25
1-Jul	29-Jul	SW	R	1	ND	50	3.0776	0.35675	0.2948	28.25
1-Jul	29-Jul	SW	R	2	D	4	2.9353	0.4848	0.4022	54.75
1-Jul	29-Jul	SW	R	2	D	4	2.9353	0.44255	0.367	54.75
1-Jul	29-Jul	SW	R	2	D	10	2.973	0.2675	0.1968	49.25
1-Jul	29-Jul	SW	R	2	D	10	2.973	0.1673	0.1241	49.25
1-Jul	29-Jul	SW	R	2	D	20	2.8926	0.18375	0.1195	62.75
1-Jul	29-Jul	SW	R	2	D	20	2.8926	0.1926	0.1367	62.75
1-Jul	29-Jul	SW	R	2	D	50	2.9994	0.1645	0.1108	45.5
1-Jul	29-Jul	SW	R	2	D	50	2.9994	0.1279	0.1013	45.5
1-Jul	29-Jul	SW	R	T2	ND	4	2.9073	0.515	0.4284	60
1-Jul	29-Jul	SW	R	T2	ND	4	2.9073	0.6336	0.5319	60
1-Jul	29-Jul	SW	R	T2	ND	10	3.018	0.175	0.1148	39.5
1-Jul	29-Jul	SW	R	T2	ND	10	3.018	0.081	0.0402	39.5
1-Jul	29-Jul	SW	R	T2	ND	20	3.0038	0.22705	0.1851	43.75
1-Jul	29-Jul	SW	R	T2	ND	20	3.0038	0.2943	0.2227	43.75
1-Jul	29-Jul	SW	R	T2	ND	50	3.0206	0.09605	0.0675	38.75
1-Jul	29-Jul	SW	R	T2	ND	50	3.0206	0.36895	0.2836	38.75
1-Jul	29-Jul	SW	R	3	D	4	2.9948	1.226	1.0698	45.5
1-Jul	29-Jul	SW	R	3	D	4	2.9948	1.152	0.9943	45.5
1-Jul	29-Jul	SW	R	3	D	10	3.0218	0.26195	0.2173	38.75
1-Jul	29-Jul	SW	R	3	D	20	3.0479	0.12045	0.0933	33.25
1-Jul	29-Jul	SW	R	3	D	20	3.0479	0.20145	0.1511	33.25
1-Jul	29-Jul	SW	R	3	D	50	2.9281	0.1428	0.1093	55.75
1-Jul	29-Jul	SW	R	3	D	50	2.9281	0.1969	0.1437	55.75
1-Jul	29-Jul	SW	R	T3	ND	4	2.9692	0.29545	0.2493	49.25
1-Jul	29-Jul	SW	R	T3	ND	4	2.9692	0.1832	0.1586	49.25
1-Jul	29-Jul	SW	R	T3	ND	10	3.0576	0.1835	0.1462	31.25
1-Jul	29-Jul	SW	R	T3	ND	10	3.0576	0.2572	0.2133	31.25
1-Jul	29-Jul	SW	R	T3	ND	20	3.0509	0.42265	0.326	32.25
1-Jul	29-Jul	SW	R	T3	ND	20	3.0509	0.37935	0.2875	32.25
1-Jul	29-Jul	SW	R	T3	ND	50	3.0577	0.45195	0.3729	31.25
1-Jul	29-Jul	SW	R	T3	ND	50	3.0577	0.5764	0.4415	31.25
14-Jul	28-Jul	WE	L	T1	D	4	2.9007	0.24445	0.2147	41.75
14-Jul	28-Jul	WE	L	T1	D	4	2.9007	0.3037	0.2733	41.75
14-Jul	28-Jul	WE	L	T1	D	20	3.0349	0.10765	0.0905	29.25
14-Jul	28-Jul	WE	L	T1	D	20	3.0349	0.1352	0.104	29.25
14-Jul	28-Jul	WE	L	T1	D	50	2.9831	0.0278	0.0138	34
14-Jul	28-Jul	WE	L	T1	D	50	2.9831	0.02615	0.0141	34
14-Jul	28-Jul	WE	L	T2	D	4	2.9184	4.516	4.0022	40.25
14-Jul	28-Jul	WE	L	T2	D	4	2.9184	4.60595	4.0627	40.25
14-Jul	28-Jul	WE	L	T2	D	20	3.0177	0.23475	0.1972	31.25
14-Jul	28-Jul	WE	L	T2	D	20	3.0177	0.16575	0.1381	31.25
14-Jul	28-Jul	WE	L	T2	D	50	2.9815	0.1247	0.0847	34
14-Jul	28-Jul	WE	L	T2	D	50	2.9815	0.0702	0.0501	34
14-Jul	28-Jul	WE	L	T3	D	4	2.8873	0.17075	0.1328	43
14-Jul	28-Jul	WE	L	T3	D	4	2.8873	0.17805	0.1476	43
14-Jul	28-Jul	WE	L	T3	D	20	3.0248	0.11425	0.083	30.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
14-Jul	28-Jul	WE	L	T3	D	20	3.0248	0.1106	0.0837	30.5
14-Jul	28-Jul	WE	L	T3	D	50	3.0261	0.14	0.0835	30.5
14-Jul	28-Jul	WE	L	T3	D	50	3.0261	0.12485	0.0846	30.5
14-Jul	28-Jul	WE	R	T1	ND	4	2.799	2.14875	1.9122	52.5
14-Jul	28-Jul	WE	R	T1	ND	4	2.799	2.37495	2.1037	52.5
14-Jul	28-Jul	WE	R	T1	ND	20	3.0569	0.06685	0.0524	27.25
14-Jul	28-Jul	WE	R	T1	ND	20	3.0569	0.04195	0.0349	27.25
14-Jul	28-Jul	WE	R	T1	ND	50	3.0168	0.14035	0.1104	31.75
14-Jul	28-Jul	WE	R	T1	ND	50	3.0168	0.14395	0.1137	31.75
14-Jul	28-Jul	WE	R	T2	D	4	2.8105	1.14295	1.0097	51.75
14-Jul	28-Jul	WE	R	T2	D	4	2.8105	1.0015	0.8685	51.75
14-Jul	28-Jul	WE	R	T2	D	20	2.9776	0.17325	0.1304	34.5
14-Jul	28-Jul	WE	R	T2	D	20	2.9776	0.20145	0.1435	34.5
14-Jul	28-Jul	WE	R	T2	D	50	3.0229	0.09035	0.0548	30.5
14-Jul	28-Jul	WE	R	T2	D	50	3.0229	0.12605	0.0963	30.5
14-Jul	28-Jul	WE	R	T3	ND	4	2.9538	0.7702	0.6724	37.5
14-Jul	28-Jul	WE	R	T3	ND	4	2.9538	0.81825	0.6997	37.5
14-Jul	28-Jul	WE	R	T3	ND	20	3.0535	0.0897	0.0692	27.75
14-Jul	28-Jul	WE	R	T3	ND	20	3.0535	0.08685	0.0704	27.75
14-Jul	28-Jul	WE	R	T3	ND	50	2.9749	0.1605	0.1387	35
14-Jul	28-Jul	WE	R	T3	ND	50	2.9749	0.1428	0.1239	35
14-Jul	28-Jul	CL	L	T1	ND	4	2.9199	0.20365	0.1529	40.25
14-Jul	28-Jul	CL	L	T1	ND	4	2.9199	0.14875	0.1277	40.25
14-Jul	28-Jul	CL	L	T1	ND	20	3.016	0.1118	0.0728	31.75
14-Jul	28-Jul	CL	L	T1	ND	20	3.016	0.10495	0.0822	31.75
14-Jul	28-Jul	CL	L	T1	ND	50	3.0444	0.32235	0.2602	22.25
14-Jul	28-Jul	CL	L	T1	ND	50	3.0444	0.16545	0.1405	22.25
14-Jul	28-Jul	CL	L	T2	ND	4	2.869	0.1814	0.1416	44.75
14-Jul	28-Jul	CL	L	T2	ND	4	2.869	0.1763	0.15	44.75
14-Jul	28-Jul	CL	L	T2	ND	20	3.0134	0.2088	0.1677	32.25
14-Jul	28-Jul	CL	L	T2	ND	20	3.0134	0.33875	0.2568	32.25
14-Jul	28-Jul	CL	L	T2	ND	50	3.0491	0.22645	0.1958	22
14-Jul	28-Jul	CL	L	T2	ND	50	3.0491	0.2496	0.1927	22
14-Jul	28-Jul	CL	L	T3	ND	4	2.8459	0.2277	0.1714	47.5
14-Jul	28-Jul	CL	L	T3	ND	4	2.8459	0.23785	0.166	47.5
14-Jul	28-Jul	CL	L	T3	ND	20	3.0247	0.32415	0.2451	30.5
14-Jul	28-Jul	CL	L	T3	ND	20	3.0247	0.2091	0.1832	30.5
14-Jul	28-Jul	CL	L	T3	ND	50	3.0625	0.3323	0.2741	26
14-Jul	28-Jul	CL	L	T3	ND	50	3.0625	0.2366	0.1791	26
14-Jul	28-Jul	CL	R	T1	D	4	2.8685	4.7054	4.1898	44.75
14-Jul	28-Jul	CL	R	T1	D	4	2.8685	4.82795	4.3057	44.75
14-Jul	28-Jul	CL	R	T1	D	20	3.0647	0.3233	0.2732	25.75
14-Jul	28-Jul	CL	R	T1	D	20	3.0647	0.41545	0.3581	25.75
14-Jul	28-Jul	CL	R	T1	D	50	3.0232	0.1526	0.1214	30.5
14-Jul	28-Jul	CL	R	T1	D	50	3.0232	0.2854	0.2158	30.5
14-Jul	28-Jul	CL	R	T2	ND	4	2.9764	0.4354	0.3805	35
14-Jul	28-Jul	CL	R	T2	ND	4	2.9764	0.8999	0.7925	35
14-Jul	28-Jul	CL	R	T2	ND	20	3.0994	0.1814	0.1542	21.25
14-Jul	28-Jul	CL	R	T2	ND	20	3.0994	0.2691	0.2316	21.25
14-Jul	28-Jul	CL	R	T2	ND	50	3.0578	0.1025	0.078	27.25
14-Jul	28-Jul	CL	R	T2	ND	50	3.0578	0.12865	0.099	27.25
14-Jul	28-Jul	CL	R	T3	D	4	2.991	0.1656	0.1397	33.5
14-Jul	28-Jul	CL	R	T3	D	4	2.991	0.31295	0.2671	33.5
14-Jul	28-Jul	CL	R	T3	D	20	3.0078	0.08695	0.0453	32.5
14-Jul	28-Jul	CL	R	T3	D	20	3.0078	0.0855	0.0559	32.5
14-Jul	28-Jul	CL	R	T3	D	50	3.0237	0.1444	0.0972	30.5
14-Jul	28-Jul	CL	R	T3	D	50	3.0237	0.1413	0.1001	30.5
14-Jul	28-Jul	NE	L	T1	ND	4	2.9266	0.63415	0.5662	39.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
14-Jul	28-Jul	NE	L	T1	ND	4	2.9266	0.53505	0.4769	39.25
14-Jul	28-Jul	NE	L	T1	ND	20	3.0976	0.27465	0.2273	21.5
14-Jul	28-Jul	NE	L	T1	ND	20	3.0976	0.17475	0.1533	21.5
14-Jul	28-Jul	NE	L	T1	ND	50	3.0758	0.1677	0.1446	25
14-Jul	28-Jul	NE	L	T1	ND	50	3.0758	0.1208	0.1047	25
14-Jul	28-Jul	NE	L	T2	ND	4	2.8845	0.5586	0.4798	43
14-Jul	28-Jul	NE	L	T2	ND	4	2.8845	0.47485	0.4102	43
14-Jul	28-Jul	NE	L	T2	ND	20	3.0353	0.0422	0.0246	29.25
14-Jul	28-Jul	NE	L	T2	ND	20	3.0353	0.0905	0.0718	29.25
14-Jul	28-Jul	NE	L	T2	ND	50	3.0554	0.1359	0.1164	27.75
14-Jul	28-Jul	NE	L	T2	ND	50	3.0554	0.10775	0.0919	27.75
14-Jul	28-Jul	NE	L	T3	D	4	2.8723	0.17705	0.1433	44.75
14-Jul	28-Jul	NE	L	T3	D	4	2.8723	0.15035	0.1185	44.75
14-Jul	28-Jul	NE	L	T3	D	20	2.8774	0.25485	0.1772	44.5
14-Jul	28-Jul	NE	L	T3	D	20	2.8774	0.36425	0.2698	44.5
14-Jul	28-Jul	NE	L	T3	D	50	2.7844	0.367	0.305	54
14-Jul	28-Jul	NE	L	T3	D	50	2.7844	0.2395	0.2065	54
14-Jul	28-Jul	NE	R	T1	D	4	2.9623	0.18225	0.1581	36
14-Jul	28-Jul	NE	R	T1	D	4	2.9623	0.1084	0.0879	36
14-Jul	28-Jul	NE	R	T1	D	20	3.0737	0.2366	0.2034	25.25
14-Jul	28-Jul	NE	R	T1	D	20	3.0737	0.29805	0.2361	25.25
14-Jul	28-Jul	NE	R	T1	D	50	3.0646	0.19185	0.1659	25.75
14-Jul	28-Jul	NE	R	T1	D	50	3.0646	0.28025	0.2171	25.75
14-Jul	28-Jul	NE	R	T2	ND	4	3.0194	0.1258	0.1004	30.75
14-Jul	28-Jul	NE	R	T2	ND	4	3.0194	0.1295	0.113	30.75
14-Jul	28-Jul	NE	R	T2	ND	20	3.0347	0.3147	0.2715	29.25
14-Jul	28-Jul	NE	R	T2	ND	20	3.0347	0.2205	0.1924	29.25
14-Jul	28-Jul	NE	R	T2	ND	50	3.0221	0.19295	0.1394	30.5
14-Jul	28-Jul	NE	R	T2	ND	50	3.0221	0.16445	0.1054	30.5
14-Jul	28-Jul	NE	R	T3	ND	4	2.8984	0.14455	0.1155	42
14-Jul	28-Jul	NE	R	T3	ND	20	2.9664	0.0895	0.0621	35.75
14-Jul	28-Jul	NE	R	T3	ND	20	2.9664	0.09035	0.0594	35.75
14-Jul	28-Jul	NE	R	T3	ND	50	3.0397	0.1725	0.13	29
14-Jul	28-Jul	NE	R	T3	ND	50	3.0397	0.19885	0.1528	29
29-Jul	18-Aug	SW	M	2	D	4	2.9552	0.232	0.1891	12
29-Jul	18-Aug	SW	M	2	D	4	2.9552	0.1778	0.1528	12
29-Jul	18-Aug	SW	M	2	D	10	2.9203	0.1778	0.151	16
29-Jul	18-Aug	SW	M	2	D	10	2.9203	0.1427	0.1105	16
29-Jul	18-Aug	SW	M	2	D	20	2.9382	0.12575	0.0962	13.75
29-Jul	18-Aug	SW	M	2	D	20	2.9382	0.15865	0.131	13.75
29-Jul	18-Aug	SW	M	2	D	50	2.9488	0.2019	0.1491	12.25
29-Jul	18-Aug	SW	M	2	D	50	2.9488	0.22045	0.1707	12.25
29-Jul	18-Aug	SW	M	2	ND	4	2.9931	0.1568	0.1275	8
29-Jul	18-Aug	SW	M	2	ND	4	2.9931	0.16075	0.1402	8
29-Jul	18-Aug	SW	M	2	ND	10	3.0926	0.18865	0.1663	4.75
29-Jul	18-Aug	SW	M	2	ND	10	3.0926	0.1737	0.1532	4.75
29-Jul	18-Aug	SW	M	2	ND	20	3.1019	0.1523	0.1339	4.25
29-Jul	18-Aug	SW	M	2	ND	20	3.1019	0.1624	0.1383	4.25
29-Jul	18-Aug	SW	M	2	ND	50	3.0453	0.1432	0.1209	5.75
29-Jul	18-Aug	SW	M	2	ND	50	3.0453	0.11155	0.0929	5.75
29-Jul	18-Aug	SW	L	1	D	4	2.9959	0.2701	0.2331	7.5
29-Jul	18-Aug	SW	L	1	D	4	2.9959	0.2046	0.179	7.5
29-Jul	18-Aug	SW	L	1	D	10	2.9595	0.1987	0.17	11
29-Jul	18-Aug	SW	L	1	D	10	2.9595	0.31925	0.2831	11
29-Jul	18-Aug	SW	L	1	D	20	2.8807	0.1742	0.1394	21.75
29-Jul	18-Aug	SW	L	1	D	20	2.8807	0.2084	0.1613	21.75
29-Jul	18-Aug	SW	L	1	D	50	2.9691	0.1924	0.1395	9.75
29-Jul	18-Aug	SW	L	1	D	50	2.9691	0.1866	0.1347	9.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
29-Jul	18-Aug	SW	L	T1	ND	4	3.0025	0.21415	0.1881	7
29-Jul	18-Aug	SW	L	T1	ND	4	3.0025	0.21605	0.1928	7
29-Jul	18-Aug	SW	L	T1	ND	10	3.0624	0.15805	0.1411	5.75
29-Jul	18-Aug	SW	L	T1	ND	10	3.0624	0.1706	0.1524	5.75
29-Jul	18-Aug	SW	L	T1	ND	20	2.8929	0.15025	0.1273	20
29-Jul	18-Aug	SW	L	T1	ND	20	2.8929	0.13785	0.1141	20
29-Jul	18-Aug	SW	L	T1	ND	50	2.899	0.15485	0.1207	19.25
29-Jul	18-Aug	SW	L	T1	ND	50	2.899	0.16585	0.1352	19.25
29-Jul	18-Aug	SW	L	T2	D	4	2.8572	0.33035	0.2694	25.5
29-Jul	18-Aug	SW	L	T2	D	4	2.8572	0.253	0.2108	25.5
29-Jul	18-Aug	SW	L	T2	D	10	2.952	0.1357	0.1084	12.25
29-Jul	18-Aug	SW	L	T2	D	10	2.952	0.15005	0.1212	12.25
29-Jul	18-Aug	SW	L	T2	D	20	2.988	0.14885	0.1286	8.25
29-Jul	18-Aug	SW	L	T2	D	20	2.988	0.21145	0.1687	8.25
29-Jul	18-Aug	SW	L	T2	D	50	2.9813	0.1609	0.135	8.5
29-Jul	18-Aug	SW	L	T2	D	50	2.9813	0.18265	0.1511	8.5
29-Jul	18-Aug	SW	L	2	ND	4	3.0692	0.1684	0.1454	5
29-Jul	18-Aug	SW	L	2	ND	4	3.0692	0.127	0.114	5
29-Jul	18-Aug	SW	L	2	ND	12	3.0228	0.1552	0.1273	5.75
29-Jul	18-Aug	SW	L	2	ND	12	3.0228	0.16155	0.1309	5.75
29-Jul	18-Aug	SW	L	2	ND	40	3.0232	0.1417	0.1186	5.75
29-Jul	18-Aug	SW	L	2	ND	40	3.0232	0.1122	0.0884	5.75
29-Jul	18-Aug	SW	L	T3	D	4	2.9746	0.30295	0.2607	9
29-Jul	18-Aug	SW	L	T3	D	4	2.9746	0.28085	0.2475	9
29-Jul	18-Aug	SW	L	T3	D	20	2.9632	0.1741	0.144	10.5
29-Jul	18-Aug	SW	L	T3	D	20	2.9632	0.17805	0.1479	10.5
29-Jul	18-Aug	SW	L	T3	D	50	2.9167	0.15105	0.1065	16.25
29-Jul	18-Aug	SW	L	T3	D	50	2.9167	0.17205	0.143	16.25
29-Jul	18-Aug	SW	R	T1	D	4	2.9905	0.25015	0.2229	8.25
29-Jul	18-Aug	SW	R	T1	D	4	2.9905	0.2412	0.2093	8.25
29-Jul	18-Aug	SW	R	T1	D	10	3.0579	0.15415	0.135	5.75
29-Jul	18-Aug	SW	R	T1	D	10	3.0579	0.1814	0.1564	5.75
29-Jul	18-Aug	SW	R	T1	D	20	3.0354	0.18785	0.162	5.75
29-Jul	18-Aug	SW	R	T1	D	20	3.0354	0.18355	0.1609	5.75
29-Jul	18-Aug	SW	R	T1	D	50	3.0326	0.1739	0.1505	5.75
29-Jul	18-Aug	SW	R	T1	D	50	3.0326	0.1456	0.1224	5.75
21-Jul	18-Aug	SW	R	T1	D	80	2.9155	0.0774	0.0062	46.25
21-Jul	18-Aug	SW	R	T1	D	80	2.9155	0.04425	-0.0101	46.25
29-Jul	18-Aug	SW	R	T1	ND	4	3.0034	0.153	0.1345	7
29-Jul	18-Aug	SW	R	T1	ND	4	3.0034	0.19735	0.1714	7
29-Jul	18-Aug	SW	R	T1	ND	10	3.0556	0.17915	0.1546	5.75
29-Jul	18-Aug	SW	R	T1	ND	10	3.0556	0.1791	0.1543	5.75
29-Jul	18-Aug	SW	R	T1	ND	20	3.0928	0.14945	0.1266	4.75
29-Jul	18-Aug	SW	R	T1	ND	20	3.0928	0.16165	0.1442	4.75
29-Jul	18-Aug	SW	R	T1	ND	50	3.0776	0.1763	0.1524	5
29-Jul	18-Aug	SW	R	T1	ND	50	3.0776	0.1822	0.1559	5
29-Jul	18-Aug	SW	R	T2	D	4	2.9353	0.2371	0.1951	14
29-Jul	18-Aug	SW	R	T2	D	4	2.9353	0.18035	0.1542	14
29-Jul	18-Aug	SW	R	T2	D	10	2.973	0.16145	0.1301	9.25
29-Jul	18-Aug	SW	R	T2	D	10	2.973	0.1835	0.1545	9.25
29-Jul	18-Aug	SW	R	T2	D	20	2.8926	0.20535	0.1382	20
29-Jul	18-Aug	SW	R	T2	D	20	2.8926	0.1495	0.0971	20
29-Jul	18-Aug	SW	R	T2	D	50	2.9994	0.17935	0.1514	7
29-Jul	18-Aug	SW	R	T2	D	50	2.9994	0.175	0.1504	7
29-Jul	18-Aug	SW	R	T2	ND	4	2.9073	0.1835	0.1579	17.5
29-Jul	18-Aug	SW	R	T2	ND	4	2.9073	0.15925	0.1297	17.5
29-Jul	18-Aug	SW	R	T2	ND	10	3.018	0.1999	0.1472	6
29-Jul	18-Aug	SW	R	T2	ND	10	3.018	0.15725	0.1262	6

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
29-Jul	18-Aug	SW	R	T2	ND	20	3.0038	0.14085	0.1247	7
29-Jul	18-Aug	SW	R	T2	ND	20	3.0038	0.12095	0.1029	7
29-Jul	18-Aug	SW	R	T2	ND	50	3.0206	0.12005	0.102	6
29-Jul	18-Aug	SW	R	T2	ND	50	3.0206	0.122	0.0992	6
29-Jul	18-Aug	SW	R	T3	D	4	2.9948	0.15415	0.1386	7.5
29-Jul	18-Aug	SW	R	T3	D	4	2.9948	0.15965	0.1429	7.5
29-Jul	18-Aug	SW	R	T3	D	10	3.0218	0.1572	0.1402	5.75
29-Jul	18-Aug	SW	R	T3	D	10	3.0218	0.16365	0.1463	5.75
29-Jul	18-Aug	SW	R	T3	D	20	3.0479	0.1522	0.1344	5.75
29-Jul	18-Aug	SW	R	T3	D	20	3.0479	0.1394	0.1223	5.75
29-Jul	18-Aug	SW	R	T3	D	50	2.9281	0.15795	0.1384	14.75
29-Jul	18-Aug	SW	R	T3	D	50	2.9281	0.17425	0.1494	14.75
29-Jul	18-Aug	SW	R	T3	ND	4	2.9692	0.1683	0.149	9.75
29-Jul	18-Aug	SW	R	T3	ND	4	2.9692	0.1579	0.1412	9.75
29-Jul	18-Aug	SW	R	T3	ND	10	3.0576	0.1703	0.1433	5.75
29-Jul	18-Aug	SW	R	T3	ND	10	3.0576	0.17605	0.1496	5.75
29-Jul	18-Aug	SW	R	T3	ND	20	3.0509	0.0903	0.0783	5.75
29-Jul	18-Aug	SW	R	T3	ND	20	3.0509	0.09355	0.0829	5.75
29-Jul	18-Aug	SW	R	T3	ND	50	3.0577	0.1201	0.1086	5.75
29-Jul	18-Aug	SW	R	T3	ND	50	3.0577	0.0899	0.0776	5.75
28-Jul	18-Aug	WE	L	T1	D	4	2.9007	0.50805	0.4458	19.75
28-Jul	18-Aug	WE	L	T1	D	4	2.9007	0.21295	0.1932	19.75
28-Jul	18-Aug	WE	L	T1	D	20	3.0349	0.1322	0.119	5.75
28-Jul	18-Aug	WE	L	T1	D	20	3.0349	0.17515	0.1569	5.75
28-Jul	18-Aug	WE	L	T1	D	50	2.9831	0.1744	0.1494	9.25
28-Jul	18-Aug	WE	L	T1	D	50	2.9831	0.16805	0.1499	9.25
28-Jul	18-Aug	WE	L	T2	D	4	2.9184	0.75075	0.6571	17.5
28-Jul	18-Aug	WE	L	T2	D	4	2.9184	0.9179	0.8117	17.5
28-Jul	18-Aug	WE	L	T2	D	20	3.0177	0.09785	0.0891	6
28-Jul	18-Aug	WE	L	T2	D	20	3.0177	0.14895	0.1351	6
28-Jul	18-Aug	WE	L	T2	D	50	2.9815	0.1036	0.0833	9.25
28-Jul	18-Aug	WE	L	T2	D	50	2.9815	0.1593	0.1379	9.25
28-Jul	18-Aug	WE	L	T3	D	4	2.8873	0.1218	0.0866	21.75
28-Jul	18-Aug	WE	L	T3	D	4	2.8873	0.11215	0.0874	21.75
28-Jul	18-Aug	WE	L	T3	D	20	3.0248	0.1217	0.1065	5.75
28-Jul	18-Aug	WE	L	T3	D	20	3.0248	0.16285	0.1437	5.75
28-Jul	18-Aug	WE	L	T3	D	50	3.0261	0.14425	0.1185	5.75
28-Jul	18-Aug	WE	L	T3	D	50	3.0261	0.154	0.1375	5.75
28-Jul	18-Aug	WE	R	T1	ND	4	2.799	0.431	0.3802	39.25
28-Jul	18-Aug	WE	R	T1	ND	4	2.799	0.44075	0.3654	39.25
28-Jul	18-Aug	WE	R	T1	ND	20	3.0569	0.2319	0.2113	5.75
28-Jul	18-Aug	WE	R	T1	ND	20	3.0569	0.19655	0.1748	5.75
28-Jul	18-Aug	WE	R	T1	ND	50	3.0168	0.20845	0.1587	6
28-Jul	18-Aug	WE	R	T1	ND	50	3.0168	0.24545	0.1889	6
28-Jul	18-Aug	WE	R	T2	D	4	2.8105	0.20775	0.1751	36.25
28-Jul	18-Aug	WE	R	T2	D	4	2.9776	0.19275	0.1599	36.25
28-Jul	18-Aug	WE	R	T2	D	20	2.9776	0.3364	0.2863	9.5
28-Jul	18-Aug	WE	R	T2	D	20	3.0229	0.2708	0.2327	9.5
28-Jul	18-Aug	WE	R	T2	D	50	3.0229	0.20785	0.1753	5.75
28-Jul	18-Aug	WE	R	T2	ND	50	2.9538	0.1684	0.1431	5.75
28-Jul	18-Aug	WE	R	T3	D	4	2.8105	0.19455	0.1673	13
28-Jul	18-Aug	WE	R	T3	ND	4	2.9538	0.2716	0.1934	13
28-Jul	18-Aug	WE	R	T3	ND	20	3.0535	0.21055	0.1773	5.75
28-Jul	18-Aug	WE	R	T3	ND	20	3.0535	0.1822	0.1576	5.75
28-Jul	18-Aug	WE	R	T3	ND	50	2.9749	0.24345	0.2141	9.75
28-Jul	18-Aug	WE	R	T3	ND	50	2.9749	0.1305	0.1115	9.75
28-Jul	19-Aug	CL	L	TI	ND	4	2.9199	0.1451	0.1209	20.75
28-Jul	19-Aug	CL	L	TI	ND	4	2.9199	0.15335	0.1234	20.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
28-Jul	19-Aug	CL	L	TI	ND	20	3.016	0.1562	0.1322	8.75
28-Jul	19-Aug	CL	L	TI	ND	20	3.016	0.1329	0.1169	8.75
28-Jul	19-Aug	CL	L	TI	ND	50	3.0444	0.1256	0.1119	8.25
28-Jul	19-Aug	CL	L	TI	ND	50	3.0444	0.11165	0.0936	8.25
28-Jul	19-Aug	CL	L	T2	ND	4	2.869	0.14465	0.1213	29.5
28-Jul	19-Aug	CL	L	T2	ND	20	3.0134	0.15655	0.1366	9
28-Jul	19-Aug	CL	L	T2	ND	20	3.0134	0.12875	0.0993	9
28-Jul	19-Aug	CL	L	T2	ND	50	3.0491	0.148	0.1288	8.25
28-Jul	19-Aug	CL	L	T2	ND	50	3.0491	0.13935	0.1165	8.25
28-Jul	19-Aug	CL	L	T3	ND	4	2.8459	0.1291	0.0919	33
28-Jul	19-Aug	CL	L	T3	ND	4	2.8459	0.1429	0.0869	33
28-Jul	19-Aug	CL	L	T3	ND	20	3.0247	0.1971	0.1624	8.5
28-Jul	19-Aug	CL	L	T3	ND	20	3.0247	0.174	0.1425	8.5
28-Jul	19-Aug	CL	L	T3	ND	50	3.0625	0.1107	0.0922	8.25
28-Jul	19-Aug	CL	L	T3	ND	50	3.0625	0.129	0.112	8.25
28-Jul	19-Aug	CL	R	T1	D	4	2.8685	1.13685	1.0012	29.5
28-Jul	19-Aug	CL	R	T1	D	4	2.8685	1.1168	0.9881	29.5
28-Jul	19-Aug	CL	R	T1	D	20	3.0647	0.2079	0.1855	8.25
28-Jul	19-Aug	CL	R	T1	D	20	3.0647	0.1984	0.1706	8.25
28-Jul	19-Aug	CL	R	T1	D	50	3.0232	0.20875	0.1864	8.5
28-Jul	19-Aug	CL	R	T1	D	50	3.0232	0.189	0.158	8.5
28-Jul	19-Aug	CL	R	T2	ND	4	2.9764	0.30815	0.2742	12.75
28-Jul	19-Aug	CL	R	T2	ND	4	2.9764	0.43295	0.3787	12.75
28-Jul	19-Aug	CL	R	T2	ND	20	3.0994	0.073	0.0499	6.75
28-Jul	19-Aug	CL	R	T2	ND	20	3.0994	0.1758	0.1454	6.75
28-Jul	19-Aug	CL	R	T2	ND	50	3.0578	0.14645	0.1289	8.25
28-Jul	19-Aug	CL	R	T2	ND	50	3.0578	0.11885	0.1048	8.25
28-Jul	19-Aug	CL	R	T3	D	4	2.991	0.15105	0.1351	11.25
28-Jul	19-Aug	CL	R	T3	D	4	2.991	0.2025	0.1758	11.25
28-Jul	19-Aug	CL	R	T3	D	20	3.0078	0.1435	0.1195	9.25
28-Jul	19-Aug	CL	R	T3	D	20	3.0078	0.1319	0.1128	9.25
28-Jul	19-Aug	CL	R	T3	D	50	3.0237	0.16595	0.1348	8.5
28-Jul	19-Aug	CL	R	T3	D	50	3.0237	0.16745	0.1441	8.5
28-Jul	19-Aug	NE	L	T1	ND	4	2.9266	0.3705	0.3305	19.25
28-Jul	19-Aug	NE	L	T1	ND	4	2.9266	0.5069	0.4447	19.25
28-Jul	19-Aug	NE	L	T1	ND	20	3.0976	0.14895	0.1269	6.75
28-Jul	19-Aug	NE	L	T1	ND	20	3.0976	0.12375	0.1096	6.75
28-Jul	19-Aug	NE	L	T1	ND	50	3.0758	0.09305	0.0778	7.5
28-Jul	19-Aug	NE	L	T1	ND	50	3.0758	0.09945	0.0849	7.5
28-Jul	19-Aug	NE	L	T2	ND	4	2.8845	0.17185	0.1425	26.25
28-Jul	19-Aug	NE	L	T2	ND	4	2.8845	0.27125	0.2371	26.25
28-Jul	19-Aug	NE	L	T2	ND	20	3.0353	0.16715	0.1421	8.25
28-Jul	19-Aug	NE	L	T2	ND	20	3.0353	0.1331	0.1116	8.25
28-Jul	19-Aug	NE	L	T2	ND	50	3.0554	0.13505	0.1205	8.25
28-Jul	19-Aug	NE	L	T2	ND	50	3.0554	0.11275	0.0993	8.25
28-Jul	19-Aug	NE	L	T3	D	4	2.8723	0.13835	0.123	28.25
28-Jul	19-Aug	NE	L	T3	D	4	2.8723	0.16845	0.1394	28.25
28-Jul	19-Aug	NE	L	T3	D	20	2.8774	0.25755	0.1871	27.5
28-Jul	19-Aug	NE	L	T3	D	20	2.8774	0.2187	0.147	27.5
28-Jul	19-Aug	NE	L	T3	D	50	2.7844	0.2554	0.2107	46
28-Jul	19-Aug	NE	L	T3	D	50	2.7844	0.26845	0.2179	46
28-Jul	19-Aug	NE	R	T1	D	4	2.9623	0.1972	0.1774	14.25
28-Jul	19-Aug	NE	R	T1	D	4	2.9623	0.1895	0.1708	14.25
28-Jul	19-Aug	NE	R	T1	D	20	3.0737	0.1472	0.1295	7.5
28-Jul	19-Aug	NE	R	T1	D	20	3.0737	0.15335	0.1307	7.5
28-Jul	19-Aug	NE	R	T1	D	50	3.0646	0.14065	0.1228	8.25
28-Jul	19-Aug	NE	R	T1	D	50	3.0646	0.1407	0.1131	8.25
28-Jul	19-Aug	NE	R	T2	ND	4	3.0194	0.18925	0.17	8.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
28-Jul	19-Aug	NE	R	T2	ND	4	3.0194	0.1345	0.12	8.75
28-Jul	19-Aug	NE	R	T2	ND	20	3.0347	0.10725	0.0904	8.25
28-Jul	19-Aug	NE	R	T2	ND	20	3.0347	0.13215	0.1179	8.25
28-Jul	19-Aug	NE	R	T2	ND	50	3.0221	0.13365	0.1141	8.5
28-Jul	19-Aug	NE	R	T2	ND	50	3.0221	0.1606	0.1244	8.5
28-Jul	19-Aug	NE	R	T3	ND	4	2.8984	0.16965	0.132	24.25
28-Jul	19-Aug	NE	R	T3	ND	4	2.8984	0.1757	0.1433	24.25
28-Jul	19-Aug	NE	R	T3	ND	20	2.9664	0.1546	0.1352	14
28-Jul	19-Aug	NE	R	T3	ND	20	2.9664	0.1048	0.0815	14
28-Jul	19-Aug	NE	R	T3	ND	50	3.0397	0.10755	0.0922	8.25
28-Jul	19-Aug	NE	R	T3	ND	50	3.0397	0.10695	0.087	8.25

APPENDIX 5d. Marsh platform sediment plate data from 2006. Negative values indicate damage to the filter.

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
18-Jun	25-Jun	SW	L	T1	ND	4	3.0025	0.03985	0.0312	11.5
18-Jun	25-Jun	SW	L	T1	ND	4	3.0025	0.0527	0.0428	11.5
18-Jun	25-Jun	SW	L	T1	ND	20	2.8929	0.06675	0.0543	18.5
18-Jun	25-Jun	SW	L	T1	ND	20	2.8929	0.0532	0.0417	18.5
18-Jun	25-Jun	SW	L	T1	ND	50	2.899	0.069	0.0472	17.5
18-Jun	25-Jun	SW	L	T1	ND	50	2.899	0.04895	0.0374	17.5
18-Jun	25-Jun	SW	L	T2	D	4	2.8572	0.0771	0.0629	20.5
18-Jun	25-Jun	SW	L	T2	D	4	2.8572	0.0702	0.0551	20.5
18-Jun	25-Jun	SW	L	T2	D	20	2.988	0.07015	0.0443	11.5
18-Jun	25-Jun	SW	L	T2	D	20	2.988	0.0624	0.0415	11.5
18-Jun	25-Jun	SW	L	T2	D	50	2.9813	0.0204	0.0093	12.75
18-Jun	25-Jun	SW	L	T2	D	50	2.9813	0.0419	0.0277	12.75
18-Jun	25-Jun	SW	L	T3	D	4	2.9746	0.15005	0.1249	13
18-Jun	25-Jun	SW	L	T3	D	4	2.9746	0.1808	0.1507	13
18-Jun	25-Jun	SW	L	T3	D	20	2.9632	0.01425	0.0042	14.25
18-Jun	25-Jun	SW	L	T3	D	20	2.9632	0.03905	0.0291	14.25
18-Jun	25-Jun	SW	L	T3	D	50	2.9167	0.02945	0.0209	17
18-Jun	25-Jun	SW	L	T3	D	50	2.9167	0.0377	0.0281	17
18-Jun	25-Jun	SW	R	T1	D	4	2.9905	0.0628	0.0497	11.5
18-Jun	25-Jun	SW	R	T1	D	4	2.9905	0.06675	0.0565	11.5
18-Jun	25-Jun	SW	R	T1	D	20	3.0354	0.0488	0.0358	9.5
18-Jun	25-Jun	SW	R	T1	D	20	3.0354	0.04425	0.0307	9.5
18-Jun	25-Jun	SW	R	T1	D	50	3.0326	0.03015	0.017	9.5
18-Jun	25-Jun	SW	R	T1	D	50	3.0326	0.03955	0.0244	9.5
18-Jun	25-Jun	SW	R	T2	ND	4	2.9073	0.05485	0.0427	17.5
18-Jun	25-Jun	SW	R	T2	ND	4	2.9073	0.0443	0.0323	17.5
18-Jun	25-Jun	SW	R	T2	ND	20	3.0038	0.0562	0.034	11.25
18-Jun	25-Jun	SW	R	T2	ND	20	3.0038	0.1225	0.0778	11.25
18-Jun	25-Jun	SW	R	T2	ND	50	3.0206	0.0688	0.0393	10.25
18-Jun	25-Jun	SW	R	T2	ND	50	3.0206	0.0663	0.0358	10.25
18-Jun	25-Jun	SW	R	T3	ND	4	2.9692	0.01585	0.0086	14
18-Jun	25-Jun	SW	R	T3	ND	4	2.9692	0.0553	0.0276	14
18-Jun	25-Jun	SW	R	T3	ND	20	3.0509	0.0348	0.0218	9.25
18-Jun	25-Jun	SW	R	T3	ND	20	3.0509	0.01765	0.0064	9.25
18-Jun	25-Jun	SW	R	T3	ND	50	3.0577	0.03425	0.0244	9
18-Jun	25-Jun	SW	R	T3	ND	50	3.0577	0.02065	0.0039	9
19-Jun	25-Jun	NE	L	T1	ND	4	2.9266	0.0964	0.0809	14
19-Jun	25-Jun	NE	L	T1	ND	4	2.9266	0.11435	0.0917	14
19-Jun	25-Jun	NE	L	T1	ND	20	3.0976	0.0597	0.0466	6.5
19-Jun	25-Jun	NE	L	T1	ND	20	3.0976	0.0381	0.0283	6.5
19-Jun	25-Jun	NE	L	T1	ND	50	3.0758	0.09515	0.0763	7.25
19-Jun	25-Jun	NE	L	T1	ND	50	3.0758	0.10995	0.0907	7.25
19-Jun	25-Jun	NE	L	T2	ND	4	2.8845	0.14925	0.1289	16
19-Jun	25-Jun	NE	L	T2	ND	4	2.8845	0.13885	0.1169	16
19-Jun	25-Jun	NE	L	T2	ND	20	3.0353	0.03665	0.0251	9.5
19-Jun	25-Jun	NE	L	T2	ND	20	3.0353	0.0614	0.0476	9.5
19-Jun	25-Jun	NE	L	T2	ND	50	3.0554	0.0458	0.0375	9
19-Jun	25-Jun	NE	L	T2	ND	50	3.0554	0.03835	0.0343	9
19-Jun	25-Jun	NE	L	T3	D	4	2.8723	0.025	0.0169	16
19-Jun	25-Jun	NE	L	T3	D	4	2.8723	0.0442	0.0295	16
19-Jun	25-Jun	NE	L	T3	D	20	2.8774	0.06795	0.0498	16
19-Jun	25-Jun	NE	L	T3	D	20	2.8774	0.0152	0.0049	16

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
19-Jun	25-Jun	NE	L	T3	D	50	2.7844	0.05655	0.0457	2175
19-Jun	25-Jun	NE	L	T3	D	50	2.7844	0.03415	0.0217	21.75
18-Jun	25-Jun	NE	R	T1	D	4	2.9623	0.0699	0.0572	14.5
18-Jun	25-Jun	NE	R	T1	D	4	2.9623	0.1099	0.0927	14.5
18-Jun	25-Jun	NE	R	T1	D	20	3.0737	0.0699	0.0511	7.25
18-Jun	25-Jun	NE	R	T1	D	20	3.0737	0.06445	0.0468	7.25
18-Jun	25-Jun	NE	R	T1	D	50	3.0646	0.0347	0.0215	8.25
18-Jun	25-Jun	NE	R	T1	D	50	3.0646	0.0521	0.034	8.25
18-Jun	25-Jun	NE	R	T2	ND	4	3.0194	0.0648	0.0473	10.25
18-Jun	25-Jun	NE	R	T2	ND	4	3.0194	0.06335	0.0439	10.25
18-Jun	25-Jun	NE	R	T2	ND	20	3.0347	0.042	0.0295	9.5
18-Jun	25-Jun	NE	R	T2	ND	20	3.0347	0.07685	0.0472	9.5
18-Jun	25-Jun	NE	R	T2	ND	50	3.0221	0.0624	0.0438	10.25
18-Jun	25-Jun	NE	R	T2	ND	50	3.0221	0.05955	0.0423	10.25
18-Jun	25-Jun	NE	R	T3	ND	4	2.8984	0.0525	0.0318	17.75
18-Jun	25-Jun	NE	R	T3	ND	4	2.8984	0.0402	0.0168	17.75
18-Jun	25-Jun	NE	R	T3	ND	20	2.9664	0.04175	0.0269	14
18-Jun	25-Jun	NE	R	T3	ND	20	2.9664	0.05405	0.0304	14
18-Jun	25-Jun	NE	R	T3	ND	50	3.0397	0.08135	0.0568	9.25
18-Jun	25-Jun	NE	R	T3	ND	50	3.0397	0.0795	0.0544	9.25
19-Jun	26-Jun	CL	L	T1	ND	4	2.9199	0.07015	0.0617	17
19-Jun	26-Jun	CL	L	T1	ND	4	2.9199	0.08	0.0673	17
19-Jun	26-Jun	CL	L	T1	ND	20	3.016	0.0893	0.0712	12.25
19-Jun	26-Jun	CL	L	T1	ND	20	3.016	0.0711	0.0597	12.25
19-Jun	26-Jun	CL	L	T1	ND	50	3.0444	0.10465	0.0844	11.25
19-Jun	26-Jun	CL	L	T1	ND	50	3.0444	0.1113	0.0907	11.25
19-Jun	26-Jun	CL	L	T2	ND	4	2.869	0.08815	0.0736	19
19-Jun	26-Jun	CL	L	T2	ND	4	2.869	0.06885	0.058	19
19-Jun	26-Jun	CL	L	T2	ND	20	3.0134	0.08615	0.0677	12.25
19-Jun	26-Jun	CL	L	T2	ND	20	3.0134	0.1493	0.1046	12.25
19-Jun	26-Jun	CL	L	T2	ND	50	3.0491	0.0849	0.069	11.25
19-Jun	26-Jun	CL	L	T2	ND	50	3.0491	0.09485	0.0697	11.25
19-Jun	26-Jun	CL	L	T3	ND	4	2.8459	0.1025	0.0718	20.25
19-Jun	26-Jun	CL	L	T3	ND	4	2.8459	0.07715	0.0653	20.25
19-Jun	26-Jun	CL	L	T3	ND	20	3.0247	0.1222	0.0845	12.25
19-Jun	26-Jun	CL	L	T3	ND	20	3.0247	0.06615	0.0482	12.25
19-Jun	26-Jun	CL	L	T3	ND	50	3.0625	0.1131	0.0865	10.5
19-Jun	26-Jun	CL	L	T3	ND	50	3.0625	0.095	0.0743	10.5
19-Jun	26-Jun	CL	R	T1	D	4	2.8685	0.1481	0.1288	19.25
19-Jun	26-Jun	CL	R	T1	D	4	2.8685	0.09625	0.0866	19.25
19-Jun	26-Jun	CL	R	T1	D	20	3.0647	0.08055	0.0676	10.25
19-Jun	26-Jun	CL	R	T1	D	20	3.0647	0.09265	0.0789	10.25
19-Jun	26-Jun	CL	R	T1	D	50	3.0232	0.11305	0.0878	12.25
19-Jun	26-Jun	CL	R	T1	D	50	3.0232	0.09385	0.0732	12.25
19-Jun	26-Jun	CL	R	T2	ND	4	2.9764	0.085	0.0711	14.25
19-Jun	26-Jun	CL	R	T2	ND	4	2.9764	0.07855	0.0641	14.25
19-Jun	26-Jun	CL	R	T2	ND	20	3.0994	0.071	0.0593	8
19-Jun	26-Jun	CL	R	T2	ND	20	3.0994	0.10855	0.0843	8
19-Jun	26-Jun	CL	R	T2	ND	50	3.0578	0.0567	0.0449	11
19-Jun	26-Jun	CL	R	T2	ND	50	3.0578	0.0659	0.0495	11
19-Jun	26-Jun	CL	R	T3	D	4	2.991	0.07975	0.0674	13
19-Jun	26-Jun	CL	R	T3	D	4	2.991	0.07985	0.0672	13
19-Jun	26-Jun	CL	R	T3	D	20	3.0078	0.0693	0.0582	12.75
19-Jun	26-Jun	CL	R	T3	D	20	3.0078	0.0758	0.0628	12.75
19-Jun	26-Jun	CL	R	T3	D	50	3.0237	0.1072	0.0761	12.25
19-Jun	26-Jun	CL	R	T3	D	50	3.0237	0.08385	0.0641	12.25
19-Jun	26-Jun	WE	L	T1	D	4	2.9007	0.1115	0.0957	17.5
19-Jun	26-Jun	WE	L	T1	D	4	2.9007	0.1646	0.1414	17.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
19-Jun	26-Jun	WE	L	T1	D	20	3.0349	0.1012	0.0809	11.5
19-Jun	26-Jun	WE	L	T1	D	20	3.0349	0.0798	0.0676	11.5
19-Jun	26-Jun	WE	L	T1	D	50	2.9831	0.1204	0.0909	14
19-Jun	26-Jun	WE	L	T1	D	50	2.9831	0.11515	0.0839	14
19-Jun	26-Jun	WE	L	T2	D	4	2.9184	0.27165	0.2329	17
19-Jun	26-Jun	WE	L	T2	D	4	2.9184	0.2374	0.2045	17
19-Jun	26-Jun	WE	L	T2	D	20	3.0177	0.1043	0.0887	12.25
19-Jun	26-Jun	WE	L	T2	D	20	3.0177	0.10145	0.0676	12.25
19-Jun	26-Jun	WE	L	T2	D	50	2.9815	0.07875	0.0589	14.25
19-Jun	26-Jun	WE	L	T2	D	50	2.9815	0.07675	0.06	14.25
19-Jun	26-Jun	WE	L	T3	D	4	2.8873	0.1155	0.0984	18.25
19-Jun	26-Jun	WE	L	T3	D	4	2.8873	0.108	0.0915	18.25
19-Jun	26-Jun	WE	L	T3	D	20	3.0248	0.0823	0.0666	12.25
19-Jun	26-Jun	WE	L	T3	D	20	3.0248	0.0829	0.0668	12.25
19-Jun	26-Jun	WE	L	T3	D	50	3.0261	0.10225	0.0749	12
19-Jun	26-Jun	WE	L	T3	D	50	3.0261	0.10075	0.0779	12
19-Jun	26-Jun	WE	R	T1	ND	4	2.799	0.22305	0.1875	23.25
19-Jun	26-Jun	WE	R	T1	ND	4	2.799	0.1891	0.1561	23.25
19-Jun	26-Jun	WE	R	T1	ND	20	3.0569	0.06555	0.055	11
19-Jun	26-Jun	WE	R	T1	ND	20	3.0569	0.075	0.0584	11
19-Jun	26-Jun	WE	R	T1	ND	50	3.0168	0.06	0.0461	12.25
19-Jun	26-Jun	WE	R	T1	ND	50	3.0168	0.0613	0.0432	12.25
19-Jun	26-Jun	WE	R	T2	D	4	2.8105	0.12725	0.1075	22.75
19-Jun	26-Jun	WE	R	T2	D	4	2.8105	0.22995	0.1975	22.75
19-Jun	26-Jun	WE	R	T2	D	20	2.9776	0.08715	0.0601	14.25
19-Jun	26-Jun	WE	R	T2	D	20	2.9776	0.11385	0.0821	14.25
19-Jun	26-Jun	WE	R	T2	D	50	3.0229	0.0811	0.0592	12.25
19-Jun	26-Jun	WE	R	T2	D	50	3.0229	0.10005	0.0661	12.25
19-Jun	26-Jun	WE	R	T3	ND	4	2.9538	0.12815	0.1061	15.5
19-Jun	26-Jun	WE	R	T3	ND	4	2.9538	0.11285	0.0938	15.5
19-Jun	26-Jun	WE	R	T3	ND	20	3.0535	0.11535	0.0927	11.25
19-Jun	26-Jun	WE	R	T3	ND	20	3.0535	0.0938	0.0746	11.25
19-Jun	26-Jun	WE	R	T3	ND	50	2.9749	0.1035	0.088	14.25
19-Jun	26-Jun	WE	R	T3	ND	50	2.9749	0.1338	0.1106	14.25
25-Jun	2-Jul	SW	L	T1	ND	4	3.0025	0.05535	0.046	6.5
25-Jun	2-Jul	SW	L	T1	ND	4	3.0025	0.0604	0.0502	6.5
25-Jun	2-Jul	SW	L	T1	ND	20	2.8929	0.05795	0.0472	10
25-Jun	2-Jul	SW	L	T1	ND	20	2.8929	0.0597	0.0477	10
25-Jun	2-Jul	SW	L	T1	ND	50	2.899	0.09575	0.0807	9.5
25-Jun	2-Jul	SW	L	T1	ND	50	2.899	0.09335	0.077	9.5
25-Jun	2-Jul	SW	L	T2	D	4	2.8572	0.07035	0.0606	11
25-Jun	2-Jul	SW	L	T2	D	4	2.8572	0.0575	0.0474	11
25-Jun	2-Jul	SW	L	T2	D	20	2.988	0.05205	0.0396	7.5
25-Jun	2-Jul	SW	L	T2	D	20	2.988	-0.0296	-0.0432	7.5
25-Jun	2-Jul	SW	L	T2	D	50	2.9813	0.04225	0.0328	7.5
25-Jun	2-Jul	SW	L	T2	D	50	2.9813	0.0476	0.0393	7.5
25-Jun	2-Jul	SW	L	T3	D	4	2.9746	0.05785	0.0458	7.5
25-Jun	2-Jul	SW	L	T3	D	4	2.9746	0.08525	0.0728	7.5
25-Jun	2-Jul	SW	L	T3	D	20	2.9632	0.0522	0.0408	8
25-Jun	2-Jul	SW	L	T3	D	20	2.9632	0.0515	0.0421	8
25-Jun	2-Jul	SW	L	T3	D	50	2.9167	0.0456	0.037	9.5
25-Jun	2-Jul	SW	L	T3	D	50	2.9167	0.041	0.0176	9.5
25-Jun	2-Jul	SW	R	T1	D	4	2.9905	0.03235	0.0234	7.25
25-Jun	2-Jul	SW	R	T1	D	4	2.9905	0.01075	0.0018	7.25
25-Jun	2-Jul	SW	R	T1	D	20	3.0354	0.04315	0.0356	4.5
25-Jun	2-Jul	SW	R	T1	D	20	3.0354	0.0408	0.0324	4.5
25-Jun	2-Jul	SW	R	T1	D	50	3.0326	0.04395	0.0361	5
25-Jun	2-Jul	SW	R	T1	D	50	3.0326	0.04745	0.0375	5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
25-Jun	2-Jul	SW	R	T2	ND	4	2.9073	0.049	0.0428	9.5
25-Jun	2-Jul	SW	R	T2	ND	4	2.9073	0.05015	0.043	9.5
25-Jun	2-Jul	SW	R	T2	ND	20	3.0038	0.0435	0.0332	6.5
25-Jun	2-Jul	SW	R	T2	ND	20	3.0038	0.02325	0.0095	6.5
25-Jun	2-Jul	SW	R	T2	ND	50	3.0206	0.0607	0.0498	5.5
25-Jun	2-Jul	SW	R	T2	ND	50	3.0206	0.0582	0.043	5.5
25-Jun	2-Jul	SW	R	T3	ND	4	2.9692	0.0404	0.0341	7.5
25-Jun	2-Jul	SW	R	T3	ND	4	2.9692	0.0395	0.0299	7.5
25-Jun	2-Jul	SW	R	T3	ND	20	3.0509	0.2912	0.2309	4.5
25-Jun	2-Jul	SW	R	T3	ND	20	3.0509	0.4378	0.3641	4.5
25-Jun	2-Jul	SW	R	T3	ND	50	3.0577	0.06045	0.0463	4.25
25-Jun	2-Jul	SW	R	T3	ND	50	3.0577	0.1788	0.1521	4.25
25-Jun	2-Jul	NE	L	T1	ND	4	2.9266	0.05525	0.0483	9.5
25-Jun	2-Jul	NE	L	T1	ND	4	2.9266	0.05475	0.048	9.5
25-Jun	2-Jul	NE	L	T1	ND	20	3.0976	0.11025	0.096	2.5
25-Jun	2-Jul	NE	L	T1	ND	20	3.0976	0.19475	0.1703	2.5
25-Jun	13-Jul	NE	L	T1	ND	50	3.0758	0.07605	0.0642	9.5
25-Jun	13-Jul	NE	L	T1	ND	50	3.0758	0.1217	0.0925	9.5
25-Jun	2-Jul	NE	L	T2	ND	4	2.8845	0.0563	0.0484	10.5
25-Jun	2-Jul	NE	L	T2	ND	4	2.8845	0.05745	0.0486	10.5
25-Jun	2-Jul	NE	L	T2	ND	20	3.0353	0.0432	0.0369	4.5
25-Jun	2-Jul	NE	L	T2	ND	20	3.0353	0.04515	0.039	4.5
25-Jun	2-Jul	NE	L	T2	ND	50	3.0554	0.0168	0.0137	4.25
25-Jun	2-Jul	NE	L	T2	ND	50	3.0554	0.06855	0.0611	4.25
25-Jun	2-Jul	NE	L	T3	D	4	2.8723	0.04705	0.0394	11
25-Jun	2-Jul	NE	L	T3	D	4	2.8723	0.05275	0.045	11
25-Jun	2-Jul	NE	L	T3	D	20	2.8774	0.0526	0.0434	10.5
25-Jun	2-Jul	NE	L	T3	D	20	2.8774	0.0374	0.0292	10.5
25-Jun	2-Jul	NE	L	T3	D	50	2.7844	0.06555	0.0526	13.5
25-Jun	2-Jul	NE	L	T3	D	50	2.7844	0.14595	0.1197	13.5
25-Jun	2-Jul	NE	R	T1	D	4	2.9623	0.05625	0.0473	8
25-Jun	2-Jul	NE	R	T1	D	4	2.9623	0.05575	0.0487	8
25-Jun	2-Jul	NE	R	T1	D	20	3.0737	0.0673	0.0581	3.25
25-Jun	2-Jul	NE	R	T1	D	20	3.0737	0.0039	0.0023	3.25
25-Jun	2-Jul	NE	R	T1	D	50	3.0646	0.04085	0.0352	3.5
25-Jun	2-Jul	NE	R	T1	D	50	3.0646	0.0192	0.0118	3.5
25-Jun	2-Jul	NE	R	T2	ND	4	3.0194	0.04705	0.0411	5.5
25-Jun	2-Jul	NE	R	T2	ND	4	3.0194	0.04705	0.0405	5.5
25-Jun	2-Jul	NE	R	T2	ND	20	3.0347	0.02155	0.0177	5
25-Jun	2-Jul	NE	R	T2	ND	20	3.0347	0.06145	0.051	5
25-Jun	2-Jul	NE	R	T2	ND	50	3.0221	0.0561	0.0468	5.5
25-Jun	2-Jul	NE	R	T2	ND	50	3.0221	0.0581	0.0546	5.5
25-Jun	2-Jul	NE	R	T3	ND	4	2.8984	0.0472	0.0402	9.5
25-Jun	2-Jul	NE	R	T3	ND	4	2.8984	0.05145	0.0436	9.5
25-Jun	2-Jul	NE	R	T3	ND	20	2.9664	0.05005	0.0402	7.75
25-Jun	2-Jul	NE	R	T3	ND	20	2.9664	0.05005	0.0428	7.75
25-Jun	2-Jul	NE	R	T3	ND	50	3.0397	0.36485	0.29	4.5
25-Jun	2-Jul	NE	R	T3	ND	50	3.0397	0.3824	0.33	4.5
26-Jun	3-Jul	CL	L	T1	ND	4	2.9199	0.06055	0.0501	7
26-Jun	3-Jul	CL	L	T1	ND	4	2.9199	0.0644	0.0546	7
26-Jun	3-Jul	CL	L	T1	ND	20	3.016	0.04915	0.0402	3.5
26-Jun	3-Jul	CL	L	T1	ND	20	3.016	0.0538	0.0437	3.5
26-Jun	3-Jul	CL	L	T1	ND	50	3.0444	0.0285	0.0212	2.5
26-Jun	3-Jul	CL	L	T1	ND	50	3.0444	0.0396	0.0315	25
26-Jun	3-Jul	CL	L	T2	ND	4	2.869	0.0535	0.0458	8.5
26-Jun	3-Jul	CL	L	T2	ND	4	2.869	0.05355	0.0449	8.5
26-Jun	3-Jul	CL	L	T2	ND	20	3.0134	0.0489	0.0407	3.5
26-Jun	3-Jul	CL	L	T2	ND	20	3.0134	0.065	0.0548	3.5

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
26-Jun	3-Jul	CL	L	T2	ND	50	3.0491	0.08335	0.0703	2.5
26-Jun	3-Jul	CL	L	T2	ND	50	3.0491	0.1416	0.1247	2.5
26-Jun	3-Jul	CL	L	T3	ND	4	2.8459	0.1125	0.1008	8.75
26-Jun	3-Jul	CL	L	T3	ND	4	2.8459	0.0739	0.0623	8.75
26-Jun	3-Jul	CL	L	T3	ND	20	3.0247	0.04895	0.0384	3.5
26-Jun	3-Jul	CL	L	T3	ND	20	3.0247	0.0804	0.0685	3.5
26-Jun	3-Jul	CL	L	T3	ND	50	3.0625	0.0594	0.05	1.75
26-Jun	3-Jul	CL	L	T3	ND	50	3.0625	0.06935	0.0593	1.75
26-Jun	3-Jul	CL	R	T1	D	4	2.8685	0.08505	0.0746	8.5
26-Jun	3-Jul	CL	R	T1	D	4	2.8685	0.0372	0.0306	8.5
26-Jun	3-Jul	CL	R	T1	D	20	3.0647	0.0756	0.0632	1.5
26-Jun	3-Jul	CL	R	T1	D	20	3.0647	0.0188	0.0129	1.5
26-Jun	3-Jul	CL	R	T1	D	50	3.0232	0.05865	0.0497	3.5
26-Jun	3-Jul	CL	R	T1	D	50	3.0232	0.0577	0.0489	3.5
26-Jun	3-Jul	CL	R	T2	ND	4	2.9764	0.0468	0.0389	5.5
26-Jun	3-Jul	CL	R	T2	ND	4	2.9764	0.04255	0.0343	5.5
26-Jun	3-Jul	CL	R	T2	ND	20	3.0994	0.01275	0.0076	1
26-Jun	3-Jul	CL	R	T2	ND	20	3.0994	0.05535	0.0471	1
26-Jun	3-Jul	CL	R	T2	ND	50	3.0578	0.02105	0.0148	2.5
26-Jun	3-Jul	CL	R	T3	D	4	2.991	0.05575	0.0478	5.25
26-Jun	3-Jul	CL	R	T3	D	4	2.991	0.04815	0.0416	5.25
26-Jun	3-Jul	CL	R	T3	D	20	3.0078	0.04985	0.0389	4.25
26-Jun	3-Jul	CL	R	T3	D	20	3.0078	0.0429	0.0346	4.25
26-Jun	3-Jul	CL	R	T3	D	50	3.0237	0.04975	0.0415	3.5
26-Jun	3-Jul	CL	R	T3	D	50	3.0237	0.0684	0.0569	3.5
26-Jun	3-Jul	WE	L	T1	D	4	2.9007	0.05215	0.0436	7
26-Jun	3-Jul	WE	L	T1	D	4	2.9007	0.05575	0.0479	7
26-Jun	3-Jul	WE	L	T1	D	20	3.0349	0.04575	0.0387	3
26-Jun	3-Jul	WE	L	T1	D	20	3.0349	0.20025	0.1732	3
26-Jun	3-Jul	WE	L	T1	D	50	2.9831	0.08135	0.0687	5.5
26-Jun	3-Jul	WE	L	T1	D	50	2.9831	0.04795	0.0407	5.5
26-Jun	3-Jul	WE	L	T2	D	4	2.9184	0.05885	0.0499	7
26-Jun	3-Jul	WE	L	T2	D	4	2.9184	0.0527	0.0452	7
26-Jun	3-Jul	WE	L	T2	D	20	3.0177	0.04595	0.0389	3.5
26-Jun	3-Jul	WE	L	T2	D	20	3.0177	0.049	0.0387	3.5
26-Jun	3-Jul	WE	L	T2	D	50	2.9815	0.0478	0.0376	5.5
26-Jun	3-Jul	WE	L	T2	D	50	2.9815	0.0723	0.0593	5.5
26-Jun	3-Jul	WE	L	T3	D	4	2.8873	0.06845	0.0591	7.75
26-Jun	3-Jul	WE	L	T3	D	4	2.8873	0.103	0.0914	7.75
26-Jun	3-Jul	WE	L	T3	D	20	3.0248	0.0387	0.0327	3.5
26-Jun	3-Jul	WE	L	T3	D	20	3.0248	0.0392	0.0332	3.5
26-Jun	3-Jul	WE	L	T3	D	50	3.0261	0.03945	0.0324	3.5
26-Jun	3-Jul	WE	L	T3	D	50	3.0261	0.0381	0.0317	3.5
26-Jun	3-Jul	WE	R	T1	ND	4	2.799	0.0774	0.0673	10.25
26-Jun	3-Jul	WE	R	T1	ND	4	2.799	0.0712	0.0599	10.25
26-Jun	3-Jul	WE	R	T1	ND	20	3.0569	0.03955	0.0326	2.25
26-Jun	3-Jul	WE	R	T1	ND	20	3.0569	0.04595	0.0389	2.25
26-Jun	3-Jul	WE	R	T1	ND	50	3.0168	0.0735	0.0652	3.5
26-Jun	3-Jul	WE	R	T1	ND	50	3.0168	0.17335	0.1417	3.5
26-Jun	3-Jul	WE	R	T2	D	4	2.8105	0.0667	0.0588	9.5
26-Jun	3-Jul	WE	R	T2	D	4	2.8105	0.0811	0.068	9.5
26-Jun	3-Jul	WE	R	T2	D	20	2.9776	0.06125	0.0531	5.5
26-Jun	3-Jul	WE	R	T2	D	20	2.9776	0.05245	0.0411	5.5
26-Jun	3-Jul	WE	R	T2	D	50	3.0229	0.02565	0.0181	3.5
26-Jun	3-Jul	WE	R	T2	D	50	3.0229	0.04505	0.0366	3.5
26-Jun	3-Jul	WE	R	T3	ND	4	2.9538	0.0459	0.0359	6
26-Jun	3-Jul	WE	R	T3	ND	4	2.9538	0.05975	0.0507	6
26-Jun	3-Jul	WE	R	T3	ND	20	3.0535	0.0406	0.0341	2.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
26-Jun	3-Jul	WE	R	T3	ND	20	3.0535	0.01075	0.0076	2.25
26-Jun	3-Jul	WE	R	T3	ND	50	2.9749	0.01545	0.0115	5.5
26-Jun	3-Jul	WE	R	T3	ND	50	2.9749	0.09605	0.0819	5.5
2-Jul	13-Jul	NE	L	T1	ND	4	2.9266	0.4669	0.4173	11.25
2-Jul	13-Jul	NE	L	T1	ND	4	2.9266	0.6306	0.557	11.25
2-Jul	13-Jul	NE	L	T1	ND	20	3.0976	0.06845	0.0595	6.25
2-Jul	13-Jul	NE	L	T1	ND	20	3.0976	0.08865	0.0759	6.25
2-Jul	13-Jul	NE	L	T2	ND	4	2.8845	0.3622	0.3179	12.75
2-Jul	13-Jul	NE	L	T2	ND	4	2.8845	0.21775	0.1841	12.75
2-Jul	13-Jul	NE	L	T2	ND	20	3.0353	0.0874	0.0734	7.75
2-Jul	13-Jul	NE	L	T2	ND	20	3.0353	0.0815	0.0642	7.75
2-Jul	13-Jul	NE	L	T2	ND	50	3.0554	0.07275	0.0595	7.5
2-Jul	13-Jul	NE	L	T2	ND	50	3.0554	0.0679	0.0556	7.5
2-Jul	13-Jul	NE	L	T3	D	4	2.8723	0.05665	0.0422	13.25
2-Jul	13-Jul	NE	L	T3	D	4	2.8723	0.07575	0.059	13.25
2-Jul	13-Jul	NE	L	T3	D	20	2.8774	0.0594	0.0434	13
2-Jul	13-Jul	NE	L	T3	D	20	2.8774	0.06505	0.0504	13
2-Jul	13-Jul	NE	L	T3	D	50	2.7844	0.3162	0.274	18
2-Jul	13-Jul	NE	L	T3	D	50	2.7844	0.19555	0.1659	18
2-Jul	13-Jul	NE	R	T1	D	4	2.9623	0.16765	0.148	10
2-Jul	13-Jul	NE	R	T1	D	4	2.9623	0.06555	0.0534	10
2-Jul	13-Jul	NE	R	T1	D	20	3.0737	0.07685	0.0676	6.5
2-Jul	13-Jul	NE	R	T1	D	20	3.0737	0.0666	0.0543	6.5
2-Jul	13-Jul	NE	R	T1	D	50	3.0646	0.0593	0.0459	6.75
2-Jul	13-Jul	NE	R	T1	D	50	3.0646	0.07555	0.0575	6.75
2-Jul	13-Jul	NE	R	T2	ND	4	3.0194	0.0746	0.062	8.5
2-Jul	13-Jul	NE	R	T2	ND	4	3.0194	0.10675	0.0938	8.5
2-Jul	13-Jul	NE	R	T2	ND	20	3.0347	0.0664	0.0545	7.75
2-Jul	13-Jul	NE	R	T2	ND	20	3.0347	0.0375	0.0303	7.75
2-Jul	13-Jul	NE	R	T2	ND	50	3.0221	0.09225	0.0722	8
2-Jul	13-Jul	NE	R	T2	ND	50	3.0221	0.06675	0.047	8
2-Jul	13-Jul	NE	R	T3	ND	4	2.8984	0.0621	0.0529	12.25
2-Jul	13-Jul	NE	R	T3	ND	4	2.8984	0.05435	0.0456	12.25
2-Jul	13-Jul	NE	R	T3	ND	20	2.9664	0.09495	0.0784	9.75
2-Jul	13-Jul	NE	R	T3	ND	20	2.9664	0.07855	0.0609	9.75
2-Jul	13-Jul	NE	R	T3	ND	50	3.0397	0.08315	0.0648	7.75
2-Jul	13-Jul	NE	R	T3	ND	50	3.0397	0.0862	0.0668	7.75
2-Jul	14-Jul	SW	L	T1	ND	4	3.0025	0.2926	0.2556	11.75
2-Jul	14-Jul	SW	L	T1	ND	4	3.0025	0.26815	0.2319	11.75
2-Jul	14-Jul	SW	L	T1	ND	20	2.8929	0.1994	0.1677	16.75
2-Jul	14-Jul	SW	L	T1	ND	20	3.8929	0.0858	0.0704	16.75
2-Jul	14-Jul	SW	L	T1	ND	50	2.899	0.0841	0.0663	16.5
2-Jul	14-Jul	SW	L	T1	ND	50	2.899	0.07005	0.0553	16.5
2-Jul	14-Jul	SW	L	T2	D	4	2.8572	1.26255	1.1002	17.75
2-Jul	14-Jul	SW	L	T2	D	4	2.8572	0.6588	0.5743	17.75
2-Jul	14-Jul	SW	L	T2	D	20	2.988	0.06925	0.0559	12.5
2-Jul	14-Jul	SW	L	T2	D	20	2.988	0.10385	0.0732	12.5
2-Jul	14-Jul	SW	L	T2	D	50	2.9813	0.05585	0.0432	13
2-Jul	14-Jul	SW	L	T2	D	50	2.9813	0.0613	0.0488	13
2-Jul	14-Jul	SW	L	T3	D	4	2.9746	1.108	0.9583	13
2-Jul	14-Jul	SW	L	T3	D	4	2.9746	1.05475	0.9162	13
2-Jul	14-Jul	SW	L	T3	D	20	2.9632	0.07185	0.0556	13.75
2-Jul	14-Jul	SW	L	T3	D	20	2.9632	0.0692	0.0549	13.75
2-Jul	14-Jul	SW	L	T3	D	50	2.9167	0.05695	0.047	15.5
2-Jul	14-Jul	SW	L	T3	D	50	2.9167	0.0565	0.045	15.5
2-Jul	14-Jul	SW	R	T1	D	4	2.9905	1.11385	0.974	12.5
2-Jul	14-Jul	SW	R	T1	D	4	2.9905	1.79845	1.5744	12.5
2-Jul	14-Jul	SW	R	T1	D	20	3.0354	0.0799	0.0657	10.25

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
2-Jul	14-Jul	SW	R	T1	D	20	3.0354	0.07635	0.0651	10.25
2-Jul	14-Jul	SW	R	T1	D	50	3.0326	0.0765	0.0571	10.25
2-Jul	14-Jul	SW	R	T1	D	50	3.0326	0.07295	0.0541	10.25
2-Jul	14-Jul	SW	R	T2	ND	4	2.9073	0.1629	0.1432	15.75
2-Jul	14-Jul	SW	R	T2	ND	4	2.9073	0.08875	0.0743	15.75
2-Jul	14-Jul	SW	R	T2	ND	20	3.0038	0.0585	0.0455	11.75
2-Jul	14-Jul	SW	R	T2	ND	20	3.0038	0.0595	-0.0063	11.75
2-Jul	14-Jul	SW	R	T2	ND	50	3.0206	0.05405	0.0437	10.75
2-Jul	14-Jul	SW	R	T2	ND	50	3.0206	0.05165	0.0403	10.75
2-Jul	14-Jul	SW	R	T3	ND	4	2.9692	0.07865	0.0625	13
2-Jul	14-Jul	SW	R	T3	ND	4	2.9692	0.0728	0.0628	13
2-Jul	14-Jul	SW	R	T3	ND	20	3.0509	0.0556	0.0406	10.25
2-Jul	14-Jul	SW	R	T3	ND	20	3.0509	0.0564	0.0409	10.25
2-Jul	14-Jul	SW	R	T3	ND	50	3.0577	0.07265	0.0516	9.5
2-Jul	14-Jul	SW	R	T3	ND	50	3.0577	0.07015	0.0479	9.5
3-Jul	13-Jul	WE	L	T1	D	4	2.9007	0.6738	0.5945	12.25
3-Jul	13-Jul	WE	L	T1	D	4	2.9007	0.81635	0.7188	12.25
3-Jul	13-Jul	WE	L	T1	D	20	3.0349	0.09585	0.082	7.75
3-Jul	13-Jul	WE	L	T1	D	20	3.0349	0.1131	0.0977	7.75
3-Jul	13-Jul	WE	L	T1	D	50	2.9831	0.06745	0.0578	9.5
3-Jul	13-Jul	WE	L	T1	D	50	2.9831	0.07565	0.062	9.5
3-Jul	13-Jul	WE	L	T2	D	4	2.9184	1.64985	1.4323	11.25
3-Jul	13-Jul	WE	L	T2	D	4	2.9184	1.10555	0.9661	11.25
3-Jul	13-Jul	WE	L	T2	D	20	3.0177	0.1532	0.1266	8.5
3-Jul	13-Jul	WE	L	T2	D	20	3.0177	0.15795	0.1359	8.5
3-Jul	13-Jul	WE	L	T2	D	50	2.9815	0.0954	0.0744	9.5
3-Jul	13-Jul	WE	L	T2	D	50	2.9815	0.05845	0.0461	9.5
3-Jul	13-Jul	WE	L	T3	D	4	2.8873	0.1506	0.1304	12.5
3-Jul	13-Jul	WE	L	T3	D	4	2.8873	0.13505	0.1224	12.5
3-Jul	13-Jul	WE	L	T3	D	20	3.0248	0.04505	0.0311	7.75
3-Jul	13-Jul	WE	L	T3	D	20	3.0248	0.07745	0.065	7.75
3-Jul	13-Jul	WE	L	T3	D	50	3.0261	0.06985	0.0506	7.75
3-Jul	13-Jul	WE	L	T3	D	50	3.0261	0.0734	0.0578	7.75
3-Jul	13-Jul	WE	R	T1	ND	4	2.799	1.395	1.2232	17.25
3-Jul	13-Jul	WE	R	T1	ND	4	2.799	1.3785	1.2105	17.25
3-Jul	13-Jul	WE	R	T1	ND	20	3.0569	0.0942	0.0802	7
3-Jul	13-Jul	WE	R	T1	ND	20	3.0569	0.08635	0.0712	7
3-Jul	13-Jul	WE	R	T1	ND	50	3.0168	0.05895	0.0481	8.5
3-Jul	13-Jul	WE	R	T1	ND	50	3.0168	0.07115	0.0544	8.5
3-Jul	13-Jul	WE	R	T2	D	4	2.8105	0.3439	0.301	17
3-Jul	13-Jul	WE	R	T2	D	4	2.8105	0.40995	0.3511	17
3-Jul	13-Jul	WE	R	T2	D	20	2.9776	0.06475	0.0534	9.5
3-Jul	13-Jul	WE	R	T2	D	20	2.9776	0.0991	0.0781	9.5
3-Jul	13-Jul	WE	R	T2	D	50	3.0229	0.0742	0.0597	8
3-Jul	13-Jul	WE	R	T2	D	50	3.0229	0.07465	0.0536	8
3-Jul	13-Jul	WE	R	T3	ND	4	2.9538	0.52155	0.4519	10.75
3-Jul	13-Jul	WE	R	T3	ND	4	2.9538	0.4487	0.3859	10.75
3-Jul	13-Jul	WE	R	T3	ND	20	3.0535	0.1105	0.078	7.75
3-Jul	13-Jul	WE	R	T3	ND	20	3.0535	0.08555	0.0708	7.75
3-Jul	13-Jul	WE	R	T3	ND	50	2.9749	0.0696	0.0608	9.5
3-Jul	13-Jul	WE	R	T3	ND	50	2.9749	0.07885	0.0687	9.5
3-Jul	14-Jul	CL	L	T1	ND	4	2.9199	0.10695	0.0907	15.5
3-Jul	14-Jul	CL	L	T1	ND	4	2.9199	-0.1584	-0.1667	15.5
3-Jul	14-Jul	CL	L	T1	ND	20	3.016	0.0854	0.0618	11
3-Jul	14-Jul	CL	L	T1	ND	20	3.016	0.0856	0.0645	11
3-Jul	14-Jul	CL	L	T1	ND	50	3.0444	0.0595	0.0464	10.25
3-Jul	14-Jul	CL	L	T1	ND	50	3.0444	0.0405	0.0282	10.25
3-Jul	14-Jul	CL	L	T2	ND	4	2.869	0.09445	0.0794	17.75

Date Deployed	Date Collected	Creek	Branch	Tran-sect	Ditch/No-ditch	Dis-tance (m)	Site Elevation (m)	Total Sediment Deposited (g)	Total Inorganic Sediment Deposited (g)	Hours Inundated
3-Jul	14-Jul	CL	L	T2	ND	4	2.869	0.08035	0.0691	17.75
3-Jul	14-Jul	CL	L	T2	ND	20	3.0134	0.0729	0.0489	11.25
3-Jul	14-Jul	CL	L	T2	ND	20	3.0134	0.1154	0.0911	11.25
3-Jul	14-Jul	CL	L	T2	ND	50	3.0491	0.08755	0.0721	10.25
3-Jul	14-Jul	CL	L	T2	ND	50	3.0491	0.1032	0.0807	10.25
3-Jul	14-Jul	CL	L	T3	ND	4	2.8459	0.0899	0.0762	18.75
3-Jul	14-Jul	CL	L	T3	ND	4	2.8459	0.1172	0.094	18.75
3-Jul	14-Jul	CL	L	T3	ND	20	3.0247	0.11175	0.0825	10.25
3-Jul	14-Jul	CL	L	T3	ND	20	3.0247	0.0946	0.0747	10.25
3-Jul	14-Jul	CL	L	T3	ND	50	3.0625	0.0786	0.0628	9.25
3-Jul	14-Jul	CL	L	T3	ND	50	3.0625	0.0912	0.0657	9.25
3-Jul	14-Jul	CL	R	T1	D	4	2.8685	0.9071	0.8066	17.75
3-Jul	14-Jul	CL	R	T1	D	4	2.8685	0.8698	0.768	17.75
3-Jul	14-Jul	CL	R	T1	D	20	3.0647	0.12475	0.1104	9.25
3-Jul	14-Jul	CL	R	T1	D	20	3.0647	0.146	0.1265	9.25
3-Jul	14-Jul	CL	R	T1	D	50	3.0232	0.09515	0.0724	10.25
3-Jul	14-Jul	CL	R	T1	D	50	3.0232	0.09705	0.0748	10.25
3-Jul	14-Jul	CL	R	T2	ND	4	2.9764	0.1828	0.1601	13
3-Jul	14-Jul	CL	R	T2	ND	4	2.9764	0.12345	0.1077	13
3-Jul	14-Jul	CL	R	T2	ND	20	3.0994	0.09745	0.0807	8.25
3-Jul	14-Jul	CL	R	T2	ND	20	3.0994	0.15785	0.134	8.25
3-Jul	14-Jul	CL	R	T2	ND	50	3.0578	0.1239	0.1027	9.5
3-Jul	14-Jul	CL	R	T2	ND	50	3.0578	0.12895	0.1025	9.5
3-Jul	14-Jul	CL	R	T3	D	4	2.991	0.1024	0.089	12.5
3-Jul	14-Jul	CL	R	T3	D	4	2.991	0.1355	0.1183	12.5
3-Jul	14-Jul	CL	R	T3	D	20	3.0078	0.09725	0.0765	11.75
3-Jul	14-Jul	CL	R	T3	D	20	3.0078	0.096	0.0795	11.75
3-Jul	14-Jul	CL	R	T3	D	50	3.0237	0.09105	0.0726	10.25
3-Jul	14-Jul	CL	R	T3	D	50	3.0237	0.09845	0.0759	10.25

APPENDIX 6. Percent sand/silt/clay from marsh platform surface scrapes at each station along each transect. Sampled only in 2004.

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Sand	Percent Silt	Percent Clay
SW	M	1	D	4	14.5859	62.2529	23.1612
SW	M	1	D	10	14.2329	62.0501	23.7169
SW	M	1	D	20	17.7723	59.9213	22.3065
SW	M	1	D	50	19.5701	49.3547	31.0752
SW	M	1	D	75	26.7134	46.8220	26.4646
SW	M	1	ND	4	11.3949	61.9988	26.6063
SW	M	1	ND	10	22.9731	60.4408	16.5861
SW	M	1	ND	20	22.4037	51.3916	26.2047
SW	M	1	ND	50	19.0073	57.4529	23.5397
SW	M	1	ND	75	26.8321	48.5858	24.5821
SW	M	2	D	4	8.7783	62.2112	29.0104
SW	M	2	D	10	11.5346	59.0644	29.4010
SW	M	2	D	20	16.6164	50.3478	33.0358
SW	M	2	D	50	19.3900	42.2658	38.3442
SW	M	2	D	75	19.3592	67.5133	13.1276
SW	M	2	ND	4	20.2750	53.1031	26.6220
SW	M	2	ND	10	27.5990	44.5961	27.8049
SW	M	2	ND	20	21.8993	49.2567	28.8440
SW	M	2	ND	50	27.5395	40.4795	31.9810
SW	M	2	ND	75	30.8300	46.1133	23.0567
SW	R	T1	D	4	14.1278	62.2004	23.6718
SW	R	T1	D	10	15.2028	63.4330	21.3641
SW	R	T1	D	20	18.6674	64.3961	16.9365
SW	R	T1	D	50	20.1754	57.0767	22.7480
SW	R	1	ND	4	23.8803	66.8331	9.2866
SW	R	1	ND	10	34.7538	62.9524	2.2938
SW	R	1	ND	20	43.3201	56.0864	0.5935
SW	R	1	ND	50	35.2151	64.7849	0.0000
SW	R	2	D	10	19.7388	59.8774	20.3838
SW	R	2	D	20	14.6523	60.4317	24.9160
SW	R	2	D	50	43.2842	47.3744	9.3414
SW	R	T2	ND	4	13.7575	55.7736	30.4689
SW	R	T2	ND	10	13.3328	60.3916	26.2756
SW	R	T2	ND	20	13.9589	56.7033	29.3378
SW	R	T2	ND	50	7.7309	55.8958	36.3734
SW	R	3	D	4	16.1445	65.7024	18.1531
SW	R	3	D	10	25.6857	57.1276	17.1867
SW	R	3	D	20	37.5901	53.8112	8.5987
SW	R	3	D	37	27.7222	54.6448	17.6330
SW	R	T3	ND	4	9.6832	58.8886	31.4282
SW	R	T3	ND	10	20.7300	64.5221	14.7479
SW	R	T3	ND	20	19.3243	64.7030	15.9727

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Sand	Percent Silt	Percent Clay
SW	R	T3	ND	50	40.5482	58.4442	1.0077
SW	L	1	D	4	12.8035	60.0130	27.1836
SW	L	1	D	10	16.1158	61.4635	22.4207
SW	L	1	D	20	14.4706	57.4749	28.0545
SW	L	1	D	50	18.7079	47.6170	33.6751
SW	L	T1	ND	4	15.9083	65.6089	18.4829
SW	L	T1	ND	10	16.6242	62.0545	21.3213
SW	L	T1	ND	20	15.6269	55.9888	28.3843
SW	L	T1	ND	50	24.8570	49.1258	26.0173
SW	L	T2	D	4	21.1058	63.8429	15.0514
SW	L	T2	D	10	20.9105	59.9615	19.1280
SW	L	T2	D	20	24.7805	54.0283	21.1913
SW	L	T2	D	50	40.8409	46.2474	12.9117
SW	L	T2	D	75	26.9462	55.2804	17.7734
SW	L	T2	D	100	25.7622	34.6754	39.5625
SW	L	T2	D	112	36.7704	32.4991	30.7305
SW	L	2	ND	4	17.6469	60.5462	21.8069
SW	L	2	ND	12	21.7907	58.3038	19.9055
SW	L	2	ND	40	32.9502	55.4757	11.5741
SW	L	T3	D	4	11.6374	62.6152	25.7474
SW	L	T3	D	20	15.6065	57.5729	26.8206
SW	L	T3	D	50	23.7649	47.9131	28.3220
WE	R	T1	ND	4	17.3721	61.6341	20.9938
WE	R	T1	ND	20	15.3139	48.9454	35.7407
WE	R	T1	ND	50	20.1521	27.5665	52.2814
WE	R	T2	D	4	12.6774	56.2436	31.0789
WE	R	T2	D	20	16.7968	44.5288	38.6744
WE	R	T2	D	50	22.1790	27.4458	50.3752
WE	R	T3	ND	4	13.3419	57.7338	28.9243
WE	R	T3	ND	20	22.2209	35.8528	41.9263
WE	R	T3	N	50	34.9850	19.6199	45.3951
WE	L	T1	D	4	14.3453	62.4199	23.2348
WE	L	T1	D	20	15.4852	58.5528	25.9621
WE	L	T1	D	50	22.7886	50.9148	26.2966
WE	L	T2	D	4	19.0583	59.1991	21.7426
WE	L	T2	D	20	16.6888	57.4727	25.8385
WE	L	T2	D	50	18.1311	41.6842	40.1847
WE	L	T3	D	4	14.7780	59.3878	25.8342
WE	L	T3	D	20	19.0590	45.7003	35.2407
WE	L	T3	D	50	23.5271	34.5094	41.9634
CL	M	1	D	4	14.7198	66.7499	18.5303
CL	M	1	D	10	12.0766	67.1171	20.8063
CL	M	1	D	20	14.4794	62.3119	23.2087
CL	M	1	D	50	14.7658	62.9398	22.2943
CL	M	1	ND	4	12.7907	61.2282	25.9811
CL	M	1	ND	10	21.7453	54.5411	23.7135

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Sand	Percent Silt	Percent Clay
CL	M	1	ND	20	15.5376	46.3370	38.1254
CL	M	1	ND	50	20.0080	47.1919	32.8001
CL	M	2	D	4	23.4237	59.8842	16.6921
CL	M	2	D	10	18.2303	60.4755	21.2942
CL	M	2	D	20	19.3660	53.6020	27.0320
CL	M	2	D	50	17.9725	42.2041	39.8234
CL	M	2	ND	4	12.4361	55.9073	31.6566
CL	M	2	ND	10	24.2611	40.5744	35.1645
CL	M	2	ND	20	28.8996	43.7541	27.3463
CL	R	T1	D	4	21.8833	58.0549	20.0618
CL	R	T1	D	10	16.1943	61.3760	22.4298
CL	R	T1	D	20	18.7218	59.8382	21.4400
CL	R	T1	D	50	31.0499	38.9475	30.0026
CL	R	1	ND	4	23.4832	60.2304	16.2864
CL	R	1	ND	10	19.9228	57.1443	22.9329
CL	R	1	ND	20	14.1445	53.9205	31.9350
CL	R	2	D	4	18.4733	53.5590	27.9677
CL	R	2	D	10	12.5730	62.7432	24.6839
CL	R	2	D	20	25.3516	50.6801	23.9684
CL	R	2	D	50	24.5473	59.1046	16.3481
CL	R	2	D	75	16.2777	54.0861	29.6362
CL	R	2	D	95	16.7887	57.1408	26.0705
CL	R	T2	ND	4	35.8017	54.3158	9.8825
CL	R	T2	ND	10	19.4149	56.2992	24.2859
CL	R	T2	ND	20	28.4049	51.7258	19.8693
CL	R	T2	ND	50	31.6681	36.6753	31.6566
CL	R	T2	ND	75	23.4127	35.0781	41.5091
CL	R	T3	D	4	15.4490	58.6164	25.9346
CL	R	T3	D	10	14.5505	54.3423	31.1072
CL	R	T3	D	20	17.0249	48.7962	34.1788
CL	R	T3	D	50	19.5486	43.5779	36.8736
CL	R	T3	D	75	16.0543	45.8097	38.1360
CL	R	3	ND	4	15.2470	57.0698	27.6831
CL	R	3	ND	10	21.1791	51.1054	27.7155
CL	R	3	ND	20	21.7103	46.1708	32.1188
CL	R	3	ND	50	35.2176	39.2708	25.5117
CL	R	3	ND	75	24.4385	27.4299	48.1317
CL	L	1	D	4	16.6373	62.7550	20.6077
CL	L	1	D	10	13.8246	61.7462	24.4292
CL	L	1	D	20	11.6526	62.8662	25.4813
CL	L	1	D	50	16.4984	54.5972	28.9044
CL	L	1	D	85	18.2311	49.3063	32.4626
CL	L	1	ND	4	12.8324	58.4488	28.7188
CL	L	1	ND	10	20.3889	50.0597	29.5514
CL	L	1	ND	20	19.7704	44.7478	35.4818
CL	L	1	ND	40	18.2931	55.0689	26.6380

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Sand	Percent Silt	Percent Clay
CL	L	T1	ND	4	15.0550	59.2264	25.7187
CL	L	T1	ND	20	25.2533	42.3565	32.3902
CL	L	T1	ND	50	24.0103	35.8500	40.1397
CL	L	T2	ND	4	20.3692	40.9887	38.6421
CL	L	T2	ND	20	27.8452	30.5018	41.6530
CL	L	T2	ND	50	17.7531	34.4218	47.8250
CL	L	T3	ND	4	12.3887	45.8355	41.7758
CL	L	T3	ND	20	21.4774	36.3885	42.1341
CL	L	T3	ND	50	20.4795	38.2767	41.2438
CL	MOS	MOS	D	4	17.7388	50.3570	31.9043
CL	MOS	MOS	D	10	27.3121	43.6127	29.0752
CL	MOS	MOS	D	20	35.4466	37.2625	27.2909
CL	MOS	MOS	D	50	22.2171	35.9501	41.8328
NE	R	T1	D	4	12.9013	61.8775	25.2212
NE	R	T1	D	20	25.2137	40.8497	33.9367
NE	R	T1	D	50	23.6171	37.8835	38.4994
NE	R	T2	ND	4	20.5000	56.9679	22.5321
NE	R	T2	ND	20	25.1570	39.3020	35.5410
NE	R	T2	ND	50	23.5260	38.2370	38.2370
NE	R	T3	ND	4	17.4964	55.5746	26.9290
NE	R	T3	ND	20	32.7898	32.0143	35.1959
NE	R	T3	ND	50	34.1905	25.8973	39.9123
NE	L	T1	ND	4	17.3365	62.1401	20.5233
NE	L	T1	ND	20	11.0871	56.4793	32.4336
NE	L	T1	ND	50	18.4663	34.5233	47.0104
NE	L	T2	ND	4	19.6501	55.3246	25.0253
NE	L	T2	ND	20	16.9814	52.0901	30.9285
NE	L	T2	ND	50	11.1896	54.6898	34.1206
NE	L	T3	D	4	21.9322	49.1045	28.9633
NE	L	T3	D	20	23.7013	47.3098	28.9889
NE	L	T3	D	50	23.8325	55.2871	20.8804

APPENDIX 7. Percent bulk organic values from marsh platform surface scrapes at each station along each transect. Sampled only in 2004.

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Organic
SW	M	1	D	4	13.3733
SW	M	1	D	10	12.6446
SW	M	1	D	20	18.1190
SW	M	1	D	50	21.5669
SW	M	1	D	75	30.7200
SW	M	1	ND	4	14.6749
SW	M	1	ND	10	24.8426
SW	M	1	ND	20	28.8409
SW	M	1	ND	50	29.2370
SW	M	1	ND	75	30.1270
SW	M	2	D	4	15.5616
SW	M	2	D	10	18.8603
SW	M	2	D	20	26.0390
SW	M	2	D	50	33.8309
SW	M	2	D	75	35.0330
SW	M	2	ND	4	19.3374
SW	M	2	ND	10	23.9168
SW	M	2	ND	20	26.4811
SW	M	2	ND	50	32.5191
SW	M	2	ND	75	36.7522
SW	R	T1	D	4	13.1885
SW	R	T1	D	10	16.0108
SW	R	T1	D	20	22.1245
SW	R	T1	D	50	26.0584
SW	R	1	ND	4	18.7583
SW	R	1	ND	10	24.5995
SW	R	1	ND	20	28.9367
SW	R	1	ND	50	21.4644
SW	R	2	D	4	17.0328
SW	R	2	D	10	20.8940
SW	R	2	D	20	17.2496
SW	R	2	D	50	36.8700
SW	R	T2	ND	4	18.6623
SW	R	T2	ND	10	23.0621
SW	R	T2	ND	20	22.6795
SW	R	T2	ND	50	19.8209
SW	R	3	D	4	15.2543
SW	R	3	D	10	25.2120
SW	R	3	D	20	31.7494
SW	R	3	D	37	21.5731
SW	R	T3	ND	4	14.8891
SW	R	T3	ND	10	22.3417

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Organic
SW	R	T3	ND	20	14.1281
SW	R	T3	ND	50	37.0787
SW	L	1	D	4	14.5450
SW	L	1	D	10	12.7872
SW	L	1	D	20	14.8859
SW	L	1	D	50	31.9684
SW	L	T1	ND	4	13.9053
SW	L	T1	ND	10	21.4795
SW	L	T1	ND	20	19.8870
SW	L	T1	ND	50	35.7699
SW	L	T2	D	4	14.6259
SW	L	T2	D	10	19.9668
SW	L	T2	D	20	26.1101
SW	L	T2	D	50	32.0451
SW	L	T2	D	75	17.2891
SW	L	T2	D	100	33.2568
SW	L	T2	D	112	32.6674
SW	L	2	ND	4	15.9593
SW	L	2	ND	12	21.0102
SW	L	2	ND	40	38.8821
SW	L	T3	D	4	14.6244
SW	L	T3	D	20	21.0650
SW	L	T3	D	50	29.9293
WE	R	T1	ND	4	12.3167
WE	R	T1	ND	20	24.8610
WE	R	T1	ND	50	41.1100
WE	R	T2	D	4	12.8524
WE	R	T2	D	20	26.8346
WE	R	T2	D	50	40.7692
WE	R	T3	ND	4	14.7380
WE	R	T3	ND	20	34.9967
WE	R	T3	ND	50	36.2603
WE	L	T1	D	4	14.2721
WE	L	T1	D	20	26.5333
WE	L	T1	D	50	45.8583
WE	L	T2	D	4	12.0587
WE	L	T2	D	20	14.0865
WE	L	T2	D	50	26.4129
WE	L	T3	D	4	13.5393
WE	L	T3	D	20	25.9980
WE	L	T3	D	50	36.8807
CL	M	1	D	4	11.1296
CL	M	1	D	10	12.9144
CL	M	1	D	20	15.3593
CL	M	1	D	50	16.9396
CL	M	1	ND	4	19.9519

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Organic
CL	M	1	ND	10	28.1204
CL	M	1	ND	20	26.0580
CL	M	1	ND	50	38.3072
CL	M	2	D	4	12.9591
CL	M	2	D	10	16.7636
CL	M	2	D	20	18.2078
CL	M	2	D	50	26.8846
CL	M	2	ND	4	16.5883
CL	M	2	ND	10	28.8642
CL	M	2	ND	20	30.0215
CL	R	T1	D	4	12.1654
CL	R	T1	D	10	13.2558
CL	R	T1	D	20	18.0101
CL	R	T1	D	50	23.4227
CL	R	1	ND	4	11.9076
CL	R	1	ND	10	15.0868
CL	R	1	ND	20	17.8672
CL	R	2	D	4	16.5183
CL	R	2	D	10	23.1229
CL	R	2	D	20	28.1796
CL	R	2	D	50	57.1731
CL	R	2	D	75	21.5683
CL	R	2	D	95	23.2433
CL	R	T2	ND	4	12.7020
CL	R	T2	ND	10	20.2487
CL	R	T2	ND	20	26.8859
CL	R	T2	ND	50	31.0806
CL	R	T2	ND	75	31.3741
CL	R	T3	D	4	16.3844
CL	R	T3	D	10	20.5040
CL	R	T3	D	20	24.9108
CL	R	T3	D	50	28.4960
CL	R	T3	D	75	24.0094
CL	R	3	ND	4	15.6088
CL	R	3	ND	10	23.1931
CL	R	3	ND	20	27.1543
CL	R	3	ND	50	26.1295
CL	R	3	ND	75	37.6286
CL	L	1	D	4	12.0886
CL	L	1	D	10	12.9184
CL	L	1	D	20	12.2678
CL	L	1	D	50	18.1481
CL	L	1	D	85	17.5943
CL	L	1	ND	4	13.1816
CL	L	1	ND	10	19.4680
CL	L	1	ND	20	30.1652

Creek	Branch	Transect	Ditch/No-Ditch	Distance (m)	Percent Organic
CL	L	1	ND	40	30.9801
CL	L	T1	ND	4	18.1831
CL	L	T1	ND	20	38.1894
CL	L	T1	ND	50	34.0026
CL	L	T2	ND	4	24.7454
CL	L	T2	ND	20	34.5374
CL	L	T2	ND	50	35.8935
CL	L	T3	ND	4	17.6220
CL	L	T3	ND	20	40.5420
CL	L	T3	ND	50	35.5429
CL	MOS	MOS	D	4	23.0918
CL	MOS	MOS	D	10	34.2910
CL	MOS	MOS	D	20	41.5164
CL	MOS	MOS	D	50	37.1754
NE	R	T1	D	4	13.2266
NE	R	T1	D	20	28.6035
NE	R	T1	D	50	36.7307
NE	R	T2	ND	4	14.7264
NE	R	T2	ND	20	27.6812
NE	R	T2	ND	50	30.1692
NE	R	T3	ND	4	14.9911
NE	R	T3	ND	20	19.7271
NE	R	T3	ND	50	32.1604
NE	L	T1	ND	4	12.7315
NE	L	T1	ND	20	17.6640
NE	L	T1	ND	50	29.5399
NE	L	T2	ND	4	13.7406
NE	L	T2	ND	20	21.2601
NE	L	T2	ND	50	22.1590
NE	L	T3	D	4	22.3211
NE	L	T3	D	20	29.3610
NE	L	T3	D	50	15.6830

APPENDIX 8. Sweeney Creek marsh platform flooding pattern station locations and maximum recorded water height. Data collected on June 28, 2005.

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	43.280	70	50.809	9.0
42	43.279	70	50.809	9.5
42	43.279	70	50.830	12.0
42	43.278	70	50.841	15.5
42	43.278	70	50.852	11.9
42	43.278	70	50.863	18.5
42	43.277	70	50.873	9.0
42	43.275	70	50.884	10.9
42	43.275	70	50.892	10.0
42	43.273	70	50.911	19.0
42	43.274	70	50.919	5.1
42	43.274	70	50.928	17.1
42	43.292	70	50.807	12.0
42	43.290	70	50.814	8.0
42	43.289	70	50.830	8.0
42	43.287	70	50.842	20.0
42	43.286	70	50.853	4.9
42	43.286	70	50.864	14.1
42	43.285	70	50.875	6.0
42	43.283	70	50.885	4.9
42	43.282	70	50.896	11.5
42	43.281	70	50.910	18.0
42	43.278	70	50.917	9.7
42	43.302	70	50.819	13.0
42	43.301	70	50.824	7.0
42	43.300	70	50.833	5.0
42	43.298	70	50.842	19.0
42	43.297	70	50.855	4.2
42	43.296	70	50.867	22.7
42	43.294	70	50.877	5.0
42	43.289	70	50.889	5.5
42	43.287	70	50.900	23.1
42	43.286	70	50.912	15.5
42	43.309	70	50.828	33.0
42	43.308	70	50.834	2.0
42	43.302	70	50.845	18.0
42	43.306	70	50.857	3.9
42	43.304	70	50.870	28.7
42	43.303	70	50.882	6.9
42	43.302	70	50.893	12.3

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	43.302	70	50.893	12.3
42	43.300	70	50.908	3.8
42	43.313	70	50.837	9.0
42	43.314	70	50.849	18.0
42	43.314	70	50.857	1.3
42	43.317	70	50.872	29.0
42	43.315	70	50.885	6.1
42	43.326	70	50.899	21.0
42	43.324	70	50.908	5.9
42	43.325	70	50.911	17.5
42	43.323	70	50.842	16.9
42	43.324	70	50.847	3.5
42	43.325	70	50.861	2.7
42	43.326	70	50.870	8.3
42	43.327	70	50.882	5.5
42	43.327	70	50.900	15.5
42	43.326	70	50.907	5.5
42	43.335	70	50.845	2.0
42	43.332	70	50.864	0.0
42	43.333	70	50.872	1.4
42	43.334	70	50.889	0.0
42	43.334	70	50.906	0.5
42	43.335	70	50.912	21.0
42	43.336	70	50.922	10.9
42	43.336	70	50.823	13.0
42	43.336	70	50.816	11.0
42	43.335	70	50.807	20.0
42	43.335	70	50.797	17.0
42	43.321	70	50.823	13.0
42	43.321	70	50.816	10.0
42	43.321	70	50.806	18.0
42	43.321	70	50.797	3.0
42	43.309	70	50.816	22.0
42	43.309	70	50.807	7.0
42	43.309	70	50.799	5.0
42	43.302	70	50.808	11.0
42	43.303	70	50.804	13.0
42	43.304	70	50.801	14.0
42	43.302	70	50.794	15.0
42	43.292	70	50.804	9.7
42	43.291	70	50.797	9.6
42	43.293	70	50.793	12.6
42	43.292	70	50.789	14.5
42	43.291	70	50.779	28.5

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	43.288	70	50.799	10.2
42	43.288	70	50.797	4.5
42	43.288	70	50.794	5.7
42	43.288	70	50.790	13.5
42	43.289	70	50.782	36.6
42	43.321	70	50.900	15.3
42	43.32	70	50.911	3.5
42	43.315	70	50.916	19.4
42	43.328	70	50.886	5.9

APPENDIX 9. Club Head Creek marsh platform flooding pattern station locations and maximum recorded water height. Data collected on July 18, 2006.

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	44.447	70	50.339	15.0
42	44.411	70	50.290	10.5
42	44.425	70	50.314	15.0
42	44.460	70	50.320	8.5
42	44.430	70	50.307	23.6
42	44.469	70	50.315	18.2
42	44.436	70	50.321	29.5
42	44.413	70	50.295	11.5
42	44.449	70	50.327	20.5
42	44.465	70	50.320	13.5
42	44.444	70	50.335	20.0
42	44.436	70	50.329	31.5
42	44.434	70	50.323	23.0
42	44.409	70	50.299	22.1
42	44.413	70	50.309	23.5
42	44.436	70	50.340	23.5
42	44.416	70	50.321	15.0
42	44.419	70	50.311	15.0
42	44.418	70	50.281	38.5
42	44.430	70	50.317	39.2
42	44.464	70	50.325	12.9
42	44.414	70	50.284	12.5
42	44.441	70	50.311	21.5
42	44.421	70	50.306	14.6
42	44.416	70	50.305	16.0
42	44.432	70	50.338	24.5
42	44.455	70	50.323	32.0
42	44.458	70	50.336	25.0
42	44.453	70	50.319	11.5
42	44.445	70	50.315	28.0
42	44.460	70	50.336	25.0
42	44.465	70	50.310	15.0
42	44.418	70	50.288	32.1
42	44.406	70	50.292	15.6
42	44.431	70	50.329	23.0
42	44.416	70	50.292	16.0
42	44.423	70	50.295	29.5
42	44.427	70	50.339	24.5
42	44.425	70	50.339	26.7
42	44.419	70	50.318	13.5

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	44.455	70	50.343	14.5
42	44.437	70	50.317	23.0
42	44.450	70	50.331	17.0
42	44.426	70	50.327	25.4
42	44.425	70	50.300	40.2
42	44.461	70	50.316	7.1
42	44.432	70	50.311	31.5
42	44.420	70	50.301	14.1
42	44.414	70	50.315	11.0
42	44.443	70	50.298	7.0
42	44.456	70	50.298	10.5
42	44.442	70	50.294	6.5
42	44.471	70	50.314	16.6
42	44.423	70	50.286	42.5
42	44.432	70	50.280	5.0
42	44.444	70	50.293	7.0
42	44.428	70	50.284	6.0
42	44.471	70	50.307	15.5
42	44.449	70	50.289	12.5
42	44.432	70	50.269	6.0
42	44.446	70	50.295	8.0
42	44.426	70	50.274	8.0
42	44.439	70	50.290	6.0
42	44.429	70	50.271	4.0
42	44.473	70	50.315	22.8
42	44.465	70	50.315	15.1
42	44.453	70	50.294	7.5
42	44.470	70	50.294	10.5
42	44.467	70	50.299	8.5
42	44.451	70	50.292	8.0
42	44.449	70	50.298	6.0
42	44.479	70	50.308	29.0
42	44.469	70	50.308	17.2
42	44.450	70	50.307	14.5
42	44.435	70	50.278	6.0
42	44.431	70	50.267	10.5
42	44.425	70	50.275	37.0
42	44.438	70	50.298	9.0
42	44.437	70	50.304	29.0
42	44.440	70	50.287	6.0
42	44.430	70	50.298	28.0
42	44.464	70	50.304	11.0
42	44.436	70	50.282	5.5
42	44.433	70	50.302	39.5

LATITUDE, N		LONGITUDE, W		MAXIMUM WATER HEIGHT (cm)
Degrees	Minutes	Degrees	Minutes	
42	44.473	70	50.313	16.6
42	44.444	70	50.282	6.5
42	44.439	70	50.301	11.5
42	44.446	70	50.302	0.0
42	44.450	70	50.302	9.0
42	44.439	70	50.275	8.0
42	44.428	70	50.289	27.0
42	44.435	70	50.293	6.0
42	44.478	70	50.309	16.8
42	44.441	70	50.278	9.5
42	44.431	70	50.285	5.0
42	44.443	70	50.304	25.0
42	44.472	70	50.305	31.0
42	44.439	70	50.280	6.5

LITERATURE CITED

Adamowicz, S. C. and C. T. Roman, 2005. New England salt marsh pools: a quantitative analysis of geomorphic and geographic features. Wetlands, 25, 279 – 288.

Bricker-Urso, S., S. W. Nixon, J. K. Cochran, D. J. Hirschberg, and C. Hunt, 1989. Accretion rates and sediment accumulation in Rhode Island salt marshes. Estuaries, 12, 300-317.

Bottitta, G. and K. Whiting-Grant, 2004. A Volunteer's Handbook for Monitoring Maine Salt Marshes. Maine Sea Grant report MSG-E-04-4, 50 p. (www.seagrant.umaine.edu/documents/pdf/mmsm.pdf)

Bourn, W. S. and C. Cottam, 1950. Some biological effects of ditching tidewater marshes. U. S. Fish and Wildlife Service, Res. Report 19. 17 p.

Cavatorta, J. R., M. Johnson, C. Hopkinson, and V. Valentine, 2003. Patterns of sedimentation in a salt marsh-dominated estuary. Biological Bulletin, 205, 239-241.

Christiansen, T., P. L. Wiberg, and T. G. Milligan, 2000. Flow and surface transport on a tidal salt marsh surface. Estuarine, Coastal, and Shelf Science, 50, 315-331.

Clarke, J. A., B. A. Harrington, T. Hruby, and F. E. Wasserman, 1984. The effect of ditching for mosquito control on salt marsh use by birds in Rowley, Massachusetts. Journal of Field Orninthology, 55, 160 – 180.

Collins, J. N., L. M. Collins, L. B. Leopold, and V. H. Resh, 1986. The influence of mosquito control ditches on the geomorphology of tidal marshes in the San Francisco Bay area: evolution of salt marsh mosquito habitats. Proceedings and Papers of the Annual Conference of the California Mosquito and Vector Control Association, 54, 91-95.

Deegan, L., B. Peterson, J. Hobbie, C. Hopkinson, and J. Vallino, 2002. TIDE: Trophic cascade and Interacting control processes in a Detritus-based aquatic Ecosystem. NSF Award DEB 0213767 Project Description, 25 p.

Deegan, L., J. L. Bowen, D. Drake, J. W. Fleeger, C. T. Friedrichs, K. A. Galvan, J. E. Hobbie, C. Hopkinson, J. M. Johnson, D. S. Johnson, L. E. LeMay, E. Miller, B. J. Peterson, C. Picard, S. Sheldon, J. Vallino, and R. S. Warren, in press. Susceptibility of salt marshes to nutrient enrichment and predator removal, 59 p.

Folk, R. L., 1980. Petrology of sedimentary rocks. Hemphill Publishing Co., Austin, Texas, 170 pp.

French, J. R. and T. Spencer, 1993. Dynamics of sedimentation in a tide-dominated backbarrier salt marsh, Norfolk, UK. Marine Geology, 110, 315-331.

French, J. R., T. Spencer, A. L. Murray, and N. S. Arnold, 1995. Geostatistical analysis of sediment deposition in two small tidal wetlands, Norfolk U. K. Journal of Coastal Research, 11, 308-321.

Friedrichs, C. T. and J. E. Perry, 2001. Tidal salt marsh morphodynamics: a synthesis. Journal of Coastal Research, Special Issue 27, 7-37.

Gehrels, W. R. and S. P. Leatherman, 1989. Sea-level rise: animator and terminator of coastal marshes. Vance Bibliographies, Monticello, IL, 39 pp.

Gleason, M. L., D. A. Elmer, N. C. Pien, and J. S. Fisher, 1979. Effects of stem density upon sediment retention by salt marsh cord grass, *Spartina alterniflora* Loisel. Estuaries, 2, 271-273.

Jewett, A. E., 1949. The tidal marshes of Rowley and vicinity with an account of the old-time methods of "marshing". Newcomb and Gauss Co., Printers, Salem Massachusetts, 23p.

Kastler, J. A. and P. L. Wiberg, 1996. Sedimentation and boundary changes of Virginia salt marshes. Estuarine, Coastal and Shelf Science, 42, 683-700.

Leonard, L. A., 1997. Controls of sediment transport and deposition in an incised mainland marsh, southeastern North Carolina. Wetlands, 17, 263-274.

Leonard, L. A. and M. E. Luther, 1995. Flow hydrodynamics in tidal marsh canopies. Limnology and Oceanography, 40, 1474-1484.

Leonard, L. A. and D. J. Reed, 2002. Hydrodynamics and sediment transport through tidal marsh canopies. Journal of Coastal Research, SI 36, 459-469.

Lesser, C. R., F. J. Murphy, and R. W. Lake, 1976. Some effects of grid system mosquito control ditching on salt marsh biota in Delaware. Mosquito News, 36, 69-77.

Neubauer, S. C., I. C. Anderson, J. A. Constantine, and S. A. Kuehl, 2002. Sediment deposition and accretion in a mid-Atlantic (U.S.A.) tidal freshwater marsh. Estuarine, Coastal, and Shelf Science, 54, 713-727.

Niering, W. A. and R. S. Warren, 1980. Vegetation Patterns and Process in New England Salt Marshes. Bioscience, 30(5), 301-307.

Nyman, J. A., R. D. DeLaune, H.H. Roberts, and W. H. Patrick, Jr., 1993. Relationship between vegetation and soil formation in a rapidly submerging coastal marsh. Marine Ecology Progress Series, 96, 269 – 279.

Redfield, A. C., 1972. Development of a New England salt marsh. Ecological Monographs, 42, 201-237.

Reed, D. J., 1989. Patterns of sediment deposition in subsiding coastal salt marshes, Terrebonne Bay, Louisiana: the role of winter storms. Estuaries, 12, 222-227.

Reed, D. J., 1990. The impact of sea-level rise on coastal salt marshes. Progress in Physical Geograhy, 14(4), 465 – 481.

Resh, V. H. and S. S. Balling, 1983. Ecological impact of mosquito control recirculation ditches on San Francisco Bay marshlands: study conclusions and management recommendations. Proceedings and Papers of the Annual Conference of the California Mosquito and Vector Control Association, 51, 49-53.

Schmitt, C., N. Weston, and C. Hopkinson, 1998. A preliminary evaluation of sedimentation rates and species distribution in Plum Island estuary, Massachusetts. Biological Bulletin, 195, 232-233.

Sebold, K. R., 1998. The low green prairies of the sea: economic usage and cultural construction of the Gulf of Maine marshes. Ph.D. thesis, University of Maine.

Shishler, J. K. and D. M. Jobbins, 1977. Salt marsh productivity as affected by the selective ditching technique, open marsh water management. Mosquito News, 37, 631-636.

Stevenson, J. C., M. S. Kearney, and E. W. Koch, 2002. Impacts of sea level rise on tidal wetlands and shallow water habitats: a case study from Chesapeake Bay. American Fisheries Society Symposium, 32, 23-36.

Vallino, J. J., C. S. Hopkinson, and R. H. Garritt, 2005. Estimating estuarine gross production, community respiration and net ecosystem production: a nonlinear inverse technique. Ecological Modelling, 187, 281-296.

Wolaver, T. G., R. F. Dame, J. D. Spurrier, and A. B. Miller, 1988. Bly Creek ecosystem study – inorganic sediment transport within a euhaline salt marsh basin, North Inlet, South Carolina. Journal of Coastal Research, 4, 607-615.